

Vascular endothelial growth factor receptor 1 - Group: Enzyme
Treated with:

sunitinib: approved small molecule (198 associated side effects) For the treatment of advanced renal cell carcinoma as well as the treatment of gastrointestinal stromal tumor after disease progression on or intolerance to imatinib mesylate.
n-(4-chlorophenyl)-2-[(pyridin-4-ylmethyl)amino]benzamide:
experimental small molecule (0 associated side effects)

198 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain upper Acute coronary syndrome Adrenal insufficiency Ageusia Alanine aminotransferase increased Alopecia Anaemia Angioedema Angiopathy Aortic dissection Aphthous stomatitis Apoptosis Arrhythmia Arthralgia Aspartate aminotransferase increased Asthenia Back pain Blindness Blindness cortical Blister Blood albumin decreased Blood alkaline phosphatase increased Blood amylase increased Blood bilirubin increased Blood creatinine increased Blood glucose decreased Blood glucose increased Blood magnesium decreased Blood phosphorus decreased Blood potassium decreased Blood potassium increased Blood sodium increased Blood thyroid stimulating hormone increased Blood uric acid increased Body temperature increased Bradycardia Cardiac failure Cardiac failure congestive Cell death Cerebral infarction Cerebrovascular accident Chest pain Chills Congenital skin disorder Connective tissue disorder Constipation Convulsion Cough Decreased appetite Deep vein thrombosis Dehydration Depressed mood Dermatitis bullous Dermatitis psoriasiform Diarrhoea Discomfort Dizziness Dry mouth Dry skin Dysgeusia Dyspepsia Dyspnoea Ejection fraction Ejection fraction decreased Electrocardiogram PR interval Embolism Epistaxis Erythema Eye disorder Fatigue Febrile neutropenia Fistula Flank pain Flatulence Gastric haemorrhage Gastrointestinal disorder Gastrointestinal pain Gastrooesophageal reflux disease Gingival pain Gingivitis Glossitis Glossodynia Haematemesia Haematochezia Haematoma Haemoglobin decreased Haemoptysis Haemorrhage Haemorrhoids Hair colour changes Headache Hepatic failure Hypercalcaemia Hyperglycaemia Hyperkalaemia Hybernatraemia Hypersensitivity Hypertension Hyperthyroidism Hyperuricaemia Hypoalbuminaemia Hypocalcaemia Hypogeusia Hypoglycaemia Hypokalaemia Hyponatraemia Hypophosphataemia Hypothyroidism Infarction Infection Infestation Inflammation Influenza Influenza like illness Insomnia Ischaemia Lacrimation increased Left ventricular dysfunction Leukoderma Leukoencephalopathy Leukopenia Lipase increased Lung neoplasm malignant Lymphopenia Malaise Mediastinal disorder Melaena Mental disorder Metastasis Metrorrhagia Microangiopathy Mouth ulceration Mucosal dryness Mucosal inflammation Musculoskeletal discomfort Myalgia Myocardial ischaemia

Myopathy Nasopharyngitis Nausea Necrosis Neoplasm
Nephrotic syndrome Nervous system disorder Neuropathy
peripheral Neutropenia Oedema Oedema peripheral Oesophagitis
Oral pain Pain Pain in extremity Pancreatic disorder
Pancreatitis Periorbital oedema Platelet count
decreased Posterior reversible encephalopathy syndrome Primary
hypothyroidism Protein urine present Proteinuria Prurigo
Pruritus Pulmonary embolism Pulmonary haemorrhage Rash
erythematous Rash follicular Rash papular Reflux
oesophagitis Regressive behaviour Renal failure Renal
failure acute Renal impairment Respiratory tract infection
Rhabdomyolysis Skin discolouration Social avoidant
behaviour Splinter haemorrhages Stomatitis Thrombocytopenia
Thrombosis Thrombotic microangiopathy Thyroid disorder
Thyroiditis Tongue ulceration Transient ischaemic attack
Tumour lysis syndrome Tumour necrosis Ulcer Upper respiratory
tract infection Venous thrombosis Ventricular dysfunction
Visual acuity reduced Visual impairment Vomiting Weight
decreased Wound haemorrhage Yellow skin

Nuclear receptor-interacting protein 1 - Group: Other

Treated with:

4-hydroxy-n'-(4-isopropylbenzyl)benzohydrazide: experimental
small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Organic cation/carnitine transporter 2 - Group: Transporter

Treated with:

choline: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance

l-arginine: approved, nutraceutical small molecule (20 associated
side effects) Used for nutritional supplementation, also for
treating dietary shortage or imbalance.

creatine: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance

thiamine: approved, nutraceutical small molecule (18 associated
side effects) For the treatment of thiamine and niacin deficiency
states, Korsakov's alcoholic psychosis, Wernicke-Korsakov syndrome,
delirium, and peripheral neuritis.

amphetamine: illicit, approved small molecule (95 associated
side effects) For treatment of Attention Deficit Disorder with
Hyperactivity (ADDH) and narcolepsy in children.

nicotine: approved small molecule (98 associated side effects)
For the relief of nicotine withdrawal symptoms and as an aid
to smoking cessation.

lidocaine: approved small molecule (120 associated side
effects) For production of local or regional anesthesia by
infiltration techniques such as percutaneous injection and
intravenous regional anesthesia by peripheral nerve block techniques

such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks.

valproic acid: approved small molecule (272 associated side effects) For treatment and management of seizure disorders, mania, and prophylactic treatment of migraine headache.

ipratropium bromide: approved small molecule (116 associated side effects) For maintenance treatment of bronchospasm associated with chronic obstructive pulmonary disease, including chronic bronchitis and emphysema.

aminohippurate: approved small molecule (0 associated side effects) Used to measure effective renal plasma flow (ERPF) and to determine the functional capacity of the tubular excretory mechanism.

grepafloxacin: approved, withdrawn small molecule (0 associated side effects) For treatment of adults with mild to moderate infections caused by susceptible strains of <i>Haemophilus influenzae</i>, <i>Streptococcus pneumoniae</i>, or <i>Moraxella catarrhalis</i>.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

ampicillin: approved small molecule (30 associated side effects) For treatment of infection (Respiratory, GI, UTI and meningitis) due to *E. coli*, *P. mirabilis*, enterococci, *Shigella*, *S. typhosa* and other *Salmonella*, nonpenicillinase-producing *N. gonorrhoeae*, *H. influenzae*, staphylococci, streptococci including streptoc

ceftazidime: approved small molecule (71 associated side effects) For the treatment of patients with infections caused by susceptible strains of organisms in the following diseases: lower respiratory tract infections, skin and skin structure infections, urinary tract infections, bacterial septicemia, bone and joint infections, gynecologic infections, intra abdominal infections (including peritonitis), and central nervous system infections (including meningitis).

cefalotin: approved small molecule (0 associated side effects) Used to prevent infection during surgery and to treat many kinds of infections of the blood, bone or joints, respiratory tract, skin, and urinary tract.

quinine: approved small molecule (0 associated side effects) For the treatment of malaria and leg cramps

cimetidine: approved small molecule (50 associated side effects) For the treatment and the management of acid-reflux disorders (GERD), peptic ulcer disease, heartburn, and acid indigestion.

cefdinir: approved small molecule (109 associated side effects) For the treatment of the respiratory, skin, soft tissue, and ENT infections caused by <i>H. influenzae</i> (including b-lactamase producing strains), <i>H. parainfluenzae</i> (including b-lactamase producing strains), <i>S. pneumoniae</i> (penicillin-susceptible strains), <i>S. pyogenes</i>, <i>S. aureus</i> (including b-lactamase producing strains), and <i>M. catarrhalis</i>.

guanidine: approved small molecule (0 associated side effects)

For the reduction of the symptoms of muscle weakness and easy fatigability associated with the myasthenic syndrome of Eaton-Lambert. It is not indicated for treating myasthenia gravis.

cephalexin: approved small molecule (65 associated side effects)

For the treatment of respiratory tract infections caused by *Streptococcus pneumoniae*; and *Streptococcus pyogenes*; otitis media due to *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Staphylococcus aureus*, *Streptococcus pyogenes*, and *Moraxella catarrhalis*; skin and skin structure infections caused by *Staphylococcus aureus*; and/or *Streptococcus pyogenes*; bone infections caused by *Staphylococcus aureus*; and/or *Proteus mirabilis*; genitourinary tract infections, including acute prostatitis, caused by *Escherichia coli*, *Proteus mirabilis*, and *Klebsiella pneumoniae*.

clonidine: approved small molecule (161 associated side effects) May be used as an adjunct in the treatment of hypertension, as an epidural infusion as an adjunct treatment in the management of severe cancer pain that is not relieved by opiate analgesics alone, for differential diagnosis of pheochromocytoma in hypertensive patients, prophylaxis of vascular migraine headaches, treatment of severe dysmenorrhea, management of vasomotor symptoms associated with menopause, rapid detoxification in the management of opiate withdrawal, treatment of alcohol withdrawal used in conjunction with benzodiazepines, management of nicotine dependence, topical use to reduce intraocular pressure in the treatment of open-angle and secondary glaucoma and hemorrhagic glaucoma associated with hypertension, and in the treatment of attention-deficit hyperactivity disorder (ADHD).

l-carnitine: approved small molecule (0 associated side effects) For treatment of primary systemic carnitine deficiency, a genetic impairment of normal biosynthesis or utilization of levocarnitine from dietary sources, or for the treatment of secondary carnitine deficiency resulting from an inborn error of metabolism such as glutaric aciduria II, methyl malonic aciduria, propionic acidemia, and medium chain fatty acylCoA dehydrogenase deficiency. Used therapeutically to stimulate gastric and pancreatic secretions and in the treatment of hyperlipoproteinemias. Parenteral levocarnitine is indicated for the prevention and treatment of carnitine deficiency in patients with end-stage renal disease.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

histamine phosphate: approved small molecule (0 associated side effects) Histamine phosphate is indicated as a diagnostic aid for evaluation of gastric acid secretory function.

cefixime: approved small molecule (55 associated side effects)

For use in the treatment of the following infections when caused by susceptible strains of the designated microorganisms: (1) uncomplicated urinary tract infections caused by *Escherichia coli* and *Proteus*

mirabilis</i>;, (2) otitis media caused by <i>Haemophilus influenzae</i> (beta-lactamase positive and negative strains), <i>Moraxella catarrhalis</i> (most of which are beta-lactamase positive), and <i>S. pyogenes</i>;, (3) pharyngitis and tonsillitis caused by <i>S. pyogenes</i>;, (4) acute bronchitis and acute exacerbations of chronic bronchitis caused by <i>Streptococcus pneumoniae</i> and <i>Haemophilus influenzae</i> (beta-lactamase positive and negative strains), and (5) uncomplicated gonorrhea (cervical/urethral) caused by <i>Neisseria gonorrhoeae</i> (penicillinase- and non-penicillinase-producing strains).

cephalglycin: approved small molecule (0 associated side effects) For treatment of severe infections caused by susceptible bacteria.

furosemide: approved small molecule (112 associated side effects) For the treatment of edema associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome. Also for the treatment of hypertension alone or in combination with other antihypertensive agents.

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

dactinomycin: approved small molecule (0 associated side effects) For the treatment of Wilms' tumor, childhood rhabdomyosarcoma, Ewing's sarcoma and metastatic, nonseminomatous testicular cancer as part of a combination chemotherapy and/or multi-modality treatment regimen

lomefloxacin: approved small molecule (204 associated side effects) For the treatment of bacterial infections of the respiratory tract (chronic bronchitis) and urinary tract, and as a pre-operative prophylactic to prevent urinary tract infection caused by: <i>S.pneumoniae</i>;, <i>H.influenzae</i>;, <i>S.aureus</i>;, <i>P.aeruginosa</i>;, <i>E. cloacae</i>;, <i>P. mirabilis</i>;, <i>C. civersus</i>;, <i>S. asprphyticus</i>;, <i>E.coli</i>;, and <i>K.pneumoniae</i>.

cyclacillin: approved small molecule (0 associated side effects) For the treatment of bacterial infections caused by susceptible organisms.

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

procainamide: approved small molecule (55 associated side effects) For the treatment of life-threatening ventricular arrhythmias.

penicillin g: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of

septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

norfloxacin: approved small molecule (154 associated side effects) For the treatment of urinary tract infection

diphenhydramine: approved small molecule (51 associated side effects) For the treatment of symptoms associated with Vertigo/Meniere's disease, nausea and vomiting, motion sickness and insect bite.

cefadroxil: approved small molecule (63 associated side effects)

For the treatment of the following infections (skin, UTI, ENT) caused by; <i>S. pneumoniae, H. influenzae, staphylococci, S. pyogenes</i> (group A beta-hemolytic streptococci),

<i>E. coli, P. mirabilis, Klebsiella</i> sp, coagulase-negative staphylococci and <i>Streptococcus pyogenes</i>;

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

ofloxacin: approved small molecule (407 associated side effects) For the treatment of infections (respiratory tract, kidney, skin, soft tissue, UTI), urethral and cervical gonorrhoea.

sparfloxacin: approved small molecule (0 associated side effects) For the treatment of adults with the following infections

caused by susceptible strains microorganisms: community-acquired pneumonia (caused by <i>Chlamydia pneumoniae</i>, <i>Haemophilus influenzae</i>, <i>Haemophilus parainfluenzae</i>, <i>Moraxella catarrhalis</i>, <i>Mycoplasma pneumoniae</i>, or <i>Streptococcus pneumoniae</i>) and acute bacterial exacerbations of chronic bronchitis (caused by <i>Chlamydia pneumoniae</i>, <i>Enterobacter cloacae</i>, <i>Haemophilus influenzae</i>, <i>Haemophilus parainfluenzae</i>, <i>Klebsiella pneumoniae</i>, <i>Moraxella catarrhalis</i>, <i>Staphylococcus aureus</i>, or <i>Streptococcus pneumoniae</i>).

cefradine: approved small molecule (0 associated side effects)

tiotropium: approved small molecule (60 associated side effects)

Used in the management of chronic obstructive pulmonary disease (COPD).

cefepime: approved small molecule (73 associated side effects)

For the treatment of pneumonia (moderate to severe) caused by <i>Streptococcus pneumoniae</i>, including cases associated with concurrent bacteremia, <i>Pseudomonas aeruginosa</i>, <i>Klebsiella pneumoniae</i>, or <i>Enterobacter</i> species. Also for empiric treatment of febrile neutropenic patients and uncomplicated and complicated urinary tract infections (including pyelonephritis) caused by <i>Escherichia coli</i> or <i>Klebsiella pneumoniae</i>, when the infection is severe, or caused by <i>Escherichia coli</i>, <i>Klebsiella pneumoniae</i>, or <i>Proteus mirabilis</i>, when the infection is mild to moderate, including cases associated with

concurrent bacteremia with these microorganisms. Also for the treatment of uncomplicated skin and skin structure infections caused by *Staphylococcus aureus* (methicillin-susceptible strains only) or *Streptococcus pyogenes*; and complicated intra-abdominal infections (used in combination with metronidazole) caused by *Escherichia coli*, viridans group streptococci, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, *Enterobacter* species, or *Bacteroides fragilis*.

methamphetamine: illicit, approved small molecule (30 associated side effects) For the treatment of Attention Deficit Disorder with Hyperactivity (ADHD) and exogenous obesity.

acetylcholine: experimental small molecule (0 associated side effects)

aldosterone: experimental small molecule (0 associated side effects)

azidocillin: approved small molecule (0 associated side effects) For treatment of infection (Respiratory, GI, UTI and meningitis) due to *E. coli*, *P. mirabilis*, enterococci, *Shigella*, *S. typhosa* and other *Salmonella*, nonpenicillinase-producing *N. gonorrhoeae*, *H. influenzae*, staphylococci, streptococci including streptoc

837 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal mass
 Abdominal pain Abdominal pain upper Abnormal dreams
 Abnormal faeces Abscess Accommodation disorder Acidosis
 Acne Acute coronary syndrome Acute generalised
 exanthematous pustulosis Acute respiratory distress syndrome
 Acute respiratory failure Adenoma benign Affect lability
 Ageusia Aggression Agitation Agranulocytosis Alanine
 aminotransferase increased Albuminuria Alkalosis Alopecia
 Alveolitis allergic Amblyopia Amenorrhoea Amino acid
 metabolism disorder Ammonia increased Amnesia Anaemia Anal
 pruritus Anaphylactic shock Anaphylactoid reaction Angina
 pectoris Angioedema Angiopathy Angle closure glaucoma Anorectal
 discomfort Anosmia Anterior spinal artery syndrome Antinuclear
 antibody positive Anuria Anxiety Anxiety disorder Aortic
 dissection Apathy Aphasia Aplastic anaemia Apnoea
 Application site reaction Arachnoiditis Arrhythmia
 Arterial disorder Arthralgia Arthritis Arthropathy Ascites
 Aspartate aminotransferase increased Asphyxia Aspiration
 Assisted fertilisation Asterixis Asthenia Asthma
 Ataxia Atelectasis Atrial fibrillation Atrial flutter
 Atrioventricular block Atrioventricular block complete
 Atrioventricular block second degree Atrioventricular
 dissociation Atrophy Attention deficit/hyperactivity
 disorder Aura Autism spectrum disorder Autonomic neuropathy
 Azotaemia Back pain Balance disorder Benign intracranial
 hypertension Benign prostatic hyperplasia Bladder dilatation
 Bladder neck obstruction Bladder pain Bladder spasm
 Bleeding time prolonged Blindness Blister Blood
 albumin decreased Blood albumin increased Blood alkaline

phosphatase increased Blood amylase increased Blood bilirubin
 increased Blood creatinine increased Blood electrolytes abnormal
 Blood fibrinogen decreased Blood glucose abnormal Blood
 glucose decreased Blood lactate dehydrogenase increased Blood
 phosphorus decreased Blood potassium decreased Blood potassium
 increased Blood pressure increased Blood pressure systolic
 increased Blood prolactin increased Blood urea increased Blood
 uric acid increased Body temperature decreased Body temperature
 increased Bone pain Bradycardia Bradyphrenia Breast disorder
 Breast enlargement Breast feeding Breath odour
 Bronchitis Bronchospasm Bronchospasm paradoxical
 Burning sensation Bursitis Candidiasis Candiduria Cardiac
 arrest Cardiac death Cardiac disorder Cardiac failure
 Cardiac failure congestive Cardiac fibrillation Cardiac
 flutter Cardiac output decreased Cardio-respiratory arrest
 Cardiomyopathy Cardiovascular disorder Cataract
 Catatonia Cauda equina syndrome Cerebral artery thrombosis
 Cerebral atrophy Cerebral haemorrhage Cerebral ischaemia
 Cerebral thrombosis Cerebrovascular accident
 Cerebrovascular disorder Chemical eye injury Chest
 discomfort Chest pain Chills Choking sensation Cholecystitis
 Cholelithiasis Cholestasis Cholinergic syndrome
 Choreoathetosis Chromaturia Chronic obstructive pulmonary
 disease Cluster headache Coagulopathy Colitis Colonic
 pseudo-obstruction Coma Coma hepatic Completed suicide
 Condition aggravated Conduction disorder Confusional state
 Congenital anomaly Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis Connective tissue
 disorder Constipation Convulsion Coombs direct test positive
 Coombs test positive Coordination abnormal Corneal erosion
 Corneal oedema Coronary artery disease Coronary artery
 thrombosis Cough Cranial nerve paralysis Crocodile tears
 syndrome Crying Crystal urine Crystalluria Cutaneous
 lupus erythematosus Cutaneous vasculitis Cyanosis Cystitis
 Cystitis noninfective Deafness Deafness permanent Death
 Decreased appetite Dehydration Delirium Delusion
 Dementia Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depression Depressive
 symptom Dermatitis Dermatitis bullous Dermatitis contact
 Dermatitis diaper Dermatitis exfoliative Developmental delay
 Device related infection Diabetes mellitus Diarrhoea
 Diarrhoea haemorrhagic Diplegia Diplopia Disability
 Discomfort Disease progression Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drug abuse Drug dependence Drug eruption Drug
 interaction Drug level increased Drug withdrawal syndrome Dry
 eye Dry mouth Dry skin Dry throat Dysaesthesia Dysarthria
 Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysphonia Dysphoria Dysplasia Dyspnoea Dystonia
 Dysuria Ear disorder Ear haemorrhage Ear infection
 Ear pain Ecchymosis Eczema Effusion Ejaculation
 failure Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram abnormal
 Electrocardiogram normal Electroencephalogram abnormal

Electrolyte depletion Electrolyte imbalance Embolism
 Emotional disorder Emotional distress Emphysema
 Encephalopathy Endocarditis Endocrine disorder
 Enterocolitis Enterocolitis haemorrhagic Enuresis
 Eosinophilia Eosinophilic pneumonia Epidermal necrosis
 Epidermolysis bullosa Epididymitis Epistaxis Erectile
 dysfunction Eructation Erythema multiforme Erythema nodosum
 Euphoric mood Extradural abscess Extrapyrarnidal
 disorder Extrasystoles Extravasation Eye disorder Eye
 infection Eye irritation Eye pain Eye pruritus Face oedema
 Factor I deficiency Faecal incontinence Fanconi syndrome
 Fasting Fatigue Fear Febrile neutropenia Feeling
 abnormal Feeling cold Feeling hot Fibrosarcoma Fibrosis
 Flat affect Flatulence Fluid overload Flushing Foetor
 hepaticus Folate deficiency Formication Fungal infection Furuncle
 Gait disturbance Galactorrhoea Gangrene Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal motility disorder Gastrointestinal
 oedema Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Genital candidiasis
 Genital discharge Gigantism Gingival bleeding Gingival
 hyperplasia Gingival pain Gingivitis Glaucoma
 Glomerulonephritis Glossitis Glucose tolerance impaired
 Glycosuria Gout Grand mal convulsion Granulomatous liver
 disease Growth retardation Gynaecomastia Haematemesis
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobinuria Haemolysis Haemolytic anaemia Haemolytic
 uraemic syndrome Haemoptysis Haemorrhage Haemorrhagic disorder
 Haemorrhoids Hallucination Hallucination, auditory
 Hallucinations, mixed Halo vision Headache Hearing impaired
 Hemiplegia Hepatic cirrhosis Hepatic encephalopathy Hepatic
 enzyme increased Hepatic failure Hepatic fibrosis Hepatic function
 abnormal Hepatic necrosis Hepatitis Hepatitis acute Hepatitis
 fulminant Hepatobiliary disease Hepatocellular injury Herpes
 simplex Herpes virus infection Herpes zoster Hiccups
 Hormone level abnormal Hostility Hot flush Hydronephrosis
 Hyperacusis Hyperaemia Hyperaesthesia Hyperammonaemia
 Hyperbilirubinaemia Hypercalcaemia Hypercholesterolaemia
 Hypercoagulation Hypergammaglobulinaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hypernatraemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypertension Hyperthermia
 Hyperthyroidism Hypertonia Hypertrophic cardiomyopathy
 Hypertrophy Hyperuricaemia Hypoaesthesia Hypoaesthesia
 oral Hypocalcaemia Hypocoagulable state Hypoglycaemia
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hyponatraemia Hypophosphataemia Hypoproteinaemia
 Hypoproteinaemia Hyposthenuria Hypotension Hypothermia
 Hypoventilation Hypovolaemia Hypoxia Idiopathic
 thrombocytopenic purpura Ileus Ileus paralytic Ill-defined
 disorder Immune system disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Increased
 bronchial secretion Induration Infarction Infection Infestation
 Inflammation Influenza Influenza like illness Injection

site inflammation Injection site pain Injection site reaction
 Insomnia Intermittent claudication Intermittent explosive
 disorder Interstitial lung disease Intestinal obstruction
 Intestinal perforation Intracranial pressure increased
 Intraocular pressure increased Irritability Ischaemia
 Jaundice Jaundice cholestatic Joint stiffness Joint
 swelling Keratitis Labyrinthitis Lacrimation decreased
 Lacrimation increased Lactic acidosis Laryngeal oedema
 Laryngitis Laryngospasm Lens disorder Lenticular
 opacities Lethargy Leukocytoclastic vasculitis Leukocytosis
 Leukoderma Leukopenia Libido decreased Liver disorder Liver
 function test abnormal Local reaction Loss of consciousness Loss
 of libido Lower respiratory tract infection Lymphadenitis
 Lymphadenopathy Lymphocytosis Lymphopenia Macrocytosis
 Macule Maculopathy Malaise Mania Mass Mediastinal
 disorder Melaena Melkersson-Rosenthal syndrome Meningism
 Meningitis Menopausal symptoms Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mental retardation Metabolic acidosis Metabolic
 alkalosis Methaemoglobinaemia Metrorrhagia Microsomia
 Micturition disorder Migraine Miosis Monocytosis
 Monoplegia Mood swings Mouth ulceration Mucosal inflammation
 Mucosal ulceration Multi-organ failure Multiple
 hereditary exostosis Muscle contractions involuntary Muscle
 fatigue Muscle rigidity Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 disorder Musculoskeletal stiffness Myalgia Myasthenia gravis
 Mydriasis Myocardial depression Myocardial infarction
 Myoclonus Myositis Nasal congestion Nasal discomfort Nasal
 dryness Nasal oedema Nasal polyps Nasal ulcer
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Nephritis Nephrocalcinosis
 Nephrolithiasis Nephropathy Nephropathy toxic Nephrotic
 syndrome Nervous system disorder Nervousness Neural tube
 defect Neuritis Neuroleptic malignant syndrome Neuropathy
 peripheral Neutropenia Neutrophilia Night blindness Nightmare
 Nocturia Nodal arrhythmia Nodule Nonketotic
 hyperglycinaemia Nuchal rigidity Nystagmus Obstruction Obstructive
 airways disorder Oedema Oedema mouth Oedema peripheral
 Oesophagitis Oligomenorrhoea Oliguria Optic nerve
 disorder Optic neuritis Oral candidiasis Orchitis noninfective
 Organ failure Oropharyngeal discomfort Oropharyngeal
 pain Orthostatic hypotension Orthostatic intolerance
 Osteoarthritis Osteoarthropathy Osteomyelitis Otitis
 media Otitis media acute Ovarian disorder Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancreatic disorder
 Pancreatitis acute Pancytopenia Panic attack Panic
 reaction Papule Paraesthesia Paraesthesia oral Paralysis
 Paranoia Paraplegia Parosmia Parotid gland enlargement
 Parotitis Patent ductus arteriosus Pathological fracture
 Pemphigoid Peptic ulcer Pericarditis Perineal pain
 Personality change Personality disorder Petechiae Petit
 mal epilepsy Pharyngeal oedema Pharyngitis Phlebitis Phobia
 Photophobia Photosensitivity reaction Pigmentation disorder
 Piloerection Plasmodium falciparum infection Platelet

count decreased Platelet disorderPleural disorder Pleural effusion
 Pleurisy Pneumonia Pneumothorax Poisoning Pollakiuria
 Polycystic ovaries Polydipsia Polymyositis
 Polyneuropathy Polyp Polyuria Porphyria Porphyria acute
 Pressure of speech Proctalgia Prostatic disorder
 Protein urine present Proteinuria Prothrombin level decreased
 Prothrombin level increased Pruritus Pruritus generalised
 Pruritus genital Pseudomembranous colitis Psychotic
 disorder Pulmonary embolism Pulmonary function test decreased
 Pulmonary oedema Purpura Pyuria Quadripareisis Rash
 Rash erythematousRash follicular Rash generalised Rash
 macular Rash maculo-papular Rash pustular Raynaud's
 phenomenon Renal colicRenal failure Renal failure acute Renal
 impairment Renal tubular disorder Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory failure Respiratory
 paralysis Respiratory tract infection Retinitis pigmentosa
 Rhabdomyolysis Rhinitis Rhinitis seasonalRhinorrhoea
 Salivary gland pain Salivary hypersecretion
 Sarcosinaemia Schizophrenia Scotoma Seasonal allergy
 Seborrhoeic dermatitis Sedation Sensation of foreign body
 Sensitisation Sensory loss Sepsis Serum sickness
 Sexual dysfunction Shock Sicca syndrome Sick sinus
 syndrome Sinus arrest Sinus bradycardiaSinusitis Skin
 candida Skin discolouration Skin disorder Skin exfoliation
 Skin hyperpigmentation Skin necrosis Skin ulcer Sleep
 disorder Sleep terror Sneezing Social avoidant behaviour
 Somnolence Speech disorder Spina bifida Sputum increased
 Status asthmaticus Status epilepticus Stevens-Johnson
 syndrome Stickler's syndrome Stomatitis Strangury Stridor
 Strongyloidiasis Stupor Subarachnoid haemorrhage
 Sudden death Sudden visual loss Suicidal ideation
 Suicide attempt Superinfection Supraventricular tachycardia
 Surgery Swelling Syncope Synovitis Systemic lupus
 erythematosus TachycardiaTardive dyskinesia Tearfulness
 Tenderness Tendon disorder Tendonitis Tension
 Teratogenicity Testicular atrophy Testicular swelling
 Tetany Thinking abnormalThirst Thought blocking
 Throat irritationThroat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thrombotic thrombocytopenic purpura Thyroid
 disorder Thyroid function test abnormal Tic Tinnitus
 Tobacco user Tongue discolouration Tongue disorder
 Tongue oedema Tooth abscess Tooth disorder Torsade de
 pointes Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Type I hypersensitivity Ulcer
 Upper gastrointestinal haemorrhageUpper respiratory tract
 infection Urethral disorderUrinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 output increased Urticaria Uveitis Vaginal dischargeVaginal
 haemorrhageVaginal infectionVaginal inflammation Vascular anomaly
 Vascular purpura Vascular resistance systemic Vasculitis
 Vasculitis necrotising Vasoconstriction Vasodilation procedure
 Venous thrombosisVentricular arrhythmia Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardiaVertigo Viral diarrhoea Viral infection Vision

blurred Visual acuity reduced Visual impairment Vitreous floaters
Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
infection Weight decreased Weight increased Wheezing White blood
cell count decreased White blood cell disorder White blood cells
urine positive Withdrawal hypertension Withdrawal syndrome
Xanthopsia

Receptor activity-modifying protein 1 - Group: Other

Treated with:

pramlintide: approved biotech (17 associated side effects)

For the treatment of type 1 and type 2 diabetes mellitus as an adjunct to preprandial insulin therapy in patients without adequate glycemic control of insulin therapy.

17 known side effects mediated through drugs targeting this protein:

Abdominal pain Arthralgia Asthenia Cough Decreased appetite
Dizziness Fatigue Gastrointestinal pain Headache
Hypersensitivity Hypoglycaemia Injection site reaction
Musculoskeletal discomfort Nausea Pain Pharyngitis
Vomiting

Mineralocorticoid receptor - Group: Receptor

Treated with:

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

progesterone: approved small molecule (256 associated side effects) For progesterone supplementation or replacement as part of an Assisted Reproductive Technology (ART) treatment for infertile women with progesterone deficiency and for the treatment of secondary amenorrhea. Also used for the reduction of the incidence of endometrial hyperplasia and the attendant risk of endometrial carcinoma in postmenopausal women receiving estrogen replacement therapy, as well as treatment of abnormal uterine bleeding due to hormonal imbalance in the absence of organic pathology such as fibroids or uterine cancer.

spironolactone: approved small molecule (34 associated side effects) Used primarily to treat low-renin hypertension, hypokalemia, and Conn's syndrome.

fluticasone propionate: approved small molecule (0 associated side effects) For the maintenance treatment of asthma as prophylactic therapy and for patients requiring oral corticosteroid therapy for asthma.

fludrocortisone: approved small molecule (81 associated side effects) For partial replacement therapy for primary and secondary adrenocortical insufficiency in Addison's disease and for the treatment of salt-losing adrenogenital syndrome.

eplerenone: approved small molecule (38 associated side effects)

For improvement of survival of stable patients with left ventricular systolic dysfunction (ejection fraction <40%) and

clinical evidence of congestive heart failure after an acute myocardial infarction.

felodipine: approved small molecule (96 associated side effects)

For the treatment of mild to moderate essential hypertension.

desoxycorticosterone pivalate: experimental small molecule

(0 associated side effects) Examined for treatment of adrenocortical insufficiency especially in multiple sclerosis, congenital cerebral palsy, polyarteritis nodosa, and rheumatoid arthritis. Currently only approved in treating cats and dogs for the treatment of Addison's disease.

drospirenone: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect an oral contraceptive.

aldosterone: experimental small molecule (0 associated side effects)

(11-beta)-11,21-dihydroxy-pregn-4-ene-3,20-dione: experimental small molecule (0 associated side effects)

374 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abortion spontaneous
Abscess Acne Acute coronary syndrome Affect lability
Aggression Agranulocytosis Alanine aminotransferase increased
Albuminuria Alcohol poisoning Alkalosis Alkalosis hypokalaemic
Alopecia Amenorrhoea Anaemia Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angioedema Angiopathy
Anorectal disorder Anxiety Anxiety disorder Aortic
dissection Arrhythmia Arthralgia Arthritis Aspartate
aminotransferase increased Asthenia Asthma Ataxia
Atrophy Autonomic neuropathy Back pain Benign
intracranial hypertension Bladder pain Blindness Blood
alkaline phosphatase increased Blood cholesterol increased Blood
creatinine increased Blood glucose increased Blood lactate
dehydrogenase increased Blood pressure increased Blood
triglycerides increased Blood urea increased Blood uric acid
Body temperature increased Bone pain Bradycardia Breast
cancer Breast discharge Breast disorder Breast enlargement
Breast pain Breast tenderness Bromosulphthalein test abnormal
Bronchitis Candidiasis Carbohydrate tolerance decreased
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac septal defect Cardiomegaly Cardiovascular
disorder Cataract Cataract subcapsular Cerebral artery
thrombosis Cerebral thrombosis Chest pain Chloasma Choking
Cholestasis Chorea Cleft lip Cleft palate Compression
fracture Confusional state Conjunctivitis Connective tissue
disorder Constipation Convulsion Cough Crying Cushingoid
Cystitis Cystitis noninfective Death Decreased appetite
Deep vein thrombosis Depersonalisation Depressed level of
consciousness Depression Dermatitis Dermatitis acneiform
Dermatitis atopic Diabetes mellitus Diaphragmatic hernia
Diarrhoea Diplopia Discomfort Disorientation
Disseminated intravascular coagulation Disturbance in
attention Disturbance in sexual arousal Dizziness Drug
eruption Dry mouth Dysarthria Dysmenorrhoea Dyspareunia
Dyspepsia Dysphagia Dyspnoea Dysuria Ear pain

Ecchymosis Electrolyte imbalance Embolism Endometrial
 cancer Eosinophilia Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Exophthalmos Extrasystoles Eye disorder Face oedema
 Fasting Fatigue Feeling abnormal Feeling drunk
 Flatulence Fluid retention Flushing Fungal infection Gait
 disturbance Galactorrhoea Gallbladder disorder Gamma-
 glutamyltransferase increased Gastric haemorrhage Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Genital candidiasis Genital
 discharge Gingival hyperplasia Glaucoma Glomerulonephritis
 membranous Glucose tolerance impaired Glycosuria Gynaecomastia
 Haemangioma Haematoma Haemoglobin Haemorrhage Headache Heart
 disease congenital Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatitis cholestatic Hepatobiliary disease Hereditary
 disorder Hernia Herpes simplex Herpes virus infection
 Hirsutism Hot flush Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyponatraemia Hyperplasia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperventilation
 Hypocalcaemia Hypokalaemia Hyponatraemia Hypotension
 Immune system disorder Impaired healing Increased appetite
 Infarction Infection Infestation Influenza Influenza like
 illness Insomnia Interstitial lung disease Intracranial
 pressure increased Intraocular pressure increased
 Irritability Jaundice Jaundice cholestatic Lethargy
 Leukocytoclastic vasculitis Libido decreased Lipoatrophy Liver
 function test abnormal Loss of consciousness Lymphadenopathy
 Malaise Mass Mediastinal disorder Memory impairment
 Menopausal symptoms Menorrhagia Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Metrorrhagia Microalbuminuria Micturition urgency
 Migraine Mood swings Muscle mass Muscle spasms Muscular
 weakness Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Myalgia Myocardial infarction
 Myopathy Nasal congestion Nasopharyngitis Nausea
 Necrosis Neoplasm Neoplasm malignant Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Night
 sweats Nitrogen balance negative Nocturia Oedema
 Oedema peripheral Oesophagitis Oesophagitis ulcerative
 Optic neuritis Orthostatic hypotension Osteoarthritis
 Osteonecrosis Osteoporosis Ovarian cancer Ovarian
 cyst Ovarian failure Ovarian hyperstimulation syndrome Pain Pain
 in extremity Palpitations Pancreatitis acute
 Papilloedema Paraesthesia Patent ductus arteriosus
 Pathological fracture Peptic ulcer Perineal pain
 Personality disorder Petechiae Pharyngitis Photosensitivity
 reaction Platelet count decreased Pneumonia Pollakiuria
 Polyuria Porphyria Postmenopausal haemorrhage
 Premenstrual syndrome Protein urine absent Protein urine
 present Proteinuria Pruritus Pruritus genital Pulmonary
 embolism Purpura Rash Rash generalised Rash maculo-papular
 Regurgitation Renal failure Renal impairment Respiratory
 disorder Respiratory tract infection Rhinitis Rhinorrhoea

Salivary gland enlargement Seborrhoeic dermatitis Sedation
Sexual dysfunction Shock Sinusitis Skin discolouration
Skin disorder Skin hyperpigmentation Skin papilloma Skin
striae Skin test positive Skin tightness Sleep disorder
Sneezing Somnolence Speech disorder Stupor Suicidal
ideation Swelling Swollen tongue Syncope Tachycardia
Tenderness Tension Thirst Throat tightness
Thrombocytopenia Thrombophlebitis Thrombosis Tinnitus Tooth
disorder Toothache Toxic epidermal necrolysis Transaminases
increased Transient ischaemic attack Tremor Type 2 diabetes
mellitus Ulcer Upper respiratory tract infection Urethral disorder
Urinary tract disorder Urinary tract infection Urine
output increased Urticaria Uterine cervical erosion Uterine
leiomyoma Uterine spasm Vaginal discharge Vaginal haemorrhage
Vaginal infection Vaginal inflammation Vascular purpura
Vasculitis Vasculitis necrotising Vasospasm Venous thrombosis
Ventricular septal defect Vertigo Viral infection
Vision blurred Visual acuity reduced Visual impairment
Vomiting Vulvovaginal discomfort Vulvovaginal dryness
Weight decreased Weight increased Wheezing Xerophthalmia

Adenosine A2a receptor - Group: Receptor

Treated with:

caffeine: approved small molecule (32 associated side effects)

For management of fatigue, orthostatic hypotension, and for the short term treatment of apnea of prematurity in infants.

theophylline: approved small molecule (60 associated side effects) For the treatment of the symptoms and reversible airflow obstruction associated with chronic asthma and other chronic lung diseases, such as emphysema and chronic bronchitis.

mefloquine: approved small molecule (98 associated side effects)

For the treatment of mild to moderate acute malaria caused by Mefloquine-susceptible strains of *Plasmodium falciparum*; (both chloroquine-susceptible and resistant strains) or by *Plasmodium vivax*. Also for the prophylaxis of *Plasmodium falciparum* and *Plasmodium vivax*; malaria infections, including prophylaxis of chloroquine-resistant strains of *Plasmodium falciparum*.

adenosine: approved small molecule (32 associated side effects)

Used as an initial treatment for the termination of paroxysmal supraventricular tachycardia (PVST), including that associated with accessory bypass tracts, and is a drug of choice for terminating stable, narrow-complex supraventricular tachycardias (SVT). Also used as an adjunct to thallous chloride TI 201 myocardial perfusion scintigraphy (thallium stress test) in patients who are unable to exercise adequately, as well as an adjunct to vagal maneuvers and clinical assessment to establish a specific diagnosis of undefined, stable, narrow-complex SVT.

dyphylline: approved small molecule (27 associated side effects)

For relief of acute bronchial asthma and for reversible bronchospasm associated with chronic bronchitis and emphysema.

pentoxifylline: approved small molecule (93 associated side effects) For the treatment of patients with intermittent lameness

or immobility arising from chronic occlusive arterial disease of the limbs.

oxtriphylline: approved small molecule (0 associated side effects) Used to treat the symptoms of asthma, bronchitis, and emphysema.

theobromine: approved small molecule (0 associated side effects) theobromine is used as a vasodilator, a diuretic, and heart stimulant. And similar to caffeine, it may be useful in management of fatigue and orthostatic hypotension.

defibrotide: approved biotech (0 associated side effects)

Defibrotide is used to treat or prevent a failure of normal blood flow (occlusive venous disease, OVD) in the liver of patients who have had bone marrow transplants or received certain drugs such as oral estrogens, mercaptopurine, and many others.

4-{2-[(7-amino-2-furan-2-yl[1,2,4]triazolo[1,5-a][1,3,5]triazin-5-yl)amino]ethyl}phenol: experimental small molecule (0 associated side effects)

213 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal dreams Acidosis Affect
lability Aggression Agitation Agranulocytosis Albuminuria
Alopecia Alopecia effluvium Anaemia Anaphylactic
shock Anaphylactoid reaction Angina pectoris Angioedema
Antidiuretic hormone abnormality Anxiety Aplastic anaemia
Arrhythmia Arthralgia Asthenia Ataxia Atrial
fibrillation Atrial tachycardia Back pain Blood
antidiuretic hormone abnormal Blood creatinine increased Blood
pressure increased Blood sodium increased Blood uric acid
increased Body temperature increased Bradycardia Bronchospasm
Burning sensation Cardiac arrest Cardiac fibrillation
Cardiac flutter Cardio-respiratory arrest Cardiovascular
disorder Cerebral haemorrhage Cerebrovascular accident Chest
discomfort Chest pain Chills Cholecystitis Cholestasis
Chronic obstructive pulmonary disease Clonic convulsion
Completed suicide Confusional state Conjunctivitis
Constipation Convulsion Coordination abnormal Deafness
Death Decreased appetite Dermatitis Diarrhoea Discomfort
Disorientation Disseminated intravascular coagulation
Dizziness Drug interaction Dry mouth Dry skin Dysgeusia
Dyspepsia Dyspnoea Ear pain Emotional disorder
Encephalopathy Enterocolitis Epistaxis Eructation
Erythema Erythema multiforme Extrasystoles
Extravasation Fatigue Feeling abnormal Feeling jittery
Flatulence Fluid overload Flushing Foetor hepaticus
Gastritis Gastrointestinal haemorrhage Gastrointestinal pain
Gastroesophageal reflux disease Grand mal convulsion
Haematemesis Haematocrit decreased Haematuria
Haemodynamic instability Haemoglobin Haemorrhage
Hallucination Headache Hearing impaired Heart rate
irregular Hepatic enzyme increased Hepatic failure Hepatitis
Hepatobiliary disease Hepatocellular injury Hypercalcaemia
Hyperglycaemia Hyperhidrosis Hypersensitivity
Hypertension Hyperuricaemia Hyperventilation

Hypoaesthesia Hypoglycaemia Hypokalaemia Hypotension
 Hypoxia Ill-defined disorder Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Infection Infestation Influenza Insomnia Irritability
 Jaundice Lacrimation increased Laryngitis Leukaemia
 Leukocytosis Leukopenia Liver disorder Loss of
 consciousness Malaise Memory impairment Meningitis Meningitis
 aseptic Mood swings Muscle spasms Muscle twitching Muscular
 weakness Musculoskeletal discomfort Musculoskeletal disorder
 Myalgia Nasal congestion Nausea Necrotising colitis
 Necrotising enterocolitis neonatal Nervous system disorder
 Nervousness Neuropathy peripheral Oedema Oropharyngeal
 discomfort Oropharyngeal pain Pain Palpitations
 Pancytopenia Panic attack Panic reaction
 Paraesthesia Phlebitis Pneumonia Poisoning Polyuria
 Pruritus Pulmonary oedema Purpura Rash Renal failure
 Respiratory disorder Retinal disorder Retinopathy of
 prematurity Rhabdomyolysis Salivary hypersecretion Scotoma
 Sensory loss Sepsis Shock Sinus tachycardia Skin
 disorder Sleep disorder Somnolence Suicidal ideation
 Supraventricular tachycardia Swelling Syncope Tachycardia
 Tachypnoea Tenderness Tension Thirst Throat tightness
 Thrombocytopenia Thrombosis Tinnitus Torsade de pointes
 Tremor Urinary retention Urticaria Vascular purpura
 Venous thrombosis Ventricular extrasystoles Ventricular
 fibrillation Ventricular tachycardia Vertigo Vision
 blurred Visual impairment Vomiting

Gamma-aminobutyric-acid receptor subunit alpha-3 - Group: Channel
 Treated with:

- lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.
- ethchlorvynol: illicit, approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.
- temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).
- butabarbital: illicit, approved small molecule (0 associated side effects) For short-term treatment of insomnia and anxiety disorders
- butalbital: illicit, approved small molecule (0 associated side effects) Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.
- talbutal: illicit, approved small molecule (0 associated side effects) For use as a sedative and hypnotic.
- pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

meprobamate: illicit,approved small molecule (54 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety.

eszopiclone: approved small molecule (0 associated side effects) For the treatment of insomnia

alprazolam:illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

zolpidem: approved small molecule (282 associated side effects) For the short-term treatment of insomnia.

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

thiopental: approved small molecule (0 associated side effects) For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam:illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

primidone: approved small molecule (16 associated side effects) For the treatment of epilepsy

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects)
For the treatment of anxiety disorders and alcohol withdrawal.

methylphenobarbital: approved small molecule (37 associated side effects)
For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects)
For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects)
Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

flumazenil: approved small molecule (100 associated side effects)
For the complete or partial reversal of the sedative effects of benzodiazepines in cases where general anesthesia has been induced and/or maintained with benzodiazepines, and where sedation has been produced with benzodiazepines for diagnostic and therapeutic procedures. Also for the management of benzodiazepine overdose as an adjunct for appropriate supportive and symptomatic measures.

estazolam: illicit,approved small molecule (131 associated side effects)
For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

amobarbital: illicit,approved small molecule (0 associated side effects)

aprobarbital: illicit,approved small molecule (0 associated side effects)

butethal: illicit,approved small molecule (0 associated side effects)
For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects)
Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects)
For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit,experimental small molecule (0 associated side effects)

flunitrazepam: illicit,approved small molecule (0 associated side effects)
For short-term treatment of severe insomnias, that are not responsive to other hypnotics.

bromazepam: illicit,approved small molecule (47 associated side effects)
For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects)
Used for the short-term treatment of anxiety disorders.

prazepam: illicit,approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.
 cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

617 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal tenderness Abnormal dreams Abnormal faeces
 Abscess Acidosis Acne Acute coronary syndrome
 Affect lability Ageusia Aggression Agitation
 Agranulocytosis Akathisia Akinesia Alanine
 aminotransferase increased Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amenorrhoea Amnesia Anaemia
 Anaemia macrocytic Anaemia megaloblastic Anaphylactic
 shock Anaphylactoid reaction Anger Angina pectoris Angioedema
 Angiopathy Anorectal discomfort Anorectal disorder
 Anterograde amnesia Anuria Anxiety Aortic dissection
 Apathy Aphasia Aphonia Aplasia Aplastic anaemia
 Apnoea Appetite disorder Arrhythmia Arterial spasm
 Arteritis Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asphyxia Aspiration Asthenia
 Asthenopia Asthma Ataxia Athetosis Atrioventricular
 block Back pain Balance disorder Binge eating Bladder
 dysfunction Bladder pain Blindness Blood alkaline phosphatase
 increased Blood bilirubin increased Blood disorder Blood
 glucose decreased Blood pressure increased Blood thromboplastin
 decreased Blood urea increased Body temperature decreased Body
 temperature increased Borderline personality disorder Bradycardia
 Bradyphrenia Brain oedema Breast disorder Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breath odour Bronchitis
 Bronchospasm Bulimia nervosa Burning sensation Bursitis
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Cerebrovascular accident Cerebrovascular disorder Chest
 discomfort Chest pain Chills Choking sensation Cholelithiasis
 Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Colitis Coma
 Completed suicide Confusional state Congenital skin disorder
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Crying Cyanosis Cystitis Cystitis noninfective
 Cytolytic hepatitis Deafness Death Decreased appetite
 Dehydration Delirium Delirium tremens Delusion Dementia
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Depressed mood Depression Depressive symptom
 Derealisation Dermatitis Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Diarrhoea Diplopia Discomfort
 Disinhibition Disorientation Disturbance in attention
 Disturbance in sexual arousal Dizziness Dizziness
 postural Drooling Drug abuse Drug dependence Drug eruption

Drug hypersensitivity Drug intolerance Drug withdrawal
 convulsions Dry eye Dry mouth Dry skin Dry throat
 Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Eczema Effusion Ejaculation
 delayed Ejaculation failure Elderly Embolism Emotional
 disorder Emotional distress Emotional poverty Encephalopathy
 Encopresis Endometrial sarcoma Energy increased Enteritis
 Enterocolitis Enuresis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Euphoric mood Extrapyrarnidal
 disorder Extrasystoles Eye disorder Eye irritation Eye
 movement disorder Eye pain Eye swelling Eyelid ptosis Face
 oedema Faecal incontinence Fatigue Fear Feeling abnormal
 Feeling cold Feeling drunk Feeling hot Feeling jittery
 Feeling of body temperature change Fibroadenoma of breast Flat
 affect Flatulence Floppy infant Flushing Frequent bowel
 movements Fungal infection Furuncle Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrooesophageal reflux disease Gingival pain Glaucoma
 Glossitis Glossodynia Gout Grand mal convulsion
 Gynaecomastia Haematoma Haematuria Haemoglobin Haemoglobin
 decreased Haemoglobinaemia Haemorrhage Haemorrhage urinary tract
 Haemorrhoids Hallucination Hangover Headache
 Hearing impaired Heart rate irregular Hemiparesis Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatitis Hepatocellular injury Hepatomegaly Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hot flush Hunger Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hypercapnia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkinesia Hyperlipidaemia Hyperprolactinaemia
 Hyperpyrexia Hypersensitivity Hypersomnia Hypertension
 Hypertonia Hypertrophy Hyperventilation Hypoaesthesia
 Hypochromic anaemia Hypokalaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infarction
 Infection Infectious mononucleosis Infestation
 Inflammation Influenza Influenza like illness Injection
 site pain Injection site reaction Insomnia Intestinal
 obstruction Intraocular pressure increased Iritis
 Irritability Jaundice Joint swelling Laboratory test
 abnormal Labyrinthitis Lacrimal disorder Lacrimation increased
 Laryngitis Laryngospasm Lethargy Leukocytosis
 Leukopenia Libido decreased Libido increased Liver disorder
 Liver function test abnormal Liver injury Local reaction
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung disorder Lymphadenopathy Major
 depression Malaise Mania Mastitis Mean arterial pressure

Mediastinal disorder Melaena Memory impairment Menopausal
 symptoms Menorrhagia Menstrual disorder Menstruation irregular
 Mental disability Mental disorder Mental retardation
 Metrorrhagia Micturition urgency Migraine Miosis
 Mood swings Motion sickness Mouth ulceration Movement disorder
 Muscle contractions involuntary Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal stiffness
 Myalgia Mydriasis Myocardial infarction Myoclonus
 Myopathy Nasal congestion Nasopharyngitis Nausea Neck
 pain Necrosis Neoplasm Nephrolithiasis Nervous system
 disorder Nervousness Neuralgia Neuritis Neuroleptic malignant
 syndrome Neuropathy peripheral Neurosis Neutropenia Nightmare
 Nocturia Nodal arrhythmia Nodal rhythm Nodule
 Nuchal rigidity Nystagmus Obstruction Obstructive airways
 disorder Ocular hyperaemia Oedema Oedema peripheral Oesophageal
 spasm Oliguria Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteomalacia Otitis externa Otitis
 media Pain Pain in extremity Pain in jaw Pallor Palpitations
 Pancytopenia Panic attack Panic disorder Panic
 reaction Paraesthesia Paraesthesia oral Paralysis Paranoia
 Paresis Parosmia Pelvic pain Penile discharge Pericardial
 effusion Periorbital oedema Personality disorder Petechiae
 Pheochromocytoma Pharyngitis Phlebitis Phobia Photophobia
 Photopsia Photosensitivity reaction Pigmentation disorder
 Platelet count decreased Pleurisy Pneumonia
 Pneumothorax Pollakiuria Polyuria Post-traumatic stress
 disorder Precocious puberty Premenstrual syndrome Presyncope
 Proctalgia Proctitis Prothrombin level increased Pruritus
 Psychiatric symptom Psychomotor retardation Psychotic
 disorder Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary function test decreased Pulmonary haemorrhage
 Pulmonary hypertension Pulmonary oedema Purpura non-
 thrombocytopenic Pyelonephritis Rash Rash maculo-papular Rash
 pustular Rectal haemorrhage Rectal tenesmus Red blood cell
 sedimentation rate increased Renal failure acute Renal pain
 Respiratory arrest Respiratory depression Respiratory
 disorder Respiratory failure Respiratory moniliasis Respiratory
 rate decreased Respiratory tract congestion Respiratory tract
 infection Restless legs syndrome Retching Retrograde amnesia
 Rhinitis allergic Rhinorrhoea Rhonchi Saliva altered
 Salivary hypersecretion Sciatica Scleritis Scotoma
 Sedation Sensation of heaviness Sexual dysfunction Shock
 Sinus tachycardia Sinusitis Skin burning sensation Skin
 discolouration Skin disorder Skin exfoliation Skin necrosis
 Skin wrinkling Sleep apnoea syndrome Sleep disorder Sleep
 talking Sluggishness Sneezing Somnambulism Somnolence
 Speech disorder Stevens-Johnson syndrome Stomatitis
 Strabismus Stress Stridor Stupor Substance abuse
 Suicidal ideation Suicide attempt Swelling Swelling face
 Swollen tongue Syncope Tachycardia Tachypnoea Tenderness
 Tendonitis Tension Tetany Therapeutic response
 decreased Thinking abnormal Thirst Throat irritation
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis

Thrombophlebitis Thrombosis Thyroid neoplasm Tinnitus
 Tongue coated Tongue disorder Tongue oedema Tooth
 disorder Toothache Toxic epidermal necrolysis Transaminases
 increased Tremor Tropical spastic paresis Ulcerative
 keratitis Upper airway obstruction Upper respiratory tract
 infection Urethral disorder Urethritis Urinary hesitation
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Urine colour abnormal Urine
 output increased Urticaria Uterine haemorrhage Uterovaginal
 prolapse Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vestibular disorder Viral infection Vision
 blurred Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal disorder Weight decreased Weight increased
 Wheezing Withdrawal syndrome Xeroderma Xerophthalmia
 Yawning

Putative G-protein coupled receptor 44 - Group: Receptor

Treated with:

indomethacin: approved small molecule (164 associated side
 effects) For moderate to severe rheumatoid arthritis including
 acute flares of chronic disease, ankylosing spondylitis,
 osteoarthritis, acute painful shoulder (bursitis and/or tendinitis)
 and acute gouty arthritis.

sulindac: approved small molecule (148 associated side
 effects) For acute or long-term use in the relief of signs and
 symptoms of osteoarthritis, rheumatoid arthritis, ankylosing
 spondylitis, acute painful shoulder (acute subacromial
 bursitis/supraspinatus tendinitis), and acute gouty arthritis.

zomepirac: withdrawn small molecule (0 associated side effects)
 Zomepirac was indicated for the management of mild to severe
 pain.

217 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain upper
 Acidosis Acute psychosis Ageusia Agranulocytosis
 Alkalosis Alopecia Anaemia Anaphylactic shock
 Angioedema Anorectal discomfort Anxiety Apathy
 Aplastic anaemia Apnoea Arrhythmia Arthralgia Asthenia
 Asthma Azotaemia Blood creatinine increased Blood
 potassium increased Body temperature increased Bradycardia
 Bronchospasm Cardiac failure Cardiac failure congestive
 Cellulitis gangrenous Chest pain Chills Cholecystitis
 Cholelithiasis Cholestasis Chromaturia Coagulopathy
 Colitis Colitis ulcerative Coma Confusional state
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Corneal deposits Crohn's disease Crystal urine
 Crystalluria Deafness Decreased appetite
 Depersonalisation Depressed level of consciousness Dermatitis
 Dermatitis exfoliative Diarrhoea Diplopia Discomfort
 Disseminated intravascular coagulation Diverticulum

Dizziness Drug rash with eosinophilia and systemic symptoms
 Dysarthria Dysgeusia Dyskinesia Dyspepsia Dyspnoea
 Dysuria Ecchymosis Effusion Electrolyte imbalance
 Enterocolitis Eosinophilia Epilepsy Epistaxis
 Erythema Erythema multiforme Erythema nodosum Fasciitis
 Fatigue Feeling abnormal Fibrosis Flat affect Flatulence
 Fluid retention Flushing Gastric disorder Gastric
 perforation Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrointestinal perforation Glossitis
 Glycosuria Gynaecomastia Haematuria Haemoglobin Haemolytic
 anaemia Haemorrhage intracranial Headache Hearing impaired
 Hepatic failure Hepatic function abnormal Hepatitis
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hypersensitivity Hypertension Hypertrophy Hypoglycaemia
 Hyponatraemia Hypotension Ileitis Ileus Ill-defined
 disorder Infection Insomnia Intestinal ulcer Jaundice
 Leukaemia Leukocytoclastic vasculitis Leukocytosis
 Leukopenia Loss of consciousness Lung infection
 Lymphadenitis Macule Malaise Meningitis Meningitis
 aseptic Mixed connective tissue disease Mouth ulceration
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Myalgia Nausea Necrotising colitis Necrotising
 enterocolitis neonatal Necrotising fasciitis Neoplasm malignant
 Nephritic syndrome Nephritis Nephrolithiasis Nephrotic
 syndrome Nervousness Neuritis Neuropathy peripheral Neutropenia
 Obstruction Oedema Oesophageal disorder Oliguria
 Osteoarthritis Pain Palpitations Pancreatitis
 Pancytopenia Paraesthesia Peptic ulcer Petechiae
 Photosensitivity reaction Platelet aggregation decreased
 Platelet count decreased Pleural disorder Pleural effusion
 Pneumonia Pneumothorax Pollakiuria Proctalgia Proctitis
 Protein urine present Proteinuria Prothrombin level increased
 Pruritus Psychotic disorder Pulmonary haemorrhage
 Pulmonary hypertension Pulmonary oedema Purpura Rash
 Rectal haemorrhage Rectal tenesmus Renal failure Renal
 impairment Retinal disorder Retinopathy of prematurity Shock Skin
 exfoliation Somnolence Stomatitis Stupor Syncope Systemic
 lupus erythematosus Tachycardia Tenderness Tension
 Thrombocytopenia Thrombocytopenic purpura Thrombophlebitis
 Tinnitus Toxic epidermal necrolysis Tubulointerstitial
 nephritis Ulcer Urine colour abnormal Urine output Urticaria
 Vaginal haemorrhage Vascular purpura Vasculitis Vertigo
 Vision blurred Visual impairment Vomiting Weight increased

Nuclear receptor 0B1 - Group: Receptor

Treated with:

tretinoin: approved, nutraceutical small molecule (0 associated
 side effects) For the the induction of remission in patients with
 acute promyelocytic leukemia (APL), French-American-British (FAB)
 classification M3 (including the M3 variant); For the topical
 treatment of acne vulgaris, flat warts and other skin conditions
 (psoriasis, ichthyosis congenita, ichthyosis vulgaris, lamellar
 ichthyosis, keratosis palmaris et plantaris, epidermolytic
 hyperkeratosis, senile comedones, senile keratosis, keratosis

follicularis (Darier's disease), and basal cell carcinomas.); For palliative therapy to improve fine wrinkling, mottled hyperpigmentation, roughness associated with photodamage. dexamethasone: approved small molecule (147 associated side effects)

147 known side effects mediated through drugs targeting this protein:

Abdominal distension Abscess sterile Acne Acute coronary syndrome Affect lability Alkalosis hypokalaemic Anaphylactic shock Anaphylactoid reaction Angioedema Arachnoiditis Arrhythmia Arthropathy Asthenia Atrophy Benign intracranial hypertension Bladder dysfunction Blindness Blister Bradycardia Calcinosis Carbohydrate tolerance decreased Cardiac arrest Cardiac failure Cardiac failure congestive Cardiomegaly Cardiomyopathy Cataract subcapsular Compression fracture Conjunctival haemorrhage Conjunctival hyperaemia Conjunctivitis Convulsion Cushing's syndrome Cushingoid Dermatitis Dermatitis acneiform Dermatitis bullous Dermatitis contact Diabetes mellitus Diplegia Discomfort Dissociation Dizziness Dry skin Ecchymosis Electrolyte imbalance Embolism Embolism venous Euphoric mood Exophthalmos Extravasation Eye infection Eye pain Fat embolism Feeling abnormal Fluid retention Folliculitis Gastrointestinal disorder Glaucoma Glucose tolerance impaired Glycosuria Haemoglobin Haemorrhage Headache Heat rash Hepatomegaly Herpes simplex Hiccups Hirsutism Hyperaemia Hyperglycaemia Hyperhidrosis Hypernatraemia Hypertension Hypertrichosis Hypertrophic cardiomyopathy Hypokalaemia Ill-defined disorder Impaired healing Increased appetite Infarction Infection Inflammatory bowel disease Insomnia Intracranial pressure increased Intraocular pressure increased Leukoderma Loss of consciousness Lupus miliaris disseminatus faciei Malaise Mass Menstruation irregular Monoplegia Mood swings Muscle mass Muscular weakness Myocardial infarction Myocardial rupture Myopathy Nausea Necrosis Neuritis Neuropathy peripheral Nitrogen balance negative Ocular hypertension Oesophagitis Oesophagitis ulcerative Optic nerve disorder Optic neuritis Osteoarthritis Osteonecrosis Osteoporosis Pain Pancreatitis Papilloedema Paraesthesia Paraparesis Paraplegia Pathological fracture Peptic ulcer Personality change Petechiae Premature baby Pruritus Psychotic disorder Pulmonary oedema Rash Rash follicular Retinal disorder Retinopathy of prematurity Scleral disorder Shock Skin atrophy Skin exfoliation Skin hyperpigmentation Skin striae Skin test positive Small for dates baby Syncope Tachycardia Telangiectasia Thrombophlebitis Urticaria Vasculitis Vertigo Vitreous detachment Weight increased

Prostaglandin E2 receptor EP4 subtype - Group: Receptor
Treated with:

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

misoprostol: approved small molecule (102 associated side effects)

102 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Alopecia Anaemia
 Anaphylactic shock Anorectal disorder Anxiety
 Arrhythmia Arterial thrombosis Arthralgia Asthenia Back
 pain Blindness Blood alkaline phosphatase increased Body
 temperature increased Breast pain Bronchitis Bronchospasm
 Cardiac enzymes increased Cerebrovascular accident Chest
 pain Chills Confusional state Conjunctivitis Constipation
 Deafness Dehydration Dermatitis Diarrhoea Dizziness
 Dysgeusia Dysmenorrhoea Dyspepsia Dysphagia Dyspnoea
 Dysuria Ear pain Embolism Epistaxis Erectile
 dysfunction Fatigue Feeling abnormal Flatulence Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrooesophageal reflux disease Genital disorder female
 Gingivitis Glycosuria Gout Haematuria Haemoglobin Haemorrhage
 Headache Hyperhidrosis Hypersensitivity Hypertension
 Hypotension Infarction Infection Inflammation
 Inflammatory bowel disease Loss of consciousness Loss of
 libido Menorrhagia Menstrual disorder Metrorrhagia
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 stiffness Myalgia Myocardial infarction Nausea Neuropathy
 peripheral Neurosis Oedema Pain Pallor Phlebitis
 Pneumonia Polyuria Pulmonary embolism Purpura Rash
 Red blood cell sedimentation rate increased Respiratory tract
 infection Shock Somnolence Syncope Thirst Thrombocytopenia
 Thrombosis Tinnitus Upper respiratory tract infection
 Urinary tract infection Urine output increased Vaginal
 haemorrhage Vascular purpura Visual acuity reduced Visual impairment
 Vomiting

Interleukin-11 receptor alpha chain - Group: Receptor

Treated with:

oprelvekin: approved biotech (0 associated side effects)
 Increases reduced platelet levels due to chemotherapy

known side effects mediated through drugs targeting this protein:

Voltage-dependent L-type calcium channel subunit beta-4 - Group:
Channel

Treated with:

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

mibefradil: withdrawn small molecule (0 associated side effects) For the treatment of angina and high blood pressure.

139 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Acne Acute coronary syndrome Alanine aminotransferase increased Alopecia Anaemia Anaphylactic shock Angioedema Arthralgia Asthenia Atrioventricular block Atrioventricular block complete Atrioventricular dissociation Balance disorder Blindness Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Blood prolactin increased Blood urea increased Bradycardia Bronchospasm Cardiac failure Cardiac failure congestive Cardiomyopathy Cerebrovascular accident Chest pain Cholestasis Confusional state Constipation Convulsion Deep vein thrombosis Depressive symptom Dermatitis Diarrhoea Diplopia Discomfort Disseminated intravascular coagulation Dissociation Dizziness Dry mouth Dyspepsia Dyspnoea Ecchymosis Electrocardiogram abnormal Erectile dysfunction Erythema Erythema multiforme Extrapyrmidal disorder Fasting Fatigue Feeling abnormal Feeling cold Fluid retention Flushing Galactorrhoea Gastrointestinal disorder Gastrointestinal haemorrhage Gingival hyperplasia Gynaecomastia Haematoma Headache Hepatic enzyme increased Hepatic function abnormal Hepatitis Hyperhidrosis Hyperkeratosis Hyperplasia Hyperprolactinaemia Hypersensitivity Hypertension Hypertrophic cardiomyopathy Hypertrophy Hypoaesthesia Hyponatraemia Hypotension Ileus paralytic Infection Influenza Insomnia Intermittent claudication Jaundice Joint swelling Laryngospasm Lethargy Liver function test abnormal Loss of consciousness Macule Muscle fatigue Muscle spasms Muscular weakness Musculoskeletal discomfort Myalgia Myocardial infarction Nausea Nystagmus Oedema Oedema peripheral Oligomenorrhoea Orthostatic hypotension Pain Palpitations Paraesthesia Paralysis Pharyngitis Platelet count decreased Pollakiuria Pruritus Pulmonary oedema Purpura Quadriparesis Rash Rash maculo-papular Respiratory failure Respiratory tract infection Rhinitis Sensory loss Shock Sinus arrest Sinusitis Sleep disorder Somnolence Syncope Tachycardia Thrombocytopenia Thrombosis Tinnitus Tremor Upper respiratory tract

infection Urticaria Vascular purpura Vasculitis Vasospasm
Venous thrombosisVertigo Vision blurred Visual acuity
reduced Visual impairmentVomiting Wheezing

Neuronal acetylcholine receptor subunit alpha-10 - Group: Channel
Treated with:

nicotine: approved small molecule (98 associated side effects)
For the relief of nicotine withdrawal symptoms and as an aid
to smoking cessation.

succinylcholine: approved small molecule (27 associated side
effects) Used in surgical procedures where a rapid onset and brief
duration of muscle relaxation is needed (includes intubation,
endoscopies, and ECT)

methadone: approved small molecule (87 associated side effects)
For the treatment of dry cough, drug withdrawal syndrome,
opioid type drug dependence, and pain.

galantamine: approved small molecule (160 associated side
effects) For the treatment of mild to moderate dementia of the
Alzheimer's type. Has also been investigated in patients with mild
cognitive impairment who did not meet the diagnostic criteria for
Alzheimer's disease.

pentolinium: approved small molecule (0 associated side
effects) Used to produce controlled hypotension during surgical
procedures and in hypertensive crises.

trimethaphan: approved small molecule (0 associated side
effects) For the controlled reduction of blood pressure during
surgery and in the treatment of hypertensive emergencies.

chloroprocaine: approved small molecule (34 associated side
effects) For the production of local anesthesia by infiltration
and peripheral nerve block. They are not to be used for lumbar or
caudal epidural anesthesia.

258 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Acidosis Acne Affect
lability Aggression Agitation Amenorrhoea Amnesia Anaemia
Analgesic therapyAnaphylactic shock Anaphylactoid reaction
Angioedema Anxiety Apathy Aphasia Apnoea
Apraxia Arachnoiditis Arrhythmia Arrhythmia
supraventricular Arthralgia Arthritis Asthenia Ataxia
Atrial fibrillation Atrioventricular block Back pain
Bladder pain Blindness Blister Blood alkaline
phosphatase increased Blood urea increased Body temperature
increased Bone pain Bradycardia Bronchitis Bronchospasm
Bundle branch block Cardiac arrest Cardiac failure
Cardiac fibrillation Cardiomyopathy Cardiovascular
disorder Cataract Cerebrovascular accident Cerebrovascular
disorder Chest discomfort Chest pain Chronic hepatitis
Coagulopathy Completed suicideConfusional state
Constipation Convulsion Coordination abnormal Cough
Cystitis Cystitis noninfective Death Decreased appetite
DehydrationDelirium Dependence Depression Dermatitis
Dermatitis bullous Diarrhoea Discomfort Disorientation
Disturbance in attention Disturbance in sexual arousal

Diverticulitis Dizziness Drug abuse Drug dependence Dry
 mouth Dysgeusia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia
 Dysphoria Dyspnoea Ear pain Electrocardiogram QT
 prolonged Electrocardiogram T wave inversion Epistaxis Erythema
 Euphoric mood Extrasystoles Eye disorder Eye
 irritation Fatigue Feeling abnormal Feeling cold Flat affect
 Flatulence Flushing Gastric disorder Gastritis
 Gastroenteritis Gastrointestinal haemorrhage Gastrointestinal
 pain Glossitis Gravitational oedema Haematuria Haemoglobin
 Haemorrhage Hallucination Headache Hepatic enzyme
 increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hypersensitivity Hypersomnia Hypertension
 Hyperthermia Hyperthermia malignant Hypertonia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypomagnesaemia
 Hypotension Ill-defined disorder Immune system disorder
 Incontinence Increased appetite Increased bronchial
 secretion Infarction Infection Influenza Insomnia Intraocular
 pressure increased Irritability Ischaemia Lacrimation
 increased Laryngeal oedema Lethargy Libido decreased Libido
 increased Liver disorder Loss of consciousness Lower
 gastrointestinal haemorrhage Malaise Melaena Menstrual
 disorder Mental disability Mental disorder Migraine Mood swings
 Muscle contractions involuntary Muscle rigidity Muscle
 spasms Muscle twitching Musculoskeletal discomfort
 Musculoskeletal disorder Myalgia Mydriasis Myocardial
 ischaemia Nasal congestion Nasal discomfort Nasal ulcer
 Nasopharyngitis Nausea Nephrolithiasis Nervous system
 disorder Nervousness Neuropathy peripheral Nightmare Nocturia
 Oedema Oedema peripheral Oesophageal disorder Oesophageal
 perforation Orthostatic hypotension Pain Pain in extremity Pain
 in jaw Palpitations Paraesthesia Paranoia Pharyngitis
 Phlebitis Pneumonia Pollakiuria Pruritus
 Pseudocholinesterase deficiency Pulmonary function test
 decreased Pulmonary oedema Purpura Rash Rectal haemorrhage
 Renal failure acute Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory tract infection
 Rhabdomyolysis Rhinitis Rhinorrhoea Salivary
 hypersecretion Sedation Sensory loss Shock Sinusitis Sleep
 disorder Sneezing Social avoidant behaviour Somnolence
 Sputum increased Stomatitis Suicidal ideation Suicide attempt
 Supraventricular tachycardia Swelling Syncope Tachycardia
 Tension Thought blocking Throat irritation Thrombocytopenia
 Thrombocytosis Tinnitus Tobacco user Tooth disorder
 Torsade de pointes Transient ischaemic attack Tremor
 Ulcer Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urticaria
 Vascular dementia Vascular purpura Ventricular fibrillation
 Ventricular tachycardia Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased Withdrawal syndrome Yawning

Sodium channel protein type 5 subunit alpha - Group: Channel

Treated with:

idecainide: approved small molecule (0 associated side effects) For the treatment of life-threatening dysrhythmias and sustained ventricular tachycardia.

ranolazine: approved small molecule (63 associated side effects) For the treatment of chronic angina. It should be used in combination with amlodipine, beta-blockers or nitrates.

phenytoin: approved small molecule (247 associated side effects) For the control of generalized tonic-clonic (grand mal) and complex partial (psychomotor, temporal lobe) seizures and prevention and treatment of seizures occurring during or following neurosurgery.

disopyramide: approved small molecule (85 associated side effects) For the treatment of documented ventricular arrhythmias, such as sustained ventricular tachycardia, ventricular pre-excitation and cardiac dysrhythmias. It is a Class Ia antiarrhythmic drug.

lidocaine: approved small molecule (120 associated side effects) For production of local or regional anesthesia by infiltration techniques such as percutaneous injection and intravenous regional anesthesia by peripheral nerve block techniques such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks.

mexiletine: approved small molecule (101 associated side effects) For the treatment of ventricular tachycardia and symptomatic premature ventricular beats, and prevention of ventricular fibrillation.

hexylcaine: approved small molecule (0 associated side effects) Used as a local anesthetic for surface application, infiltration or nerve block

dibucaine: approved small molecule (0 associated side effects) For production of local or regional anesthesia by infiltration techniques such as percutaneous injection and intravenous regional anesthesia by peripheral nerve block techniques such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks.

mephenytoin: approved small molecule (58 associated side effects) For the treatment of refractory partial epilepsy.

carbamazepine: approved small molecule (231 associated side effects) For the treatment of epilepsy and pain associated with true trigeminal neuralgia.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

moricizine: approved small molecule (111 associated side effects) Used to treat irregular heartbeats (arrhythmias) and maintain a normal heart rate.

riluzole: approved small molecule (437 associated side effects) For the treatment of amyotrophic lateral sclerosis (ALS, Lou Gehrig's Disease)

prilocaine: approved small molecule (37 associated side effects) Used as a local anaesthetic and is often used in dentistry.

ethotoin: approved small molecule (26 associated side effects) For the control of tonic-clonic (grand mal) and complex partial (psychomotor) seizures.

oxcarbazepine: approved small molecule (241 associated side effects) For use as monotherapy or adjunctive therapy in the treatment of partial seizures in adults with epilepsy and as adjunctive therapy in the treatment of partial seizures in children ages 4-16 with epilepsy.

benzonatate: approved small molecule (29 associated side effects) For the symptomatic relief of cough. Has also been applied locally in the oral cavity in adults by releasing the drug from the liquid-filled capsules to provide oropharyngeal anesthesia for conscious intubation.

cocaine: illicit, approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

procainamide: approved small molecule (55 associated side effects) For the treatment of life-threatening ventricular arrhythmias.

tocainide: approved small molecule (0 associated side effects)
For the treatment of documented ventricular arrhythmias, such as sustained ventricular tachycardia, that, in the judgment of the physician, are life-threatening.

propafenone: approved small molecule (283 associated side effects) Used to prolong the time to recurrence of paroxysmal atrial fibrillation/flutter (PAF) associated with disabling symptoms in patients without structural heart disease. Also used for the treatment of life-threatening documented ventricular arrhythmias, such as sustained ventricular tachycardia.

flecainide: approved small molecule (131 associated side effects) Flecainide is a class Ic antiarrhythmic agent and as such, it is used for the prevention of paroxysmal supraventricular tachycardias (PSVT), including atrioventricular nodal reentrant tachycardia, atrioventricular reentrant tachycardia and other supraventricular tachycardias of unspecified mechanism associated with disablin.

encainide: approved, withdrawn small molecule (0 associated side effects) Encainide is a class Ic antiarrhythmic agent which was used for management of irregular heartbeats, such as atrial fibrillation, atrial flutter, ventricular tachycardia, and ventricular fibrillation.

fosphenytoin: approved small molecule (200 associated side effects) For the control of generalized convulsive status epilepticus and prevention and treatment of seizures occurring during neurosurgery. It can also be substituted, short-term, for oral phenytoin.

quinidine barbiturate: approved small molecule (0 associated side effects)

ajmaline: approved small molecule (0 associated side effects)
For use as an antiarrhythmic agent.

aprindine: approved small molecule (0 associated side effects)

857 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abnormal dreams
Abscess Accommodation disorder Acidosis Acne Acute
coronary syndrome Acute psychosis Acute yellow liver atrophy
Adverse reaction Affect lability Ageusia Aggression
Agitation Agranulocytosis Akathisia Alanine
aminotransferase increased Albuminuria Alcohol poisoning Alkalosis
Alopecia Altered state of consciousness Alveolitis
allergic Amblyopia Amenorrhoea Amnesia Anaemia Anaemia
macrocytic Anaemia megaloblastic Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angina unstable
Angioedema Angiopathy Anorectal discomfort Anorectal
disorder Anterior spinal artery syndrome Antinuclear antibody
positive Anuria Anxiety Aortic dissection Apathy
Aphasia Aplasia pure red cell Aplastic anaemia Apnoea
Arachnoiditis Arrhythmia supraventricular Arterial disorder
Arterial insufficiency Arterial occlusive disease Arthralgia
Arthritis Arthropathy Aspartate aminotransferase increased
Aspiration Assisted fertilisation Asterixis Asthenia
Asthma Ataxia Atelectasis Atrial fibrillation
Atrial flutter Atrial hypertrophy Atrioventricular block
Atrioventricular block complete Atrioventricular block first
degree Atrioventricular block second degree Atrioventricular
dissociation Atrophy Aura Azotaemia Back pain Balance
disorder Biliary colic Bipolar I disorder Bipolar disorder
Bladder pain Bleeding time prolonged Blepharitis
Blindness Blister Blood alkaline phosphatase increased
Blood bilirubin abnormal Blood bilirubin increased Blood
creatinine increased Blood disorder Blood glucose increased
Blood lactate dehydrogenase increased Blood osmolarity Blood
potassium decreased Blood pressure increased Blood prolactin
increased Blood thyroid stimulating hormone increased Blood urea
increased Body temperature decreased Body temperature increased
Bone disorder Bone neoplasm Bradycardia Brain hypoxia
Brain oedema Breast abscess Breast disorder Breast pain
Breath odour Breath sounds abnormal Bronchitis
Bronchospasm Bundle branch block Bundle branch block
left Bundle branch block right Burning sensation Bursitis
Cachexia Calculus bladder Cancer in remission Candidiasis
Cardiac arrest Cardiac death Cardiac disorder Cardiac
failure Cardiac failure congestive Cardiac fibrillation
Cardiac flutter Cardiac murmur Cardiac output decreased
Cardiogenic shock Cardiomegaly Cardiomyopathy Carotid
bruit Cataract Cauda equina syndrome Cellulitis Cerebellar
syndrome Cerebral artery embolism Cerebral haematoma
Cerebral haemorrhage Cerebral infarction Cerebral
ischaemia Cerebrovascular accident Cheilitis Chest pain
Chills Choking Cholangitis Cholecystitis
Cholelithiasis Cholestasis Chorea Choreoathetosis
Chromaturia Chronic obstructive pulmonary disease Clonic
convulsion Coagulopathy Cognitive disorder Colitis
Collagen-vascular disease Coma Completed suicide Condition

aggravated Conduction disorder Confusional state Congenital
 anomaly Congenital central nervous system anomaly Congenital
 foot malformation Congestive cardiomyopathy Conjunctival
 haemorrhage Conjunctival hyperaemia Conjunctivitis Connective
 tissue disorder Constipation Conversion disorder Convulsion
 Coombs direct test positive Coordination abnormal Cor
 pulmonale Coronary artery disease Costochondritis Cough
 Cranial nerve paralysis Cryptococcosis Cutaneous
 vasculitis Cyanosis Cyst Cytolytic hepatitis Deafness Death
 Decreased appetite Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries
 Depersonalisation Depressed level of consciousness Depression
 Depressive symptom Dermatitis Dermatitis bullous
 Dermatitis contact Dermatitis exfoliative Developmental
 delay Device capturing issue Diabetes insipidus Diabetes mellitus
 Diabetic ketoacidosis Diarrhoea Diplegia Diplopia
 Discomfort Disease progression Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drug eruption Drug interaction Drug level
 increased Drug rash with eosinophilia and systemic symptoms Dry
 eye Dry mouth Dry skin Dry throat Duodenal ulcer Duodenitis
 Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphonia Dysplasia Dyspnoea Dystonia
 Dysuria Ear infection Ear pain Ecchymosis Eczema
 Effusion Electrocardiogram QRS complex Electrocardiogram
 QT prolonged Electrocardiogram abnormal Electrocardiogram
 normal Electroencephalogram abnormal Embolism Embolism
 arterial Embolism venous Emotional disorder Emotional
 distress Encephalitis Encephalopathy Endocrine disorder
 Endophthalmitis Enteritis Enterocolitis Enuresis
 Enzyme induction Eosinophil count increased Eosinophilia
 Eosinophilic pneumonia Epilepsy Epistaxis Erectile
 dysfunction Eructation Erythema Erythema multiforme Erythema
 nodosum Euphoric mood Exomphalos Extensor plantar response
 Extrapyrmidal disorder Extrasystoles Extravasation
 Eye disorder Eye haemorrhage Eye inflammation Eye
 irritation Eye oedema Eye pain Eyelid ptosis Face oedema
 Faecal incontinence Faecalith Faecaloma Fall Fatigue
 Feeling abnormal Feeling cold Feeling drunk Feeling hot
 Fibrosis Flank pain Flat affect Flatulence Fluid overload
 Fluid retention Flushing Folate deficiency Folliculitis
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gastric cancer Gastric disorder Gastric ulcer Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 dysplasia Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital discharge Gingival bleeding
 Gingival hyperplasia Gingival hypertrophy Gingival pain
 Gingivitis Glaucoma Glossitis Glossodynia Glycosuria Gout
 Granuloma skin Granulomatous liver disease Gynaecomastia
 Haematemesis Haematochezia Haematoma Haematuria
 Haemoglobin Haemoglobin decreased Haemoglobinuria Haemolytic
 anaemia Haemolytic uraemic syndrome Haemoptysis Haemorrhage

Haemorrhoids Hallucination Hallucination, visual
 Headache Hearing impaired Heart rate irregular Heart
 sounds abnormal Heat rash Hemianopia Hemiplegia Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatitis Hepatitis B Hepatitis cholestatic Hepatitis
 fulminant Hepatobiliary disease Hepatocellular injury
 Hepatomegaly Hepatosplenomegaly Hereditary disorder
 Hernia Herpes virus infection Herpes zoster Hiccups
 Hirsutism Hormone level abnormal Hostility Hot flush
 Hyperacusis Hyperaemia Hyperaesthesia Hyperamylasaemia
 Hypercalcaemia Hypercholesterolaemia
 Hypergammaglobulinaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlactacidaemia Hyperlipidaemia Hyperplasia
 Hyperprolactinaemia Hyperreflexia Hypersensitivity
 Hypertension Hypertensive crisis Hyperthermia
 Hypertonia Hypertrichosis Hypertrophic cardiomyopathy
 Hypertrophy Hyperventilation Hypoaesthesia Hypoaesthesia
 oral Hypocalcaemia Hypochromic anaemia Hypoglycaemia
 Hypokalaemia Hypokinesia Hypomagnesaemia Hyponatraemia
 Hypophosphataemia Hypoprothrombinaemia Hyporeflexia
 Hypotension Hypothermia Hypothyroidism Hypotonia
 Hypoventilation Hypoxia Idiopathic thrombocytopenic
 purpura Ileus Ileus paralytic Ill-defined disorder Immune
 system disorder Immunodeficiency Impaired gastric emptying
 Impetigo Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Infarction Infection Infection parasitic Infestation
 Inflammation Influenza Influenza like illness Injection
 site reaction Insomnia Intermittent claudication
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intracranial pressure increased
 Intraocular pressure increased Iritis Iron deficiency
 Iron deficiency anaemia Irritability Ischaemia
 Jaundice Jaundice cholestatic Jaundice hepatocellular
 Joint swelling Ketoacidosis Ketonuria Ketosis
 Lactic acidosis Laryngeal oedema Laryngitis Laryngospasm
 Leiomyoma Lens disorder Lenticular opacities Lethargy
 Leukocytosis Leukoderma Leukopenia Libido decreased
 Libido increased Lip swelling Liver function test abnormal
 Liver injury Lobar pneumonia Local reaction Logorrhoea
 Loss of consciousness Lung disorder Lung infiltration Lung
 neoplasm malignant Lymphadenopathy Lymphoma Lymphopenia
 Macrocytosis Macule Maculopathy Major depression
 Malaise Mania Mastitis Mediastinal disorder Melaena
 Memory impairment Meningism Meningitis Meningitis aseptic
 Menopausal symptoms Menorrhagia Mental disability Mental
 disorder Mesenteric occlusion Metabolic acidosis
 Methaemoglobinaemia Metrorrhagia Microcytic anaemia
 Micturition disorder Micturition urgency Migraine
 Miosis Monocyte count increased Monocytosis Monoplegia
 Mood swings Mouth ulceration Movement disorder Mucous membrane
 disorder Muscle atrophy Muscle contractions involuntary
 Muscle fatigue Muscle relaxant therapy Muscle rigidity
 Muscle spasms Muscle twitching Muscular weakness

Musculoskeletal discomfort Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenia gravis
Mydriasis Myelofibrosis Myeloid metaplasia Myocardial
depression Myocardial infarction Myocardial ischaemia Myoclonus
Myopathy Nail disorder Nasal congestion Nasal dryness
Nausea Neck pain Necrosis Neoplasm Neoplasm
malignant Nephritis Nephrolithiasis Nephropathy toxicNephrotic
syndrome Nerve root lesion Nervous system disorder Nervousness
Neuralgia Neuritis Neurodermatitis Neuroleptic malignant
syndrome Neuropathy peripheral Neurosis Neutropenia Night
blindness Nightmare Nocturia Nodal arrhythmia Nodal rhythm
Nodule Normochromic normocytic anaemia Nuchal rigidity
Nystagmus Obstruction Oculogyric crisis Oedema Oedema
genital Oedema peripheral Oesophageal disorder Oesophageal
stenosis Oesophageal ulcer Oesophagitis Oligomenorrhoea
Oliguria Optic nerve disorder Optic neuritis Oral
candidiasis Oropharyngeal discomfort Oropharyngeal pain
Orthostatic hypotension Osteoarthritis Osteomalacia
Osteonecrosis Osteoporosis Otitis externa Pain Pain
in extremity Pain in jaw Pallor Palpitations Pancreatic
disorder Pancreatitis Pancreatitis acute Pancytopenia
Panic disorder Panic reaction Panophthalmitis Papule
Paraesthesia Paraesthesia oral Paralysis Paranoia
Paraplegia Parathyroid disorder Paresis Parosmia
Pelvic pain Pemphigoid Peptic ulcer Pericarditis
Peripheral coldness Peripheral embolism Peripheral
ischaemia Peripheral vascular disorder Peritonitis Personality
disorder Petechiae Pharyngitis Phlebitis Phobia Photophobia
Photosensitivity reaction Pigmentation disorder Plasmodium
falciparum infection Platelet count decreased Pleural disorder
Pleural effusion Pleurisy Pneumonia aspiration
Pneumothorax Poisoning Pollakiuria Polyarteritis nodosa
Polyarthritits Polyneuropathy Polyp Polyuria Porphyria
Porphyria acute Porphyria non-acute Postmenopausal
haemorrhage Presyncope Priapism Proctalgia Proctitis Prostate
cancer Prostatic disorder Prostatism Protein urine present
Proteinuria Prothrombin level increased Prothrombin time
shortened Pruritus Pruritus genital Pseudolymphoma
Pseudomembranous colitis Psoriasis Psychiatric symptom
Psychotic disorder Pulmonary congestion Pulmonary
embolism Pulmonary fibrosis Pulmonary function test decreased
Pulmonary oedema Pulmonary toxicity Pulse abnormal
Purpura Pyelonephritis Pyuria Quadripareisis
Radial nerve palsy Radiculopathy Rales Rash Rash
erythematous Rash generalised Rash maculo-papular Rash
morbilliform Rash pustular Rectal haemorrhage Rectal
tenesmus Red blood cell count decreased Reflexes abnormal
Regressive behaviour Renal failure Renal failure acute
Renal impairment Renal pain Renal tubular disorder Respiratory
acidosis Respiratory arrest Respiratory depression Respiratory
disorder Respiratory distress Respiratory failure Respiratory
moniliasis Respiratory paralysis Respiratory tract congestion
Respiratory tract infection Retching Reticulocytosis
Retinal disorder Retinitis pigmentosa Rhabdomyolysis
Rheumatoid arthritis Rhinitis Salivary hypersecretion

Schizophreniform disorder Sciatica Scotoma Seborrhoeic
 dermatitis Sedation Sensitisation Sensory disturbance
 Sensory loss Sepsis Shock Sialoadenitis Sicca
 syndrome Sick sinus syndrome Sinoatrial block Sinus arrest
 Sinus arrhythmia Sinus bradycardiaSinusitis Skin candida
 Skin discolouration Skin disorder Skin exfoliation Skin
 mass Skin ulcer Sleep disorder Sneezing Social avoidant
 behaviour Somnolence Speech disorder Spleen disorder
 Splenomegaly Sputum increased Status epilepticus
 Stevens-Johnson syndrome Stomatitis Stridor Stupor
 Subarachnoid haemorrhage Subdural haematoma Sudden
 death Sudden visual loss Suicidal ideationSuicide attempt
 Supraventricular extrasystoles Supraventricular tachycardia
 Swelling Syncope Systemic lupus erythematosus Tachycardia
 Talipes Temperature intolerance Tenderness Tendonitis
 Tension Testicular atrophy Tetany Thinking abnormal
 Thirst Thought blocking Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombophlebitis Thrombosis
 Thrombotic thrombocytopenic purpura Thyroid disorder
 Thyroid function test abnormal Thyroid neoplasm Tinnitus
 Tongue discolouration Tongue disorder Tongue oedema Tooth
 disorder Tooth impacted Toothache Torsade de pointes Toxic
 epidermal necrolysis Transaminases increased Tremor
 Trismus Tubulointerstitial nephritis Type 2 diabetes
 mellitus Ulcer Upper gastrointestinal haemorrhageUpper respiratory
 tract infection Urethral disorderUrethral pain Urinary
 hesitation Urinary incontinence Urinary retentionUrinary tract
 disorder Urinary tract infection Urinary tract pain Urine
 abnormalityUrine analysis abnormal Urine output increased
 Urticaria Uterine haemorrhage Uterine leiomyoma
 Uterovaginal prolapse Uveitis VIIIth nerve paralysis
 Vaginal infectionVaginal inflammation Vascular insufficiency
 Vascular purpura Vascular resistance systemic Vasculitis
 Vasoconstriction Vasodilation procedure Venous thrombosis
 Ventricular arrhythmia Ventricular extrasystoles Ventricular
 fibrillation Ventricular hypertrophy Ventricular
 tachycardiaVertical talus Vertigo Vestibular disorder Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vitiligo Vomiting Vulvovaginal candidiasis
 Vulvovaginal mycotic infection Water intoxication
 Weight decreased Weight increased Wheezing White blood cell
 count decreased White blood cell count increased Xerophthalmia
 Yawning

Cation-dependent mannose-6-phosphate receptor - Group: Transporter
 Treated with:
 alglucosidase alfa: approved biotech (0 associated side
 effects) For the treatment of Pompe disease (GAA deficiency) in
 infants and pediatric patients.
 1-3 sugar ring of pentamannosyl 6-phosphate: experimental small
 molecule (0 associated side effects)
 alpha-d-mannose-6-phosphate: experimental small molecule (0
 associated side effects)

known side effects mediated through drugs targeting this protein:

Parathyroid hormone 2 receptor - Group: Receptor

Treated with:

preotact: approved biotech (0 associated side effects) For use/treatment in osteoporosis.

known side effects mediated through drugs targeting this protein:

Endothelin-1 receptor - Group: Receptor

Treated with:

bosentan: approved small molecule (196 associated side effects) Used in the treatment of pulmonary arterial hypertension (PAH), to improve exercise ability and to decrease the rate of clinical worsening (in patients with WHO Class III or IV symptoms).
2-hydroxy-3,5-diiodobenzoic acid: experimental small molecule (0 associated side effects)

sitaxentan: approved small molecule (402 associated side effects) Investigated for use/treatment in pulmonary hypertension, connective tissue diseases, hypertension, and congestive heart failure.

492 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal hernia
Abdominal pain upper Abdominal strangulated hernia
Abdominal tenderness Abortion spontaneous Abscess
Acidosis Acrochordon Activated partial thromboplastin time
prolonged Acute coronary syndrome Acute sinusitis Affect
lability Agitation Alanine aminotransferase increased Alopecia
Alveolitis allergic Amenorrhoea Amyotrophic lateral
sclerosis Anaemia Anal pruritus Anal skin tags
Anaphylactic shock Aneurysm Angina pectoris Angioedema
Angiopathy Anorectal discomfort Anxiety Aortic dissection
Appendicitis Arrhythmia Arteriovenous fistula Arthralgia
Arthritis Arthritis bacterial Arthritis infective
Ascites Aspartate aminotransferase increased Aspiration
Asthenia Asthma Ataxia Atrial fibrillation
Atrial flutter Atrial septal defect Atrioventricular block
Atrioventricular block complete Atrioventricular block first
degree Atrophy Back pain Basal cell carcinoma Bladder
disorder Bladder pain Blister Blood alkaline phosphatase
increased Blood bicarbonate decreased Blood bilirubin increased
Blood creatine phosphokinase increased Blood creatinine
increased Blood glucose increased Blood lactate dehydrogenase
increased Blood potassium decreased Blood potassium increased
Blood pressure increased Blood pressure systolic decreased
Blood uric acid increased Body temperature increased Bone
disorder Bone marrow toxicity Bradycardia Breast calcifications
Breast disorder Breast pain Breast tenderness Bronchitis
Bronchospasm Candidiasis Cardiac arrest Cardiac disorder

Cardiac failure chronic Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac septal defect Cellulitis Cerebrovascular accident
 Cerumen impaction Chest discomfort Chest pain Chills
 Cholecystitis chronic Cholelithiasis Cholestasis Chromaturia
 Coagulation time prolonged Colitis Colonic polyp
 Confusional state Conjunctival haemorrhage Conjunctival
 hyperaemia Conjunctivitis Conjunctivitis allergic Connective
 tissue inflammation Constipation Convulsion Cough Cystitis
 Cystitis noninfective Deafness Decreased appetite
 Dehydration Depressed level of consciousness Dermatitis
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Diarrhoea Dilatation atrial Discomfort Disease progression
 Disturbance in attention Disturbance in sexual arousal
 Diverticulum Dizziness Dizziness postural Drug
 hypersensitivity Dry mouth Dry skin Dry throat Duodenal ulcer
 Dyaesthesia Dyspepsia Dysphonia Dyspnoea Dyspnoea
 exertional Dyspnoea paroxysmal nocturnal Dysuria Ear
 congestion Ear discomfort Ear infection Ear pain Ecchymosis
 Eczema Effusion Electrocardiogram QT prolonged
 Electrocardiogram change Embolism Endocrine disorder
 Enteritis Eosinophil count increased Eosinophilia
 Epistaxis Eructation Erythema Erythema multiforme
 Extrasystoles Eye disorder Eye infection Eye
 inflammation Eye irritation Eye oedema Eye pruritus
 Eyelid ptosis Facial pain Faecal incontinence Fatigue
 Feeling abnormal Feeling cold Feeling hot Fibromyalgia
 Fistula Flank pain Flatulence Fluid retention Flushing
 Frequent bowel movements Fungal infection Furuncle
 Gallbladder disorder Gastritis Gastritis viral
 Gastroenteritis Gastroenteritis bacterial Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal pain Gingival pain Gingivitis Glossodynia
 Glucose tolerance impaired Goitre Gout Gouty tophus
 Groin pain Haematochezia Haematocrit decreased Haematocrit
 increased Haematoma Haematuria Haemoglobin decreased Haemoglobin
 increased Haemolysis Haemoptysis Haemorrhage Haemorrhoids Head
 discomfort Headache Heart rate irregular Hemiparesis Hepatic
 cirrhosis Hepatic enzyme increased Hepatic failure Hepatic
 function abnormal Hepatitis Hepatobiliary disease Hepatomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hormone level abnormal Hydrocephalus
 Hyperaemia Hyperaesthesia Hyperbilirubinaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hypernatraemia Hypersensitivity
 Hyperthermia Hypertrophy Hypoaesthesia Hypocalcaemia
 Hypoglycaemia Hypokalaemia Hyponatraemia Hypotension
 Hypoxia Ill-defined disorder Immune system disorder
 Incontinence Increased appetite Infarction Infection
 Infestation Inflammation Influenza Insomnia
 International normalised ratio increased Intertrigo
 Intestinal obstruction Irritability Ischaemia Ischaemic
 stroke Jaundice Joint stiffness Keratitis
 Keratoconjunctivitis sicca Lacrimation increased Lactic
 acidosis Leiomyoma Lethargy Leukopenia Libido increased Liver

function test abnormal Lobar pneumonia Localised infection
Localised oedema Loss of consciousness Lower respiratory
tract infection Lung infection Lymphoma Malaise Mediastinal
disorder Memory impairment Menopausal symptoms Menopause
Menorrhagia Mental disability Mental disorder Metrorrhagia
Migraine Mood swings Mouth haemorrhage Mouth ulceration
Muscle atrophy Muscle fatigue Muscle haemorrhage
Muscle spasms Muscle twitching Muscular weakness
Musculoskeletal chest pain Musculoskeletal discomfort
Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Myeloproliferative disorder
Myocardial infarction Nail hypertrophy Nasal congestion
Nasopharyngitis Nausea Necrosis Neoplasm Neoplasm
malignant Nephritis Nephropathy Nervous system disorder
Nervousness Neutropenia Night sweats Nightmare Nipple pain
Nocturnal dyspnoea Obstruction Oedema Oedema peripheral
Oesophageal spasm Onychomycosis Oral candidiasis Oral
pruritus Organ failure Orthopnoea Orthostatic hypotension
Osteoarthritis Osteochondrosis Otitis media Ovarian
cyst Oxygen saturation decreased Pain Pain in extremity Pain in jaw
Pallor Palmar erythema Palpitations Pancreatic
pseudocyst Pancreatitis acute Pancytopenia Panic attack
Panic reaction Papilloma Paraesthesia Paraesthesia oral
Paralysis Paronychia Partial seizures Peptic ulcer
Pericardial effusion Peripheral ischaemia Petechiae
Photophobia Pleural disorder Pleural effusion Pleurisy
Pleuritic pain Pneumonia Pneumonia aspiration
Pneumothorax Pollakiuria Polyarthrits Polydipsia Polyp
Post thrombotic syndrome Pregnancy test positive
Presyncope Proctalgia Protein urine present Proteinuria
Prothrombin level increased Pruritus Pruritus generalised
Pruritus genital Pseudocyst Psoriasis Pulmonary arterial
hypertension Pulmonary embolism Pulmonary function test
decreased Pulmonary oedema Rash Rash macular Rash papular
Rash pustular Rectal haemorrhage Red blood cell count
decreased Renal failure Renal impairment Respiratory depression
Respiratory failure Respiratory tract infection Restless
legs syndrome Retching Retinal detachment Retinal disorder
Retinal tear Rhinitis Right ventricular failure
Rosacea Sciatica Sensation of foreign body Sensation
of heaviness Shock Sicca syndrome Sinus bradycardia Sinus
congestion Sinus headache Sinus operation Sinusitis Skin
discolouration Skin disorder Skin exfoliation Skin
hyperpigmentation Skin irritation Skin lesion Skin necrosis Skin
papilloma Skin ulcer Sleep disorder Sneezing Social avoidant
behaviour Somnolence Sputum purulent Stomatitis Subarachnoid
haemorrhage Subcutaneous abscess Supraventricular extrasystoles
Supraventricular tachycardia Syncope Systemic lupus
erythematosus Tachycardia Tachypnoea Tenderness Tendinitis
Tension Testicular pain Thinking abnormal Thirst
Throat irritation Thrombocytopenia Thrombophlebitis superficial
Tinnitus Tongue blistering Tongue discolouration Tongue
disorder Tongue ulceration Tooth abscess Tooth impacted
Toothache Tracheobronchitis Tremor Tubulointerstitial
nephritis Ulcer Upper respiratory tract infection Urethral disorder

Urinary tract disorder Urinary tract infection Urine
colour abnormal Urosepsis Urticaria Uterine leiomyoma
Uterovaginal prolapse VIIth nerve paralysis Vaginal
haemorrhage Vaginal infection Vaginal prolapse Venous insufficiency
Venous pressure jugular Venous pressure jugular increased
Venous thrombosis Ventricular arrhythmia Ventricular
extrasystoles Ventricular failure Ventricular tachycardia
Vertigo Viral diarrhoea Viral infection Vision blurred
Visual impairment Vitreous floaters Vomiting Weight decreased
Weight fluctuation Weight increased Wheezing White blood
cell count decreased Xerophthalmia

Vesicular inhibitory amino acid transporter - Group: Transporter

Treated with:

glycine: approved, nutraceutical small molecule (38 associated
side effects) Supplemental glycine may have antispastic activity.
Very early findings suggest it may also have antipsychotic activity
as well as antioxidant and anti-inflammatory activities.

38 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Angina pectoris Back pain Blindness
Blindness transient Chills Coma Convulsion Dehydration
Diarrhoea Dizziness Dry mouth Electrolyte imbalance
Encephalopathy Fluid overload Hyperammonaemia
Hyperkinesia Hypersensitivity Hyponatraemia Hypotension
Lung disorder Nausea Oedema Pain Polyuria
Pulmonary congestion Respiratory tract congestion Rhinitis
Salivary hypersecretion Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Interferon-alpha/beta receptor alpha chain - Group: Receptor

Treated with:

peginterferon alfa-2a: approved biotech (0 associated side
effects) For treatment of hairy cell leukemia, malignant melanoma,
and AIDS-related Kaposi's sarcoma.

interferon alfa-n1: approved biotech (0 associated side
effects) For treatment of venereal or genital warts caused by the
Human Papiloma Virus

interferon alfa-n3: approved biotech (0 associated side
effects) For the intralesional treatment of refractory or
recurring external condylomata acuminata.

peginterferon alfa-2b: approved biotech (0 associated side
effects) For the treatment of chronic hepatitis C in patients not
previously treated with interferon alpha who have compensated liver
disease and are at least 18 years of age.

interferon alfa-2a, recombinant: approved biotech (0
associated side effects) For the treatment of chronic hepatitis
C, hairy cell leukemia, AIDS-related Kaposi's sarcoma, and chronic
myelogenous leukemia. Also for the treatment of oral warts arising
from HIV infection.

interferon beta-1a: approved biotech (0 associated side effects) For treatment of relapsing/remitting multiple sclerosis, also for condyloma acuminatum

interferon beta-1b: approved biotech (0 associated side effects) Interferon beta-1b is a drug used for the treatment of relapsing/remitting multiple sclerosis. It has been shown to slow the advance of the disease as well as to decrease the frequency of attacks.

interferon alfacon-1: approved biotech (0 associated side effects) For the treatment of hairy cell leukemia, malignant melanoma, and AIDS-related Kaposi's sarcoma

interferon alfa-2b, recombinant: approved biotech (0 associated side effects) For the treatment of hairy cell leukemia, malignant melanoma, and AIDS-related Kaposi's sarcoma.

known side effects mediated through drugs targeting this protein:

Low-density lipoprotein receptor-related protein 2 - Group: Receptor
Treated with:

urokinase: approved biotech (0 associated side effects)

Urokinase can be used for the treatment of pulmonary embolism, coronary artery thrombosis, IV catheter clearance, and venous and arterial blood clots.

insulin recombinant: approved biotech (0 associated side effects) For treatment of Type I and II diabetes mellitus.

insulin, porcine: approved biotech (0 associated side effects) For the treatment of type I and II diabetes mellitus.

gentamicin: approved small molecule (82 associated side effects) For treatment of serious infections caused by susceptible strains of the following microorganisms: <i>P. aeruginosa&/i>, <i>Proteus&/i> species (indole-positive and indole-negative), <i>E. coli&/i>, <i>Klebsiella-Enterobacter-Serratia&/i> species, <i>Citrobacter&/i> species and <i>Staphylococcus&/i> species (coagulase-positive and coagulase-negative).

82 known side effects mediated through drugs targeting this protein:

Agranulocytosis Alopecia Anaemia Anaphylactic shock
Anaphylactoid reaction Arthralgia Asthenia Atrophy
Benign intracranial hypertension Body temperature increased
Confusional state Conjunctival hyperaemia Convulsion
Deafness Decreased appetite Dehydration Dermatitis
Dizziness Encephalopathy Eosinophilia Erythema
Extravasation Fat necrosis Feeling abnormal Fibrosis
Fluid overload Hallucination Headache Hearing impaired
Hepatomegaly Hyperaemia Hypersensitivity Hypertension
Hypoaesthesia Hypocalcaemia Hypokalaemia
Hypomagnesaemia Hypotension Injection site pain Laryngeal
oedema Lethargy Leukopenia Mass Mental disorder due to a
general medical condition Muscle twitching Muscular weakness
Musculoskeletal discomfort Myasthenia gravis Myasthenic
syndrome Nausea Necrosis Neuropathy peripheral Oedema

Oliguria Pain Paraesthesia Phlebitis Pruritus
Pulmonary fibrosis Pulmonary function test decreased
Purpura Rash Renal impairment Respiratory depression
Salivary hypersecretion Sensitisation Sensory loss
Skin disorder Splenomegaly Stomatitis Tetany
Thrombocytopenia Thrombocytopenic purpura Thrombosis
Tinnitus Urticaria Vascular purpura Venous thrombosis
Vertigo Visual impairment Vomiting Weight decreased

Voltage-dependent calcium channel subunit alpha-2/delta-2 - Group:
Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)
For the management of mild to moderate essential hypertension.

It may be used alone or concurrently with thiazide-type diuretics.

gabapentin: approved small molecule (456 associated side effects)
For the management of postherpetic neuralgia in adults and as adjunctive therapy in the treatment of partial seizures with and without secondary generalization in patients over 12 years of age with epilepsy.

felodipine: approved small molecule (96 associated side effects)
For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side effects)
For the treatment of mild to moderate hypertension

amiodarone: approved small molecule (192 associated side effects)
Intravenously, for initiation of treatment and prophylaxis of frequently recurring ventricular fibrillation and hemodynamically unstable ventricular tachycardia in patients refractory to other therapy. Orally, for the treatment of life-threatening recurrent ventricular arrhythmias such as recurrent ventricular fibrillation and recurrent hemodynamically unstable ventricular tachycardia.

bepridil: approved small molecule (0 associated side effects)
For the treatment of chronic stable angina (classic effort-associated angina).

558 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Abnormal faeces Abscess Acne
Acute coronary syndrome Acute interstitial pneumonitis
Acute respiratory distress syndrome Affect lability
Ageusia Agitation Agranulocytosis Akinesia Alanine
aminotransferase increased Alcohol intolerance Alopecia
Alveolitis fibrosing Amblyopia Amenorrhoea Amnesia
Anaemia Anaphylactic shock Anaphylactoid reaction
Angina pectoris Angioedema Angiopathy Anorectal disorder
Antisocial behaviour Antisocial personality disorder
Anuria Anxiety Anxiety disorder Aortic dissection
Apathy Aphasia Aplastic anaemia Apnoea Apraxia
Areflexia Arrhythmia Arthralgia Arthritis Arthropathy
Asocial behaviour Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Atrial
fibrillation Atrioventricular block Atrioventricular block
second degree Aura Back pain Benign intracranial hypertension

Bladder pain Bleeding time prolonged Blindness
 Blister Blood alkaline phosphatase increased Blood
 lactate dehydrogenase increased Blood pressure increased Blood
 urea abnormal Blood uric acid Body temperature increased Bone
 pain Bradycardia Bradykinesia Breast cancer Breast
 enlargement Breast pain Bronchiolitis Bronchitis Bronchospasm
 Bundle branch block Bundle branch block left Bursitis
 Candidiasis Capillary fragility increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiogenic shock Cardiovascular
 disorder Cataract Cellulitis Central nervous system neoplasm
 Cerebellar syndrome Cerebrovascular accident Cheilitis
 Chest pain Chills Cholecystitis Cholelithiasis
 Choreoathetosis Chorioretinitis Coagulopathy Cognitive
 disorder Colitis Completed suicide Conduction disorder
 Confusional state Congenital cardiovascular anomaly
 Conjunctival hyperaemia Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal degeneration Corneal deposits
 Corneal disorder Costochondritis Cough Cushingoid Cystitis
 Cystitis noninfective Dandruff Deafness Decreased
 appetite Deep vein thrombosis Dehydration Delirium
 Demyelinating polyneuropathy Dependence Depersonalisation
 Depressed level of consciousness Dermatitis bullous
 Dermatitis exfoliative Diabetes mellitus Diabetic ketoacidosis
 Diabetic retinopathy Diaphragmatic hernia Diarrhoea
 Diplopia Discomfort Disorientation Dissociation
 Disturbance in sexual arousal Dizziness Drug abuse Drug
 eruption Dry eye Dry mouth Dry skin Dry throat Duodenal
 ulcer Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dystonia Dysuria Ear infection Ear pain Ecchymosis
 Eczema Effusion Ejaculation disorder Electrocardiogram
 QT prolonged Embolism Encephalopathy Eosinophilia
 Eosinophilic pneumonia Epididymitis Epistaxis Erectile
 dysfunction Eructation Erythema multiforme Erythema nodosum
 Euphoric mood Eustachian tube disorder Extensor plantar
 response Extrasystoles Eye disorder Eye haemorrhage Eye
 pain Eye pruritus Eyelid ptosis Face oedema Faecal
 incontinence Fasting Fatigue Feeling abnormal Fibrosis
 Flat affect Flatulence Fluid retention Flushing Foetor
 hepaticus Fungal skin infection Furuncle Gait disturbance
 Gamma-glutamyltransferase increased Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 pain Generalised oedema Genital discharge Gingival bleeding
 Gingival hyperplasia Gingivitis Glaucoma
 Glomerulonephritis Glomerulonephritis membranous Glossitis Glycosuria
 Goitre Gout Granuloma Gynaecomastia Haematemesis
 Haematochezia Haematoma Haematuria Haemoglobin Haemolytic
 anaemia Haemoptysis Haemorrhage intracranial Haemorrhoids
 Hair disorder Hallucination Hangover Headache
 Hearing impaired Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatitis
 cholestatic Hepatitis fulminant Hepatobiliary disease
 Hepatocellular injury Hepatomegaly Hernia Herpes

simplex Herpes virus infection Herpes zoster Hiccups
 Hirsutism Hordeolum Hostility Hyperaemia Hyperaesthesia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkeratosis Hyperkinesia Hyperlipidaemia Hyperplasia
 Hyperreflexia Hypertension Hyperthyroidism Hypertonia
 Hypertrophy Hyperventilation Hypoaesthesia Hypoglycaemia
 Hypokinesia Hyponatraemia Hyporeflexia Hypotension
 Hypothyroidism Hypotonia Hypoventilation Hypoxia
 Idiopathic pulmonary fibrosis Ill-defined disorder
 Immune system disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Increased
 tendency to bruise Infarction Infection Infectious
 mononucleosis Infestation Inflammation Influenza Injection
 site reaction Inner ear disorder Insomnia Intentional self-
 injury Interstitial lung disease Intestinal functional
 disorder Intestinal obstruction Intestinal ulcer Iritis
 Irritability Irritable bowel syndrome Jaundice Joint
 stiffness Joint swelling Ketoacidosis Labyrinthitis
 Lacrimation increased Laryngitis Lens disorder Lenticular
 opacities Lethargy Leukocytoclastic vasculitis Leukopenia
 Libido decreased Libido increased Lip haemorrhage Liver
 disorder Liver function test abnormal Loss of consciousness Loss
 of libido Lung disorder Lung infiltration Lymphadenopathy
 Lymphocytosis Lymphoma Macular degeneration Malaise
 Mania Mass Mediastinal disorder Melaena Melanosis
 Memory impairment Meningism Menorrhagia Menstrual disorder
 Mental disability Mental disorder Micturition urgency
 Migraine Miosis Mood swings Mouth ulceration Movement
 disorder Mucosal inflammation Mucous membrane disorder
 Muscle contracture Muscle relaxant therapy Muscle
 spasms Muscle twitching Muscular weakness Musculoskeletal
 discomfort Musculoskeletal stiffness Myalgia Myocardial
 infarction Myoclonus Myopathy Nail disorder Nasal obstruction
 Nasopharyngitis Nausea Neck mass Neck pain Necrosis
 Neoplasm Neoplasm malignant Nephrolithiasis Nephrotic
 syndrome Nervous system disorder Nervousness Neuritis
 Neuropathy peripheral Neurosis Neutropenia Nightmare
 Nocturia Nodal arrhythmia Nodule Nystagmus
 Obliterative bronchiolitis Obstruction Occipital neuralgia
 Oedema peripheral Oesophageal disorder Oesophageal spasm
 Oesophagitis Onycholysis Optic nerve disorder Optic
 neuritis Oral candidiasis Organising pneumonia Orthostatic
 hypotension Osteoarthritis Osteoporosis Otitis externa
 Otitis media Ovarian failure Pain in extremity
 Palpitations Pancreatitis Pancytopenia
 Papilloedema Papule Paraesthesia oral Paralysis
 Paranoia Paresis Pelvic pain Penile swelling Penis
 disorder Peptic ulcer Pericardial effusion Pericardial rub
 Pericarditis Peripheral vascular disorder Personality
 disorder Pharyngitis Phlebitis Photodermatosis Photophobia
 Photosensitivity reaction Pigmentation disorder Pleural
 disorder Pleural effusion Pleurisy Pneumonia aspiration
 Pollakiuria Polyneuropathy Polyserositis Polyuria
 Proctitis Prothrombin level decreased Pruritus Pruritus
 genital Pseudolymphoma Psoriasis Psychotic disorder

Pulmonary embolism Pulmonary fibrosis Pulmonary oedema
 Pulmonary thrombosis Pulmonary toxicity Pulse absent
 Pulseless electrical activity Purpura Pustular
 psoriasis Pyelonephritis Pyuria Rash maculo-papular Rash
 pustular Rectal haemorrhage Regurgitation Renal failure
 acute Renal impairment Renal pain Respiratory disorder Respiratory
 failure Respiratory tract infection Retinal degeneration
 Retinal disorder Retinal vein thrombosis Rhabdomyolysis
 Rhinitis Rhinitis seasonal Rhinorrhoea Salivary gland
 enlargement Salivary hypersecretion Scotoma Scrotal disorder
 Scrotal swelling Seasonal allergy Seborrhoeic dermatitis
 Sepsis Sexual dysfunction Shock Sinus arrest Sinus
 bradycardia Sinusitis Skin cancer Skin discolouration Skin
 disorder Skin exfoliation Skin hypertrophy Skin necrosis Skin
 odour abnormal Skin ulcer Sleep disorder Sneezing Snoring
 Somnambulism Somnolence Speech disorder Stomatitis
 Strabismus Stupor Subcutaneous nodule Subdural
 haematoma Suicidal behaviour Suicide attempt Supraventricular
 extrasystoles Swelling Syncope Tachycardia Tendon disorder
 Tendonitis Tension Testicular pain Thinking abnormal
 Thirst Thrombocytopenia Thrombophlebitis Thrombosis
 Thyroid cancer Thyroid disorder Thyroid neoplasm Tinnitus
 Tongue disorder Tooth abscess Tooth discolouration Tooth
 disorder Torsade de pointes Toxic epidermal necrolysis
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urticaria Uterovaginal
 prolapse VIIIth nerve paralysis Vaginal haemorrhage Varicose
 vein Vascular purpura Vasculitis Vasodilation procedure Venous
 thrombosis Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vestibular disorder Viral diarrhoea Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
 infection Vulvovaginal pain Weight decreased Weight increased
 Wheezing White blood cell count decreased

Solute carrier family 2, facilitated glucose transporter member 2 -
 Group: Transporter

Treated with:

streptozocin: approved small molecule (0 associated side
 effects) For the treatment of malignant neoplasms of pancreas
 (metastatic islet cell carcinoma).

known side effects mediated through drugs targeting this protein:

Neuronal acetylcholine receptor subunit beta-2 - Group: Channel

Treated with:

nicotine: approved small molecule (98 associated side effects)
 For the relief of nicotine withdrawal symptoms and as an aid
 to smoking cessation.

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

213 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Affect lability
 Aggression Agitation Amnesia Anaemia Anxiety
 Apathy Aphasia Apraxia Arrhythmia Arrhythmia
 supraventricular Arthralgia Arthritis Asthenia Ataxia
 Atrial fibrillation Atrioventricular block Back pain
 Bladder pain Blindness Blister Blood alkaline
 phosphatase increased Blood urea increased Body temperature
 increased Bone pain Bradycardia Bronchitis Bronchospasm
 Bundle branch block Cardiac failure Cardiac fibrillation
 Cardiovascular disorder Cataract Cerebrovascular
 accident Cerebrovascular disorder Chest discomfort Chest pain
 Coagulopathy Completed suicide Confusional state
 Constipation Convulsion Coordination abnormal Cough
 Cystitis Cystitis noninfective Decreased appetite
 Dehydration Delirium Dependence Depression Dermatitis
 Dermatitis bullous Diarrhoea Discomfort Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Drug abuse Drug dependence Dry mouth Dysgeusia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Ear pain Electrocardiogram QT prolonged Electrocardiogram
 T wave inversion Epistaxis Eye disorder Eye irritation
 Fatigue Feeling abnormal Flat affect Flatulence Flushing
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 haemorrhage Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypotension Ill-
 defined disorder Immune system disorder Incontinence Increased
 appetite Increased bronchial secretion Infarction Infection
 Influenza Insomnia Irritability Ischaemia Lacrimation
 increased Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Menstrual disorder Mental disability Mental
 disorder Migraine Mood swings Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nasal congestion Nasal
 discomfort Nasal ulcer Nasopharyngitis Nausea Nephrolithiasis
 Nervous system disorder Nervousness Neuropathy peripheral
 Nightmare Nocturia Oedema Oedema peripheral Oesophageal
 disorder Oesophageal perforation Orthostatic hypotension
 Pain Pain in extremity Pain in jaw Palpitations
 Paraesthesia Paranoia Pharyngitis Pneumonia Pollakiuria
 Pruritus Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Rhinorrhoea Salivary hypersecretion Sensory

loss Shock Sinusitis Sleep disorder Sneezing Somnolence
Sputum increased Stomatitis Suicidal ideation Suicide attempt
Supraventricular tachycardia Syncope Tachycardia Tension
Throat irritation Thrombocytopenia Thrombocytosis Tinnitus
Tobacco user Tooth disorder Transient ischaemic attack
Tremor Ulcer Upper respiratory tract infection Urethral
disorder Urinary incontinence Urinary retention Urinary tract
disorder Urinary tract infection Vascular dementia Vascular
purpura Ventricular tachycardia Vertigo Vision blurred
Visual acuity reduced Visual impairment Vomiting Weight
decreased Weight increased Withdrawal syndrome

Prostaglandin D2 receptor - Group: Receptor

Treated with:

nedocromil: approved small molecule (44 associated side effects)
For the treatment of mild to moderate asthma

44 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Arthritis Asthenia Body
temperature increased Bronchitis Chest pain Cough Dermatitis
Diarrhoea Dizziness Dyspepsia Dyspnoea Eosinophilia
Erythema Fatigue Feeling abnormal Feeling hot
Gastrointestinal pain Headache Increased bronchial
secretion Infection Leukopenia Loeffler's syndrome Malaise
Nasal congestion Nausea Neutropenia Ocular hyperaemia Pain
Pharyngitis Photophobia Pneumonia Pulmonary eosinophilia Rash
Respiratory disorder Respiratory tract infection Rhinitis
Sinusitis Sputum increased Tremor Upper respiratory
tract infection Viral infection Vomiting

Alpha-2C adrenergic receptor - Group: Receptor

Treated with:

bethanidine: approved small molecule (0 associated side
effects) For the treatment of hypertension.

ziprasidone: approved small molecule (251 associated side
effects) For the treatment of schizophrenia and related psychotic
disorders.

cabergoline: approved small molecule (96 associated side
effects) For the treatment of hyperprolactinemic disorders, either
idiopathic or due to prolactinoma (prolactin-secreting adenomas).
May also be used to manage symptoms of Parkinsonian Syndrome as
monotherapy during initial symptomatic management or as an adjunct
to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side
effects) For the treatment of the signs and symptoms of idiopathic
Parkinson's disease. Also used for the treatment of restless legs
syndrome.

olanzapine: approved small molecule (393 associated side
effects) For the acute and maintenance treatment of schizophrenia
and related psychotic disorders, as well as acute treatment of manic
or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is
indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

brimonidine: approved small molecule (109 associated side effects) For the lowering of intraocular pressure in patients with open-angle glaucoma or ocular hypertension.

clonidine: approved small molecule (161 associated side effects) May be used as an adjunct in the treatment of hypertension, as an epidural infusion as an adjunct treatment in the management of severe cancer pain that is not relieved by opiate analgesics alone, for differential diagnosis of pheochromocytoma in hypertensive patients, prophylaxis of vascular migraine headaches, treatment of severe dysmenorrhea, management of vasomotor symptoms associated with menopause, rapid detoxification in the management of opiate withdrawal, treatment of alcohol withdrawal used in conjunction with benzodiazepines, management of nicotine dependence, topical use to reduce intraocular pressure in the treatment of open-angle and secondary glaucoma and hemorrhagic glaucoma associated with hypertension, and in the treatment of attention-deficit hyperactivity disorder (ADHD).

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

tizanidine: approved small molecule (230 associated side effects) For the management of increased muscle tone associated with spasticity

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

fenoldopam: approved small molecule (51 associated side effects)
For the in-hospital, short-term (up to 48 hours) management of severe hypertension when rapid, but quickly reversible, emergency reduction of blood pressure is clinically indicated, including malignant hypertension with deteriorating end-organ function.

phenoxybenzamine: approved small molecule (9 associated side effects) For the treatment of pheochromocytoma (malignant), benign prostatic hypertrophy and malignant essential hypertension.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled

indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to

levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

ephedra: approved, withdrawn, nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

yohimbine: approved small molecule (0 associated side effects) Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

methamphetamine: illicit, approved small molecule (30 associated side effects) For the treatment of Attention Deficit Disorder with Hyperactivity (ADHD) and exogenous obesity.

droxidopa: approved small molecule (0 associated side effects) For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

xylometazoline: approved small molecule (0 associated side effects) It is used for treating nasal congestion and minor inflammation due to allergies or colds.

1306 known side effects mediated through drugs targeting this protein:

Abasia	Abdominal adhesions	Abdominal discomfort	Abdominal distension	Abdominal neoplasm	Abdominal pain	Abdominal pain lower
Abdominal pain upper	Abdominal tenderness	Abnormal				

behaviour Abnormal dreams Abnormal faeces Abscess
Accommodation disorder Acidosis Acne Actinic keratosis Acute
abdomen Acute coronary syndrome Acute lymphocytic leukaemia
Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma
benign Adhesion Adjustment disorder Adrenal insufficiency
Affect lability Affective disorder Ageusia Aggression
Agitation Agoraphobia Agranulocytosis Akathisia Akinesia
Alanine aminotransferase increased Albright's disease
Albuminuria Alcohol intolerance Alkalosis Alopecia
Altered state of consciousness Amaurosis fugax Amblyopia
Amenorrhoea Amnesia Anaemia Anaemia macrocytic
Anaemia megaloblastic Anaphylactic shock Anaphylactoid
reaction Aneurysm Anger Angina pectoris Angina unstable
Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma
Anorectal discomfort Anorectal disorder Anorgasmia
Antidiuretic hormone abnormality Antisocial behaviour
Antisocial personality disorder Anxiety Aortic dissection
Apathy Aphasia Aphthous stomatitis Apnoea
Appendicitis Application site reaction Apraxia
Arrhythmia Arrhythmia supraventricular Arterial disorder
Arterial occlusive disease Arterial stenosis Arteriosclerosis
Arteritis Arthralgia Arthritis Arthropathy Ascites
Asocial behaviour Aspartate aminotransferase increased
Asphyxia Aspiration Asthenia Asthma Ataxia
Atelectasis Atrial fibrillation Atrial flutter Atrial
septal defect Atrioventricular block first degree
Atrioventricular block second degree Atrophy Aura
Automatism Autonomic nervous system imbalance Azotaemia Back
pain Bacterial infection Balance disorder Balanoposthitis Basal
cell carcinoma Basophilia Benign intracranial hypertension
Benign neoplasm Benign neoplasm of skin Benign prostatic
hyperplasia Biliary colic Binge eating Bladder cancer
Bladder disorder Bladder pain Blepharitis Blepharospasm
Blindness Blindness transient Blister Blood alkaline
phosphatase increased Blood amylase increased Blood
antidiuretic hormone abnormal Blood bilirubin increased Blood
cholesterol increased Blood creatine phosphokinase increased Blood
creatinine increased Blood electrolytes abnormal Blood glucose
decreased Blood glucose increased Blood insulin increased
Blood iron decreased Blood lactate dehydrogenase increased
Blood phosphorus increased Blood potassium decreased Blood
potassium increased Blood pressure abnormal Blood pressure
diastolic decreased Blood pressure fluctuation Blood pressure
increased Blood pressure systolic decreased Blood prolactin
increased Blood testosterone decreased Blood triglycerides
increased Blood triglycerides normal Blood urea increased Blood
uric acid increased Blood urine Blood urine present Blunted
affect Body temperature decreased Body temperature increased
Bone disorder Bone pain Bone sarcoma Bradycardia
Bradykinesia Bradyphrenia Brain neoplasm Brain
neoplasm benign Brain oedema Breast cancer Breast cyst
Breast discharge Breast discomfort Breast disorder Breast
disorder female Breast disorder male Breast engorgement
Breast enlargement Breast feeding Breast neoplasm
Breast pain Breast swelling Breast tenderness Breath odour

Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic
 Cholelithiasis Cholestasis Choreoathetosis
 Chromaturia Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Coagulopathy Coccydynia
 Cognitive disorder Cogwheel rigidity Cold sweat Colitis
 Colitis ulcerative Colon cancer Colonic pseudo-
 obstruction Colorectal cancer Coma Completed suicide Compulsions
 Condition aggravated Confusional state Congenital anomaly
 Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival follicles
 Conjunctival haemorrhage Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis Conjunctivitis
 allergic Connective tissue disorder Constipation Convulsion
 Coombs test positive Coordination abnormal Corneal erosion
 Corneal lesion Corneal staining Coronary artery disease
 Coronary artery occlusion Costochondritis Cough Crocodile
 tears syndrome Crying Cyanosis Cystitis Cystitis
 noninfective Cytolytic hepatitis Dandruff Deafness Death
 Decreased appetite Decubitus ulcer Deep vein thrombosis
 Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dementia with Lewy bodies Dental caries
 Dependence Depersonalisation Depressed level of consciousness
 Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Device related
 infection Diabetes mellitus Diabetic coma Diabetic
 hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
 ketoacidosis Diaphragmatic hernia Diarrhoea Diplopia
 Discomfort Disorientation Disseminated intravascular
 coagulation Dissociation Disturbance in attention Disturbance
 in sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug level increased Drug withdrawal syndrome Drug
 withdrawal syndrome neonatal Dry eye Dry mouth Dry skin Dry
 throat Duodenal ulcer Duodenal ulcer haemorrhage Duodenitis

Dysarthria Dysentery Dysgeusia Dysgraphia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dyspnoea exertional Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional disorder Emotional
 distress Emphysema Encephalopathy Endocrine disorder
 Endometrial cancer Endometrial neoplasm Energy increased
 Enteritis Enuresis Enzyme abnormality Eosinophil count
 increased Eosinophilia Epicondylitis Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythema of eyelid
 Erythromelalgia Euphoric mood Exfoliative rash Exostosis
 Extradural abscess Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye discharge Eye
 disorder Eye haemorrhage Eye infection Eye inflammation Eye
 irritation Eye movement disorder Eye pain Eye pruritus Eye
 swelling Eyelid disorder Eyelid function disorder Eyelid
 oedema Eyelid ptosis Eyelids pruritus Face oedema Facial pain
 Facial paresis Faecal incontinence Faecalith Faecaloma
 Faeces discoloured Faeces hard Fasciitis Fasting
 Fatigue Fear Feeling abnormal Feeling cold Feeling hot
 Feeling jittery Female sexual dysfunction Fibroadenoma of
 breast Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing
 Foetor hepaticus Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gallbladder cancer Gallbladder disorder
 Gamma-glutamyltransferase increased Gangrene Gastric
 cancer Gastric disorder Gastric haemorrhage Gastric pH
 decreased Gastric polyps Gastric ulcer Gastric ulcer
 haemorrhage Gastritis Gastritis haemorrhagic Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrointestinal tract
 irritation Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Genital discharge Gestational
 hypertension Gingival bleeding Gingival infection Gingival
 pain Gingival recession Gingivitis Glaucoma Glossitis
 Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesis Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemoglobinuria
 Haemolysis Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhoids Haemothorax Hallucination Hallucination,
 auditory Hallucination, visual Hallucinations, mixed Hangover

Head discomfort Head titubation Headache Hearing impaired
 Heart disease congenital Heart rate irregular Hemianopia
 Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic fibrosis Hepatic function
 abnormal Hepatic necrosis Hepatic neoplasm malignant Hepatic
 steatosis Hepatitis Hepatitis cholestatic Hepatitis fulminant
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hereditary disorder Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hydrocephalus Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperphagia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersexuality Hypersomnia Hypertension
 Hypertensive crisis Hyperthermia Hyperthyroidism
 Hypertonia Hypertonic bladder Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperuricosuria Hyperventilation Hypoaesthesia
 Hypoaesthesia oral Hypocalcaemia Hypochloraemia
 Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
 Hypogonadism Hypohidrosis Hypokalaemia Hypokinesia
 Hypomagnesaemia Hypomania Hypomenorrhoea Hyponatraemia
 Hypophagia Hypoproteinaemia Hyporeflexia Hypotension
 Hypothermia Hypothyroidism Hypotonia Hypoventilation
 Hypovitaminosis Hypovolaemia Hypoxia Idiopathic
 thrombocytopenic purpura Ileus Ileus paralytic Ill-defined
 disorder Illusion Immune system disorder Impaired healing
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Induration Infarction Infected cyst
 Infection Infestation Inflammation Influenza Influenza
 like illness Inguinal hernia Initial insomnia Injection site
 mass Injection site pain Injection site reaction Inner ear
 disorder Insomnia Intention tremor Intentional self-injury
 Intermittent claudication Interstitial lung disease
 Intervertebral disc degeneration Intervertebral disc disorder
 Intervertebral disc protrusion Intervertebral discitis
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intracranial pressure increased
 Iritis Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic hepatitis Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint effusion Joint range of motion
 decreased Joint stiffness Joint swelling Judgement impaired
 Keratitis Keratoconjunctivitis sicca Keratopathy
 Ketoacidosis Ketosis Laboratory test abnormal
 Lacrimal disorder Lacrimation decreased Lacrimation increased
 Lactic acidosis Lactose intolerance Laryngeal cancer
 Laryngeal disorder Laryngeal neoplasm Laryngeal oedema
 Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular

pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichenoid keratosis Lip and/or oral cavity cancer Lip
 blister Lip dry Lip swelling Lipoma Livedo
 reticularis Liver disorder Liver function test abnormal Liver
 injury Lividity Lobar pneumonia Localised infection
 Localised oedema Logorrhoea Loss of consciousness Loss of
 libido Lower respiratory tract infection Lung adenocarcinoma
 stage I Lung cancer metastatic Lung disorder Lung infiltration
 Lung neoplasm malignant Lymphadenitis Lymphadenopathy
 Lymphatic disorder Lymphocytic leukaemia Lymphocytosis
 Lymphoedema Lymphoma Lymphopenia Macular degeneration
 Macule Maculopathy Major depression Malaise Male sexual
 dysfunction Malignant melanoma Mania Masked facies Mastitis
 Mediastinal disorder Melaena Melanocytic naevus
 Memory impairment Meningitis Menopausal symptoms Menopause
 Menorrhagia Menstrual disorder Menstruation delayed
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metabolic
 alkalosis Metastasis Metastatic neoplasm Metrorrhagia
 Micturition disorder Micturition urgency Middle ear
 disorder Middle ear effusion Middle insomnia Migraine with
 aura Migraine without aura Miosis Mitral valve incompetence
 Mobility decreased Monarthritits Monocytosis Mood swings
 Motion sickness Mouth ulceration Movement disorder Multiple
 hereditary exostosis Multiple myeloma Muscle atrophy Muscle
 contractions involuntary Muscle contracture Muscle enzyme
 increased Muscle relaxant therapy Muscle rigidity Muscle
 spasms Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
 Nail disorder Nail infection Narcolepsy Nasal congestion
 Nasal disorder Nasal dryness Nasal oedema Nasal
 polyps Nasopharyngitis Nausea Neck pain Necrosis
 Necrosis ischaemic Neoplasm malignant Neoplasm prostate
 Neoplasm recurrence Neoplasm skin Nephritis
 Nephrolithiasis Nephrotic syndrome Nerve root lesion
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neurodermatitis Neurogenic bladder Neuroleptic malignant
 syndrome Neurological symptom Neuroma Neuropathy peripheral
 Neurosis Neutropenia Neutrophil count decreased Neutrophil
 count increased Night sweats Nightmare Nocturia Nodal
 arrhythmia Nodule Normochromic normocytic anaemia Nuchal
 rigidity Nystagmus Obesity Obsessive thoughts Obstruction
 Obstructive airways disorder Ocular hyperaemia Oculogyric crisis
 Oedema Oedema peripheral Oesophageal carcinoma Oesophageal
 disorder Oesophageal spasm Oesophageal stenosis Oesophageal ulcer
 Oesophagitis Oligomenorrhoea Oliguria Onychomycosis
 Opisthotonus Optic atrophy Optic neuritis Oral
 candidiasis Oral neoplasm benign Oral pain Orchitis noninfective
 Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension

Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media acute
 Otitis media chronic Ovarian cancer Ovarian cyst Pain
 Pain in extremity Pain in jaw Pallor Palpitations
 Pancreatitis acute Pancytopenia Panic attack Panic
 disorder Panic disorder with agoraphobia Panic reaction
 Papilloma Papule Paraesthesia oral Paralysis Paranoia
 Parasomnia Paresis Parkinsonian gait Parkinsonism
 Paronychia Parosmia Parotitis Pathological fracture
 Pathological gambling Pelvic pain Penis disorder Peptic
 ulcer Pericardial effusion Pericarditis constrictive Perineal
 pain Periodontitis Periorbital oedema Peripheral coldness
 Peripheral ischaemia Peripheral vascular disorder Peritoneal
 adhesions Personality change Personality disorder Petechiae
 Pharyngeal disorder Pharyngeal erythema Pharyngitis
 Phlebitis Phlebitis superficial Phobia Phonological
 disorder Photophobia Photopsia Photosensitivity allergic reaction
 Photosensitivity reaction Pigmentation disorder Pituitary
 tumour benign Plasmacytoma Platelet count decreased
 Pleural disorder Pleural effusion Pleural fibrosis Pleurisy
 Pneumonia Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polyarteritis nodosa
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Postural orthostatic tachycardia syndrome Posture
 abnormal Pre-eclampsia Precocious puberty Premature
 ejaculation Premenstrual syndrome Presyncope Priapism Proctalgia
 Productive cough Prolactinoma Prostate cancer Prostatic
 adenoma Prostatic disorder Prostatitis Protein urine present
 Proteinuria Protrusion tongue Prurigo Pruritus Pruritus
 generalised Pruritus genital Pseudolymphoma Psoriasis Psychiatric
 symptom Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary fibrosis Pulmonary function test decreased
 Pulmonary hypertension Pulmonary oedema Punctate keratitis
 Purpura Pyelonephritis Pyoderma Pyuria Rales Rash
 erythematous Rash generalised Rash macular Rash maculo-
 papular Rash papular Rash pustular Rash vesicular
 Raynaud's phenomenon Rectal cancer Rectal haemorrhage
 Rectal tenesmus Red blood cell count decreased Red blood
 cell sedimentation rate increased Reflux oesophagitis Regressive
 behaviour Regurgitation Renal artery stenosis Renal colic Renal
 cyst Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory acidosis Respiratory alkalosis Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection Respiratory tract infection viral
 Restless legs syndrome Retching Retinal artery occlusion
 Retinal detachment Retinal disorder Retinal haemorrhage
 Retinal vascular disorder Retinitis pigmentosa Retrograde
 ejaculation Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
 Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
 Saliva altered Salivary duct obstruction Salivary gland

disorder Salivary gland enlargement Salivary gland pain
 Salivary hypersecretion Salpingitis Sarcoidosis Sarcoma
 Scab Schizoaffective disorder Schizophrenia
 Schizophreniform disorder Sciatica Scotoma Seasonal
 allergy Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of foreign body Sensation of heaviness
 Sensitisation Sensory disturbance Sensory loss
 Sepsis Septic shock Severe acute respiratory syndrome
 Sexual dysfunction Shock Sialoadenitis Sicca syndrome
 Sick sinus syndrome Sinus arrhythmia Sinus bradycardia Sinus
 congestion Sinus disorder Sinus headache Sinus tachycardia
 Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma
 Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep paralysis Sleep talking Sleep terror
 Sluggishness Small intestinal obstruction Sneezing
 Snoring Social avoidant behaviour Somnambulism
 Somnolence Speech disorder Spinal osteoarthritis Spine
 malformation Splenomegaly Spondylitis Squamous cell
 carcinoma Status epilepticus Stevens-Johnson syndrome
 Sticky skin Stomatitis Stress Stridor Stupor
 Subarachnoid haemorrhage Subcutaneous abscess
 Subcutaneous nodule Subdural haematoma Sudden death
 Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Synovitis Systemic
 lupus erythematosus Tachycardia Tachypnoea Tardive dyskinesia
 Tearfulness Tenderness Tendonitis Tenosynovitis Tension
 Tension headache Terminal insomnia Testicular disorder
 Testicular pain Testicular swelling Tetany Therapeutic
 response decreased Therapeutic response increased Thinking
 abnormal Thirst Thought blocking Throat irritation Throat
 tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thrombotic
 thrombocytopenic purpura Thyroid adenoma Thyroid cancer
 Thyroid neoplasm Thyroiditis Tic Tinnitus Tongue
 discolouration Tongue disorder Tongue dry Tongue oedema
 Tongue paralysis Tongue spasm Tongue ulceration Tonsillar
 hypertrophy Tonsillitis Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Toothache Torsade de pointes
 Torticollis Toxic epidermal necrolysis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
 hernia Unevaluable event Unintended pregnancy Unresponsive to
 stimuli Upper respiratory tract infection Upper-airway cough
 syndrome Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urosepsis Urticaria
 Uterine disorder Uterine haemorrhage Uterine leiomyoma
 Uterine neoplasm Uterovaginal prolapse VIIth nerve paralysis

Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasculitis Vasoconstriction Vasodilation procedure Vasospasm
 Vein disorder Venous thrombosis Ventricular extrasystoles
 Ventricular failure Ventricular fibrillation Ventricular
 hypertrophy Ventricular tachycardia Vertigo Vestibular ataxia
 Vestibular disorder Viral diarrhoea Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vitamin B12 deficiency Vitreous detachment Vitreous disorder
 Vitreous floaters Vocal cord paralysis Vomiting
 Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal bleed Withdrawal hypertension
 Withdrawal syndrome Wound infection Xerophthalmia
 Xerosis Yawning

Sodium-dependent noradrenaline transporter - Group: Transporter

Treated with:

phentermine: illicit, approved small molecule (21 associated
 side effects) For the treatment and management of obesity.

tramadol: approved small molecule (490 associated side
 effects) Indicated in the treatment of moderate to severe pain.
 Consider for those prone to constipation or respiratory depression.
 Tramadol is used to treat postoperative, dental, cancer, and acute
 musculoskeletal pain and as an adjuvant to NSAID therapy in patients
 with osteoarthritis.

guanadrel sulfate: approved small molecule (0 associated
 side effects) Used to treat and control hypertension.

reboxetine: approved small molecule (0 associated side effects)
 For the treatment of clinical depression.

venlafaxine: approved small molecule (507 associated side
 effects) For the management of major depressive disorder (MDD),
 generalized anxiety disorder (GAD), social anxiety disorder (social
 phobia), panic disorder with or without agoraphobia, and vasomotor
 symptoms in women with breast cancer and in postmenopausal women.

atomoxetine: approved small molecule (140 associated side
 effects) For the treatment of Attention-Deficit/Hyperactivity
 Disorder (ADHD) alone or in combination with behavioral treatment,
 as an adjunct to psychological, educational, social, and other
 remedial measures.

amitriptyline: approved small molecule (109 associated side
 effects) For the treatment of depression, chronic pain, irritable
 bowel syndrome, sleep disorders, diabetic neuropathy, agitation and
 insomnia, and migraine prophylaxis.

protriptyline: approved small molecule (92 associated side
 effects) For the treatment of depression.

norepinephrine: approved small molecule (22 associated side
 effects) Mainly used to treat patients in vasodilatory shock
 states such as septic shock and neurogenic shock and has shown a
 survival benefit over dopamine. Also used as a vasopressor
 medication for patients with critical hypotension.

methylphenidate: approved small molecule (262 associated side effects) For use as an integral part of a total treatment program which typically includes other remedial measures (psychological, educational, social) for a stabilizing effect in children with a behavioral syndrome characterized by the following group of developmentally inappropriate symptoms: moderate-to-severe distractibility, short attention span, hyperactivity, emotional lability, and impulsivity.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

duloxetine: approved small molecule (269 associated side effects) For the acute and maintenance treatment of major depressive disorder (MDD), as well as acute management of generalized anxiety disorder. Also used for the management of neuropathic pain associated with diabetic peripheral neuropathy, and fibromyalgia. Has been used in the management of moderate to severe stress urinary incontinence (SUI) in women.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

mazindol: approved small molecule (0 associated side effects)

Used in short-term (a few weeks) treatment of exogenous obesity in conjunction with a regimen of weight reduction based on caloric restriction, exercise, and behavior modification in patients with a body mass index of 30 kg of body weight per height in meters squared (kg/m^2) or in patients with a body mass index of 27 kg/m^2 in the presence of risk factors such as hypertension, diabetes, or hyperlipidemia.

ergotamine: approved small molecule (15 associated side effects)

For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

phenmetrazine: illicit,approved small molecule (0 associated side effects) Used as an anorectic in the treatment of obesity.

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic rhinitis, croup, sinusitis, otitis media, and tracheobronchitis. Also used as first-line therapy of priapism.

cocaine: illicit,approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

diethylpropion: illicit,approved small molecule (62 associated side effects) Used in the management of exogenous obesity as a short-term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction.

sibutramine: illicit,approved,withdrawn small molecule (80 associated side effects) For the treatment of obesity.

chlorpheniramine:approved small molecule (47 associated side effects) For the treatment of rhinitis, urticaria, allergy, common cold, asthma and hay fever.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved,withdrawn small molecule (246 associated side effects) For the treatment of depression.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

bupropion: approved small molecule (441 associated side effects) For the treatment of depression and as aid to smoking cessation.

guanethidine: approved small molecule (0 associated side effects) For the treatment of moderate and severe hypertension, either alone or as an adjunct, and for the treatment of renal hypertension.

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

escitalopram: approved small molecule (0 associated side effects) Labeled indications include major depressive disorder (MDD) and generalized anxiety disorder (GAD). Unlabeled indications

include treatment of mild dementia-associated agitation in nonpsychotic patients.

clomipramine: approved small molecule (349 associated side effects)

ephedra: approved,withdrawn,nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

ginkgo biloba: approved,nutraceutical small molecule (0 associated side effects) Appears to be effective in: alleviating age-related memory impairment in some elderly people with mild to moderate age-related memory or cognitive impairment; improving cognitive function in healthy young to middle-aged people; improving symptoms of Alzheimer's, vascular or mixed dementia; improving damage to the visual field in patients with normal tension glaucoma; decreasing the number of painful attacks in patients with Raynaud's syndrome; and may improve symptoms of vertigo and dizziness in some patients.

mmda: illicit,experimental small molecule (0 associated side effects) MDMA is a recreational drug. It has no current medical uses and is a Schedule I controlled substance in the USA at present.

3,4-methylenedioxymethamphetamine:illicit,experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

dextroamphetamine: illicit,approved small molecule (0 associated side effects) Used to treat attention deficit hyperactivity disorder (ADHD).

phendimetrazine: illicit,approved small molecule (0 associated side effects) Used in the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction.

nomifensine: withdrawn small molecule (0 associated side effects)

amineptine: illicit,withdrawnsmall molecule (0 associated side effects) For the treatment of depression.

debrisoquin: approved small molecule (0 associated side effects) For the treatment of moderate and severe hypertension, either alone or as an adjunct, and for the treatment of renal hypertension.

milnacipran: approved small molecule (110 associated side effects) Milnacipran is used to treat moderate to severe clinical depression and chronic pain.

mianserin: approved small molecule (0 associated side effects) For the treatment of depression.

droxidopa: approved small molecule (0 associated side effects) For treatment of neurogenic orthostatic hypotension (NOH)

associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

desvenlafaxine: approved small molecule (83 associated side effects) Desvenlafaxine is indicated for the treatment of major depressive disorder in adults.

dexamethylphenidate: approved small molecule (262 associated side effects) Dexamethylphenidate is used as a treatment for ADHD, ideally in conjunction with psychological, educational, behavioral or other forms of treatment.

levonordefrin: approved small molecule (0 associated side effects) Used as a topical nasal decongestant and vasoconstrictor in dentistry.

1111 known side effects mediated through drugs targeting this protein:

5q minus syndrome
 Abdominal discomfort Abdominal distension
 Abdominal pain lower Abdominal pain upper Abdominal
 tenderness Abnormal behaviour Abnormal dreams Abnormal faeces
 Abscess Accommodation disorder Acidosis Acne Acute
 coronary syndrome Acute myocardial infarction Adenocarcinoma
 Adjustment disorder Adverse reaction Affect lability
 Ageusia Aggression Agitation Agranulocytosis Akathisia
 Akinesia Alanine aminotransferase decreased Alanine
 aminotransferase increased Albuminuria Alcohol abuse Alcohol
 intolerance Alcohol poisoning Alopecia Altered state of
 consciousness Alveolitis allergic Amblyopia Amenorrhoea
 Amnesia Amyotrophic lateral sclerosis Anaemia
 Anaphylactic shock Anaphylactoid reaction Aneurysm Anger
 Angina pectoris Angina unstable Angioedema Angiopathy Angle
 closure glaucoma Anisocytosis Anorectal disorder Anorgasmia
 Anosmia Antinuclear antibody positive Antisocial
 behaviour Antisocial personality disorder Anuria Anxiety
 Aortic aneurysm Aortic dissection Apathy Aphasia
 Aphthous stomatitis Aplasia Aplastic anaemia Apnoea
 Appendicitis Application site reaction Apraxia
 Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arteritis Arthralgia Arthritis Arthropathy Asocial behaviour
 Aspartate aminotransferase increased Assisted fertilisation
 Asthenia Asthma Ataxia Atelectasis Atrial
 fibrillation Atrial flutter Atrioventricular block
 Atrioventricular block complete Atrioventricular block first
 degree Atrophy Auricular swelling Azoospermia Azotaemia
 Back disorder Back pain Bacteraemia Balanitis Basal cell
 carcinoma Basophilia Benign breast neoplasm Benign neoplasm
 Benign neoplasm of skin Biliary colic Biliary tract
 disorder Bipolar I disorder Bipolar disorder Bladder
 dilatation Bladder pain Bleeding time prolonged Blepharitis
 Blepharospasm Blindness Blister Blood alkaline
 phosphatase increased Blood amylase increased Blood bilirubin
 increased Blood cholesterol increased Blood creatine phosphokinase
 increased Blood creatinine increased Blood glucose abnormal Blood
 glucose increased Blood lactate dehydrogenase increased Blood
 potassium abnormal Blood potassium decreased Blood potassium
 increased Blood pressure diastolic decreased Blood pressure
 fluctuation Blood pressure increased Blood prolactin increased
 Blood sodium increased Blood triglycerides increased Blood
 urea increased Blood uric acid increased Body temperature

decreased Body temperature increased Bone disorder Bone pain
Bradycardia Bradykinesia Brain oedema Breast atrophy
Breast calcifications Breast cancer Breast cyst Breast
discharge Breast disorder Breast engorgement Breast
enlargement Breast feeding Breast neoplasm Breast pain Breast
tenderness Breath odour Bronchitis Bronchospasm Bruxism
Buccoglossal syndrome Bulimia nervosa Bundle branch block
Bundle branch block right Burning sensation Bursitis
Cachexia Calculus urinary Candidiasis Capillary fragility
Cardiac arrest Cardiac death Cardiac disorder Cardiac
failure Cardiac failure congestive Cardiac fibrillation
Cardiac flutter Cardiac murmur Cardiac output decreased
Cardiac valve disease Cardio-respiratory arrest
Cardiomyopathy Cardiovascular disorder Carpal tunnel
syndrome Cataract Catatonia Cellulitis Cerebral arteritis
Cerebral haemorrhage Cerebral ischaemia Cerebrovascular
accident Cerebrovascular disorder Cerumen impaction Cervical
dysplasia Cervicitis Cervix disorder Change of bowel habit
Cheilitis Chest discomfort Chest pain Chills Chloasma
Cholecystitis Cholelithiasis Cholinergic syndrome
Chondropathy Choreoathetosis Chromatopsia Chronic
lymphocytic leukaemia Chronic obstructive pulmonary disease
Circumoral oedema Cognitive disorder Cogwheel rigidity Cold
sweat Colitis Colitis ulcerative Coma Coma hepatic
Completed suicide Confusional state Congenital anomaly
Conjunctival haemorrhage Conjunctival oedema
Conjunctivitis Conjunctivitis infective Connective tissue
disorder Constipation Conversion disorder Convulsion
Coordination abnormal Corneal lesion Coronary artery
disease Coronary artery occlusion Cough Crocodile tears
syndrome Crying Crystal urine Crystalluria Cyanosis
Cystitis Cystitis noninfective Cytolytic hepatitis
Deafness Death Decreased appetite Deep vein thrombosis
Defaecation urgency Deficiency anaemia Dehydration
Delirium Delusion Dementia Dental caries Dependence
Depersonalisation Depressed level of consciousness Depressed
mood Depression suicidal Depressive symptom Derealisation
Dermal cyst Dermatitis atopic Dermatitis bullous Dermatitis
contact Dermatitis exfoliative Dermoid cyst Developmental
delay Diabetes mellitus Diarrhoea Diarrhoea haemorrhagic Diplopia
Discomfort Disorientation Dissociation Disturbance in
attention Disturbance in sexual arousal Diverticulitis
Diverticulum Dizziness Drug abuse Drug dependence Drug
effect decreased Drug eruption Drug hypersensitivity Drug
interaction Drug withdrawal syndrome Dry eye Dry mouth Dry
skin Dry throat Duodenal ulcer Duodenal ulcer haemorrhage
Duodenitis Dysarthria Dysgeusia Dyskinesia Dyslexia
Dyslipidaemia Dysmenorrhoea Dyspareunia Dyspepsia
Dysphagia Dysphonia Dysphoria Dysplasia Dyspnoea
Dystonia Dysuria Ear congestion Ear discomfort Ear
disorder Ear infection Ear pain Ecchymosis Eclampsia
Eczema Effusion Ejaculation delayed Ejaculation
disorder Ejaculation failure Electrocardiogram PR interval
Electrocardiogram QRS complex Electrocardiogram QT
prolonged Electrocardiogram abnormal Electrocardiogram change

Electroencephalogram abnormal Elevated mood Embolism
 Emotional disorder Emotional distress Emphysema
 Encephalopathy Endocrine disorder Endometrial disorder
 Endometrial hyperplasia Endometriosis Energy increased
 Enteritis Enuresis Eosinophil count increased
 Eosinophilia Epicondylitis Epidermal necrosis
 Epididymitis Epigastric discomfort Epilepsy Epistaxis
 Erectile dysfunction Eructation Erysipelas Erythema
 Erythema multiforme Erythema nodosum Euphoric mood
 Eustachian tube disorder Exophthalmos Exostosis
 Extrapyrarnidal disorder Extrasystoles Extravasation
 Eye allergy Eye disorder Eye haemorrhage Eye infection
 Eye pain Eyelid disorder Eyelid ptosis Face oedema
 Faecal incontinence Faecalith Faecaloma Faeces
 discoloured Fasciitis Fasting Fat intolerance Fatigue
 Feeling abnormal Feeling cold Feeling drunk Feeling hot
 Feeling jittery Feeling of despair Female sexual arousal
 disorder Female sexual dysfunction Fibroadenoma of breast
 Fibrocystic breast disease Fibrosis Flank pain Flat affect
 Flatulence Fluid retention Flushing Folliculitis Food
 allergy Frequent bowel movements Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gangrene Gastric dilatation
 Gastric disorder Gastric pH decreased Gastric ulcer
 Gastritis Gastritis viral Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal tract irritation Gastrointestinal ulcer
 Gastrooesophageal reflux disease Generalised oedema
 Genital discharge Genital disorder female Genital disorder
 male Genital pain Genital rash Gingival bleeding Gingival
 hyperplasia Gingival pain Gingival recession Gingivitis
 Glaucoma Globulins increased Glomerulonephritis
 membranous Glossitis Glycosuria Goitre Gout Grand mal
 convulsion Granuloma Gravitational oedema Groin pain Growth
 retardation Gynaecomastia Haematemesis Haematochezia
 Haematocrit decreased Haematocrit increased Haematoma
 Haematuria Haemochromatosis Haemoglobin decreased Haemoglobin
 increased Haemoglobinuria Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhagic disorder Haemorrhoids Hair colour
 changes Hair disorder Hallucination Hallucination,
 auditory Hallucination, tactile Hallucination, visual Hangover
 Headache Hearing impaired Heart rate irregular Heat rash
 Helicobacter infection Hemiparesis Hepatic cirrhosis Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatic steatosis Hepatitis Hepatitis C
 Hepatitis fulminant Hepatobiliary disease Hepatocellular
 injury Hepatosplenomegaly Hernia Herpes simplex
 Herpes virus infection Herpes zoster Hiccups High
 density lipoprotein decreased Hirsutism Homicidal ideation
 Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hyperacusis Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hypercalciuria
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkeratosis

Hyperkinesia Hyperlipidaemia Hypermagnesaemia Hyperpathia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity
 Hypertension Hypertensive crisis Hyperthermia
 Hyperthyroidism Hypertonia Hypertonic bladder
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperventilation Hypervigilance Hypnagogic
 hallucination Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypohidrosis Hypokalaemia Hypokinesia
 Hypomania Hypomenorrhoea Hyponatraemia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypotrichosis Hypoventilation
 Hypovolaemia Hypoxia IIIrd nerve paralysis Ileitis
 Ileus paralytic Ill-defined disorder Illusion Immune
 system disorder Immunoglobulins increased Impaired gastric
 emptying Impaired healing Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Increased
 bronchial secretion Increased tendency to bruise Induration
 Infarction Infection Infection susceptibility increased
 Infertility female Infestation Inflammation Influenza
 Influenza like illness Infrequent bowel movements Ingrowing
 nail Inguinal hernia Initial insomnia Inner ear disorder
 Insomnia Interstitial lung disease Intestinal functional
 disorder Intestinal obstruction Intestinal perforation Intraocular
 pressure increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Jaundice Joint crepitation Joint range of motion decreased
 Joint stiffness Joint swelling Keratitis
 Keratoconjunctivitis sicca Ketosis Labyrinthitis
 Lacrimal disorder Lacrimation decreased Lacrimation increased
 Lactic acidosis Laryngeal disorder Laryngeal oedema
 Laryngitis Laryngospasm Latex allergy Leiomyoma
 Lethargy Leukaemia Leukaemoid reaction Leukocytosis
 Leukoderma Leukopenia Libido decreased Libido increased
 Lichenoid keratosis Lip blister Lip dry Liver disorder
 Liver function test abnormal Liver injury Liver tenderness
 Local reaction Localised infection Localised oedema Loss
 of consciousness Loss of libido Low density lipoprotein increased
 Lower respiratory tract infection Lung adenocarcinoma stage I
 Lung disorder Lymphadenitis Lymphadenopathy Lymphocyte
 count abnormal Lymphocyte count decreased Lymphocyte count
 increased Lymphocytic leukaemia Lymphocytosis Lymphoedema
 Lymphoma Lymphopenia Macular degeneration Maculopathy Major
 depression Malaise Male sexual dysfunction Malignant
 melanoma Mammogram abnormal Mania Mass Mastitis Mediastinal
 disorder Melaena Memory impairment Meningitis Menometrorrhagia
 Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Menstruation delayed Menstruation irregular Mental
 disability Mental disorder Mental retardation Mental status
 changes Metrorrhagia Microcytic anaemia Micturition
 disorder Micturition urgency Middle insomnia Migraine
 Miosis Mitral valve disease Monocyte count increased
 Monocytosis Mood swings Motion sickness Mouth ulceration
 Mucous membrane disorder Multiple myeloma Muscle

contractions involuntary Muscle contracture Muscle relaxant
 therapy Muscle rigidity Muscle spasms Muscle spasticity
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Mutism Myalgia Mydriasis
 Myelitis Myocardial infarction Myocardial ischaemia
 Myoclonus Myopathy Myositis Nail disorder Nasal
 congestion Nasal dryness Nasal oedema Nasopharyngitis
 Nausea Neck pain Necrosis Negativism Neoplasm
 Neoplasm malignant Nephritis Nephrolithiasis Nephropathy
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neurosis Neutropenia Neutrophil count decreased Neutrophil
 count increased Night blindness Night sweats Nightmare
 Nipple pain Nocturia Nodal arrhythmia Nodule
 Normochromic normocytic anaemia Nuchal rigidity Nystagmus
 Obesity Obstruction Ocular hyperaemia Oculogyric crisis
 Oedema mouth Oedema peripheral Oesophageal achalasia
 Oesophageal disorder Oesophageal spasm Oesophageal stenosis
 Oesophagitis Oliguria Onychoclasia Onychomycosis
 Optic neuritis Oral candidiasis Oral pain Orchitis
 noninfective Orgasm abnormal Oropharyngeal discomfort
 Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteopenia Osteoporosis Osteosclerosis
 Otitis externa Otitis media Ovarian cyst Ovarian
 disorder Pain in extremity Pain in jaw Painful erection Pallor
 Palpitations Pancreatitis Pancreatitis acute
 Pancytopenia Panic attack Panic reaction
 Papilloedema Papule Paraesthesia Paraesthesia oral
 Paralysis Paranoia Paresis Parkinsonism Parosmia
 Parotid gland enlargement Parotitis Pathological fracture
 Pelvic infection Pelvic pain Penis disorder Peptic ulcer
 Perineal pain Periodontitis Peripheral coldness
 Peripheral ischaemia Peripheral vascular disorder Peritonitis
 Perseveration Personality change Petechiae Pharyngeal
 disorder Pharyngeal oedema Pharyngitis Pharyngitis streptococcal
 Phlebitis Phobia Photophobia Photopsia Photosensitivity
 reaction Piloerection Plantar fasciitis Plasmacytoma
 Platelet count decreased Pleurisy Pleuritic pain
 Pneumonia Poisoning Pollakiuria Polyarteritis nodosa
 Polycythaemia vera Polyp Polyuria Poor peripheral
 circulation Porphyria Postpartum disorder Pregnancy Premature
 baby Premature delivery Premature ejaculation Premenstrual
 syndrome Pressure of speech Presyncope Priapism Procedural
 pain Proctitis Productive cough Prostate cancer Prostate
 infection Prostatic disorder Prostatism Prostatitis
 Prostatomegaly Protein total decreased Protein urine
 present Proteinuria Prurigo Pruritus Pruritus generalised
 Pruritus genital Psoriasis Psychomotor retardation
 Psychosomatic disease Psychotic disorder Pulmonary
 arterial hypertension Pulmonary congestion Pulmonary embolism
 Pulmonary eosinophilia Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary hypertension Pulmonary oedema
 Pulse absent Pupils unequal Purpura Pyelonephritis

Pyuria Rales Rash Rash erythematous Rash macular Rash
 maculo-papular Rash pustular Raynaud's phenomenon Rectal
 haemorrhage Rectal prolapse Red blood cell abnormality Red blood
 cell count decreased Red blood cell count increased Red blood
 cell sedimentation rate increased Renal cyst Renal failure Renal
 failure acute Renal impairment Renal pain Reproductive tract
 disorder Respiration abnormal Respiratory depression Respiratory
 disorder Respiratory failure Respiratory tract congestion
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal detachment Retinal disorder Retinal
 haemorrhage Retinitis pigmentosa Reversible ischaemic neurological
 deficit Rhabdomyolysis Rheumatoid arthritis Rhinitis
 Rhinitis allergic Rhinitis seasonal Rhinorrhoea Rhonchi
 Rosacea Salivary gland enlargement Salivary
 hypersecretion Salpingitis Scab Schizophrenia Schizophreniform
 disorder Sciatica Scleral haemorrhage Scleritis Scotoma
 Scrotal pain Seasonal allergy Sebaceous gland disorder
 Seborrhoeic dermatitis Sedation Sensation of foreign body
 Sensation of heaviness Sensitisation Sensory disturbance
 Sensory loss Sepsis Serum sickness Sexual
 dysfunction Shock Sialoadenitis Sicca syndrome Sinus arrhythmia
 Sinus bradycardia Sinus congestion Sinus disorder Sinus
 headache Sinus tachycardia Sinusitis Skin atrophy Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin irritation Skin odour
 abnormal Skin striae Skin ulcer Sleep apnoea syndrome Sleep
 disorder Sleep paralysis Sluggishness Small intestinal
 obstruction Sneezing Snoring Social avoidant behaviour
 Somnambulism Somnolence Speech disorder Sputum increased
 Status epilepticus Stevens-Johnson syndrome Sticky skin
 Stomach dilation procedure Stomatitis Strabismus Stress
 Stridor Stupor Sudden cardiac death Sudden death
 Suicidal behaviour Suicidal ideation Suicide attempt
 Supraventricular extrasystoles Supraventricular tachycardia
 Swelling Swelling face Syncope Synovial cyst
 Systemic lupus erythematosus Tachycardia Tardive dyskinesia
 Tearfulness Tenderness Tendinous contracture Tendon disorder
 Tendonitis Tenosynovitis Tension Tension headache
 Teratogenicity Terminal insomnia Testicular disorder
 Testicular pain Testicular swelling Tetany Therapeutic
 response decreased Thinking abnormal Thirst Throat irritation
 Throat tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thyroid neoplasm
 Thyroiditis Tic Tinea infection Tinea pedis Tinnitus
 Tobacco user Tongue discolouration Tongue disorder
 Tongue oedema Tongue ulceration Tonsillitis Tooth abscess
 Tooth disorder Tooth impacted Tooth infection Tooth
 malformation Toothache Torsade de pointes Torticollis Toxic
 epidermal necrolysis Tracheal disorder Tracheitis Transaminases
 increased Tremor Trichotillomania Trismus Type IV
 hypersensitivity reaction Ulcer Ulcer haemorrhage Ulcerative
 keratitis Unintended pregnancy Upper respiratory tract infection
 Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine

analysis abnormal Urine flow decreased Urine odour abnormal Urine output increased Urogenital disorder Urticaria Uterine haemorrhage Uterine inflammation Uterine leiomyoma Uterine neoplasm Uterine spasm Uterovaginal prolapse Uveitis VIIth nerve paralysis Vaginal cyst Vaginal discharge Vaginal haemorrhage Vaginal infection Vaginal inflammation Vaginitis bacterial Varicose vein Vascular headache Vascular insufficiency Vascular purpura Vasculitis Vasculitis necrotising Vasoconstriction Vasodilation procedure Vasospasm Venous insufficiency Venous thrombosis Ventricular extrasystoles Ventricular fibrillation Ventricular tachycardia Vertigo Vestibular disorder Viral diarrhoea Viral infection Vision blurred Visual acuity reduced Visual impairment Vitreous disorder Vitreous floaters Vocal cord disorder Vomiting Vulval disorder Vulvovaginal candidiasis Vulvovaginal discomfort Vulvovaginal dryness Vulvovaginal mycotic infection Waxy flexibility Weight decreased Weight increased Wheezing White blood cell count abnormal White blood cell count increased White blood cell disorder Withdrawal syndrome Wound haemorrhage Wound infection Yawning

C-X-C chemokine receptor type 4 - Group: Receptor

Treated with:

framycetin: approved small molecule (0 associated side effects)

For the treatment of bacterial blepharitis, bacterial conjunctivitis, corneal injuries, corneal ulcers and meibomianitis. For the prophylaxis of ocular infections following foreign body removal

plerixafor: approved small molecule (0 associated side effects)

Used in combination with granulocyte-colony stimulating factor (G-CSF) to mobilize hematopoietic stem cells to the peripheral blood for collection and subsequent autologous transplantation in patients with non-Hodgkin's lymphoma (NHL) and multiple myeloma (MM).

known side effects mediated through drugs targeting this protein:

Cationic amino acid transporter 4 - Group: Transporter

Treated with:

L-lysine: approved, nutraceutical small molecule (0 associated side effects) Supplemental L-lysine has putative anti-herpes simplex virus activity. There is preliminary research suggesting that it may have some anti-osteoporotic activity.

L-arginine: approved, nutraceutical small molecule (20 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

L-ornithine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance. It has been claimed that ornithine improves athletic performance, has anabolic effects, has wound-healing effects, and is immuno-enhancing.

20 known side effects mediated through drugs targeting this protein:
 Anaphylactic shock Cyanosis Dermatitis Extravasation
 Flushing Haematuria Headache Hypersensitivity
 Hypoaesthesia Nausea Necrosis Platelet count
 decreased Rash Rash macular Sensory loss Skin exfoliation
 Skin necrosis Surgery Swelling Vomiting

Gonadotropin-releasing hormone receptor - Group: Receptor

Treated with:

leuprolide: approved biotech (0 associated side effects) For treatment of prostate cancer, endometriosis, uterine fibroids and premature puberty

goserelin: approved small molecule (0 associated side effects)
 Used to treat hormone-sensitive cancers of the breast (in pre- and peri- menopausal women) and prostate, and some benign gynaecological disorders (endometriosis, uterine fibroids and endometrial thinning). In addition, goserelin is used in assisted reproduction and in the treatment of precocious puberty.

cetorelix: approved small molecule (30 associated side effects)

For the inhibition of premature LH surges in women undergoing controlled ovarian stimulation

abarelix: approved, withdrawn biotech (1 associated side effects) For palliative treatment of advanced prostate cancer.

gonadorelin: approved small molecule (0 associated side effects) For evaluating the functional capacity and response of the gonadotropes of the anterior pituitary also for evaluating residual gonadotropic function of the pituitary following removal of a pituitary tumor by surgery and/or irradiation.

nafarelin: approved small molecule (0 associated side effects)

For treatment of central precocious puberty (true precocious puberty, GnRH-dependent precocious precocity, complete isosexual precocity) in children of both sexes and for the treatment of endometriosis.

danazol: approved small molecule (89 associated side effects)

For the treatment of endometriosis and fibrocystic breast disease (in patients unresponsive to simple measures). Also used for the prophylactic treatment of all types of hereditary angioedema in males and females.

degarelix: approved small molecule (32 associated side effects)

Degaralix is used for the management of advanced prostate cancer. Its action ultimately results in a reduction in circulating androgens, which provides a therapeutic benefit by reducing the growth stimulus used by hormone-sensitive malignant prostate tissue.

buserelin: approved biotech (0 associated side effects)

131 known side effects mediated through drugs targeting this protein:

Acne Acute coronary syndrome Adenoma benign Affect lability
 Alopecia Amenorrhoea Anaphylactic shock Anaphylactoid
 reaction Anencephaly Anxiety Arthralgia Ascites Assisted
 fertilisation Asthenia Atrophy Back pain Benign
 intracranial hypertension Blood insulin increased Body
 temperature increased Bone density decreased Breast discharge
 Cardiac septal defect Carpal tunnel syndrome Cataract

Chills Congenital anomaly Constipation Convulsion
 Dermatitis Developmental delay Developmental glaucoma
 Diaphragmatic hernia Diarrhoea Dizziness Dysphonia
 Eosinophilia Erectile dysfunction Erythema Erythema
 multifforme Fatigue Fluid retention Flushing Gastroenteritis
 Gingival bleeding Glaucoma Gynaecomastia Haematuria
 Haemoglobin Haemorrhage Headache Hepatic adenoma Hepatic
 function abnormal Hepatic neoplasm Hernia Hirsutism Hot flush
 Hyperhidrosis Hyperinsulinism Hypersensitivity
 Hypertension Hypertrophy Hypovolaemia Imperforate hymen
 Induration Infarction Infection Injection site reaction
 Insomnia Interstitial lung disease Intracranial pressure
 increased Jaundice Jaundice cholestatic Joint swelling
 Klinefelter's syndrome Laboratory test abnormal
 Leukocytosis Leukopenia Loss of consciousness Melanocytic
 naevus Menopausal symptoms Metrorrhagia Mood swings
 Muscle spasms Musculoskeletal discomfort Myocardial
 infarction Nasal congestion Nausea Neoplasm Nervousness Night
 sweats Nodule Oedema Oliguria Oropharyngeal
 discomfort Oropharyngeal pain Ovarian hyperstimulation syndrome
 Pain Palpitations Pancreatitis Paraesthesia
 Peliosis hepatis Pelvic pain Photosensitivity reaction
 Pneumonia Polycythaemia Pruritus Purpura Rash
 Seborrhoeic dermatitis Shock Sleep disorder Stillbirth
 Strabismus Supernumerary nipple Swelling Syncope
 Tachycardia Tension Testicular atrophy Thrombocytopenia
 Tremor Trisomy 18 Trisomy 21 Urinary tract infection
 Urticaria Vascular purpura Ventricular septal defect
 Visual impairment Vomiting Vulvovaginal dryness Weight

increased

Voltage-dependent T-type calcium channel subunit alpha-1I - Group:
Channel

Treated with:

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

paramethadione: approved small molecule (0 associated side effects) Used for the control of absence (petit mal) seizures that are refractory to treatment with other medications.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

mibefradil: withdrawn small molecule (0 associated side effects) For the treatment of angina and high blood pressure.

flunarizine: approved small molecule (0 associated side effects) Used in the prophylaxis of migraine, occlusive peripheral vascular disease, vertigo of central and peripheral origin, and as an adjuvant in the therapy of epilepsy.

246 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Acne Acute coronary syndrome Agitation Alanine aminotransferase increased Albuminuria Alopecia Amblyopia Amenorrhoea Anaemia Anaphylactic shock Angioedema Anxiety Apnoea Arthralgia Arthritis Aspartate aminotransferase increased Asthenia Ataxia Atrial fibrillation Atrioventricular block Atrioventricular block complete Atrioventricular dissociation Balance disorder Bladder pain Blindness Blood lactate dehydrogenase increased Blood prolactin increased Bradycardia Bronchospasm Calculus bladder Cardiac failure Cardiac fibrillation Cardiomyopathy Cerebrovascular accident Chest pain Cholangitis Cholecystitis Cholelithiasis Cholestasis Cognitive disorder Colitis Confusional state Conjunctivitis Constipation Convulsion Coordination abnormal Cough Deafness Decreased appetite Dehydration Depressed level of consciousness Depressive symptom Dermatitis Dermatitis bullous Diarrhoea Diplopia Discomfort Dissociation Disturbance in sexual arousal Dizziness Dry mouth Dry skin Duodenal ulcer Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis Eczema Electrocardiogram abnormal Embolism Encephalopathy Enuresis Erectile dysfunction Erythema Erythema multiforme Euphoric mood Extrapyrarnidal disorder Extrasystoles Face oedema Faecal incontinence Fatigue Feeling abnormal Feeling cold Flank pain Flatulence Flushing Gait disturbance Galactorrhoea Gastritis Gastroenteritis Gastrointestinal pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma Glossitis Gynaecomastia Haematemesis Haematuria Haemoglobin Haemoptysis Haemorrhage Headache Hepatic enzyme increased Hepatitis Hirsutism Hyperaesthesia Hyperhidrosis Hyperkeratosis Hyperkinesia Hyperplasia Hyperprolactinaemia Hyperreflexia Hypersensitivity Hypertension Hypertonia Hypertrophic cardiomyopathy Hypertrophy Hypoaesthesia Hypoglycaemia Hypokinesia Hyponatraemia Hypotension Hypotonia Ileus paralytic Ill-defined disorder Immunodeficiency Incontinence Infection Influenza Insomnia Intermittent claudication Iritis Irritability Jaundice Jaundice cholestatic Joint swelling Laryngospasm Lethargy Leukopenia Libido decreased Loss of consciousness Lymphadenopathy Macule Malaise Mastitis Melaena Menorrhagia Microcytic anaemia Micturition urgency Mouth ulceration Movement disorder Muscle fatigue Muscle relaxant therapy Muscle rigidity Muscle spasms Muscle twitching Muscular weakness Musculoskeletal discomfort Musculoskeletal stiffness Myalgia Myocardial infarction Myoclonus Nausea Nervousness Neuritis Neuropathy peripheral Nocturia Nuchal rigidity Nystagmus Oculogyric crisis Oedema Oedema peripheral Oesophagitis Oligomenorrhoea Orthostatic hypotension Osteoarthritis Pain Palpitations Paraesthesia Paraesthesia oral Paralysis Parosmia Petechiae Pharyngitis

Photophobia Pollakiuria Polyuria Pruritus Psychotic
 disorder Pulmonary embolism Pulmonary oedema Purpura
 Quadriparesis Rash Rash maculo-papular Rash pustular
 Rectal haemorrhage Respiratory failure Respiratory tract
 infection Rhinitis Scotoma Sensory loss Shock Sinus
 arrest Sinusitis Sleep disorder Somnolence Speech disorder
 Stomatitis Syncope Systemic lupus erythematosus Tachycardia
 Tension Thirst Thrombocytopenia Thrombophlebitis
 Tinnitus Tremor Ulcer Upper respiratory tract infection
 Urinary incontinence Urinary retention Urine output increased
 Urticaria VIIth nerve paralysis Vascular insufficiency
 Vascular purpura Vasculitis Ventricular extrasystoles
 Vertigo Vision blurred Visual acuity reduced Visual
 impairment Vomiting Weight decreased Weight increased

Scavenger receptor class B member 1 - Group: Receptor

Treated with:

phosphatidylserine: approved, nutraceutical small molecule (0
 associated side effects) Phosphatidylserine has demonstrated
 some usefulness in treating cognitive impairment, including
 Alzheimer's disease, age-associated memory impairment and some non-
 Alzheimer's dementias. More research is needed before
 phosphatidylserine can be indicated for immune enhancement or for
 reduction of exercise stress.

known side effects mediated through drugs targeting this protein:

Probable outer membrane protein - Group: Other

Treated with:

(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
 molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Prostacyclin receptor - Group: Receptor

Treated with:

treprostinil: approved small molecule (92 associated side
 effects) For use as a continuous subcutaneous infusion or
 intravenous infusion (for those not able to tolerate a subcutaneous
 infusion) for the treatment of pulmonary arterial hypertension in
 patients with NYHA Class II-IV symptoms to diminish symptoms
 associated with exercise.

iloprost: approved small molecule (46 associated side effects)
 Used for the treatment of pulmonary arterial hypertension.

dinoprost tromethamine: approved small molecule (0
 associated side effects) Used for aborting second-trimester
 pregnancy (between the twelfth to eighteenth week of gestation) and
 in incomplete abortion or for therapeutic abortion in cases of
 intrauterine fetal death and congenital abnormalities incompatible
 with life. Also used at low-doses for medically indicated induction

of labor at term. Also injected intra-arterially for use as a vasodilator to assist in angiography.

epoprostenol: approved small molecule (0 associated side effects) For the long-term intravenous treatment of primary pulmonary hypertension and pulmonary hypertension associated with the scleroderma spectrum of disease in NYHA Class III and Class IV patients who do not respond adequately to conventional therapy.

104 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaemia Anxiety Arthralgia Asthenia Back pain
Blood alkaline phosphatase increased Blood culture positive
Body temperature increased Bone pain Bradycardia Bronchitis
Bronchospasm Cardiac failure Cardiac failure congestive
Cellulitis Chest pain Cough Decreased appetite Dehydration
Dermatitis Diarrhoea Discomfort Disease progression
Dizziness Dysgeusia Dyspepsia Dyspnoea Ecchymosis
Embolism Epistaxis Erythema Fatigue Feeling abnormal
Flushing Gamma-glutamyltransferase increased
Gastrointestinal pain Gingival bleeding Glossitis Glossodynia
Gout Haematoma Haematuria Haemoglobin Haemoptysis Haemorrhage
Headache Hypersensitivity Hypokalaemia Hypotension
Hypoxia Ill-defined disorder Induration Influenza
Infusion site reaction Insomnia Laboratory test abnormal
Loss of consciousness Malaise Melaena Muscle spasms
Musculoskeletal discomfort Myalgia Nausea Neck pain
Nervousness Oedema Oedema peripheral Oropharyngeal pain
Pain Pain in extremity Pain in jaw Pallor Palpitations
Paraesthesia Pharyngitis Pneumonia Pruritus Pseudomonal
sepsis Pseudomonas infection Pulmonary embolism Pulmonary
hypertension Rash Rectal haemorrhage Renal failure
Rhinitis Sepsis Shock Sinusitis Supraventricular
tachycardia Swelling Syncope Tachycardia Tension Throat
irritation Thrombocytopenia Thrombophlebitis Thrombosis Trismus
Urinary tract infection Vasodilation procedure Viral
infection Vomiting Wheezing

Ferripyoverdine receptor - Group: Transporter

Treated with:

pyoverdine-chromophore: experimental small molecule (0 associated side effects)
3,6,9,12,15-pentaoxatricosan-1-ol: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Glutamate receptor, ionotropic kainate 1 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers;

gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

topiramate: approved small molecule (365 associated side effects) Used for the treatment and control of partial seizures and severe tonic-clonic (grand mal) seizures and also for the prevention of migraine headaches. In children it is also used for treatment of Lennox-Gastaut syndrome.

365 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Acidosis Acne Affect
labiality Ageusia Aggression Agitation Agranulocytosis
Alanine aminotransferase increased Albuminuria Alcohol
intolerance Alopecia Amblyopia Amenorrhoea Amnesia Anaemia
Angina pectoris Angiopathy Angle closure glaucoma Anxiety
Apathy Apraxia Arrhythmia Arthralgia Arthropathy
Aspartate aminotransferase increased Asthenia Asthma
Ataxia Atrioventricular block Autonomic neuropathy Back
pain Basal cell carcinoma Bipolar I disorder Bipolar disorder
Bladder disorder Bladder pain Blindness Blister Blood
alkaline phosphatase increased Blood creatinine increased Body
temperature decreased Body temperature increased Bone pain
Bradycardia Breast discharge Breast disorder female Breast pain
Breath odour Bronchitis Bronchospasm Bundle branch
block Candidiasis Cardiac fibrillation Cardiovascular disorder
Cataract Cerebellar syndrome Chest pain Chills
Chloasma Coagulopathy Cognitive disorder Collagen
disorder Colour blindness Coma Completed suicide Confusional state
Congenital eye disorder Conjunctivitis Connective tissue
disorder Constipation Convulsion Coordination abnormal Cough
Cystitis Cystitis noninfective Deafness Death Decreased
appetite Deep vein thrombosis Dehydration Delirium Delusion
Dental caries Depersonalisation Depressed level of
consciousness Depression Dermatitis bullous Diabetes mellitus
Diabetic neuropathy Diarrhoea Diplopia Discomfort
Disturbance in attention Disturbance in sexual arousal
Dizziness Drug interaction Drug withdrawal syndrome Dry
mouth Dry skin Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
Dysphagia Dysphonia Dyspnoea Dystonia Dysuria Ear
infection Ear pain Eczema Ejaculation disorder
Electroencephalogram abnormal Embolism Emotional
disorder Encephalopathy Endocrine disorder Eosinophilia
Epidermodysplasia verruciformis Epistaxis Erectile
dysfunction Eructation Erythema multiforme Euphoric mood
Expressive language disorder Eye disorder Eye pain
Eyelid ptosis Face oedema Faecal incontinence Fatigue
Feeling abnormal Flat affect Flatulence Flushing
Folliculitis Gait disturbance Gallbladder disorder
Gastritis Gastroenteritis Gastrointestinal disorder
Gastrointestinal pain Gastroesophageal reflux disease
Genital candidiasis Genital discharge Gingival bleeding
Gingival hyperplasia Gingivitis Glaucoma Glossitis
Goitre Grand mal convulsion Haematoma Haematuria
Haemoglobin Haemorrhage Haemorrhoids Hair texture abnormal
Hallucination Hearing impaired Hepatic enzyme increased

Hepatic failure Hepatitis Hiccups Hormone level abnormal
 Hot flush Hyperacusis Hyperaesthesia Hyperammonaemia
 Hyperchloraemia Hyperglycaemia Hyperhidrosis
 Hyperkinesia Hyperlipidaemia Hypernatraemia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension
 Hyperthermia Hypertonia Hypertrichosis Hypoaesthesia
 Hypocalcaemia Hypocholesterolaemia Hypoglycaemia
 Hypohidrosis Hypokalaemia Hypokinesia Hyponatraemia
 Hypophosphataemia Hyporeflexia Hypotension Hypothermia Ill-
 defined disorder Incontinence Increased appetite Infection
 Influenza Insomnia Iritis Lacrimal disorder Lacrimation
 increased Laryngospasm Leukopenia Libido decreased Libido
 increased Loss of consciousness Lymphadenopathy Lymphocytosis
 Lymphopenia Maculopathy Malaise Mania Mastitis Melaena
 Memory impairment Menopausal symptoms Menorrhagia Menstrual
 disorder Mental disability Mental disorder Metabolic acidosis
 Metrorrhagia Migraine Mood swings Mouth ulceration
 Muscle contractions involuntary Muscle spasms Muscular
 weakness Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Myalgia Mydriasis Myopia Nail
 disorder Nausea Neoplasm Neoplasm malignant
 Nephrolithiasis Nervous system disorder Nervousness
 Neuropathy peripheral Neurosis Neutropenia Nocturia
 Nystagmus Obesity Oedema peripheral Oesophagitis
 Oliguria Orthostatic hypotension Osteoarthritis
 Osteoarthropathy Osteoporosis Otitis media Pain Pain
 in extremity Pallor Palpitations Pancreatitis
 Pancytopenia Paraesthesia Paralysis Paranoia
 Parosmia Pemphigus Personality disorder Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction Pneumonia
 Pollakiuria Polycythaemia Polyuria Premature ejaculation
 Prostatic disorder Prothrombin level increased Pruritus
 Psychotic disorder Pulmonary embolism Purpura Rash
 Rash erythematous Rash maculo-papular Renal pain Renal
 tubular acidosis Renal tubular disorder Respiratory disorder
 Respiratory tract infection Rhinitis Road traffic accident
 Salivary hypersecretion Scotoma Seborrhoeic dermatitis
 Sedation Sensory disturbance Shock Sinusitis Skin
 discolouration Skin disorder Skin odour abnormal Sleep
 disorder Somnolence Speech disorder Stomatitis Strabismus
 Stupor Sudden death Suicidal behaviour Suicidal
 ideation Suicide attempt Syncope Tachycardia Temperature
 intolerance Tension Testicular disorder Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombosis
 Thyroid disorder Tinnitus Tongue disorder Tongue oedema
 Tongue paralysis Tooth disorder Toothache Toxic epidermal
 necrolysis Tremor Ulcer Unintended pregnancy Upper motor
 neurone lesion Upper respiratory tract infection Urethral disorder
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Urine abnormality Urine analysis
 abnormal Urine output increased Urticaria Uterovaginal prolapse
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Vascular purpura Vasodilation procedure Vasospasm Venous
 thrombosis Vertigo Viral infection Vision blurred Visual

acuity reduced Visual impairment Vomiting Weight decreased
Weight increased Xerophthalmia

Potassium voltage-gated channel subfamily H member 2 - Group:
Channel

Treated with:

dofetilide: approved small molecule (59 associated side effects)

For the maintenance of normal sinus rhythm (delay in time to recurrence of atrial fibrillation/atrial flutter [AF/AFL]) in patients with atrial fibrillation/atrial flutter of greater than one week duration who have been converted to normal sinus rhythm

amsacrine: approved small molecule (110 associated side effects) For treatment of acute myeloid leukaemia.

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or atrial flutter of recent onset to sinus rhythm.

terfenadine: approved, withdrawn small molecule (0 associated side effects) For the treatment of allergic rhinitis, hay fever, and allergic skin disorders.

prazosin: approved small molecule (93 associated side effects)

For treatment of hypertension, symptomatic benign prostatic hyperplasia, and severe congestive heart failure. May also be used alone or in combination with β -blockers in the preoperative management of signs and symptoms of pheochromocytoma.

sotalol: approved small molecule (99 associated side effects)

For the maintenance of normal sinus rhythm [delay in time to recurrence of atrial fibrillation/atrial flutter (AFIB/AFL)] in patients with symptomatic AFIB/AFL who are currently in sinus rhythm. Also for the treatment of documented life-threatening ventricular arrhythmias.

doxazosin: approved small molecule (243 associated side effects) For treatment and management of mild to moderate hypertension and urinary obstruction symptoms caused by BPH.

cisapride: approved, withdrawn small molecule (0 associated side effects) For the symptomatic treatment of adult patients with nocturnal heartburn due to gastroesophageal reflux disease.

astemizole: approved, withdrawn small molecule (0 associated side effects) Astemizole was indicated for use in the relieving allergy symptoms, particularly rhinitis and conjunctivitis. It has been withdrawn from the market however due to concerns of arrhythmias.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

thioridazine: approved small molecule (92 associated side effects) For the treatment of schizophrenia and generalized anxiety disorder.

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

pimozide: approved small molecule (68 associated side effects)

Used for the suppression of motor and phonic tics in patients with Tourette's Disorder who have failed to respond satisfactorily to standard treatment.

miconazole: approved small molecule (33 associated side effects)
 For topical application in the treatment of tinea pedis (athlete's foot), tinea cruris, and tinea corporis caused by *Trichophyton rubrum*, *Trichophyton mentagrophytes*, and *Epidermophyton floccosum*, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.

amiodarone: approved small molecule (192 associated side effects) Intravenously, for initiation of treatment and prophylaxis of frequently recurring ventricular fibrillation and hemodynamically unstable ventricular tachycardia in patients refractory to other therapy. Orally, for the treatment of life-threatening recurrent ventricular arrhythmias such as recurrent ventricular fibrillation and recurrent hemodynamically unstable ventricular tachycardia.

carvedilol: approved small molecule (198 associated side effects) For the treatment of mild or moderate (NYHA class II or III) heart failure of ischemic or cardiomyopathic origin.

terazosin: approved small molecule (115 associated side effects) For the treatment of symptomatic BPH and mild to moderate hypertension.

propafenone: approved small molecule (283 associated side effects) Used to prolong the time to recurrence of paroxysmal atrial fibrillation/flutter (PAF) associated with disabling symptoms in patients without structural heart disease. Also used for the treatment of life-threatening documented ventricular arrhythmias, such as sustained ventricular tachycardia.

halofantrine: approved small molecule (62 associated side effects) For treatment of Severe malaria

sertindole: approved, withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

685 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal dreams Abscess Acute coronary syndrome Acute
 interstitial pneumonitis Acute myocardial infarction Acute
 respiratory distress syndrome Affect lability Aggression
 Agitation Agranulocytosis Akathisia Akinesia Alanine
 aminotransferase increased Albuminuria Alkalosis Alopecia
 Altered state of consciousness Alveolitis fibrosing
 Amblyopia Amenorrhoea Amnesia Anaemia Anaphylactic
 shock Anaphylactoid reaction Aneurysm Angina pectoris Angina
 unstable Angioedema Angiopathy Anorectal discomfort Anoxia
 Antinuclear antibody positive Anxiety Aortic dissection
 Apathy Aphasia Aplasia Aplastic anaemia Apnoea
 Appetite disorder Arrhythmia supraventricular Arterial disorder
 Arterial stenosis Arterial thrombosis Arthralgia Arthritis
 Arthropathy Aspartate aminotransferase increased Asthenia
 Asthma Ataxia Atelectasis Atrial fibrillation
 Atrial hypertrophy Atrial tachycardia Atrioventricular
 block Atrioventricular block complete Atrioventricular block first
 degree Atrioventricular block second degree Atrioventricular
 dissociation Autonomic nervous system imbalance Azotaemia Back
 pain Balance disorder Benign intracranial hypertension Bladder

pain Bleeding time prolonged Blindness Blood alkaline
 phosphatase increased Blood bilirubin increased Blood creatine
 phosphokinase increased Blood creatinine increased Blood
 disorder Blood glucose increased Blood insulin increased
 Blood pressure increased Blood prolactin increased Blood
 triglycerides increased Blood urea increased Blood uric acid
 increased Body temperature decreased Body temperature increased
 Bone disorder Bradycardia Bradykinesia Breast disorder
 Breast engorgement Breast feeding Breast neoplasm
 Breast pain Breath odour Breath sounds abnormal
 Bronchiolitis Bronchitis Bronchospasm Bundle branch
 block Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cardiac arrest Cardiac disorder
 Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac murmur Cardioactive drug level
 Cardiogenic shock Cardiomegaly Cardiomyopathy
 Cardiovascular disorder Carotid bruit Cataract
 Catatonia Cell death Cellulitis Cerebral ischaemia
 Cerebrovascular accident Cerebrovascular disorder Chest
 pain Chills Cholelithiasis Cholestasis Choreoathetosis
 Chronic obstructive pulmonary disease Coagulopathy
 Cognitive disorder Cogwheel rigidity Colitis ischaemic
 Collagen-vascular disease Coma Completed suicide Conduction
 disorder Confusional state Congenital cardiovascular anomaly
 Congenital eye disorder Conjunctival disorder
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coordination abnormal Corneal degeneration
 Corneal deposits Coronary artery disease Costochondritis
 Cough Crocodile tears syndrome Cutaneous vasculitis
 Cystitis Cystitis noninfective Cytolytic hepatitis
 Deafness Death Decreased appetite Dehydration Delirium
 Dementia Demyelinating polyneuropathy Depersonalisation
 Depressed level of consciousness Depression Depressive
 symptom Dermatitis Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Dermatitis psoriasiform Device
 capturing issue Diabetes mellitus Diarrhoea Diplopia Disability
 Discomfort Disorientation Disseminated intravascular
 coagulation Dissociation Disturbance in attention Disturbance
 in sexual arousal Diverticulitis Dizziness Dizziness postural
 Drug eruption Drug interaction Drug level increased Dry
 eye Dry mouth Dry skin Dry throat Duodenitis Dysgeusia
 Dyskinesia Dyspepsia Dysphagia Dyspnoea Dystonia
 Dysuria Ear infection Ear pain Ecchymosis Eczema
 Effusion Ejaculation failure Elderly Electrocardiogram
 QT prolonged Electrocardiogram abnormal Electrocardiogram
 change Electrocardiogram normal Embolism Embolism arterial
 Emotional disorder Encephalopathy Endocrine disorder
 Eosinophil count increased Eosinophilia Eosinophilic
 pneumonia Epididymitis Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Extrapyrarnidal
 disorder Extrasystoles Extravasation Eye disorder Eye
 haemorrhage Eye inflammation Eye irritation Eye pain Eyelid
 ptosis Face oedema Faecal incontinence Fasting Fatigue
 Febrile neutropenia Feeling abnormal Feeling cold
 Feeling hot Fibrosis Flat affect Flatulence Floppy iris

syndrome Fluid imbalance Fluid overload Fluid retention
 Flushing Foetor hepaticus Fungal infection Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gastric ulcer Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital burning sensation
 Genital discharge Gingival bleeding Gingival hyperplasia
 Gingival pain Gingivitis Glossitis Glossodynia Glycosuria
 Goitre Gout Grand mal convulsion Granulomatous liver
 disease Gravitational oedema Gynaecomastia Haematemesis
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemolytic uraemic syndrome Haemoptysis Haemorrhage
 Hallucination Headache Hearing impaired Heart rate
 irregular Heart sounds abnormal Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatitis
 Hepatitis cholestatic Hepatitis fulminant Hepatobiliary
 disease Hepatocellular injury Hepatomegaly Hernia
 Herpes simplex Herpes virus infection Herpes zoster High
 density lipoprotein decreased Hormone level abnormal Hot flush
 Hyperaemia Hyperbilirubinaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlactacidaemia Hyperlipidaemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypertension Hypertensive crisis
 Hyperthyroidism Hypertonia Hypertriglyceridaemia
 Hypertrophic cardiomyopathy Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypoglycaemia
 Hypokalaemia Hypokinesia Hypomagnesaemia Hyponatraemia
 Hypophosphataemia Hypoprothrombinaemia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypovolaemia Hypoxia
 Idiopathic pulmonary fibrosis Idiopathic thrombocytopenic
 purpura Ileus paralytic Ill-defined disorder Immune system
 disorder Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased tendency to
 bruise Infarction Infection Infestation Inflammation
 Influenza Influenza like illness Injection site inflammation
 Injection site reaction Insomnia Intermittent
 claudication Interstitial lung disease Intestinal obstruction
 Ischaemia Ischaemic cardiomyopathy Jaundice Joint
 swelling Ketonuria Lacrimation increased Laryngeal oedema
 Laryngospasm Lens disorder Lenticular opacities
 Lethargy Leukocytosis Leukopenia Libido decreased
 Lichen planus Liver disorder Liver function test abnormal
 Liver injury Loss of consciousness Lung disorder Lung
 infiltration Lung neoplasm malignant Lymphadenopathy
 Lymphoma Macular degeneration Macule Malaise Mania
 Mass Mediastinal disorder Melaena Menopausal symptoms
 Menopause Menstruation irregular Mental disability Mental
 disorder Mesenteric artery thrombosis Micturition disorder
 Migraine Miosis Monocyte count increased Mood swings
 Mouth ulceration Movement disorder Mucosal inflammation
 Mucous membrane disorder Muscle fatigue Muscle relaxant

therapy Muscle rigidity Muscle spasms Muscle twitching
Muscular weakness Musculoskeletal discomfort Musculoskeletal
pain Myalgia Mydriasis Myocardial infarction Myocardial
ischaemia Myopathy Myopia Nail disorder Narcolepsy Nasal
congestion Nasopharyngitis Nausea Neck pain Necrosis
Neoplasm malignant Nephritis Nephrolithiasis Nephrotic
syndrome Nervous system disorder Nervousness Neuralgia
Neuritis Neuroleptic malignant syndrome Neuropathy
peripheral Neurosis Neutropenia Night blindness Nightmare
Nocturia Nodal arrhythmia Nodule Nuchal rigidity
Nystagmus Obliterative bronchiolitis Obstruction Oculogyric
crisis Oculomucocutaneous syndrome Oedema Oedema peripheral
Oesophagitis Oligomenorrhoea Oliguria Onycholysis
Opisthotonus Optic nerve disorder Optic neuritis
Organising pneumonia Oropharyngeal discomfort
Oropharyngeal pain Orthostatic hypotension
Osteoarthritis Otitis media Pain Pain in extremity Pain
in jaw Pain of skin Pallor Palpitations Pancreatic
disorder Pancreatitis Pancytopenia Papilloedema
Paraesthesia Paralysis flaccid Paresis Parkinsonism
Parosmia Parotid gland enlargement Pelvic pain Peptic
ulcer Pericarditis Perineal pain Periodontitis Peripheral
coldness Peripheral embolism Peripheral ischaemia Peripheral
vascular disorder Perirectal abscess Petechiae Pharyngitis
Phlebitis Photodermatosis Photophobia Photosensitivity
reaction Pigmentation disorder Plasmodium falciparum infection
Platelet count decreased Platelet disorder Pleural disorder
Pleural effusion Pleurisy Pneumonia Pollakiuria Polymyalgia
rheumatica Polyneuropathy Polyserositis Polyuria Pregnancy
test false positive Pregnancy test positive Presyncope
Priapism Proctalgia Prostatic disorder Prostatism
Protein urine present Proteinuria Prothrombin level decreased
Prothrombin level increased Protrusion tongue Pruritus
Pruritus genital Psoriasis Psychotic disorder Pulmonary
congestion Pulmonary fibrosis Pulmonary oedema Pulmonary
toxicity Pulse abnormal Pulse absent Pulseless electrical
activity Purpura Pustular psoriasis Pyuria
Quadripareisis Rales Rash Rash erythematous Rash maculo-
papular Rash papular Raynaud's phenomenon Rectal
haemorrhage Rectal tenesmus Red blood cell count decreased Renal
artery stenosis Renal failure Renal failure acute Renal
impairment Renal pain Respiratory alkalosis Respiratory disorder
Respiratory distress Respiratory failure Respiratory tract
congestion Respiratory tract infection Retinal disorder Retrograde
ejaculation Rhabdomyolysis Rhinitis Rhythm idioventricular
Salivary hypersecretion Sciatica Scleral disorder
Scotoma Seborrhoeic dermatitis Semen analysis abnormal
Sensory loss Sepsis Sexual dysfunction Shock Sicca
syndrome Sick sinus syndrome Sinoatrial block Sinus arrest
Sinus arrhythmia Sinus bradycardia Sinus congestion Sinus
tachycardia Sinusitis Skin cancer Skin discolouration Skin
disorder Skin exfoliation Skin hypertrophy Skin necrosis Sleep
disorder Social avoidant behaviour Somnolence Speech disorder
Spleen disorder Stomatitis Subarachnoid haemorrhage
Sudden death Sudden visual loss Supraventricular

extrasystoles Supraventricular tachycardia Swelling Syncope
 Systemic lupus erythematosus Tachyarrhythmia Tachycardia
 Tardive dyskinesia Tenderness Tendon disorder Tendonitis
 Tension Tetany Thinking abnormal Thirst Thought
 blocking Throat tightness Thrombocytopenia Thrombocytopenic
 purpura Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid cancer Thyroid disorder Thyroid neoplasm
 Tinnitus Tongue disorder Tooth disorder Tooth hypoplasia
 Torsade de pointes Torticollis Toxic epidermal necrolysis
 Tracheobronchitis Tremor Trismus Tubulointerstitial
 nephritis Ulcer Upper respiratory tract infection Ureteric
 obstruction Urethral disorder Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output Urine
 output increased Urogenital disorder Urticaria Uterovaginal
 prolapse Uveitis VIIIth nerve paralysis Vaginal discharge
 Vascular purpura Vascular resistance systemic Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular fibrillation
 Ventricular hypertrophy Ventricular tachycardia
 Vertigo Viral infection Vision blurred Visual acuity
 reduced Visual impairment Vomiting Vulvovaginal discomfort
 Vulvovaginal erythema Weight decreased Weight increased
 Wheezing White blood cell count increased

fMet-Leu-Phe receptor - Group: Receptor

Treated with:

nedocromil: approved small molecule (44 associated side effects)
 For the treatment of mild to moderate asthma

44 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Arthritis Asthenia Body
 temperature increased Bronchitis Chest pain Cough Dermatitis
 Diarrhoea Dizziness Dyspepsia Dyspnoea Eosinophilia
 Erythema Fatigue Feeling abnormal Feeling hot
 Gastrointestinal pain Headache Increased bronchial
 secretion Infection Leukopenia Loeffler's syndrome Malaise
 Nasal congestion Nausea Neutropenia Ocular hyperaemia Pain
 Pharyngitis Photophobia Pneumonia Pulmonary eosinophilia Rash
 Respiratory disorder Respiratory tract infection Rhinitis
 Sinusitis Sputum increased Tremor Upper respiratory
 tract infection Viral infection Vomiting

Glycine receptor subunit beta - Group: Channel

Treated with:

glycine: approved, nutraceutical small molecule (38 associated
 side effects) Supplemental glycine may have antispastic activity.
 Very early findings suggest it may also have antipsychotic activity
 as well as antioxidant and anti-inflammatory activities.

lindane: approved small molecule (9 associated side effects)

For the treatment of patients infested with *Sarcoptes scabiei*
 or pediculosis capitis who have either failed to respond to adequate
 doses, or are intolerant of other approved therapies.

43 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Alopecia Angina pectoris Back pain
Blindness Blindness transient Chills Coma Convulsion
Dehydration Dermatitis contact Diarrhoea Dizziness Dry
mouth Electrolyte imbalance Encephalopathy Fluid overload
Headache Hyperammonaemia Hyperkinesia Hypersensitivity
Hyponatraemia Hypotension Lung disorder Nausea
Oedema Pain Paraesthesia Polyuria Pruritus
Pulmonary congestion Respiratory tract congestion Rhinitis
Salivary hypersecretion Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated
channel 2 - Group: Channel

Treated with:

cyclic guanosine monophosphate: experimental small molecule
(0 associated side effects)
cyclic adenosine monophosphate: experimental small molecule
(0 associated side effects)

known side effects mediated through drugs targeting this protein:

Transient receptor potential cation channel subfamily M member 7 -
Group: Enzyme

Treated with:

adenosine-5'-diphosphate: experimental small molecule (0
associated side effects)
phosphoaminophosphonic acid-adenylate ester: experimental small
molecule (0 associated side effects)
1,4-dithiothreitol: experimental small molecule (0
associated side effects)

known side effects mediated through drugs targeting this protein:

Organic cation/carnitine transporter 1 - Group: Transporter

Treated with:

choline: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance
l-lysine: approved, nutraceutical small molecule (0 associated
side effects) Supplemental L-lysine has putative anti-herpes
simplex virus activity. There is preliminary research suggesting
that it may have some anti-osteoporotic activity.
l-arginine: approved, nutraceutical small molecule (20 associated
side effects) Used for nutritional supplementation, also for
treating dietary shortage or imbalance.

spermine: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

nicotine: approved small molecule (98 associated side effects) For the relief of nicotine withdrawal symptoms and as an aid to smoking cessation.

ipratropium bromide: approved small molecule (116 associated side effects) For maintenance treatment of bronchospasm associated with chronic obstructive pulmonary disease, including chronic bronchitis and emphysema.

aminohippurate: approved small molecule (0 associated side effects) Used to measure effective renal plasma flow (ERPF) and to determine the functional capacity of the tubular excretory mechanism.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

quinine: approved small molecule (0 associated side effects) For the treatment of malaria and leg cramps

cimetidine: approved small molecule (50 associated side effects) For the treatment and the management of acid-reflux disorders (GERD), peptic ulcer disease, heartburn, and acid indigestion.

guanidine: approved small molecule (0 associated side effects) For the reduction of the symptoms of muscle weakness and easy fatigability associated with the myasthenic syndrome of Eaton-Lambert. It is not indicated for treating myasthenia gravis.

clonidine: approved small molecule (161 associated side effects) May be used as an adjunct in the treatment of hypertension, as an epidural infusion as an adjunct treatment in the management of severe cancer pain that is not relieved by opiate analgesics alone, for differential diagnosis of pheochromocytoma in hypertensive patients, prophylaxis of vascular migraine headaches, treatment of severe dysmenorrhea, management of vasomotor symptoms associated with menopause, rapid detoxification in the management of opiate withdrawal, treatment of alcohol withdrawal used in conjunction with benzodiazepines, management of nicotine dependence, topical use to reduce intraocular pressure in the treatment of open-angle and secondary glaucoma and hemorrhagic glaucoma associated with hypertension, and in the treatment of attention-deficit hyperactivity disorder (ADHD).

l-carnitine: approved small molecule (0 associated side effects) For treatment of primary systemic carnitine deficiency, a genetic impairment of normal biosynthesis or utilization of levocarnitine from dietary sources, or for the treatment of secondary carnitine deficiency resulting from an inborn error of metabolism such as glutaric aciduria II, methyl malonic aciduria, propionic acidemia, and medium chain fatty acylCoA dehydrogenase deficiency. Used therapeutically to stimulate gastric and pancreatic secretions and in the treatment of hyperlipoproteinemias. Parenteral

levocarnitine is indicated for the prevention and treatment of carnitine deficiency in patients with end-stage renal disease.
amiloride: approved small molecule (85 associated side effects)

For use as adjunctive treatment with thiazide diuretics or other kaliuretic-diuretic agents in congestive heart failure or hypertension.

testosterone: approved small molecule (274 associated side effects) To be used as hormone replacement or substitution of diminished or absent endogenous testosterone. Use in males: For management of congenital or acquired hypogonadism, hypogonadism associated with HIV infection, and male climacteric (andropause). Use in females: For palliative treatment of androgen-responsive, advanced, inoperable, metastatic (skeletal) carcinoma of the breast in women who are 1-5 years postmenopausal; testosterone esters may be used in combination with estrogens in the management of moderate to severe vasomotor symptoms associated with menopause in women who do not respond to adequately to estrogen therapy alone.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

procainamide: approved small molecule (55 associated side effects) For the treatment of life-threatening ventricular arrhythmias.

penicillin G: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

levofloxacin: approved small molecule (0 associated side effects) For the treatment of bacterial conjunctivitis caused by susceptible strains of the following organisms:

<i>Corynebacterium</i> species, <i>Staphylococcus aureus</i>, <i>Staphylococcus epidermidis</i>, <i>Streptococcus pneumoniae</i>, <i>Streptococcus</i> (Groups C/F/G), Viridans group streptococci, <i>Acinetobacter lwoffii</i>, <i>Haemophilus influenzae</i>, <i>Serratia marcescens</i>.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

tiotropium: approved small molecule (60 associated side effects) Used in the management of chronic obstructive pulmonary disease (COPD).

putrescine: experimental small molecule (0 associated side effects)

spermidine: experimental small molecule (0 associated side effects)

732 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abdominal symptom Abnormal dreams
Abscess Accommodation disorder Acidosis Acne Activated
partial thromboplastin time prolonged Acute coronary syndrome
Acute respiratory distress syndrome Adenoma benign
Affect lability Affective disorder Ageusia Aggression
Agitation Agranulocytosis Alanine aminotransferase increased
Albuminuria Alopecia Alveolitis allergic Amenorrhoea
Amnesia Anaemia Anaphylactic shock Anaphylactoid
reaction Androgenetic alopecia Anger Angina pectoris Angioedema
Angiopathy Angle closure glaucoma Anosmia Antinuclear
antibody positive Anuria Anxiety Aortic dissection Apathy
Aphasia Aplastic anaemia Apnoea Appetite disorder
Application site oedema Application site reaction
Arrhythmia Arterial disorder Arthralgia Arthritis Ascites
Aspartate aminotransferase increased Aspiration Asthenia
Asthma Ataxia Atelectasis Atrial fibrillation
Atrioventricular block Atrioventricular block complete
Atrioventricular block second degree Atrioventricular
dissociation Atrophy Autonomic neuropathy Azoospermia
Azotaemia Back pain Balance disorder Benign intracranial
hypertension Benign prostatic hyperplasia Bladder dilatation
Bladder irritation Bladder neck obstruction Bladder
pain Bladder spasm Blindness Blister Blood alkaline
phosphatase increased Blood bilirubin increased Blood cholesterol
increased Blood creatinine increased Blood electrolytes abnormal
Blood glucose abnormal Blood glucose decreased Blood
glucose increased Blood lactate dehydrogenase increased Blood
potassium increased Blood pressure diastolic decreased Blood
pressure increased Blood pressure systolic increased Blood
prolactin increased Blood testosterone decreased Blood
triglycerides increased Blood urea increased Body temperature
increased Bone pain Bradycardia Bradyphrenia Breast disorder
Breast enlargement Breast pain Breast tenderness Breath
odour Bronchitis Bronchospasm Bronchospasm paradoxical
Candidiasis Candiduria Cardiac arrest Cardiac disorder
Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cardiomyopathy Cardiovascular disorder
Cataract Cerebral artery thrombosis Cerebral haemorrhage
Cerebral ischaemia Cerebral thrombosis Cerebrovascular
accident Cerebrovascular disorder Chemical eye injury Chest
discomfort Chest pain Chills Cholecystitis Cholelithiasis
Cholestasis Cholinergic syndrome Choreoathetosis Chronic
obstructive pulmonary disease Coagulopathy Cognitive
disorder Colitis Colonic pseudo-obstruction Coma Coma
hepatic Completed suicide Condition aggravated Confusional state
Congenital cystic kidney disease Conjunctival hyperaemia
Conjunctival oedema Conjunctivitis Connective tissue
disorder Constipation Convulsion Coombs test positive
Coordination abnormal Corneal erosion Corneal oedema

Coronary artery disease Coronary artery thrombosis Cough
 Crying Crystal urine Crystalluria Cutaneous
 vasculitis Cyanosis Cyst Deafness Death Decreased appetite
 Deep vein thrombosis Dehydration Delirium Delusion
 Dental caries Dependence Depressed level of consciousness
 Depressed mood Depression Depression suicidal Depressive
 symptom Dermatitis Dermatitis acneiform Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Device related infection Diabetes mellitus Diarrhoea
 Diplopia Discomfort Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in
 attention Disturbance in sexual arousal Dizziness Drug abuse
 Drug dependence Drug eruption Drug interaction Drug
 tolerance Dry eye Dry mouth Dry skin Dry throat
 Dysaesthesia Dysgeusia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphonia Dyspnoea Dystonia Dysuria Ear
 disorder Ear haemorrhage Ear infection Ear pain Ecchymosis
 Eczema Effusion Ejaculation failure Elderly
 Electrocardiogram QT prolonged Electrocardiogram abnormal
 Electrocardiogram normal Electroencephalogram abnormal
 Electrolyte imbalance Emotional disorder Emotional
 distress Emphysema Encephalopathy Endocarditis Endocrine
 disorder Endometrial sarcoma Enlarged clitoris Enuresis
 Eosinophilia Epidermal necrosis Epididymitis
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Erythema nodosum Euphoric mood Extradural abscess
 Extrapyrarnidal disorder Extravasation Eye disorder
 Eye infection Eye irritation Eye pain Eye pruritus
 Face oedema Fasting Fatigue Feeling abnormal Feeling
 cold Fibrosis Flat affect Flatulence Fluid overload Fluid
 retention Flushing Foetor hepaticus Folliculitis Formication
 Fungal infection Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gangrene Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal motility disorder Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Genital candidiasis Genital discharge Gigantism
 Gingival blister Gingival erythema Gingival hyperplasia
 Gingival pain Gingivitis Glaucoma Glomerulonephritis
 Glossitis Glucose tolerance impaired Glycosuria Gout Grand
 mal convulsion Granulomatous liver disease Growth accelerated
 Gynaecomastia Haemarthrosis Haematocrit increased
 Haematoma Haematuria Haemoglobin Haemoglobin abnormal
 Haemoglobin increased Haemoglobinuria Haemolytic anaemia
 Haemolytic uraemic syndrome Haemoptysis Haemorrhage
 Haemorrhoids Hair colour changes Hair growth abnormal
 Hallucination Hallucination, auditory Hallucinations,
 mixed Halo vision Headache Hearing impaired Hepatic encephalopathy
 Hepatic enzyme increased Hepatic failure Hepatic fibrosis
 Hepatic function abnormal Hepatic necrosis Hepatic neoplasm
 Hepatic neoplasm malignant Hepatitis Hepatobiliary disease
 Hepatocellular injury Herpes simplex Herpes virus infection
 Herpes zoster Hiccups High density lipoprotein decreased
 Hirsutism Hormone level abnormal Hostility Hot flush
 Hyperacusis Hyperaemia Hyperaesthesia Hyperbilirubinaemia

Hypercholesterolaemia Hypergammaglobulinaemia
Hyperglycaemia Hyperhidrosis Hyperkalaemia
Hyperkeratosis Hyperkinesia Hyperlipidaemia
Hypernatraemia Hyperplasia Hyperprolactinaemia
Hypersensitivity Hypertension Hypertonia Hypertonic
bladder Hypertriglyceridaemia Hypertrophic cardiomyopathy
Hypertrophy Hypoaesthesia Hypocalcaemia Hypogeusia
Hypoglycaemia Hypokalaemia Hypomagnesaemia Hypomania
Hyponatraemia Hypophosphataemia Hypoprothrombinaemia
Hyposthenuria Hypotension Hypoventilation Hypoxia
Idiopathic thrombocytopenic purpura Ileus paralytic Ill-
defined disorder Immune system disorder Impatience Inappropriate
antidiuretic hormone secretion Incontinence Increased
appetite Increased bronchial secretion Induration Infarction
Infection Infestation Inflammation Influenza Influenza
like illness Injection site inflammation Injection site pain
Injection site reaction Insomnia Intermittent
claudication International normalised ratio increased
Interstitial lung disease Intestinal obstruction Intestinal
perforation Intracranial pressure increased Intraocular pressure
increased Irritability Ischaemia Jaundice Jaundice
cholestatic Joint swelling Keratitis Laboratory test abnormal
Lacrimation decreased Lacrimation increased Laryngeal oedema
Laryngitis Laryngospasm Lens disorder Lenticular
opacities Lethargy Leukocytoclastic vasculitis Leukocytosis
Leukopenia Leukoplakia Libido decreased Libido increased
Lipids abnormal Lipids increased Liver disorder Liver
function test abnormal Loss of consciousness Loss of libido Lower
respiratory tract infection Lymphadenitis Lymphadenopathy
Lymphocytosis Lymphopenia Macule Malaise Mania Mass
Mediastinal disorder Melaena Meningitis Menopausal
symptoms Menorrhagia Menstrual disorder Menstruation irregular
Mental disability Mental disorder Mental retardation
Metrorrhagia Micturition urgency Migraine Mood swings
Mouth ulceration Mucosal inflammation Mucosal ulceration
Multi-organ failure Multiple hereditary exostosis
Muscle contractions involuntary Muscle fatigue Muscle
spasms Muscular weakness Musculoskeletal discomfort
Musculoskeletal disorder Myalgia Myasthenia gravis
Mydriasis Myocardial infarction Myoclonus Myositis Nasal
congestion Nasal discomfort Nasal dryness Nasal oedema Nasal
polyps Nasal ulcer Nasopharyngitis Nausea Neck pain
Necrosis Neoplasm malignant Neoplasm prostate Nephritis
Nephrolithiasis Nephropathy Nephrotic syndrome Nervous
system disorder Nervousness Neuritis Neuroleptic malignant
syndrome Neuropathy peripheral Neutropenia Neutrophilia Night
blindness Nightmare Nipple disorder Nipple pain Nocturia Nodal
arrhythmia Nodule Nystagmus Obstruction Obstructive airways
disorder Oedema Oedema mouth Oedema peripheral
Oesophagitis Oligomenorrhoea Oliguria Optic neuritis
Oral disorder Oral pruritus Organ failure
Oropharyngeal discomfort Oropharyngeal pain Orthostatic
hypotension Osteoarthropathy Osteomyelitis Otitis media acute
Pain Pain in extremity Pain in jaw Pallor Palpitations
Pancreatitis Pancytopenia Papule Paraesthesia

Paralysis flaccid Paranoia Parosmia Parotid gland
 enlargement Parotitis Pathological fracture Peliosis hepatis
 Pelvic pain Penile pain Penis disorder Peptic ulcer
 Pericarditis Peripheral vascular disorder Personality
 disorder Petechiae Pharyngeal oedema Pharyngitis Phlebitis
 Phobia Photophobia Photosensitivity reaction
 Pigmentation disorder Pituitary tumour Plasmodium falciparum
 infection Platelet count decreased Platelet disorder Pleural
 disorder Pleural effusion Pleurisy Pneumonia Pneumothorax
 Poisoning Pollakiuria Polycythaemia Polymyositis Polyp
 Polyuria Precocious puberty Pressure of speech
 Presyncope Priapism Prostate cancer Prostatic adenoma
 Prostatic disorder Prostatic specific antigen increased
 Prostatitis Prostatomegaly Protein urine present Proteinuria
 Prothrombin level decreased Prothrombin level increased
 Pruritus Pruritus genital Pseudomembranous colitis
 Psychotic disorder Pulmonary embolism Pulmonary
 function test decreased Pulmonary oedema Purpura Pyuria
 Quadripareisis Rash Rash erythematous Rash follicular Rash
 generalised Rash macular Rash maculo-papular Rash papular
 Rash pustular Raynaud's phenomenon Red blood cell count
 increased Renal failure Renal failure acute Renal impairment
 Renal tubular disorder Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory failure Respiratory
 tract infection Rhabdomyolysis Rhinitis Rhinorrhoea Salivary
 gland pain Salivary hypersecretion Sarcosinaemia Scar
 Scotoma Seborrhoeic dermatitis Sedation Sensation of
 foreign body Sensitisation Sensory loss Sepsis Serum
 sickness Sexual dysfunction Shock Sicca syndrome Sick sinus
 syndrome Sinus arrest Sinus bradycardia Sinusitis Skin
 disorder Skin exfoliation Skin hyperpigmentation Skin irritation
 Skin mass Skin necrosis Skin ulcer Sleep apnoea syndrome
 Sleep disorder Sleep terror Sneezing Social avoidant
 behaviour Soft tissue disorder Somnolence Speech disorder
 Sputum increased Status asthmaticus Stickler's syndrome
 Stomatitis Stridor Strongyloidiasis Stupor Sudden
 death Sudden visual loss Suicidal ideation Suicide attempt
 Supraventricular tachycardia Surgery Swelling Syncope
 Synovitis Systemic lupus erythematosus Tachycardia Tearfulness
 Tenderness Tendon disorder Tendonitis Tension Testicular
 atrophy Testicular swelling Thirst Thought blocking
 Throat irritation Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thrombotic
 thrombocytopenic purpura Tinnitus Tobacco user Tongue
 discolouration Tongue disorder Tongue oedema Tooth disorder
 Toothache Torsade de pointes Toxic epidermal necrolysis
 Tremor Tubulointerstitial nephritis Type I
 hypersensitivity Ulcer Upper respiratory tract infection Urethral
 disorder Urinary hesitation Urinary incontinence Urinary
 retention Urinary tract disorder Urinary tract infection Urine
 output increased Urogenital disorder Urticaria Uveitis
 Vaginal discharge Vaginal infection Vaginal inflammation
 Varicocele Vascular purpura Vascular resistance systemic
 Vasculitis Vasodilation procedure Venous thrombosis Ventricular
 arrhythmia Ventricular extrasystoles Ventricular fibrillation

Ventricular tachycardia Vertigo Viral diarrhoea Viral
infection Virilism Vision blurred Visual acuity reduced
Visual impairment Vitreous detachment Vitreous floaters
Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
infection Weight decreased Weight increased Wheezing White blood
cell count decreased White blood cell disorder Withdrawal
hypertension Withdrawal syndrome

Melatonin receptor type 1A - Group: Receptor

Treated with:

ramelteon: approved small molecule (20 associated side effects)

For the treatment of insomnia characterized by difficulty with sleep onset.

melatonin: approved, nutraceutical small molecule (0 associated side effects) Used orally for jet lag, insomnia, shift-work disorder, circadian rhythm disorders in the blind (evidence for efficacy), and benzodiazepine and nicotine withdrawal. Evidence indicates that melatonin is likely effective for treating circadian rhythm sleep disorders in blind children and adults. It has received FDA orphan drug status as an oral medication for this use. A number of studies have shown that melatonin may be effective for treating sleep-wake cycle disturbances in children and adolescents with mental retardation, autism, and other central nervous system disorders. It appears to decrease the time to fall asleep in children with developmental disabilities, such as cerebral palsy, autism, and mental retardation. It may also improve secondary insomnia associated with various sleep-wake cycle disturbances. Other possible uses for which there is some evidence for include: benzodiazepine withdrawal, cluster headache, delayed sleep phase syndrome (DSPS), primary insomnia, jet lag, nicotine withdrawal, preoperative anxiety and sedation, prostate cancer, solid tumors (when combined with IL-2 therapy in certain cancers), sunburn prevention (topical use), tardive dyskinesia, thrombocytopenia associated with cancer, chemotherapy and other disorders.

agomelatine: approved small molecule (0 associated side effects) Agomelatine is indicated for the treatment of major depressive episodes in adults.

20 known side effects mediated through drugs targeting this protein:

Anaphylactic shock Anaphylactoid reaction Arthralgia Asthenia
Diarrhoea Dizziness Dysgeusia Fatigue Headache
Infection Influenza Insomnia Mental disability
Musculoskeletal discomfort Myalgia Nausea Respiratory
tract infection Somnolence Thinking abnormal Upper respiratory
tract infection

Amiloride-sensitive cation channel 2, neuronal - Group: Channel

Treated with:

diclofenac: approved small molecule (310 associated side effects) For the acute and chronic treatment of signs and symptoms of osteoarthritis and rheumatoid arthritis.

amiloride: approved small molecule (85 associated side effects)
For use as adjunctive treatment with thiazide diuretics or

other kaliuretic-diuretic agents in congestive heart failure or hypertension.

330 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain upper Abscess Acne Acute coronary syndrome
Agitation Agranulocytosis Alanine aminotransferase increased Alopecia Amblyopia Anaemia
Anaphylactic shock Anaphylactoid reaction Angina pectoris
Angioedema Angiopathy Anorectal disorder Anxiety
Aortic dissection Aphasia Aphthous stomatitis Aplastic anaemia
Application site reaction Arrhythmia Arteriosclerosis
Arthralgia Aspartate aminotransferase increased Asthenia
Asthma Atrioventricular block Atrioventricular block
complete Atrophy Azotaemia Back pain Bladder pain
Bladder spasm Bleeding time prolonged Blindness
Blister Blood creatine phosphokinase increased Blood creatinine increased
Blood potassium increased Body temperature increased
Bone pain Bradycardia Breast disorder Breath odour
Bronchitis Burning sensation Cardiac disorder Cardiac failure
Cardiac failure congestive Cardiovascular disorder
Cerebrovascular accident Chest pain Chills Colitis
ulcerative Coma Confusional state Conjunctival hyperaemia
Conjunctivitis allergic Constipation Convulsion
Coordination abnormal Corneal deposits Corneal disorder
Corneal erosion Corneal infiltrates Corneal oedema
Corneal opacity Cough Cystitis Cystitis noninfective
Deafness Death Decreased appetite Dehydration Dental caries
Dermatitis bullous Dermatitis contact Dermatitis exfoliative
Diarrhoea Diarrhoea haemorrhagic Diplopia Discomfort
Disorientation Disturbance in attention Disturbance in sexual arousal
Dizziness Drug ineffective Dry mouth Dry skin
Dysgeusia Dyspepsia Dyspnoea Dysthymic disorder
Dysuria Ear pain Ecchymosis Eczema Encephalopathy
Enterocolitis haemorrhagic Eosinophilia Epistaxis
Erectile dysfunction Eructation Erythema multiforme
Erythema of eyelid Eye allergy Eye disorder Eye inflammation
Eye irritation Eye pain Eye pruritus
Eyelid oedema Eyelids pruritus Face oedema Fatigue
Feeling abnormal Flatulence Fluid retention Flushing
Foetor hepaticus Furuncle Gait disturbance Gastric pH decreased
Gastritis Gastroenteritis Gastrointestinal disorder
Gastrointestinal haemorrhage Gastrointestinal pain Gingivitis
Glossitis Gout Gynaecomastia Haematemesis Haematuria
Haemoglobin Haemolytic anaemia Haemorrhage Haemorrhoids
Hair disorder Hallucination Headache Hearing impaired
Henoch-Schonlein purpura Hepatic cirrhosis Hepatic encephalopathy
Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatic necrosis Hepatitis
Hepatitis fulminant Hepatobiliary disease Hepatocellular injury
Hepatorenal syndrome Hereditary disorder Hernia
Herpes simplex Herpes virus infection Hyperaemia
Hyperaesthesia Hyperchlorhydria Hypercholesterolaemia
Hyperglycaemia Hyperhidrosis Hyperkinesia
Hypertension Hypertonia Hypertrophy Hyperventilation

Hypoaesthesia Hypoglycaemia Hypokinesia Hyponatraemia
 Hypotension Ill-defined disorder Immune system disorder
 Infarction Infection Infestation Influenza Insomnia
 Intestinal perforation Intraocular pressure increased
 Iritis Irritability Jaundice Keratitis Lacrimal
 disorder Lacrimation increased Laryngeal oedema Laryngitis
 Laryngospasm Leukopenia Libido decreased Lip swelling
 Liver disorder Loss of consciousness Lymphadenopathy
 Malaise Melaena Memory impairment Meningitis aseptic
 Mental disability Mental disorder Migraine Mouth ulceration
 Muscle rigidity Muscle spasms Muscular weakness
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Nail disorder Nasal congestion Nausea Neck pain
 Necrosis Neoplasm malignant Nephritis Nephropathy
 Nephrotic syndrome Nervous system disorder Nervousness
 Neuritis Neuropathy peripheral Neutropenia Night blindness
 Nightmare Nocturia Nodule Nuchal rigidity Ocular
 hyperaemia Oedema peripheral Oesophageal disorder Oesophagitis
 Oliguria Oral pruritus Orthostatic hypotension
 Osteoarthritis Pain Pain in extremity Palpitations
 Pancreatitis Pancytopenia Papule Paraesthesia
 Paralysis flaccid Peptic ulcer Pharyngitis Phlebitis
 Photosensitivity reaction Pneumonia Pollakiuria Polyuria
 Proctitis Prostatic specific antigen increased Protein
 urine present Proteinuria Pruritus Psychotic disorder
 Pulmonary function test decreased Punctate keratitis
 Purpura Rash Rash maculo-papular Rash pustular
 Rectal haemorrhage Renal failure acute Renal impairment
 Renal papillary necrosis Respiratory depression Respiratory
 disorder Rhinitis Scotoma Seborrhoeic dermatitis Sepsis
 Shock Sinusitis Skin cancer Skin discolouration Skin
 exfoliation Skin hypertrophy Skin irritation Skin mass Skin odour
 abnormal Skin ulcer Sleep disorder Social avoidant behaviour
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Swelling Syncope Tachycardia Tension
 Testicular disorder Thinking abnormal Thirst
 Thrombocytopenia Tic Tinnitus Tongue coated Tooth
 abscess Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Ulcerative keratitis Urethral
 disorder Urinary tract disorder Urine output increased Urticaria
 Vaginal haemorrhage Vascular purpura Vasculitis
 Vasodilation procedure Ventricular extrasystoles Vertigo
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitreous floaters Vomiting Weight decreased

Gamma-aminobutyric acid receptor subunit theta - Group: Channel
 Treated with:
 lorazepam: approved small molecule (126 associated side
 effects) For the management of anxiety disorders, and for
 treatment of status epilepticus.
 temazepam: approved small molecule (35 associated side effects)
 For the short-term treatment of insomnia (generally 7-10
 days).

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

bromazepam: illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

460 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal dreams Abnormal faeces Acidosis Acne Affect
 lability Ageusia Aggression Agitation Agranulocytosis
 Akathisia Akinesia Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amnesia Anaemia
 Anaphylactic shock Anaphylactoid reaction Anger Angioedema
 Angiopathy Anorectal discomfort Anorectal disorder
 Anterograde amnesia Anxiety Aortic dissection Apathy

Aponia Apnoea Appetite disorder Arrhythmia Arterial
 spasm Arthralgia Aspartate aminotransferase increased Aspiration
 Asthenia Asthma Ataxia Athetosis Atrioventricular
 block Back pain Balance disorder Bladder dysfunction Bladder
 pain Blindness Blood alkaline phosphatase increased Blood
 bilirubin increased Blood disorder Blood glucose decreased
 Blood thromboplastin decreased Body temperature decreased
 Body temperature increased Borderline personality disorder
 Bradycardia Bradyphrenia Brain oedema Breast disorder
 Breast pain Bronchitis Bronchospasm Candidiasis Carbon
 dioxide increased Cardiac arrest Cardiac disorder Cardiac failure
 Cardio-respiratory arrest Cardiovascular disorder
 Cellulitis Cerebellar syndrome Chest discomfort Chest pain
 Chills Choking sensation Chorea Chromaturia Clonic
 convulsion Clonus Clumsiness Coagulopathy Cognitive
 disorder Coma Completed suicide Confusional state Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Cough Cyanosis Cystitis Cystitis
 noninfective Cytolytic hepatitis Death Decreased appetite
 Dehydration Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enuresis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Euphoric mood Extrapyrmidal disorder
 Extrasystoles Eye disorder Eye irritation Eye
 movement disorder Face oedema Faecal incontinence Fatigue
 Feeling abnormal Feeling cold Feeling drunk Feeling hot
 Feeling jittery Feeling of body temperature change Flat affect
 Flatulence Floppy infant Flushing Fungal infection Gait
 disturbance Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haemoglobin Haemoglobin decreased Haemorrhage Haemorrhage
 urinary tract Haemorrhoids Hallucination Hangover
 Headache Heart rate irregular Hemiparesis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatitis
 Hepatocellular injury Hepatomegaly Herpes simplex
 Herpes virus infection Hiccups Hirsutism Homicidal
 ideation Hordeolum Hostility Hunger Hypercapnia
 Hyperhidrosis Hyperkinesia Hyperprolactinaemia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hyperventilation Hypoaesthesia Hypochromic anaemia

Hypokinesia Hypomania Hyponatraemia Hypopnoea Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngospasm Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Liver function test abnormal Liver injury Local reaction
 Logorrhoea Loss of consciousness Loss of libido Lung
 disorder Lymphadenopathy Major depression Malaise Mania Mean
 arterial pressure Mediastinal disorder Memory impairment Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mental retardation Migraine Miosis Mood swings
 Motion sickness Movement disorder Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal stiffness
 Myalgia Mydriasis Myoclonus Nasal congestion
 Nasopharyngitis Nausea Necrosis Nervous system
 disorder Nervousness Neuroleptic malignant syndrome Neuropathy
 peripheral Neutropenia Nightmare Nocturia Nodal rhythm
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paralysis Paresis Pelvic pain Pericardial
 effusion Periorbital oedema Personality disorder
 Phaeochromocytoma Pharyngitis Phlebitis Photophobia
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Rash Rash maculo-papular Rectal haemorrhage
 Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Tinnitus Tongue coated Tongue disorder

Tongue oedema Tooth disorder Toothache Toxic epidermal
necrolysis Transaminases increased Tremor Tropical spastic
paresis Upper airway obstruction Upper respiratory tract
infection Urethral disorder Urinary incontinence Urinary retention
Urinary tract disorder Urinary tract infection Urine
colour abnormal Urine output increased Urticaria Vaginal infection
Vaginal inflammation Vasodilation procedure Venous thrombosis
Ventricular arrhythmia Ventricular extrasystoles Vertigo
Viral infection Vision blurred Visual acuity reduced
Visual impairment Vomiting Weight decreased Weight increased
Wheezing Withdrawal syndrome Xeroderma Xerophthalmia
Yawning

High affinity interleukin-8 receptor A - Group: Receptor

Treated with:

ketoprofen: approved small molecule (126 associated side effects)
For symptomatic treatment of acute and chronic rheumatoid arthritis, osteoarthritis, ankylosing spondylitis, primary dysmenorrhea and mild to moderate pain associated with musculotendinous trauma (sprains and strains), postoperative (including dental surgery) or postpartum pain.

126 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Agranulocytosis
Alopecia Amnesia Anaemia Anaphylactic shock
Angiopathy Arrhythmia Blood urea increased Bronchospasm
Cardiac failure Cardiac failure congestive Chills
Colitis ulcerative Confusional state Conjunctivitis
Constipation Deafness Decreased appetite Dermatitis
bullous Dermatitis exfoliative Diabetes mellitus Diarrhoea
Discomfort Dizziness Dry mouth Dysgeusia Dyspepsia
Dysphoria Dyspnoea Eczema Epistaxis Erectile
dysfunction Eructation Erythema Erythema multiforme Eye pain
Face oedema Feeling abnormal Flatulence Gastritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal pain Gastrointestinal perforation
Gynaecomastia Haematemesis Haematuria Haemoglobin
Haemolysis Haemoptysis Haemorrhage Hallucination Headache
Hearing impaired Hepatic function abnormal Hepatitis
cholestatic Hyperhidrosis Hypersensitivity Hypertension
Hyponatraemia Ill-defined disorder Increased appetite
Infarction Infection Insomnia Intestinal ulcer Jaundice
Laryngeal oedema Malaise Melaena Meningitis aseptic
Menometrorrhagia Migraine Musculoskeletal discomfort
Myalgia Myocardial infarction Nausea Necrosis
Nephritis Nephrotic syndrome Nervousness Nightmare
Oedema Onycholysis Palpitations Pancreatitis
Paraesthesia Peptic ulcer Peripheral vascular disorder
Personality disorder Pharyngitis Photosensitivity reaction
Pigmentation disorder Pruritus Purpura Rash Rectal
haemorrhage Renal failure Renal impairment Retinal haemorrhage
Rhinitis Salivary hypersecretion Sepsis Shock Sicca
syndrome Skin discolouration Somnolence Stomatitis Tachycardia

Tension Thirst Thrombocytopenia Tinnitus Toxic
epidermal necrolysis Tubulointerstitial nephritis Ulcer Urticaria
Vascular purpura Vasodilation procedure Vertigo Visual
impairment Vomiting Weight decreased Weight increased

Metabotropic glutamate receptor 7 - Group: Receptor

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Fibroblast growth factor receptor 4 - Group: Enzyme

Treated with:

palifermin: approved biotech (0 associated side effects) For treatment of oral mucositis associated with chemotherapy and radiation therapy.

known side effects mediated through drugs targeting this protein:

Glutamate receptor delta-2 subunit - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Thyroid hormone receptor alpha - Group: Receptor

Treated with:

liothyronine: approved small molecule (0 associated side effects) Used as replacement or supplemental therapy in patients with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

levothyroxine: approved small molecule (0 associated side effects) For use alone or in combination with antithyroid agents to treat hypothyroidism, goiter, chronic lymphocytic thyroiditis, myxedema coma, and stupor.

dextrothyroxine: approved small molecule (0 associated side effects) Used to lower high cholesterol levels in the blood.

liotrix: approved small molecule (0 associated side effects)

May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating

hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

3,5-dichloro-4-[(4-hydroxy-3-isopropylphenoxy)phenyl]acetic acid:
experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Glutamate [NMDA] receptor subunit 3A - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

tramadol: approved small molecule (490 associated side effects) Indicated in the treatment of moderate to severe pain. Consider for those prone to constipation or respiratory depression. Tramadol is used to treat postoperative, dental, cancer, and acute musculoskeletal pain and as an adjuvant to NSAID therapy in patients with osteoarthritis.

methadone: approved small molecule (87 associated side effects) For the treatment of dry cough, drug withdrawal syndrome, opioid type drug dependence, and pain.

ethopropazine: approved small molecule (0 associated side effects) For use in the treatment of Parkinson's disease and also used to control severe reactions to certain medicines such as reserpine.

dextromethorphan: approved small molecule (0 associated side effects) For treatment and relief of dry cough.

acamprosate: approved small molecule (212 associated side effects) For the maintenance of abstinence from alcohol in patients with alcohol dependence who are abstinent at treatment initiation

procaine: approved small molecule (43 associated side effects) Used as a local anesthetic primarily in oral surgery

ethanol: approved small molecule (11 associated side effects) For therapeutic neurolysis of nerves or ganglia for the relief of intractable chronic pain in such conditions as inoperable cancer and trigeminal neuralgia (tic douloureux), in patients for whom neurosurgical procedures are contraindicated.

amantadine: approved small molecule (90 associated side effects) For the chemoprophylaxis, prophylaxis, and treatment of signs and symptoms of infection caused by various strains of influenza A virus. Also for the treatment of parkinsonism and drug-induced extrapyramidal reactions.

felbamate: approved small molecule (249 associated side effects) For use only in those patients who respond inadequately to alternative treatments and whose epilepsy is so severe that a

substantial risk of aplastic anemia and/or liver failure is deemed acceptable in light of the benefits conferred by its use.

memantine: approved small molecule (250 associated side effects) For the treatment of moderate to severe dementia of the Alzheimer's type.

halothane: approved small molecule (10 associated side effects) For the induction and maintenance of general anesthesia

chloroprocaine: approved small molecule (34 associated side effects) For the production of local anesthesia by infiltration and peripheral nerve block. They are not to be used for lumbar or caudal epidural anesthesia.

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

ketamine: approved small molecule (35 associated side effects) For use as the sole anesthetic agent for diagnostic and surgical procedures that do not require skeletal muscle relaxation.

tenocyclidine: illicit, experimental small molecule (0 associated side effects) Because of its high affinity for the phencyclidine binding site on the NMDA receptor, the 3H radiolabelled form of tenocyclidine is widely used in research into NMDA receptors.

rolicyclidine: illicit, experimental small molecule (0 associated side effects) Rolicyclidine has anesthetic properties and can induce a sedative effect.

711 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
Abdominal pain upper Abdominal tenderness Abnormal
behaviour Abnormal dreams Abnormal faeces Abscess Acidosis
Acne Acute coronary syndrome Acute leukaemia Acute
myocardial infarction Acute respiratory failure Affect lability
Aggression Agitation Agranulocytosis Alanine
aminotransferase decreased Alanine aminotransferase increased
Albuminuria Alcoholism Alopecia Altered state of
consciousness Amblyopia Amenorrhoea Amnesia Anaemia
Analgesic therapy Anaphylactic shock Anaphylactoid reaction
Anencephaly Aneurysm Angina pectoris Angina unstable
Angioedema Angiopathy Anorectal disorder Anosmia
Antinuclear antibody positive Anxiety Aortic aneurysm
Aortic dissection Apathy Aphasia Aplastic anaemia
Apnoea Appendicitis Arachnoiditis Arrhythmia
Arrhythmia supraventricular Arterial occlusive disease
Arthralgia Arthritis Arthropathy Ascites Aspartate
aminotransferase increased Aspiration Asthenia Asthma
Ataxia Atrial fibrillation Atrial flutter
Atrioventricular block Azotaemia Back disorder Back pain
Benign breast neoplasm Biliary tract disorder Bipolar I
disorder Bipolar disorder Bladder pain Blepharitis Blindness
Blister Blood alkaline phosphatase increased Blood
amylase increased Blood bilirubin increased Blood cholesterol
increased Blood creatine phosphokinase increased Blood creatinine
increased Blood glucose abnormal Blood glucose increased Blood
lactate dehydrogenase increased Blood potassium abnormal Blood
potassium decreased Blood potassium increased Blood pressure

increased Blood sodium increased Blood triglycerides increased
 Blood urea increased Blood uric acid increased Body
 temperature decreased Body temperature increased Bone disorder
 Bone pain Bradycardia Brain oedema Breast cancer
 Breast disorder Breast neoplasm Breath odour Bronchitis
 Bronchospasm Burning sensation Bursitis Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac output decreased Cardiomyopathy Cardiovascular
 disorder Carpal tunnel syndrome Cataract Cellulitis Cerebral
 haemorrhage Cerebral infarction Cerebrovascular accident
 Cerebrovascular disorder Cerumen impaction Change of bowel
 habit Chest discomfort Chest pain Chills Cholecystitis
 Cholelithiasis Choreoathetosis Chronic hepatitis Clonus
 Coagulopathy Cognitive disorder Cold sweat Colitis
 Coma Completed suicide Confusional state Congenital anomaly
 Congenital genital malformation Conjunctival haemorrhage
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coordination abnormal Corneal oedema Corneal
 opacity Cough Cranial nerve paralysis Crocodile tears
 syndrome Crying Crystal urine Crystalluria Cystitis
 Cystitis noninfective Deafness Death Decreased appetite
 Deep vein thrombosis Dehydration Delirium Delusion
 Dependence Depersonalisation Depressed level of consciousness
 Dermal cyst Dermatitis atopic Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Dermoid cyst Developmental
 delay Diabetes mellitus Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Diverticulum Dizziness Drug
 abuse Drug dependence Drug interaction Drug withdrawal syndrome
 Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer
 Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphoria Dyspnoea Dystonia Dysuria Ear
 congestion Ear discomfort Ear infection Ear pain Ecchymosis
 Eczema Effusion Ejaculation disorder Electrocardiogram
 QT prolonged Electrocardiogram abnormal Electrocardiogram
 change Embolism Emotional disorder Encephalocele
 Encephalopathy Endocrine disorder Endophthalmitis
 Enteritis Eosinophil count increased Eosinophilia
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erysipelas Erythema Erythema multiforme Euphoric mood
 Eustachian tube disorder Exostosis Extrapyrarnidal
 disorder Extrasystoles Eye disorder Eye pain Eyelid
 disorder Eyelid ptosis Face oedema Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Fasciitis
 Fatigue Feeling abnormal Feeling cold Feeling hot
 Feeling jittery Flashback Flat affect Flatulence Flushing
 Foetal disorder Fungal infection Gait disturbance Gamma-
 glutamyltransferase increased Gangrene Gastric dilatation
 Gastric disorder Gastric ulcer Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal infection Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Gingival bleeding Glaucoma Glossitis Goitre Gout

Grand mal convulsion Groin pain Gynaecomastia
 Haematemesis Haematochezia Haematocrit decreased
 Haematocrit increased Haematoma Haematuria Haemoglobin
 decreased Haemoglobin increased Haemolytic anaemia Haemolytic
 uraemic syndrome Haemoptysis Haemorrhage Haemorrhage intracranial
 Hair disorder Hallucination Headache Hearing impaired
 Helicobacter infection Hemianopia Hemiplegia Hepatic cirrhosis
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatic neoplasm malignant Hepatitis
 Hepatitis cholestatic Hepatobiliary disease Hepatorenal
 syndrome Hernia Herpes simplex Herpes virus infection
 Herpes zoster Hiccups High density lipoprotein decreased
 Hordeolum Hormone level abnormal Hostility Hot flush
 Hyperaesthesia Hyperammonaemia Hyperbilirubinaemia
 Hypercalcaemia Hypercalciuria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersexuality Hypertension Hypertonia
 Hypertiglyceridaemia Hyperuricaemia Hyperventilation
 Hypoaesthesia Hypocalcaemia Hypochromic anaemia
 Hypoglycaemia Hypokalaemia Hypokinesia Hypomagnesaemia
 Hyponatraemia Hypophosphataemia Hypotension Hypothermia
 Hypothyroidism Hypovitaminosis Hypoxia Ileus Ill-defined
 disorder Immune system disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Infarction
 Infection Infestation Inflammation Influenza Influenza
 like illness Ingrowing nail Insomnia Intermittent
 claudication International normalised ratio increased
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intra-uterine death Irritability
 Irritable bowel syndrome Ischaemia Jaundice Joint
 crepitation Joint stiffness Joint swelling Keratitis
 Labyrinthitis Lacrimal disorder Lacrimation increased
 Laryngeal oedema Laryngitis Laryngospasm Leiomyoma
 Lethargy Leukaemia Leukocytosis Leukopenia Libido
 decreased Libido increased Lichen planus Lip blister Livedo
 reticularis Liver function test abnormal Lividity Localised
 infection Loss of consciousness Low density lipoprotein increased
 Lymphadenopathy Lymphocyte count decreased Lymphocyte count
 increased Lymphocytosis Lymphoma Lymphoproliferative disorder
 Macular degeneration Macule Malaise Mammogram
 abnormal Mania Mean cell volume Mean cell volume increased
 Mediastinal disorder Megacolon Melaena Meningism
 Meningitis Menometrorrhagia Menopausal symptoms Menopause
 Menorrhagia Menstrual disorder Mental disability Mental
 disorder Mental disorder due to a general medical condition
 Mental retardation Mesenteric occlusion Metrorrhagia
 Microcephaly Micturition disorder Micturition urgency
 Migraine Miosis Monocyte count increased Monocytosis
 Mononeuritis Mood swings Mouth ulceration Mucous membrane
 disorder Muscle contractions involuntary Muscle rigidity
 Muscle spasms Muscle spasticity Muscle twitching Muscular
 weakness Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal stiffness

Myalgia Mydriasis Myeloid leukaemia Myocardial infarction
 Myocardial ischaemia Myoclonus Myopathy Myopia Nasal
 congestion Nasal dryness Nasal oedema Nasopharyngitis
 Nausea Neck pain Necrosis Necrosis ischaemic
 Neoplasm Neoplasm malignant Nephrolithiasis Nephrotic
 syndrome Nervous system disorder Nervousness Neuralgia
 Neuritis Neuroleptic malignant syndrome Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night sweats Nightmare
 Nocturia Nuchal rigidity Nystagmus Obstruction Obstructive
 airways disorder Oedema mucosal Oedema peripheral Oesophageal
 disorder Oesophageal ulcer Oesophagitis Oliguria Optic nerve
 disorder Oral pain Oropharyngeal discomfort Oropharyngeal
 pain Orthostatic hypotension Osteoarthritis Osteonecrosis
 Osteopenia Osteoporosis Otitis externa Otitis media
 Pain in extremity Pallor Palpitations Pancreatitis
 Pancreatitis acute Pancytopenia Panophthalmitis
 Paraesthesia Paralysis Paranoia Pathological fracture
 Pathological gambling Pelvic pain Peripheral ischaemia
 Peripheral vascular disorder Personality disorder Pharyngitis
 Phlebitis Photophobia Photopsia Photosensitivity allergic
 reaction Photosensitivity reaction Piloerection Placental
 disorder Plantar fasciitis Platelet count decreased Platelet
 disorder Pleural disorder Pleural effusion Pneumonia Pneumonia
 aspiration Pollakiuria Polyp Polyuria Poor peripheral circulation
 Productive cough Prostatic disorder Prostatitis
 Prostatomegaly Protein total decreased Protein urine
 present Proteinuria Prothrombin time shortened Prurigo
 Pruritus Pruritus generalised Pruritus genital
 Pseudocholinesterase deficiency Psoriasis Psychotic
 disorder Pulmonary embolism Pulmonary function test decreased
 Pulmonary haemorrhage Pulmonary oedema Purpura Rales Rash
 Rash erythematous Rash maculo-papular Rash morbilliform Rash
 papular Rash pustular Rectal haemorrhage Rectal prolapse
 Red blood cell count decreased Red blood cell count
 increased Red blood cell sedimentation rate increased Renal
 failure Renal failure acute Renal function test abnormal Renal
 impairment Renal pain Respiratory arrest Respiratory depression
 Respiratory disorder Respiratory failure Respiratory tract
 infection viral Retching Retinal detachment Retinal
 haemorrhage Rhabdomyolysis Rheumatoid arthritis Rhinitis
 Rhinitis allergic Rhinitis seasonal Rhinorrhoea Rhonchi
 Rosacea Salivary hypersecretion Scleral haemorrhage
 Seasonal allergy Sedation Sepsis Sexual dysfunction
 Shock Sinus congestion Sinus headache Sinus tachycardia
 Sinusitis Skin disorder Skin odour abnormal Skin ulcer
 Sleep apnoea syndrome Sleep disorder Small intestinal
 obstruction Sneezing Social avoidant behaviour Somnolence
 Speech disorder Status epilepticus Stevens-Johnson
 syndrome Sticky skin Stomach dilation procedure Stomatitis
 Stupor Sudden death Sudden infant death syndrome
 Suicidal ideation Suicide attempt Supraventricular tachycardia
 Swelling Syncope Synovial cyst Tachycardia Tachypnoea
 Tardive dyskinesia Tenderness Tendon disorder Tendonitis
 Tension Thinking abnormal Thirst Throat irritation

Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid neoplasm Tinea pedis Tinnitus Tongue disorder
 Tongue oedema Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Toothache Torsade de pointes
 Torticollis Toxic epidermal necrolysis Tracheitis Transient
 ischaemic attack Tremor Ulcer Upper respiratory tract infection
 Urethral disorder Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 output increased Urogenital disorder Urticaria Uterine leiomyoma
 Uterovaginal prolapse Vaginal cyst Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicose vein Vascular dementia Vascular insufficiency
 Vascular purpura Vasculitis Vasodilation procedure Venous
 thrombosis Ventricular fibrillation Ventricular tachycardia
 Vertigo Viral diarrhoea Viral infection Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased White blood cell count increased
 Withdrawal syndrome Wound haemorrhage Wound infection X-
 linked lymphoproliferative syndrome Xerophthalmia Yawning

Monocarboxylate transporter 5 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0
 associated side effects) For nutritional supplementation, also
 for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Neuronal acetylcholine receptor subunit beta-3 - Group: Channel

Treated with:

nicotine: approved small molecule (98 associated side effects)
 For the relief of nicotine withdrawal symptoms and as an aid
 to smoking cessation.

galantamine: approved small molecule (160 associated side
 effects) For the treatment of mild to moderate dementia of the
 Alzheimer's type. Has also been investigated in patients with mild
 cognitive impairment who did not meet the diagnostic criteria for
 Alzheimer's disease.

213 known side effects mediated through drugs targeting this
 protein:

Abdominal discomfort Abdominal pain Acne Affect lability
 Aggression Agitation Amnesia Anaemia Anxiety
 Apathy Aphasia Apraxia Arrhythmia Arrhythmia
 supraventricular Arthralgia Arthritis Asthenia Ataxia
 Atrial fibrillation Atrioventricular block Back pain
 Bladder pain Blindness Blister Blood alkaline
 phosphatase increased Blood urea increased Body temperature
 increased Bone pain Bradycardia Bronchitis Bronchospasm
 Bundle branch block Cardiac failure Cardiac fibrillation

Cardiovascular disorder Cataract Cerebrovascular
 accident Cerebrovascular disorder Chest discomfort Chest pain
 Coagulopathy Completed suicide Confusional state
 Constipation Convulsion Coordination abnormal Cough
 Cystitis Cystitis noninfective Decreased appetite
 Dehydration Delirium Dependence Depression Dermatitis
 Dermatitis bullous Diarrhoea Discomfort Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Drug abuse Drug dependence Dry mouth Dysgeusia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Ear pain Electrocardiogram QT prolonged Electrocardiogram
 T wave inversion Epistaxis Eye disorder Eye irritation
 Fatigue Feeling abnormal Flat affect Flatulence Flushing
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 haemorrhage Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypotension Ill-
 defined disorder Immune system disorder Incontinence Increased
 appetite Increased bronchial secretion Infarction Infection
 Influenza Insomnia Irritability Ischaemia Lacrimation
 increased Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Menstrual disorder Mental disability Mental
 disorder Migraine Mood swings Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nasal congestion Nasal
 discomfort Nasal ulcer Nasopharyngitis Nausea Nephrolithiasis
 Nervous system disorder Nervousness Neuropathy peripheral
 Nightmare Nocturia Oedema Oedema peripheral Oesophageal
 disorder Oesophageal perforation Orthostatic hypotension
 Pain Pain in extremity Pain in jaw Palpitations
 Paraesthesia Paranoia Pharyngitis Pneumonia Pollakiuria
 Pruritus Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Rhinorrhoea Salivary hypersecretion Sensory
 loss Shock Sinusitis Sleep disorder Sneezing Somnolence
 Sputum increased Stomatitis Suicidal ideation Suicide attempt
 Supraventricular tachycardia Syncope Tachycardia Tension
 Throat irritation Thrombocytopenia Thrombocytosis Tinnitus
 Tobacco user Tooth disorder Transient ischaemic attack
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Vascular dementia Vascular
 purpura Ventricular tachycardia Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased Withdrawal syndrome

Endothelin B receptor - Group: Receptor

Treated with:

bosentan: approved small molecule (196 associated side
 effects) Used in the treatment of pulmonary arterial hypertension

(PAH), to improve exercise ability and to decrease the rate of clinical worsening (in patients with WHO Class III or IV symptoms). sitaxentan: approved small molecule (402 associated side effects) Investigated for use/treatment in pulmonary hypertension, connective tissue diseases, hypertension, and congestive heart failure.

492 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal hernia
 Abdominal pain upper Abdominal strangulated hernia
 Abdominal tenderness Abortion spontaneous Abscess
 Acidosis Acrochordon Activated partial thromboplastin time
 prolonged Acute coronary syndrome Acute sinusitis Affect
 lability Agitation Alanine aminotransferase increased Alopecia
 Alveolitis allergic Amenorrhoea Amyotrophic lateral
 sclerosis Anaemia Anal pruritus Anal skin tags
 Anaphylactic shock Aneurysm Angina pectoris Angioedema
 Angiopathy Anorectal discomfort Anxiety Aortic dissection
 Appendicitis Arrhythmia Arteriovenous fistula Arthralgia
 Arthritis Arthritis bacterial Arthritis infective
 Ascites Aspartate aminotransferase increased Aspiration
 Asthenia Asthma Ataxia Atrial fibrillation
 Atrial flutter Atrial septal defect Atrioventricular block
 Atrioventricular block complete Atrioventricular block first
 degree Atrophy Back pain Basal cell carcinoma Bladder
 disorder Bladder pain Blister Blood alkaline phosphatase
 increased Blood bicarbonate decreased Blood bilirubin increased
 Blood creatine phosphokinase increased Blood creatinine
 increased Blood glucose increased Blood lactate dehydrogenase
 increased Blood potassium decreased Blood potassium increased
 Blood pressure increased Blood pressure systolic decreased
 Blood uric acid increased Body temperature increased Bone
 disorder Bone marrow toxicity Bradycardia Breast calcifications
 Breast disorder Breast pain Breast tenderness Bronchitis
 Bronchospasm Candidiasis Cardiac arrest Cardiac disorder
 Cardiac failure chronic Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac septal defect Cellulitis Cerebrovascular accident
 Cerumen impaction Chest discomfort Chest pain Chills
 Cholecystitis chronic Cholelithiasis Cholestasis Chromaturia
 Coagulation time prolonged Colitis Colonic polyp
 Confusional state Conjunctival haemorrhage Conjunctival
 hyperaemia Conjunctivitis Conjunctivitis allergic Connective
 tissue inflammation Constipation Convulsion Cough Cystitis
 Cystitis noninfective Deafness Decreased appetite
 Dehydration Depressed level of consciousness Dermatitis
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Diarrhoea Dilatation atrial Discomfort Disease progression
 Disturbance in attention Disturbance in sexual arousal
 Diverticulum Dizziness Dizziness postural Drug
 hypersensitivity Dry mouth Dry skin Dry throat Duodenal ulcer
 Dysaesthesia Dyspepsia Dysphonia Dyspnoea Dyspnoea
 exertional Dyspnoea paroxysmal nocturnal Dysuria Ear
 congestion Ear discomfort Ear infection Ear pain Ecchymosis

Eczema Effusion Electrocardiogram QT prolonged
 Electrocardiogram change Embolism Endocrine disorder
 Enteritis Eosinophil count increased Eosinophilia
 Epistaxis Eructation Erythema Erythema multiforme
 Extrasystoles Eye disorder Eye infection Eye
 inflammation Eye irritation Eye oedema Eye pruritus
 Eyelid ptosis Facial pain Faecal incontinence Fatigue
 Feeling abnormal Feeling cold Feeling hot Fibromyalgia
 Fistula Flank pain Flatulence Fluid retention Flushing
 Frequent bowel movements Fungal infection Furuncle
 Gallbladder disorder Gastritis Gastritis viral
 Gastroenteritis Gastroenteritis bacterial Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal pain Gingival pain Gingivitis Glossodynia
 Glucose tolerance impaired Goitre Gout Gouty tophus
 Groin pain Haematochezia Haematocrit decreased Haematocrit
 increased Haematoma Haematuria Haemoglobin decreased Haemoglobin
 increased Haemolysis Haemoptysis Haemorrhage Haemorrhoids Head
 discomfort Headache Heart rate irregular Hemiparesis Hepatic
 cirrhosis Hepatic enzyme increased Hepatic failure Hepatic
 function abnormal Hepatitis Hepatobiliary disease Hepatomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hormone level abnormal Hydrocephalus
 Hyperaemia Hyperaesthesia Hyperbilirubinaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hypernatraemia Hypersensitivity
 Hyperthermia Hypertrophy Hypoaesthesia Hypocalcaemia
 Hypoglycaemia Hypokalaemia Hyponatraemia Hypotension
 Hypoxia Ill-defined disorder Immune system disorder
 Incontinence Increased appetite Infarction Infection
 Infestation Inflammation Influenza Insomnia
 International normalised ratio increased Intertrigo
 Intestinal obstruction Irritability Ischaemia Ischaemic
 stroke Jaundice Joint stiffness Keratitis
 Keratoconjunctivitis sicca Lacrimation increased Lactic
 acidosis Leiomyoma Lethargy Leukopenia Libido increased Liver
 function test abnormal Lobar pneumonia Localised infection
 Localised oedema Loss of consciousness Lower respiratory
 tract infection Lung infection Lymphoma Malaise Mediastinal
 disorder Memory impairment Menopausal symptoms Menopause
 Menorrhagia Mental disability Mental disorder Metrorrhagia
 Migraine Mood swings Mouth haemorrhage Mouth ulceration
 Muscle atrophy Muscle fatigue Muscle haemorrhage
 Muscle spasms Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myeloproliferative disorder
 Myocardial infarction Nail hypertrophy Nasal congestion
 Nasopharyngitis Nausea Necrosis Neoplasm Neoplasm
 malignant Nephritis Nephropathy Nervous system disorder
 Nervousness Neutropenia Night sweats Nightmare Nipple pain
 Nocturnal dyspnoea Obstruction Oedema Oedema peripheral
 Oesophageal spasm Onychomycosis Oral candidiasis Oral
 pruritus Organ failure Orthopnoea Orthostatic hypotension
 Osteoarthritis Osteochondrosis Otitis media Ovarian

cyst Oxygen saturation decreased Pain Pain in extremity Pain in jaw
 Pallor Palmar erythema Palpitations Pancreatic
 pseudocyst Pancreatitis acute Pancytopenia Panic attack
 Panic reaction Papilloma Paraesthesia Paraesthesia oral
 Paralysis Paronychia Partial seizures Peptic ulcer
 Pericardial effusion Peripheral ischaemia Petechiae
 Photophobia Pleural disorder Pleural effusion Pleurisy
 Pleuritic pain Pneumonia Pneumonia aspiration
 Pneumothorax Pollakiuria Polyarthritits Polydipsia Polyp
 Post thrombotic syndrome Pregnancy test positive
 Presyncope Proctalgia Protein urine present Proteinuria
 Prothrombin level increased Pruritus Pruritus generalised
 Pruritus genital Pseudocyst Psoriasis Pulmonary arterial
 hypertension Pulmonary embolism Pulmonary function test
 decreased Pulmonary oedema Rash Rash macular Rash papular
 Rash pustular Rectal haemorrhage Red blood cell count
 decreased Renal failure Renal impairment Respiratory depression
 Respiratory failure Respiratory tract infection Restless
 legs syndrome Retching Retinal detachment Retinal disorder
 Retinal tear Rhinitis Right ventricular failure
 Rosacea Sciatica Sensation of foreign body Sensation
 of heaviness Shock Sicca syndrome Sinus bradycardia Sinus
 congestion Sinus headache Sinus operation Sinusitis Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin irritation Skin lesion Skin necrosis Skin
 papilloma Skin ulcer Sleep disorder Sneezing Social avoidant
 behaviour Somnolence Sputum purulent Stomatitis Subarachnoid
 haemorrhage Subcutaneous abscess Supraventricular extrasystoles
 Supraventricular tachycardia Syncope Systemic lupus
 erythematosus Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Testicular pain Thinking abnormal Thirst
 Throat irritation Thrombocytopenia Thrombophlebitis superficial
 Tinnitus Tongue blistering Tongue discolouration Tongue
 disorder Tongue ulceration Tooth abscess Tooth impacted
 Toothache Tracheobronchitis Tremor Tubulointerstitial
 nephritis Ulcer Upper respiratory tract infection Urethral disorder
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urosepsis Urticaria Uterine leiomyoma
 Uterovaginal prolapse VIIth nerve paralysis Vaginal
 haemorrhage Vaginal infection Vaginal prolapse Venous insufficiency
 Venous pressure jugular Venous pressure jugular increased
 Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular failure Ventricular tachycardia
 Vertigo Viral diarrhoea Viral infection Vision blurred
 Visual impairment Vitreous floaters Vomiting Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased Xerophthalmia

Alpha-1D adrenergic receptor - Group: Receptor

Treated with:

dapiprazole: approved small molecule (0 associated side
 effects) Used in the treatment of iatrogenically induced mydriasis
 produced by adrenergic (phenylephrine) or parasympatholytic
 (tropicamide) agents used in certain eye examinations.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

alfuzosin: approved small molecule (92 associated side effects)

For the reduction of urinary obstruction and relief of associated manifestations (eg. sensation of incomplete bladder emptying or straining, urgency, interrupted or weak stream) in patients with symptomatic benign prostatic hyperplasia.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

promazine: approved small molecule (0 associated side effects)

Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

prazosin: approved small molecule (93 associated side effects)

For treatment of hypertension, symptomatic benign prostatic hyperplasia, and severe congestive heart failure. May also be used alone or in combination with β -blockers in the preoperative management of signs and symptoms of pheochromocytoma.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

doxazosin: approved small molecule (243 associated side effects) For treatment and management of mild to moderate hypertension and urinary obstruction symptoms caused by BPH.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

ergotamine: approved small molecule (15 associated side effects)

For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

tamsulosin: approved small molecule (79 associated side effects)

Used in the treatment of signs and symptoms of benign prostatic hyperplasia (reduction in urinary obstruction and relief of associated manifestations such as hesitancy, terminal dribbling of urine, interrupted or weak stream...etc.)

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled

indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

terazosin: approved small molecule (115 associated side effects) For the treatment of symptomatic BPH and mild to moderate hypertension.

pergolide: approved,withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

sertindole: approved,withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

droxidopa: approved small molecule (0 associated side effects) For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

xylometazoline: approved small molecule (0 associated side effects) It is used for treating nasal congestion and minor inflammation due to allergies or colds.

720 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain upper Abnormal dreams Abscess
 Accommodation disorder Acidosis Acne Acute abdomen Acute
 coronary syndrome Acute lymphocytic leukaemia Adenocarcinoma
 Adenoma benign Adjustment disorder Affect lability
 Ageusia Aggression Agitation Agranulocytosis Akathisia
 Akinesia Alanine aminotransferase increased Albright's
 disease Alcohol intolerance Alopecia Amblyopia Amenorrhoea
 Amnesia Anaemia Anaemia megaloblastic Anaphylactic
 shock Aneurysm Angina pectoris Angioedema Angiopathy Anorectal
 discomfort Anoxia Antinuclear antibody positive Anxiety
 Aortic dissection Apathy Aphasia Aphthous stomatitis
 Aplastic anaemia Apnoea Application site reaction
 Arrhythmia Arterial disorder Arteriosclerosis Arthralgia

Arthritis Arthropathy Aspartate aminotransferase increased
 Asthenia Asthma Ataxia Atrial fibrillation
 Atrioventricular block Atrioventricular block first degree
 Atrophy Back pain Balance disorder Benign neoplasm
 Benign neoplasm of skin Bladder cancer Bladder pain
 Blepharitis Blepharospasm Blindness Blister Blood
 alkaline phosphatase increased Blood cholesterol increased Blood
 creatinine increased Blood glucose increased Blood pressure
 diastolic decreased Blood pressure fluctuation Blood pressure
 increased Blood pressure systolic decreased Blood uric acid
 increased Body temperature decreased Body temperature increased
 Bone pain Bone sarcoma Bradycardia Brain oedema
 Breast cancer Breast cyst Breast disorder Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Bronchitis Bronchospasm Bruxism
 Buccoglossal syndrome Bundle branch block Bursitis
 Cachexia Calculus urinary Candidiasis Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac valve disease Cardiomyopathy
 Cardiovascular disorder Cataract Catatonia Cellulitis
 Cerebral haemorrhage Cerebral ischaemia Cerebrospinal
 fluid rhinorrhoea Cerebrovascular accident Cerebrovascular
 disorder Cervix carcinoma Chest pain Chills Cholecystitis
 Cholelithiasis Cholestasis Choreoathetosis Cogwheel rigidity
 Cold sweat Colitis Coma Completed suicide Confusional state
 Congenital eye disorder Conjunctivitis Connective tissue
 disorder Constipation Convulsion Coordination abnormal
 Coronary artery disease Cough Crocodile tears syndrome
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Deep vein
 thrombosis Deficiency anaemia Dehydration Delirium Delusion
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Dermatitis atopic Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Diabetes mellitus Diabetic coma
 Diabetic hyperglycaemic coma Diabetic ketoacidosis Diarrhoea
 Diplopia Discomfort Disease progression Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulitis Dizziness Dizziness postural Drooling
 Drug abuse Drug dependence Drug hypersensitivity Drug
 interaction Dry eye Dry mouth Dry skin Dry throat Duodenitis
 Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphemia Dysphonia Dyspnoea Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram ST
 segment elevation Electrocardiogram T wave inversion Electrocardiogram
 abnormal Electrocardiogram change Electrolyte imbalance
 Elevated mood Embolism Emphysema Encephalopathy
 Endocrine disorder Enuresis Eosinophilia
 Epididymitis Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythromelalgia Euphoric

mood Extrapyrarnidal disorder Extrasystoles Extravasation
 Eye disorder Eye haemorrhage Eye infection Eye pain
 Face oedema Faecal incontinence Fasting Fatigue Fear
 Feeling abnormal Feeling cold Fibrocystic breast disease
 Fibrosis Flat affect Flatulence Floppy iris syndrome
 Flushing Foetor hepaticus Folliculitis Fungal infection
 Fungal skin infection Gait disturbance Galactorrhoea
 Gamma-glutamyltransferase increased Gangrene Gastric
 disorder Gastric ulcer Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Genital discharge Gestational
 hypertension Gingival bleeding Gingival recession Gingivitis
 Glaucoma Glossitis Glycosuria Gout Gynaecomastia
 Haematemesis Haematochezia Haematocrit decreased
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobinuria Haemolysis Haemoptysis Haemorrhage Haemorrhage
 intracranial Haemorrhoids Haemothorax Hallucination
 Hallucination, visual Headache Hearing impaired Heart rate
 irregular Hemiplegia Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Hormone
 level abnormal Hostility Hot flush Hyperaemia
 Hyperbilirubinaemia Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hyperpyrexia
 Hypersensitivity Hypersomnia Hypertension Hyperthyroidism
 Hypertonia Hypertrophy Hyperuricaemia Hyperuricosuria
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypochromic anaemia Hypoglycaemia Hypogonadism
 Hypokalaemia Hypokinesia Hypomania Hyponatraemia
 Hypophosphataemia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovolaemia Hypoxia Ileus
 paralytic Ill-defined disorder Immune system disorder
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Infarction Infection Infestation
 Influenza Influenza like illness Injection site pain
 Injection site reaction Insomnia Intermittent
 claudication Interstitial lung disease Intervertebral disc
 disorder Intestinal obstruction Intracranial pressure increased
 Intraocular pressure increased Iron deficiency Iron
 deficiency anaemia Irritability Ischaemia Jaundice Joint
 range of motion decreased Ketoacidosis Laboratory test
 abnormal Lacrimation decreased Lacrimation increased Lactic
 acidosis Laryngeal disorder Laryngeal oedema Laryngitis
 Laryngospasm Lethargy Leukaemia Leukocytosis
 Leukopenia Libido decreased Libido increased Lichen planus
 Lichenoid keratosis Lip blister Lip dry Liver disorder
 Liver function test abnormal Liver injury Local reaction
 Localised oedema Loss of consciousness Lower respiratory
 tract infection Lung adenocarcinoma stage I Lung disorder Lung
 infiltration Lung neoplasm malignant Lymphadenitis
 Lymphadenopathy Lymphocytosis Malaise Malignant

melanoma Mania Mediastinal disorder Melaena Meningitis
 Menopausal symptoms Menopause Menorrhagia Mental disability
 Mental disorder Mental retardation Mental status changes
 Metrorrhagia Micturition disorder Migraine Miosis
 Mood swings Motion sickness Mouth ulceration Movement disorder
 Muscle atrophy Muscle contractions involuntary Muscle
 relaxant therapy Muscle rigidity Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 pain Musculoskeletal stiffness Myalgia Mydriasis Myelitis
 Myocardial infarction Myocardial ischaemia Myocarditis
 Myoclonus Myopia Myositis Nail disorder Narcolepsy
 Nasal congestion Nasal disorder Nasal obstruction
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Neoplasm recurrence Nephrolithiasis
 Nephrotic syndrome Nervous system disorder Nervousness
 Neuralgia Neuritis Neuroleptic malignant syndrome
 Neurological symptom Neuropathy peripheral Neurosis
 Neutropenia Neutrophil count decreased Night sweats
 Nightmare Nocturia Nodule Nuchal rigidity Obstruction
 Ocular hyperaemia Oedema Oedema peripheral Oesophageal
 disorder Oesophageal ulcer Oesophagitis Oliguria
 Onychomycosis Orchitis noninfective Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteomyelitis Osteoporosis Otitis
 media Pain Pain in extremity Pain in jaw Pain of skin Pallor
 Palpitations Pancreatitis Pancytopenia Panic
 reaction Paraesthesia Paralysis Paranoia Paresis
 Parkinsonian gait Parkinsonism Parosmia Parotid gland
 enlargement Pathological fracture Pathological gambling Pelvic pain
 Peptic ulcer Pericardial effusion Pericardial
 haemorrhage Pericarditis Pericarditis constrictive Perineal
 pain Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Personality disorder Petechiae Pharyngeal
 disorder Pharyngitis Photophobia Photosensitivity reaction
 Platelet count decreased Pleural disorder Pleural effusion
 Pleural fibrosis Pneumonia Pneumothorax Poisoning
 Pollakiuria Polycythaemia Polymyalgia rheumatica Polyp
 Polyuria Pre-eclampsia Pregnancy Presyncope Priapism
 Proctalgia Prolactinoma Prostatic disorder Protrusion
 tongue Pruritus Pruritus genital Psoriasis Psychotic
 disorder Pulmonary embolism Pulmonary fibrosis Pulmonary
 hypertension Pulmonary oedema Pulse absent Purpura
 Pyelonephritis Pyuria Rales Rash Rash erythematous Rash
 maculo-papular Rash papular Rash pustular Raynaud's
 phenomenon Rectal haemorrhage Rectal tenesmus Regressive
 behaviour Renal failure Renal failure acute Renal impairment
 Renal pain Respiratory disorder Respiratory failure
 Respiratory tract infection Restless legs syndrome Retinal
 detachment Retinal disorder Retinal vascular disorder Retrograde
 ejaculation Retroperitoneal fibrosis Rhabdomyolysis Rhinitis
 Rhinitis seasonal Rhinorrhoea Rosacea Salivary gland
 enlargement Salivary hypersecretion Salpingitis Sarcoma
 Sciatica Scleral disorder Scotoma Seasonal allergy
 Seborrhoeic dermatitis Sedation Semen analysis abnormal
 Sensation of heaviness Sensory loss Sepsis Sexual

dysfunction Shock Sialoadenitis Sinus arrhythmia Sinus congestion
Sinus disorder Sinus headache Sinusitis Skin cancer Skin
discolouration Skin disorder Skin exfoliation Skin hypertrophy
Skin irritation Skin mass Skin ulcer Sleep disorder Sleep
paralysis Sluggishness Social avoidant behaviour
Somnambulism Somnolence Speech disorder Splenomegaly
Status epilepticus Stevens-Johnson syndrome Stomatitis
Stupor Subarachnoid haemorrhage Subcutaneous nodule
Subdural haematoma Sudden death Suicidal ideation
Suicide attempt Superior sagittal sinus thrombosis
Supraventricular tachycardia Swelling Syncope Systemic
lupus erythematosus Tachycardia Tardive dyskinesia Tenderness
Tendon disorder Tenosynovitis Tension Teratogenicity
Testicular swelling Thinking abnormal Thirst Thought
blocking Throat tightness Thrombocytopenia Thrombocytosis
Thrombophlebitis Thrombosis Thyroid adenoma Tinnitus
Tongue discolouration Tongue disorder Tongue oedema Tooth
abscess Tooth disorder Tooth hypoplasia Tooth infection
Toothache Torsade de pointes Torticollis Transaminases
increased Tremor Ulcer Upper respiratory tract infection
Urethral disorder Urethral pain Urinary incontinence
Urinary retention Urinary tract disorder Urinary tract
infection Urine abnormality Urine analysis abnormal Urine
output increased Urticaria Uterine haemorrhage VIIth nerve
paralysis Vaginal haemorrhage Vaginal infection Vaginal
inflammation Varicose vein Vascular purpura Vasculitis
Vasoconstriction Vasodilation procedure Vasospasm Ventricular
extrasystoles Ventricular tachycardia Vertigo Viral
diarrhoea Viral infection Vision blurred Visual acuity reduced
Visual impairment Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Vulvovaginitis Water
intoxication Weight decreased Weight increased Wheezing White
blood cell count decreased Withdrawal bleed Yawning

Nuclear receptor coactivator 1 - Group: Other

Treated with:

genistein: experimental small molecule (0 associated side effects)

(11-beta)-11,21-dihydroxy-pregn-4-ene-3,20-dione: experimental small molecule (0 associated side effects)

2-(3-fluoro-4-hydroxyphenyl)-7-vinyl-1,3-benzoxazol-5-ol: experimental small molecule (0 associated side effects)

3-(3-fluoro-4-hydroxyphenyl)-7-hydroxy-1-naphthonitrile: experimental small molecule (0 associated side effects)

(2s)-3-(1-{[2-(2-chlorophenyl)-5-methyl-1,3-oxazol-4-yl]methyl}-1h-indol-5-yl)-2-ethoxypropanoic acid: experimental small molecule (0 associated side effects)

[5-hydroxy-2-(4-hydroxyphenyl)-1-benzofuran-7-yl]acetonitrile: experimental small molecule (0 associated side effects)

2-(5-hydroxy-naphthalen-1-yl)-1,3-benzooxazol-6-ol: experimental small molecule (0 associated side effects)

n-(2,2,2-trifluoroethyl)-n-{4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl}benzenesulfonamide: experimental small molecule (0 associated side effects)

1-chloro-6-(4-hydroxyphenyl)-2-naphthol: experimental small molecule (0 associated side effects)

4-(4-hydroxyphenyl)-1-naphthaldehyde oxime: experimental small molecule (0 associated side effects)

5-hydroxy-2-(4-hydroxyphenyl)-1-benzofuran-7-carbonitrile: experimental small molecule (0 associated side effects)

2-methyl-2-(4-[(4-methyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)carbonyl]amino)methylphenoxy)propanoic acid: experimental small molecule (0 associated side effects)

3-bromo-6-hydroxy-2-(4-hydroxyphenyl)-1h-inden-1-one: experimental small molecule (0 associated side effects)

3-(6-hydroxy-naphthalen-2-yl)-benzo[d]isooxazol-6-ol: experimental small molecule (0 associated side effects)

(1r,3r)-5-[(2e)-3-[(1s,3r)-2,2,3-trimethyl-3-[6,6,6-trifluoro-5-hydroxy-5-(trifluoromethyl)hex-3-yn-1-yl]cyclopentyl]prop-2-en-1-ylidene]cyclohexane-1,3-diol: experimental small molecule (0 associated side effects)

(5beta)-pregnane-3,20-dione: experimental small molecule (0 associated side effects)

3-{5-methoxy-1-[(4-methoxyphenyl)sulfonyl]-1h-indol-3-yl}propanoic acid: experimental small molecule (0 associated side effects)

(8alpha,10alpha,13alpha,17beta)-17-[(4-hydroxyphenyl)carbonyl]androsta-3,5-diene-3-carboxylic acid: experimental small molecule (0 associated side effects)

myristic acid: experimental small molecule (0 associated side effects)

(2s)-2-methoxy-3-{4-[2-(5-methyl-2-phenyl-1,3-oxazol-4-yl)ethoxy]-1-benzothiophen-7-yl}propanoic acid: experimental small molecule (0 associated side effects)

1,3-cyclohexanediol, 4-methylene-5-[(2e)-[(1s,3as,7as)-octahydro-1-(5-hydroxy-5-methyl-1,3-hexadiynyl)-7a-methyl-4h-inden-4-ylidene]ethylidene]-, (1r,3s,5z): experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Mitochondrial ornithine transporter 2 - Group: Transporter

Treated with:

l-ornithine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance. It has been claimed that ornithine improves athletic performance, has anabolic effects, has wound-healing effects, and is immuno-enhancing.

known side effects mediated through drugs targeting this protein:

Sodium channel protein type 3 subunit alpha - Group: Channel

Treated with:

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

190 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Acne Agitation Alanine
aminotransferase increased Albuminuria Alopecia Amblyopia
Amenorrhoea Anaemia Anxiety Apnoea Arthralgia
Arthritis Aspartate aminotransferase increased Asthenia
Ataxia Atrial fibrillation Bladder pain Blood
lactate dehydrogenase increased Bradycardia Calculus bladder
Cardiac failure Cardiac fibrillation Cerebrovascular
accident Chest pain Cholangitis Cholecystitis Cholelithiasis
Cognitive disorder Colitis Confusional state
Conjunctivitis Constipation Convulsion Coordination
abnormal Cough Deafness Decreased appetite Dehydration
Depressed level of consciousness Dermatitis Dermatitis
bullous Diarrhoea Diplopia Discomfort Disturbance in sexual
arousal Dizziness Dry mouth Dry skin Duodenal ulcer
Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia
Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis
Eczema Embolism Encephalopathy Enuresis Erectile
dysfunction Euphoric mood Extrasystoles Face oedema Faecal
incontinence Fatigue Feeling abnormal Flank pain Flatulence
Gait disturbance Gastritis Gastroenteritis Gastrointestinal
pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
Glossitis Gynaecomastia Haematemesis Haematuria
Haemoglobin Haemoptysis Haemorrhage Headache Hirsutism
Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
Hyperreflexia Hypersensitivity Hypertension Hypertonia
Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
Hypotonia Ill-defined disorder Immunodeficiency
Incontinence Influenza Insomnia Iritis
Irritability Jaundice Jaundice cholestatic Leukopenia
Libido decreased Loss of consciousness Lymphadenopathy
Malaise Mastitis Melaena Menorrhagia Microcytic
anaemia Micturition urgency Mouth ulceration Movement disorder
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myoclonus Nausea
Nervousness Neuritis Neuropathy peripheral Nocturia
Nuchal rigidity Nystagmus Oculogyric crisis Oedema
Oedema peripheral Oesophagitis Osteoarthritis Pain
Palpitations Paraesthesia oral Paralysis Parosmia
Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
Pruritus Psychotic disorder Pulmonary embolism Rash
Rash maculo-papular Rash pustular Rectal haemorrhage
Rhinitis Scotoma Shock Somnolence Speech disorder
Stomatitis Syncope Systemic lupus erythematosus Tachycardia
Tension Thirst Thrombocytopenia Thrombophlebitis
Tinnitus Tremor Ulcer Urinary incontinence Urinary
retention Urine output increased Urticaria VIIIth nerve paralysis
Vascular insufficiency Ventricular extrasystoles Vertigo
Vomiting Weight decreased Weight increased

Potassium voltage-gated channel subfamily H member 7 - Group:
Channel

Treated with:

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or atrial flutter of recent onset to sinus rhythm.

prazosin: approved small molecule (93 associated side effects)

For treatment of hypertension, symptomatic benign prostatic hyperplasia, and severe congestive heart failure. May also be used alone or in combination with β -blockers in the preoperative management of signs and symptoms of pheochromocytoma.

doxazosin: approved small molecule (243 associated side effects) For treatment and management of mild to moderate hypertension and urinary obstruction symptoms caused by BPH.

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis (athlete's foot), tinea cruris, and tinea corporis caused by *Trichophyton rubrum*, *Trichophyton mentagrophytes*, and *Epidermophyton floccosum*, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.

terazosin: approved small molecule (115 associated side effects) For the treatment of symptomatic BPH and mild to moderate hypertension.

311 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Acute coronary syndrome Affect lability
Agitation Alopecia Amblyopia Amnesia Anaphylactic
shock Anaphylactoid reaction Aneurysm Angina pectoris Angioedema
Anorectal discomfort Anoxia Antinuclear antibody
positive Anxiety Apathy Arrhythmia Arthralgia Arthritis
Arthropathy Asthenia Asthma Ataxia Atrial
fibrillation Atrioventricular block first degree
Atrioventricular block second degree Back pain Bladder
pain Blindness Blood creatine phosphokinase increased Blood
creatinine increased Blood urea increased Blood uric acid
increased Body temperature increased Bradycardia Breast disorder
Breast neoplasm Breast pain Bronchitis Bronchospasm
Bundle branch block Burning sensation Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cataract Cerebrovascular accident
Cerebrovascular disorder Chest pain Chills
Cholelithiasis Cholestasis Confusional state Congenital eye
disorder Conjunctivitis Constipation Convulsion
Coordination abnormal Cough Crocodile tears syndrome
Cystitis Cystitis noninfective Deafness Death Decreased
appetite Dehydration Depersonalisation Dermatitis Dermatitis
contact Diarrhoea Diplopia Discomfort Disturbance in
attention Disturbance in sexual arousal Diverticulitis
Dizziness Dizziness postural Dry mouth Dry skin
Dysgeusia Dyskinesia Dyspepsia Dysphagia Dyspnoea
Dysuria Ear infection Ear pain Eczema Ejaculation
failure Electrocardiogram abnormal Encephalopathy

Epididymitis Epistaxis Erectile dysfunction Erythema
 Extrasystoles Eye disorder Eye pain Face oedema
 Faecal incontinence Fatigue Feeling abnormal Flat affect
 Flatulence Floppy iris syndrome Flushing Fungal infection
 Gastric ulcer Gastritis Gastroenteritis Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrointestinal tract irritation
 Genital burning sensation Genital dischargeGingivitis Gout
 Gynaecomastia Haematocrit decreased Haematuria Haemoglobin
 decreased HaemorrhageHallucination Headache Hepatic function
 abnormal Hepatitis cholestatic Hernia Herpes simplex
 Herpes virus infection Herpes zoster Hot flush
 Hyperglycaemia Hyperhidrosis Hypersensitivity
 Hypertension Hypertonia HypertrophyHyperuricaemia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypophosphataemia
 Hypotension Hypotonia Ill-defined disorder Immune system
 disorder Incontinence Increased appetite Infarction
 Infection Influenza Influenza like illness Insomnia
 Intermittent claudication Ischaemia Jaundice Lacrimation
 increased Laryngospasm Leukocytosis Leukopenia Libido
 decreased Lichen planus Liver function test abnormal Loss of
 consciousness Lung neoplasm malignant Lymphadenopathy
 Malaise Melaena Menopausal symptoms Menopause
 Mental disabilityMental disorder Micturition disorder
 Migraine Miosis Mood swings Movement disorderMuscle
 spasms Muscle twitching Muscular weaknessMusculoskeletal
 discomfort Musculoskeletal pain Myalgia Myocardial infarction
 Myocardial ischaemia Myopia Nail disorder Narcolepsy
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Neoplasm Neoplasm malignant Nephrolithiasis Nervous
 system disorder Nervousness Neutropenia Nightmare Nodal arrhythmia
 Oedema Oedema peripheralOesophagitis Oliguria
 Orthostatic hypotension Osteoarthritis Otitis media
 Pain Pain of skin Pallor Palpitations
 Pancreatitis Paraesthesia Paresis Parosmia
 Pelvic painPerineal pain Peripheral ischaemia Pharyngitis
 Photophobia Photosensitivity reaction Platelet disorder
 Pneumonia Pollakiuria Polymyalgia rheumatica Polyuria
 Priapism Proctalgia Prostatic disorder Pruritus
 Pruritus genital Psoriasis Purpura Rash erythematousRash
 maculo-papular Rash papular Rectal haemorrhage Rectal
 tenesmus Renal failure Renal pain Respiratory disorder
 Respiratory tract infection Retinal disorder Retrograde
 ejaculation Rhinitis Rhythm idioventricular Scleral disorder
 Scotoma Seborrhoeic dermatitis Semen analysis abnormal
 Sepsis Sexual dysfunction Shock Sinus bradycardiaSinus
 tachycardia Sinusitis Skin disorder Skin hypertrophy Somnolence
 Speech disorder Subarachnoid haemorrhage Sudden death
 Supraventricular extrasystoles Supraventricular tachycardia
 Syncope Tachyarrhythmia Tachycardia Tendon disorder
 Tension Thinking abnormalThirst Thrombocytopenia
 Tinnitus Tongue disorder Tooth disorder Tooth hypoplasia
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retentionUrinary tract
 disorder Urinary tract infection Urine abnormalityUrine
 analysis abnormalUrine output increased Urticaria Vaginal discharge

Vascular purpura Vasculitis Vasodilation procedure Ventricular
arrhythmia Ventricular extrasystoles Ventricular tachycardia
Vertigo Viral infection Vision blurred Visual acuity
reduced Visual impairment Vomiting Vulvovaginal discomfort
Vulvovaginal erythema Weight decreased Weight increased

Histamine H2 receptor - Group: Receptor

Treated with:

betazole: approved small molecule (0 associated side effects)

For use clinically to test gastric secretory function.

cimetidine: approved small molecule (50 associated side effects)

For the treatment and the management of acid-reflux disorders (GERD), peptic ulcer disease, heartburn, and acid indigestion.

nizatidine: approved small molecule (74 associated side effects)

For the treatment of acid-reflux disorders (GERD), peptic ulcer disease, active benign gastric ulcer, and active duodenal ulcer.

histamine phosphate: approved small molecule (0 associated side effects) Histamine phosphate is indicated as a diagnostic aid for evaluation of gastric acid secretory function.

epinastine: approved small molecule (12 associated side effects)

For the prevention of itching associated with allergic conjunctivitis.

ranitidine: approved small molecule (79 associated side effects)

Used in the treatment of peptic ulcer disease (PUD), dyspepsia, stress ulcer prophylaxis, and gastroesophageal reflux disease (GERD).

famotidine: approved small molecule (105 associated side effects) For the treatment of peptic ulcer disease (PUD) and gastroesophageal reflux disease (GERD).

methantheline: approved small molecule (0 associated side effects) For the treatment of peptic ulcer disease, irritable bowel syndrome, pancreatitis, gastritis, biliary dyskinesia, pylorospasm, and reflex neurogenic bladder in children.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

metiamide: experimental small molecule (0 associated side effects) Potential in the treatment and the management of acid-reflux disorders (GERD), peptic ulcer disease, heartburn, and acid indigestion.

roxatidine acetate: approved small molecule (0 associated side effects) For the treatment of disorders of the upper gastrointestinal region that are due to an excess of hydrochloric acid in the gastric juice, i.e. duodenal ulcers, benign gastric ulcers. Also for prophylaxis of recurrent gastric and duodenal ulcers

305 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Acne
Adenocarcinoma Adjustment disorder Ageusia Agitation
Agranulocytosis Alanine aminotransferase increased Alopecia
Amblyopia Anaemia Anaphylactic shock Angina pectoris

Angioedema Angiopathy Anxiety Aortic dissection Aphthous
 stomatitis Aplasia Aplastic anaemia Application site reaction
 Arrhythmia Arthralgia Arthritis Asthenia Asthma
 Ataxia Atrioventricular block Back pain Benign prostatic
 hyperplasia Blepharospasm Blister Blood glucose increased
 Blood pressure increased Blood uric acid increased Body
 temperature increased Bradycardia Breast cyst Breast disorder
 Bronchitis Bronchospasm Burning sensation Cardiac arrest
 Cardiac disorder Cellulitis Cerebrovascular accident Chest
 pain Chills Cold sweat Completed suicide Confusional state
 Conjunctival hyperaemia Connective tissue disorder
 Constipation Convulsion Cough Cyst Cytolytic hepatitis
 Deafness Death Decreased appetite Delirium Delusion
 Dependence Dermatitis Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Diarrhoea Diplopia Discomfort
 Disorientation Disturbance in attention Disturbance in
 sexual arousal Dizziness Drug dependence Dry mouth Dry skin
 Dry throat Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dyspnoea Dystonia Dysuria Ear pain Eczema
 Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Elevated mood Enuresis Eosinophilia Erectile
 dysfunction Erosive oesophagitis Erythema Erythema multiforme
 Eustachian tube disorder Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye disorder Eye
 infection Eye pain Face oedema Fatigue Feeling abnormal
 Fibrosis Flatulence Flushing Foetor hepaticus
 Folliculitis Fungal infection Gait disturbance
 Galactorrhoea Gastroenteritis Gastrointestinal disorder
 Gastrointestinal pain Gastrooesophageal reflux disease
 Gingival recession Gingivitis Glossodynia Gout Grand mal
 convulsion Gynaecomastia Haematochezia Haematoma Haematuria
 Haemoglobin Haemoglobinuria Haemolytic anaemia Haemorrhage
 Hallucination Headache Hearing impaired Hepatic enzyme
 increased Hepatic failure Hepatic fibrosis Hepatitis
 Hepatobiliary disease Hepatocellular injury Herpes virus
 infection Herpes zoster Hot flush Hyperaemia
 Hyperbilirubinaemia Hyperhidrosis Hyperkalaemia
 Hypermagnesaemia Hyperpyrexia Hypersensitivity
 Hypertension Hypertrophy Hyperuricaemia Hypoaesthesia
 oral Hypokalaemia Hypotension Hypotrichosis Ill-defined
 disorder Immune system disorder Inappropriate antidiuretic hormone
 secretion Increased appetite Infection Infestation Influenza
 Insomnia Interstitial lung disease Irritability
 Jaundice Jaundice cholestatic Joint range of motion
 decreased Lacrimation decreased Lacrimation increased Laryngeal
 oedema Laryngitis Lethargy Leukocytoclastic vasculitis
 Leukopenia Libido decreased Lip blister Lip dry Liver
 disorder Liver injury Loss of consciousness Loss of libido
 Lower respiratory tract infection Lung adenocarcinoma stage I
 Malaise Malignant melanoma Mania Mediastinal disorder
 Meningitis Menopausal symptoms Menstrual disorder
 Mental disability Mental disorder Migraine Motion sickness
 Movement disorder Muscle spasms Musculoskeletal discomfort
 Musculoskeletal pain Myalgia Nasal congestion
 Nasopharyngitis Nausea Neck pain Neoplasm Nephritis

Nephrolithiasis Nervous system disorder Nervousness
 Neutropenia Neutrophil count decreased Nightmare Nocturia
 Ocular hyperaemia Oedema Oedema peripheral Onychomycosis
 Orbital oedema Oropharyngeal pain Pain Pain in extremity
 Pallor Palpitations Pancreatitis Pancreatitis
 acute Pancytopenia Paraesthesia Paralysis Pharyngeal
 disorder Pharyngitis Photosensitivity reaction Pneumonia
 Pollakiuria Polymyositis Polyp Presyncope Pruritus
 Psychotic disorder Purpura Rales Rash Renal impairment
 Renal tubular disorder Respiratory tract infection Rhinitis
 Rhinorrhoea Rosacea Sedation Sensation of heaviness
 Sensory loss Serum sickness Shock Sinus congestion Sinus
 disorder Sinusitis Skin irritation Sleep paralysis Sneezing
 Somnolence Stevens-Johnson syndrome Stomatitis
 Strongyloidiasis Supraventricular extrasystoles Swelling
 Syncope Tachycardia Tardive dyskinesia Tenosynovitis
 Tension Testicular swelling Thinking abnormal Thirst
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Tinnitus Tooth disorder Tooth infection Toxic epidermal
 necrolysis Transaminases increased Tremor
 Tubulointerstitial nephritis Upper respiratory tract infection
 Urethral disorder Urinary retention Urinary tract disorder
 Urinary tract infection Urticaria Vascular purpura
 Vasculitis Ventricular extrasystoles Ventricular
 tachycardia Vertigo Viral diarrhoea Viral infection Vision
 blurred Vomiting Weight increased Wheezing White blood cell
 count decreased

Oligopeptide transporter, kidney isoform - Group: Transporter

Treated with:

ramipril: approved small molecule (147 associated side effects) For the management of mild to severe hypertension. May be used to reduce cardiovascular mortality following myocardial infarction in hemodynamically stable individuals who develop clinical signs of congestive heart failure within a few days following myocardial infarction. To reduce the rate of death, myocardial infarction and stroke in individuals at high risk of cardiovascular events. May be used to slow the progression of renal disease in individuals with hypertension, diabetes mellitus and microalbuminuria or overt nephropathy.

cefmetazole: approved small molecule (0 associated side effects) For the treatment of infections caused by susceptible organisms.

ampicillin: approved small molecule (30 associated side effects)

For treatment of infection (Respiratory, GI, UTI and meningitis) due to E. coli, P. mirabilis, enterococci, Shigella, S. typhosa and other Salmonella, nonpenicillinase-producing N. gonorrhoeae, H. influenzae, staphylococci, streptococci including streptococci

ceftazidime: approved small molecule (71 associated side effects) For the treatment of patients with infections caused by susceptible strains of organisms in the following diseases: lower respiratory tract infections, skin and skin structure infections, urinary tract infections, bacterial septicemia, bone and joint

infections, gynecologic infections, intra abdominal infections (including peritonitis), and central nervous system infections (including meningitis).

loracarbef: approved small molecule (0 associated side effects)

Used to treat upper respiratory tract bacterial infections, chronic bronchitis, pneumonia, sinusitis, pharyngitis and tonsillitis, skin abscesses, urinary tract infections and pyelonephritis caused by *E. coli*, *S. pyogenes*, *S. aureus*, *S. saprophyticus*, *S. pneumoniae*, *H. influenzae* and *M. catarrhalis*.

cefalotin: approved small molecule (0 associated side effects)

Used to prevent infection during surgery and to treat many kinds of infections of the blood, bone or joints, respiratory tract, skin, and urinary tract.

dicloxacillin: approved small molecule (66 associated side effects) Used to treat infections caused by penicillinase-producing staphylococci which have demonstrated susceptibility to the drug.

fosinopril: approved small molecule (155 associated side effects) For treating mild to moderate hypertension, use as an adjunct in treating congestive heart failure, and may be used to slow the rate of progression of renal disease in hypertensive individuals with diabetes mellitus and microalbuminuria or overt nephropathy.

cefotaxime: approved small molecule (55 associated side effects)

Used to treat gonorrhoea, meningitis, and severe infections including infections of the kidney (pyelonephritis) and urinary system. Also used before an operation to prevent infection after surgery.

trandolapril: approved small molecule (172 associated side effects) For the treatment of mild to moderate hypertension, as an adjunct in the treatment of congestive heart failure (CHF), to improve survival following myocardial infarction (MI) in individuals who are hemodynamically stable and demonstrate symptoms of left ventricular systolic dysfunction or signs of CHF within a few days following acute MI, and to slow progression of renal disease in hypertensive patients with diabetes mellitus and microalbuminuria or overt nephropathy.

cefdinir: approved small molecule (109 associated side effects) For the treatment of the respiratory, skin, soft tissue, and ENT infections caused by *H. influenzae* (including b-lactamase producing strains), *H. parainfluenzae* (including b-lactamase producing strains), *S. pneumoniae* (penicillin-susceptible strains), *S. pyogenes*, *S. aureus* (including b-lactamase producing strains), and *M. catarrhalis*.

benazepril: approved small molecule (103 associated side effects) For the treatment of hypertension. It may be used alone or in combination with thiazide diuretics.

cephalexin: approved small molecule (65 associated side effects)

For the treatment of respiratory tract infections caused by *Streptococcus pneumoniae* and

< i> Streptococcus pyogenes < / i>; otitis media due to < i> Streptococcus pneumoniae < / i>, < i> Haemophilus influenzae < / i>, < i> Staphylococcus aureus < / i>, < i> Streptococcus pyogenes < / i>, and < i> Moraxella catarrhalis < / i>; skin and skin structure infections caused by < i> Staphylococcus aureus < / i> and/or < i> Streptococcus pyogenes < / i>; bone infections caused by < i> Staphylococcus aureus < / i> and/or < i> Proteus mirabilis < / i>; genitourinary tract infections, including acute prostatitis, caused by < i> Escherichia coli < / i>, < i> Proteus mirabilis < / i>, and < i> Klebsiella pneumoniae < / i>.

valaciclovir: approved small molecule (0 associated side effects) For the treatment or suppression of cold sores (herpes labialis), herpes zoster (shingles), genital herpes in immunocompetent individuals, and recurrent genital herpes in HIV-infected individuals.

cefixime: approved small molecule (55 associated side effects)

For use in the treatment of the following infections when caused by susceptible strains of the designated microorganisms: (1) uncomplicated urinary tract infections caused by < i> Escherichia coli < / i> and < i> Proteus mirabilis < / i>; (2) otitis media caused by < i> Haemophilus influenzae < / i> (beta-lactamase positive and negative strains), < i> Moraxella catarrhalis < / i> (most of which are beta-lactamase positive), and < i> S. pyogenes < / i>; (3) pharyngitis and tonsillitis caused by < i> S. pyogenes < / i>; (4) acute bronchitis and acute exacerbations of chronic bronchitis caused by < i> Streptococcus pneumoniae < / i> and < i> Haemophilus influenzae < / i> (beta-lactamase positive and negative strains), and (5) uncomplicated gonorrhea (cervical/urethral) caused by < i> Neisseria gonorrhoeae < / i> (penicillinase- and non-penicillinase-producing strains).

chlorpropamide: approved small molecule (33 associated side effects) For treatment of NIDDM in conjunction with diet and exercise.

moexipril: approved small molecule (74 associated side effects) For the treatment of hypertension.

nateglinide: approved small molecule (32 associated side effects) For the treatment of non-insulin dependent-diabetes mellitus in conjunction with diet and exercise.

perindopril: approved small molecule (187 associated side effects) For the treatment of mild to moderate essential hypertension, mild to moderate congestive heart failure, and to reduce the cardiovascular risk of individuals with hypertension or post-myocardial infarction and stable coronary disease.

cefaclor: approved small molecule (132 associated side effects) For the treatment of certain infections caused by bacteria such as pneumonia and ear, lung, skin, throat, and urinary tract infections.

aminolevulinic acid: approved small molecule (30 associated side effects) Aminolevulinic acid plus blue light illumination using a blue light photodynamic therapy illuminator is indicated for

the treatment of minimally to moderately thick actinic keratoses of the face or scalp.

quinapril: approved small molecule (123 associated side effects) For the treatment of hypertension and as adjunct therapy in the treatment of congestive heart failure. May also be used to slow the rate of progression of renal disease in hypertensive individuals with diabetes mellitus and microalbuminuria or overt nephropathy.

cyclacillin: approved small molecule (0 associated side effects) For the treatment of bacterial infections caused by susceptible organisms.

glyburide: approved small molecule (52 associated side effects)

Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

penicillin g: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

amoxicillin: approved small molecule (66 associated side effects) For the treatment of infections of the ear, nose, and throat, the genitourinary tract, the skin and skin structure, and the lower respiratory tract due to susceptible (only b-lactamase-negative) strains of *Streptococcus* spp. (a- and b-hemolytic strains only), *S. pneumoniae*, *Staphylococcus* spp., *H. influenzae*, *E. coli*, *P. mirabilis*, or *E. faecalis*. Also for the treatment of acute, uncomplicated gonorrhea (ano-genital and urethral infections) due to *N. gonorrhoeae* (males and females).

cefuroxime: approved small molecule (107 associated side effects) For the treatment of many different types of bacterial infections such as bronchitis, sinusitis, tonsillitis, ear infections, skin infections, gonorrhea, and urinary tract infections.

tolbutamide: approved small molecule (0 associated side effects) For treatment of NIDDM (non-insulin-dependent diabetes mellitus) in conjunction with diet and exercise.

cefadroxil: approved small molecule (63 associated side effects)

For the treatment of the following infections (skin, UTI, ENT) caused by; *S. pneumoniae*, *H. influenzae*, staphylococci, *S. pyogenes* (group A beta-hemolytic streptococci), *E. coli*, *P. mirabilis*, *Klebsiella* sp, coagulase-negative staphylococci and *Streptococcus pyogenes*.

ceftriaxone: approved small molecule (95 associated side effects) For the treatment of the infections (respiratory, skin, soft tissue, UTI, ENT) caused by *S. pneumoniae*, *H. influenzae*, staphylococci, *S. pyogenes* (group A beta-hemolytic streptococci), *E. coli*, *P. mirabilis*, *Klebsiella* sp, coagulase-negative staph

cefradine: approved small molecule (0 associated side effects)

cilazapril: approved small molecule (146 associated side effects) Cilazapril is an ACE inhibitor class drug used in the treatment of hypertension and heart failure.

spirapril: approved small molecule (0 associated side effects) Spirapril is an ACE inhibitor class drug used to treat hypertension.

cefepime: approved small molecule (73 associated side effects)

For the treatment of pneumonia (moderate to severe) caused by *Streptococcus pneumoniae*, including cases associated with concurrent bacteremia, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, or *Enterobacter* species. Also for empiric treatment of febrile neutropenic patients and uncomplicated and complicated urinary tract infections (including pyelonephritis) caused by *Escherichia coli* or *Klebsiella pneumoniae*, when the infection is severe, or caused by *Escherichia coli*, *Klebsiella pneumoniae*, or *Proteus mirabilis*, when the infection is mild to moderate, including cases associated with concurrent bacteremia with these microorganisms. Also for the treatment of uncomplicated skin and skin structure infections caused by *Staphylococcus aureus* (methicillin-susceptible strains only) or *Streptococcus pyogenes* and complicated intra-abdominal infections (used in combination with metronidazole) caused by *Escherichia coli*, viridans group streptococci, *Pseudomonas aeruginosa*, *Klebsiella pneumoniae*, *Enterobacter* species, or *Bacteroides fragilis*.

ceftibuten: approved small molecule (0 associated side effects)

Used to treat acute bacterial exacerbations of chronic bronchitis (ABECB), acute bacterial otitis media, pharyngitis, and tonsillitis.

bestatin: experimental small molecule (0 associated side effects)

azidocillin: approved small molecule (0 associated side effects) For treatment of infection (Respiratory, GI, UTI and meningitis) due to *E. coli*, *P. mirabilis*, enterococci, *Shigella*, *S. typhosa* and other *Salmonella*, nonpenicillinase-producing *N. gonorrhoeae*, *H. influenzae*, staphylococci, streptococci including streptococ

538 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal dreams Abnormal faeces Acne
Acute coronary syndrome Acute generalised exanthematous
pustulosis Acute hepatic failure Acute respiratory failure
Affect lability Ageusia Agitation Agranulocytosis
Alanine aminotransferase increased Alopecia Alveolitis
allergic Amblyopia Amnesia Anaemia Anaemia haemolytic
autoimmune Anal pruritus Anaphylactic shock Anaphylactoid
reaction Angina pectoris Angioedema Angiopathy Anorectal
discomfort Anorectal disorder Antinuclear antibody positive
Anxiety Aortic dissection Apathy Aplastic anaemia

Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arterial stenosis Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asphyxia Asterixis Asthenia
 Asthma Ataxia Atrial fibrillation Atrial flutter
 Atrioventricular block first degree Aura Azotaemia Back
 pain Balance disorder Basophilia Blepharitis Blindness Blister
 Blood albumin decreased Blood alkaline phosphatase
 increased Blood amylase increased Blood bilirubin increased
 Blood creatine phosphokinase increased Blood creatinine
 decreased Blood creatinine increased Blood disorder Blood
 lactate dehydrogenase increased Blood phosphorus decreased Blood
 potassium increased Blood pressure increased Blood sodium
 increased Blood urea increased Blood uric acid increased Blood
 urine Blood urine present Body temperature increased Bone pain
 Bradycardia Breast disorder Bronchioloalveolar carcinoma
 Bronchitis Bronchospasm Candidiasis Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac tamponade Cardio-respiratory arrest Cardiogenic shock
 Cerebral infarction Cerebrovascular accident
 Cerebrovascular disorder Cervical dysplasia Chest pain
 Chills Choking sensation Cholelithiasis Cholestasis
 Chromaturia Coagulopathy Cognitive disorder Colitis
 Collagen-vascular disease Coma Conduction disorder
 Confusional state Congenital anomaly Congenital arterial
 malformation Conjunctival oedema Conjunctivitis Connective
 tissue disorder Constipation Convulsion Coombs direct test
 positive Coombs test positive Coordination abnormal Coronary
 artery disease Cough Cranial nerve disorder Crystal urine
 Crystalluria Cutaneous vasculitis Cytolytic hepatitis
 Deafness Death Decreased appetite Dehydration Depressed
 level of consciousness Depressed mood Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis diaper Dermatitis exfoliative
 Dermatomyositis Developmental delay Diarrhoea Diarrhoea
 haemorrhagic Disability Discomfort Disseminated intravascular
 coagulation Disturbance in sexual arousal Dizziness Dizziness
 postural Drug hypersensitivity Drug interaction Drug intolerance
 Dry mouth Dry skin Dysaesthesia Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dysuria Ear infection Ear pain Ecchymosis Eczema
 Electrocardiogram abnormal Electrocardiogram change
 Enanthema Encephalopathy Endometrial sarcoma
 Enterocolitis Enterocolitis haemorrhagic Enzyme
 abnormality Eosinophilia Eosinophilic pneumonia Epistaxis
 Erectile dysfunction Erythema Erythema multiforme
 Erythema nodosum Erythropenia Eschar Extrasystoles
 Eye disorder Eye irritation Face oedema Fatigue
 Febrile neutropenia Feeling abnormal Feeling cold
 Fibrosis Flank pain Flat affect Flatulence Fluid retention
 Flushing Fungal infection Gamma-glutamyltransferase
 increased Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal pain Gastrointestinal tract irritation
 Generalised oedema Genital candidiasis Genital discharge
 Glossitis Glossodynia Glycosuria Gout Haematemesis

Haematochezia Haematocrit decreased Haematoma Haematuria
 Haemoglobin Haemoglobin decreased Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhagic disorder
 Hallucination Headache Hearing impaired Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatitis Hepatitis acute Hepatitis cholestatic
 Hepatitis fulminant Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary disorder Herpes simplex
 Herpes virus infection Hot flush Hunger
 Hyperbilirubinaemia Hypercalcaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperlipidaemia Hypersensitivity
 Hypertension Hypertensive crisis Hypertonia Hypertrophy
 Hyperuricaemia Hypoaesthesia Hypocalcaemia
 Hypoglycaemia Hyponatraemia Hypopituitarism Hypotension
 Hypovolaemia Ichthyosis acquired Idiopathic
 thrombocytopenic purpura Ileus Ill-defined disorder Illusion
 Immune system disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Induration
 Infarction Infection Infestation Inflammation Influenza
 Injection site inflammation Injection site pain Injection
 site reaction Insomnia Intermittent claudication
 Interstitial lung disease Intertrigo candida Intestinal
 infarction Irritability Ischaemia Ischaemic stroke Jaundice
 Jaundice cholestatic Joint swelling Laboratory test
 abnormal Lacrimation increased Laryngeal disorder Laryngeal
 oedema Laryngitis Laryngospasm Lethargy Leukocytoclastic
 vasculitis Leukocytosis Leukopenia Libido decreased Lip oedema
 Liver disorder Liver function test abnormal Liver injury
 Local reaction Loss of consciousness Lower respiratory
 tract infection Lung disorder Lymphadenopathy Lymphocytosis
 Lymphopenia Malaise Male sexual dysfunction
 Malnutrition Mean cell volume Mediastinal disorder
 Melaena Memory impairment Menopausal symptoms Menstrual
 disorder Mental disorder Micturition disorder Migraine without
 aura Monocytosis Mood swings Mouth ulceration Mucocutaneous
 candidiasis Mucous membrane disorder Multiple hereditary
 exostosis Muscle spasms Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myocardial ischaemia Myoclonus Nail disorder Nasal
 congestion Nasopharyngitis Nausea Neck pain Necrosis
 Neoplasm malignant Nephritis Nephrolithiasis Nephropathy
 Nephropathy toxic Nervous system disorder Nervousness
 Neuralgia Neuropathy peripheral Neutropenia Nocturia
 Oedema Oedema peripheral Oesophageal disorder Oesophageal
 ulcer Oesophagitis Oliguria Onycholysis Oral candidiasis Oral
 herpes Oropharyngeal discomfort Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Pain Pain in
 extremity Palpitations Pancreatic disorder Pancreatitis
 Pancreatitis acute Pancytopenia Paraesthesia
 Pemphigoid Pemphigus Peptic ulcer Peripheral coldness
 Peripheral vascular disorder Pharyngitis Phlebitis Photophobia
 Photosensitivity reaction Pica Pigmentation disorder
 Platelet count decreased Platelet disorder Pleuritic pain

Pneumonia Pollakiuria Polyneuropathy Polyuria Porphyria
 Porphyria non-acute Presyncope Proctocolitis Productive
 cough Protein urine present Proteinuria Prothrombin level increased
 Prothrombin time shortened Prurigo Pruritus Pruritus
 genital Pseudomembranous colitis Psoriasis Psychosexual
 disorder Pulmonary eosinophilia Pulmonary fibrosis Purpura
 Rash Rash erythematous Rash maculo-papular Rash papular
 Rash pustular Raynaud's phenomenon Rectal haemorrhage
 Red blood cell sedimentation rate increased Renal artery
 stenosis Renal failure Renal failure acute Renal impairment
 Renal pain Renal tubular disorder Respiration abnormal
 Respiratory arrest Respiratory disorder Respiratory
 failure Respiratory tract infection Rhabdomyolysis Rheumatic
 fever Rhinitis seasonal Rhinorrhoea Salivary hypersecretion Scab
 Scleroderma Scrotal oedema Seasonal allergy Seborrhoeic
 dermatitis Sensitisation Sensory loss Serositis Serum
 sickness Sexual dysfunction Shock Sinusitis Skin cancer Skin
 candida Skin disorder Skin exfoliation Skin hyperpigmentation
 Skin hypertrophy Skin induration Skin infection Sleep
 disorder Sneezing Somnolence Speech disorder Status
 epilepticus Stevens-Johnson syndrome Stomatitis Stridor
 Stupor Sudden death Superinfection Swelling
 Swollen tongue Syncope Syphilis Systemic lupus
 erythematosus Tachycardia Tenderness Tension Thirst
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Tinea infection Tinnitus Tongue
 discolouration Tongue disorder Tongue oedema Tooth
 discolouration Toxic epidermal necrolysis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tubulointerstitial nephritis Type IV
 hypersensitivity reaction Ulcer Upper gastrointestinal haemorrhage
 Upper respiratory tract infection Upper respiratory tract
 inflammation Upper-airway cough syndrome Urethral disorder
 Urethral pain Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 analysis abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Varicose vein
 Vascular purpura Vascular stenosis Vasculitis Vasodilation
 procedure Ventricular extrasystoles Ventricular tachycardia
 Vertigo Viral infection Vision blurred Visual acuity
 reduced Visual impairment Vomiting Vulvovaginal candidiasis
 Vulvovaginal discomfort Vulvovaginal mycotic infection
 Vulvovaginal pruritus Weight increased White blood cell count
 decreased White blood cells urine positive

Potassium voltage-gated channel subfamily D member 2 - Group:
 Channel

Treated with:

disopyramide: approved small molecule (85 associated side
 effects) For the treatment of documented ventricular arrhythmias,
 such as sustained ventricular tachycardia, ventricular pre-
 excitation and cardiac dysrhythmias. It is a Class Ia antiarrhythmic
 drug.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

160 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain upper Accommodation disorder
Acute coronary syndrome Acute psychosis Affect lability
Ageusia Agitation Agranulocytosis Alopecia Angioedema
Antinuclear antibody positive Anxiety Arrhythmia
Arthritis Asthenia Ataxia Atrioventricular block Blood
creatinine increased Blood urea increased Body temperature
increased Bradycardia Breast enlargement Cardiac arrest
Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cardiomyopathy Cerebrovascular accident Chest
pain Coma Conduction disorder Confusional state Constipation
Convulsion Coordination abnormal Cyanosis Decreased
appetite Delusion Dependence Dermatitis Dermatitis atopic
Diarrhoea Diplopia Discomfort Disorientation
Dissociation Disturbance in attention Disturbance in
sexual arousal Dizziness Drug dependence Dry eye Dry mouth
Dysarthria Dysgeusia Dyskinesia Dyspepsia Dyspnoea
Dysuria Eosinophilia Erectile dysfunction
Extrapyramidal disorder Face oedema Fatigue Feeling
abnormal Feeling hot Flatulence Flushing Galactorrhoea
Gynaecomastia Haemoglobin decreased Hallucination
Headache Hepatic enzyme increased Hepatic failure
Hepatitis Hypercholesterolaemia Hyperhidrosis
Hyperpyrexia Hypertension Hypertrophy Hypoaesthesia
Hypoglycaemia Hypokalaemia Hypomania Hypotension Ileus
paralytic Ill-defined disorder Inappropriate antidiuretic hormone
secretion Infarction Insomnia Intraocular pressure increased
Irritability Jaundice Jaundice cholestatic Leukopenia
Libido decreased Loss of consciousness Lymphadenitis
Malaise Mania Mental disability Mental disorder Mental
status changes Mood swings Muscle rigidity Muscle spasms
Muscular weakness Mydriasis Myocardial infarction Nasal
dryness Nausea Nervousness Neuroleptic malignant syndrome
Neuropathy peripheral Neutropenia Nightmare Nodal rhythm
Oedema Orthostatic hypotension Osteoarthritis Pain
Pallor Palpitations Pancytopenia Paraesthesia
Parotid gland enlargement Petechiae Pollakiuria Pruritus
Psychotic disorder Purpura Rash generalised Rash
morbilliform Sensory loss Shock Sinus arrest Skin
disorder Sleep disorder Somnolence Stomatitis Swelling
Syncope Systemic lupus erythematosus Tachycardia Tardive

dyskinesia Tension Testicular swelling Thrombocytopenia
Tinnitus Tongue discolouration Tremor Urinary
hesitation Urinary retentionUrticaria Vascular purpura Vertigo
Vision blurred Vomiting Weight increased

D(1A) dopamine receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

methylergonovine: approved small molecule (0 associated side effects) For the prevention and control of excessive bleeding following vaginal childbirth

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

thiethylperazine: approved small molecule (0 associated side effects) For the treatment or relief of nausea and vomiting.

phenylpropanolamine: approved, withdrawn small molecule (0 associated side effects) For the treatment of nasal congestion, control of urinary incontinence, priapism and obesity.

loxapine: approved small molecule (74 associated side effects) For the management of the manifestations of psychotic disorders such as schizophrenia

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

promazine: approved small molecule (0 associated side effects) Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

haloperidol: approved small molecule (79 associated side effects) For the management of psychotic disorders (eg. schizophrenia) and delirium, as well as to control tics and vocal

utterances of Tourette's syndrome (Gilles de la Tourette's syndrome). Also used for the treatment of severe behavioural problems in children with disruptive behaviour disorder or ADHD (attention-deficit hyperactivity disorder). Haloperidol has been used in the prevention and control of severe nausea and vomiting.

triflupromazine: approved small molecule (0 associated side effects) Used mainly in the management of psychoses. Also used to control nausea and vomiting.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

fluphenazine: approved small molecule (122 associated side effects) For management of manifestations of psychotic disorders.

thioridazine: approved small molecule (92 associated side effects) For the treatment of schizophrenia and generalized anxiety disorder.

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

fenoldopam: approved small molecule (51 associated side effects)
For the in-hospital, short-term (up to 48 hours) management of severe hypertension when rapid, but quickly reversible, emergency reduction of blood pressure is clinically indicated, including malignant hypertension with deteriorating end-organ function.

minaprine: approved small molecule (0 associated side effects)
For the treatment of depression

perphenazine: approved small molecule (131 associated side effects) For use in the management of the manifestations of psychotic disorders and for the control of severe nausea and vomiting in adults.

flupenthixol: approved small molecule (0 associated side effects) For use in the treatment of schizophrenia and depression

dopamine: approved small molecule (23 associated side effects)
For the correction of hemodynamic imbalances present in the shock syndrome due to myocardial infarction, trauma, endotoxic septicemia, open-heart surgery, renal failure, and chronic cardiac decompensation as in congestive failure

carphenazine: approved small molecule (0 associated side effects) Used in the treatment of acute or chronic schizophrenic reactions in hospitalized patients.

acetophenazine: approved small molecule (0 associated side effects) For the treatment of disorganized and psychotic thinking. Also used to help treat false perceptions (e.g. hallucinations or delusions.)

pergolide: approved,withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

dihydroergotoxine: approved small molecule (0 associated side effects) For potential use in the treatment of Alzheimer's disease.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

propericiazine: approved small molecule (0 associated side effects) For use as adjunctive medication in some psychotic patients. Propericiazine (Pericyazine) is used for the control of residual prevailing hostility, impulsiveness and aggressiveness.

acepromazine: approved small molecule (0 associated side effects) Acepromazine was first used in humans in the 1950s as an antipsychotic agent. It is now rarely used in humans. Acepromazine is frequently used in animals as a sedative and antiemetic. Its principal value is in quietening and calming anxious animals.

pipotiazine: approved small molecule (94 associated side effects) For the maintenance treatment of chronic non-agitated schizophrenic patients.

thiopropazine: approved small molecule (0 associated side effects) For the treatment of all types of acute and chronic schizophrenia, including those which did not respond to the usual neuroleptics; manic syndromes.

thiothixene: approved small molecule (79 associated side effects) For the management of schizophrenia.
 zuclopenthixol: approved small molecule (0 associated side effects) For the management of the manifestations of schizophrenia.
 rotigotine: approved small molecule (93 associated side effects) For use/treatment in neurologic disorders and parkinson's disease as well as moderate-to-severe primary Restless Legs Syndrome.

1275 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia benign Adhesion Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphthous stomatitis Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Argininosuccinate synthetase deficiency Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Athetosis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Autonomic nervous system imbalance Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder disorder Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood electrolytes abnormal Blood glucose decreased Blood glucose increased Blood insulin increased Blood iron decreased Blood lactate dehydrogenase

increased Blood phosphorus increased Blood potassium decreased
 Blood potassium increased Blood pressure abnormal Blood
 pressure diastolic decreased Blood pressure fluctuation Blood
 pressure increased Blood pressure systolic decreased Blood
 prolactin increased Blood testosterone decreased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bone sarcoma
 Bradycardia Bradykinesia Bradyphrenia Brain neoplasm
 Brain neoplasm benign Brain oedema Breast cancer
 Breast cyst Breast discharge Breast discomfort Breast disorder
 Breast disorder female Breast disorder male Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breast tenderness Breath odour
 Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic
 Cholelithiasis Cholestasis Chorea Choreoathetosis
 Chromaturia Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Coagulopathy Coccydynia
 Cognitive disorder Cogwheel rigidity Cold sweat Colitis
 Colitis ulcerative Colon cancer Colorectal cancer Coma
 Completed suicide Compulsions Condition aggravated Conduction
 disorder Confusional state Congenital anomaly Congenital eye
 disorder Congenital foot malformation Congenital genitourinary
 abnormality Conjunctival disorder Conjunctival haemorrhage
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coordination abnormal Corneal deposits Corneal
 lesion Corneal opacity Coronary artery disease Coronary
 artery occlusion Costochondritis Cough Crocodile tears syndrome
 Crying Cyanosis Cystitis Cystitis noninfective
 Cytolytic hepatitis Dandruff Deafness Death Decreased
 appetite Decubitus ulcer Deep vein thrombosis Deficiency
 anaemia Dehydration Delirium Delusion Dementia Dementia
 with Lewy bodies Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 atopic Dermatitis bullous Dermatitis contact Dermatitis

exfoliative Dermatitis infected Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic coma Diabetic hyperglycaemic coma
 Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug level increased Drug withdrawal syndrome Drug
 withdrawal syndrome neonatal Dry eye Dry mouth Dry skin Dry
 throat Duodenal ulcer Duodenal ulcer haemorrhage Duodenitis
 Dysarthria Dysentery Dysgeusia Dysgraphia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dyspnoea exertional Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electrocardiogram normal Electroencephalogram
 abnormal Electrolyte imbalance Embolism Emotional distress
 Emphysema Encephalopathy Endocrine disorder Endometrial
 cancer Endometrial neoplasm Energy increased Enteritis
 Enuresis Enzyme abnormality Eosinophil count increased
 Eosinophilia Epicondylitis Epididymitis Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythromelalgia Euphoric mood
 Exfoliative rash Exostosis Extrapyrarnidal disorder
 Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 movement disorder Eye pain Eye swelling Eyelid disorder
 Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Faeces hard
 Fasciitis Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Female sexual
 dysfunction Fibroadenoma of breast Fibrocystic breast disease
 Fibrosis Flank pain Flat affect Flatulence Fluid overload
 Fluid retention Flushing Foetor hepaticus Folliculitis
 Formication Fungal infection Fungal skin infection Furuncle
 Gait disturbance Galactorrhoea Gallbladder cancer
 Gallbladder disorder Gamma-glutamyltransferase increased
 Gangrene Gastric cancer Gastric disorder Gastric
 haemorrhage Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Gestational hypertension Gingival bleeding Gingival
 infection Gingival pain Gingivitis Glaucoma Glossitis

Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesis Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemolysis
 Haemolytic anaemia Haemoptysis Haemorrhage Haemorrhage
 intracranial Haemorrhoids Haemothorax Hallucination
 Hallucination, auditory Hallucination, visual Hangover
 Head discomfort Head titubation Headache Hearing impaired
 Heart disease congenital Heart rate irregular Hemianopia
 Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 neoplasm malignant Hepatic steatosis Hepatitis Hepatitis A
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary disorder Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hydrocephalus Hyperacusis Hyperaemia Hyperaesthesia
 Hyperammonaemia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperparathyroidism Hyperphagia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity
 Hypersexuality Hypersomnia Hypertension Hypertensive
 crisis Hyperthermia Hyperthyroidism Hypertonia Hypertonic
 bladder Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloraemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovitaminosis Hypoxia
 Idiopathic thrombocytopenic purpura Ileus Ileus paralytic
 Ill-defined disorder Illusion Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infarction
 Infected cyst Infection Infestation Inflammation
 Influenza Influenza like illness Inguinal hernia Initial
 insomnia Injection site mass Injection site pain Injection
 site reaction Inner ear disorder Insomnia Intention tremor
 Intentional self-injury Intermittent claudication
 Interstitial lung disease Intervertebral disc degeneration
 Intervertebral disc disorder Intervertebral disc protrusion
 Intervertebral discitis Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic hepatitis Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint effusion Joint range of motion

decreased Joint stiffness Joint swelling Judgement impaired
Keratitis Keratoconjunctivitis sicca Keratopathy
Ketoacidosis Ketosis Laboratory test abnormal
Lacrimal disorderLacrimation increased Lactose intolerance
Laryngeal cancer Laryngeal disorder Laryngeal neoplasm
Laryngeal oedema Laryngitis Laryngospasm Left ventricular
failure Leiomyoma Lens disorder Lenticular opacities
Lenticular pigmentation Lethargy Leukaemia
Leukocytosis Leukoderma Leukopenia Leukoplakia oral
Libido decreased Libido increased Lichenoid keratosis Lip
and/or oral cavity cancer Lip dry Lip swelling Lipoma
Livedo reticularis Liver disorder Liver function test
abnormal Liver injury Lividity Lobar pneumonia Localised
infection Localised oedema Logorrhoea Loss of consciousness Loss
of libido Lower respiratory tract infection Lung cancer metastatic
Lung disorder Lung infiltrationLung neoplasm malignant
Lymphadenitis Lymphadenopathy Lymphatic disorder
Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
LymphopeniaMacular degeneration Macule MaculopathyMajor
depression Malaise Male sexual dysfunction Malignant
melanoma Mania Masked facies Mastitis Mediastinal disorder
Megacolon Melaena Melanocytic naevus Memory impairment
Meningitis Menopausal symptoms Menopause Menorrhagia
Menstrual disorder Menstruation delayed Menstruation
irregular Mental disabilityMental disorder Mental retardation
Mental status changes Metabolic alkalosis Metastasis
Metastatic neoplasm Metrorrhagia Micturition disorder
Micturition urgency Middle ear disorder Middle ear
effusion Middle insomnia Migraine with aura Migraine without
aura Miosis Mitral valve incompetence Mobility decreased
Monarthrititis MonocytosisMood swings Motion sickness Mouth
ulceration Movement disorderMultiple myeloma Muscle atrophy
Muscle contractions involuntary Muscle contracture
Muscle enzyme increased Muscle relaxant therapy
Muscle rigidity Muscle spasms Muscle tightness Muscle
twitching Muscular weaknessMusculoskeletal chest pain
Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal pain Musculoskeletal stiffness Myalgia
Myasthenic syndrome Mydriasis Myelitis Myocardial
infarction Myocardial ischaemia MyocarditisMyoclonus Myopathy
Myopia Myositis Nail disorder Nail infection
Narcolepsy Nasal congestion Nasal disorder Nasal dryness
Nasal oedema Nasal polyps Nasopharyngitis Nausea
Neck pain Necrosis Necrosis ischaemic Neoplasm
malignant Neoplasm prostateNeoplasm recurrence Neoplasm skin
Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
lesion Nervous system disorder NervousnessNeuralgia
Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
malignant syndrome Neurological symptom Neuroma Neuropathy
peripheral Neurosis NeutropeniaNeutrophil count decreased
Neutrophil count increased Night sweats Nightmare
Nocturia Nodal arrhythmia Nodule Normochromic
normocytic anaemia Nuchal rigidity Nystagmus Obesity
Obsessive thoughts ObstructionObstructive airways disorder
Ocular hyperaemiaOculogyric crisisOedema Oedema peripheral

Oesophageal carcinoma Oesophageal disorder Oesophageal spasm
 Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oligomenorrhoea Oliguria Onychomycosis Opisthotonus
 Oral candidiasis Oral neoplasm benign Oral pain Orchitis
 noninfective Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media chronic
 Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pallor Palpitations Pancreatitis acute
 Pancytopenia Panic attack Panic disorder Panic
 disorder with agoraphobia Panic reaction Papilloma
 Paraesthesia oral Paralysis Paranoia Parasomnia Paresis
 Parkinsonian gait Parkinsonism Paronychia Parosmia
 Parotid gland enlargement Pathological fracture
 Pathological gambling Pelvic pain Penis disorder Peptic
 ulcer Pericardial effusion Pericarditis constrictive Perineal
 pain Periodontitis Periorbital oedema Peripheral coldness
 Peripheral ischaemia Peripheral vascular disorder Peritoneal
 adhesions Personality disorder Petechiae Petit mal epilepsy
 Phaeochromocytoma Pharyngeal erythema Pharyngitis Phlebitis
 Phlebitis superficial Phobia Phonological disorder
 Photophobia Photopsia Photosensitivity allergic reaction
 Photosensitivity reaction Pigmentation disorder
 Piloerection Pituitary tumour benign Plasmacytoma
 Platelet count decreased Pleural disorder Pleural effusion
 Pleural fibrosis Pleurisy Pneumonia Pneumonia aspiration
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polyarteritis nodosa Polycythaemia Polydipsia Polymyalgia
 rheumatica Polyp Polyuria Post procedural infection
 Postmenopausal haemorrhage Postural orthostatic tachycardia
 syndrome Posture abnormal Pre-eclampsia Precocious puberty
 Pregnancy test false positive Pregnancy test positive
 Premature ejaculation Premenstrual syndrome Presyncope
 Priapism Proctalgia Productive cough Prolactinoma
 Prostate cancer Prostatic adenoma Prostatic disorder
 Prostatitis Protein urine present Proteinuria Protrusion tongue
 Prurigo Pruritus Pruritus generalised Pruritus genital
 Pseudolymphoma Psoriasis Psychiatric symptom Psychomotor
 retardation Psychotic behaviour Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary hypertension Pulmonary oedema Purpura
 Purpura non-thrombocytopenic Pyelonephritis Pyoderma
 Pyuria Rales Rash erythematous Rash generalised Rash
 maculo-papular Rash papular Rash pustular Rash vesicular
 Raynaud's phenomenon Rectal cancer Rectal haemorrhage
 Rectal tenesmus Red blood cell count decreased Red blood
 cell sedimentation rate increased Reflux oesophagitis Regressive
 behaviour Regurgitation Renal artery stenosis Renal colic Renal
 cyst Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory alkalosis Respiratory arrest Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Retinal artery

occlusion Retinal detachment Retinal disorder Retinal vascular
disorder Retinitis pigmentosa Retrograde ejaculation
Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
Saliva altered Salivary duct obstruction Salivary gland
disorder Salivary gland enlargement Salivary hypersecretion
Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
disorder Schizophrenia Schizophreniform disorder Sciatica
Scleral disorder Scotoma Seasonal allergy Seborrhoeic
dermatitis Seborrhoeic keratosis Sedation Sensation of heaviness
Sensory disturbance Sensory loss Sepsis Septic
shock Severe acute respiratory syndrome Sexual dysfunction Shock
Sialoadenitis Sicca syndrome Sick sinus syndrome Sinus
arrhythmia Sinus bradycardia Sinus congestion Sinus disorder Sinus
headache Sinus tachycardia Sinusitis Skin burning sensation Skin
cancer Skin discoloration Skin disorder Skin exfoliation
Skin hyperpigmentation Skin hypertrophy Skin infection Skin
irritation Skin lesion Skin mass Skin odour abnormal Skin
papilloma Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
disorder Sleep talking Sluggishness Small intestinal
obstruction Sneezing Snoring Social avoidant behaviour
Somnambulism Somnolence Speech disorder Spinal
osteoarthritis Spine malformation Splenomegaly Spondylitis
Squamous cell carcinoma Status epilepticus Stevens-
Johnson syndrome Sticky skin Stomatitis Stress Stridor
Stupor Subarachnoid haemorrhage Subcutaneous abscess
Subcutaneous nodule Subdural haematoma Sudden death
Suicidal ideation Suicide attempt Superior sagittal sinus
thrombosis Supraventricular extrasystoles Supraventricular
tachycardia Surgery Suspiciousness Swelling Swelling face
Swollen tongue Syncope Synostosis Synovitis Systemic
lupus erythematosus Tachycardia Tachypnoea Tardive dyskinesia
Tenderness Tendonitis Tenosynovitis Tension Tension
headache Terminal insomnia Testicular disorder Testicular pain
Testicular swelling Tetany Therapeutic response
decreased Therapeutic response increased Thinking abnormal
Thirst Thought blocking Throat irritation Throat tightness
Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
purpura Thyroid adenoma Thyroid cancer Thyroid neoplasm
Thyroiditis Tic Tinnitus Tongue discoloration Tongue
disorder Tongue dry Tongue oedema Tongue paralysis Tongue
spasm Tongue ulceration Tonsillar hypertrophy Tonsillitis Tooth
abscess Tooth disorder Tooth impacted Tooth infection
Toothache Torsade de pointes Torticollis Toxic epidermal
necrolysis Tracheobronchitis Transaminases increased Transient
ischaemic attack Tremor Trismus Tuberculin test positive
Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
hernia Unevaluable event Unintended pregnancy Unresponsive to
stimuli Upper respiratory tract infection Upper-airway cough
syndrome Urethral disorder Urethral pain Urethritis Urinary
hesitation Urinary incontinence Urinary retention Urinary tract
disorder Urinary tract infection Urine abnormality Urine
analysis abnormal Urine output increased Urosepsis Urticaria

Uterine disorder Uterine haemorrhage Uterine leiomyoma
 Uterine neoplasm Uterovaginal prolapse VIIIth nerve paralysis
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasculitis Vasoconstriction Vasodilation procedure Vasospasm
 Vein disorder Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular hypertrophy Ventricular
 tachycardia Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment
 Vitreous floaters Vocal cord paralysis Vomiting
 Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal bleed Withdrawal syndrome Wound
 infection Xerophthalmia Xerosis Yawning

Gamma-aminobutyric-acid receptor subunit beta-2 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

ethchlorvynol: illicit, approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit, approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit, approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide: illicit, approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

clorazepate: illicit, approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit, approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit, approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit, approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

propofol: approved small molecule (163 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.

diazepam: illicit, approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit, approved, withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit, approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit, approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

ginkgo biloba: approved, nutraceutical small molecule (0 associated side effects) Appears to be effective in: alleviating age-related memory impairment in some elderly people with mild to moderate age-related memory or cognitive impairment; improving cognitive function in healthy young to middle-aged people; improving symptoms of Alzheimer's, vascular or mixed dementia; improving damage to the visual field in patients with normal tension glaucoma; decreasing the number of painful attacks in patients with Raynaud's syndrome; and may improve symptoms of vertigo and dizziness in some patients.

bromazepam: illicit, approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as

difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

fospropofol: approved small molecule (0 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.

528 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Acidosis Acne Acute
coronary syndrome Affect lability Ageusia Aggression Agitation
Agranulocytosis Akathisia Akinesia Alcohol poisoning
Alopecia Altered state of consciousness Amblyopia
Amnesia Anaemia Anaphylactic shock Anaphylactoid
reaction Anger Angioedema Angiopathy Anorectal discomfort
Anorectal disorder Anterograde amnesia Anxiety
Aortic dissection Apathy Aphonia Apnoea Appetite
disorder Arrhythmia Arrhythmia supraventricular Arterial spasm
Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrial fibrillation Atrioventricular block Back pain
Balance disorder Bladder dysfunction Bladder pain
Blindness Blood alkaline phosphatase increased Blood
bilirubin increased Blood creatinine increased Blood disorder
Blood glucose decreased Blood thromboplastin decreased
Blood urea increased Body temperature decreased Body
temperature increased Borderline personality disorder Bradycardia
Bradyphrenia Brain oedema Breast disorder Breast pain
Breast swelling Bronchitis Bronchospasm Bundle branch
block Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac fibrillation
Cardiac output decreased Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chromaturia Clonic convulsion Clonus Clumsiness
Coagulopathy Cognitive disorder Coma Completed suicide
Confusional state Conjunctival hyperaemia Connective tissue
disorder Constipation Conversion disorder Convulsion
Coordination abnormal Cough Cyanosis Cystitis Cystitis
noninfective Cytolytic hepatitis Deafness Death Decreased
appetite Dehydration Delirium Delirium tremens Delusion
Dependence Depersonalisation Depressed level of consciousness
Depressed mood Depression Depressive symptom
Derealisation Dermatitis Dermatitis contact Dermatitis
exfoliative Diarrhoea Diplopia Discomfort Disinhibition
Disorientation Disturbance in attention Disturbance in
sexual arousal Dizziness Drooling Drug abuse Drug dependence
Drug effect increased Drug eruption Drug intolerance Drug
withdrawal convulsions Dry mouth Dry skin Dysaesthesia
Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
Dysphagia Dysphonia Dysphoria Dyspnoea Dysthymic
disorder Dystonia Dysuria Ear infection Ear pain
Ecchymosis Effusion Ejaculation delayed Ejaculation
failure Electrocardiogram ST segment Electrocardiogram ST segment
depression Electrocardiogram abnormal Emotional disorder

Emotional distress Emotional poverty Encephalopathy
 Encopresis Endometrial sarcoma Energy increased
 Enterocolitis Enuresis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Euphoric mood Extrapyrarnidal disorder
 Extrasystoles Eye disorder Eye irritation Eye
 movement disorder Eye pain Eye swelling Face oedema Faecal
 incontinence Fatigue Feeling abnormal Feeling cold
 Feeling drunk Feeling hot Feeling jittery Feeling of body
 temperature change Flat affect Flatulence Floppy infant
 Flushing Fungal infection Gait disturbance Galactorrhoea
 Gangrene Gastric disorder Gastritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal pain
 Gingival pain Glossitis Glossodynia Gout Grand mal
 convulsion Gynaecomastia Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemorrhage Haemorrhage urinary tract
 Haemorrhoids Hallucination Hangover Headache
 Hearing impaired Heart rate irregular Hemiparesis Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatitis Hepatocellular injury Hepatomegaly Herpes
 simplex Herpes virus infection Hiccups Hirsutism Homicidal
 ideation Hordeolum Hostility Hunger Hyperaemia Hypercapnia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperlipidaemia Hyperprolactinaemia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hyperventilation Hypoaesthesia Hypochromic anaemia
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ileus Ill-
 defined disorder Illusion Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Induration
 Infarction Infection Infectious mononucleosis Infestation
 Inflammation Influenza Injection site pain Injection
 site reaction Insomnia Intracranial pressure increased
 Intraocular pressure increased Irritability Ischaemia
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Metabolic acidosis Micturition
 disorder Micturition urgency Migraine Miosis Moaning
 Mood swings Motion sickness Movement disorder Muscle relaxant
 therapy Muscle rigidity Muscle spasms Muscle spasticity
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal stiffness
 Myalgia Mydriasis Myocardial infarction Myocardial
 ischaemia Myoclonus Nasal congestion Nasopharyngitis Nausea
 Neck pain Necrosis Neonatal disorder Nervous system
 disorder Nervousness Neuritis Neuroleptic malignant syndrome
 Neuropathy peripheral Neutropenia Nightmare Nocturia Nodal
 arrhythmia Nodal rhythm Nodule Nuchal rigidity Nystagmus

Obstruction Obstructive airways disorder Oedema Oedema
 peripheral Oliguria Opisthotonus Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Otitis media
 Pain Pain in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancytopenia Paraesthesia
 Paraesthesia oral Paralysis Paresis Pelvic pain Penile
 discharge Pericardial effusion Periorbital oedema Personality
 disorder Phaeochromocytoma Pharyngitis Phlebitis Photophobia
 Photosensitivity reaction Pigmentation disorder Platelet
 count decreased Pleurisy Pneumonia Pneumothorax Pollakiuria
 Polyuria Post-traumatic stress disorder Precocious
 puberty Premenstrual syndrome Presyncope Proctalgia Prothrombin
 level increased Pruritus Psychomotor retardation Psychotic
 disorder Puberty Pulmonary congestion Pulmonary function
 test decreased Pulmonary haemorrhage Pulmonary hypertension
 Pulmonary oedema Purpura Rash Rash maculo-papular
 Rectal haemorrhage Rectal tenesmus Renal failure
 Respiratory acidosis Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory failure Respiratory
 moniliasis Respiratory rate decreased Respiratory tract congestion
 Respiratory tract infection Retching Retrograde amnesia
 Rhabdomyolysis Rhinitis allergic Rhinorrhoea Rhonchi Right
 ventricular failure Salivary hypersecretion Scotoma
 Sedation Sepsis Sexual dysfunction Shock Sinus
 tachycardia Sinusitis Skin burning sensation Skin discolouration
 Skin disorder Skin exfoliation Skin necrosis Sleep
 apnoea syndrome Sleep disorder Sleep talking Sluggishness
 Sneezing Somnambulism Somnolence Speech disorder
 Stevens-Johnson syndrome Stomatitis Strabismus Stridor
 Stupor Substance abuse Suicidal ideation Supraventricular
 extrasystoles Supraventricular tachycardia Swelling Swelling
 face Swollen tongue Syncope Tachycardia Tachypnoea Tenderness
 Tendonitis Tension Therapeutic response decreased
 Thinking abnormal Thirst Thrombocytopenia Thrombocytosis
 Thrombophlebitis Thrombosis Thyroid neoplasm Tinnitus
 Tongue coated Tongue disorder Tongue oedema Tooth
 disorder Toothache Toxic epidermal necrolysis Transaminases
 increased Tremor Tropical spastic paresis Ulcer Upper
 airway obstruction Upper respiratory tract infection Urethral
 disorder Urinary hesitation Urinary incontinence Urinary
 retention Urinary tract disorder Urinary tract infection Urine
 abnormality Urine colour abnormal Urine output increased Urticaria
 Vaginal discharge Vaginal infection Vaginal inflammation
 Vascular purpura Vasodilation procedure Venous thrombosis
 Ventricular arrhythmia Ventricular extrasystoles Ventricular
 fibrillation Ventricular tachycardia Vertigo Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Alpha platelet-derived growth factor receptor - Group: Enzyme

Treated with:

becaplermin: approved biotech (0 associated side effects)
 For topical treatment of skin ulcers (from diabetes)

imatinib: approved small molecule (248 associated side effects) For the treatment Philadelphia chromosome positive chronic myeloid leukemia (CML) and malignant gastrointestinal stromal tumors (GIST).

sunitinib: approved small molecule (198 associated side effects) For the treatment of advanced renal cell carcinoma as well as the treatment of gastrointestinal stromal tumor after disease progression on or intolerance to imatinib mesylate.

357 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Acute coronary syndrome Acute febrile neutrophilic dermatosis Acute generalised exanthematous pustulosis Acute hepatic failure Adrenal insufficiency Ageusia
Alanine aminotransferase increased Alopecia Alveolar proteinosis Anaemia Angioedema Angiopathy Anxiety Aortic dissection Aphagia Aphthous stomatitis Aplastic anaemia
Apoptosis Arrhythmia Arthralgia Ascites Aspartate aminotransferase increased Assisted fertilisation Asthenia Back pain Blindness Blindness cortical Blister Blood albumin decreased Blood alkaline phosphatase increased Blood amylase increased Blood bilirubin increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood glucose decreased Blood glucose increased Blood lactate dehydrogenase increased Blood magnesium decreased Blood phosphorus decreased Blood potassium decreased Blood potassium increased Blood sodium increased Blood thyroid stimulating hormone increased Blood urea increased Blood uric acid increased Body temperature increased Bone marrow necrosis Bone pain Bradycardia
Brain oedema Breast enlargement Breast feeding
Calcinosis Cardiac disorder Cardiac failure Cardiac failure congestive Cardiac hypertrophy Cardiac tamponade Cardiogenic shock
Cardiomyopathy Cell death Cerebral haemorrhage Cerebral infarction Cerebrovascular accident Chest pain Chills
Colitis Confusional state Congenital skin disorder
Conjunctival haemorrhage Conjunctivitis Connective tissue disorder Constipation Convulsion Cough Cytogenetic abnormality Death Decreased appetite Deep vein thrombosis
Dehydration Delirium tremens Depressed mood Dermatitis bullous Dermatitis exfoliative Dermatitis psoriasiform
Diarrhoea Discomfort Disease progression Diverticulitis
Dizziness Drug interaction Dry eye Dry mouth Dry skin
Dysgeusia Dyspepsia Dyspnoea exertional Ecchymosis
Effusion Ehlers-Danlos syndrome Ejection fraction Ejection fraction decreased Electrocardiogram PR interval Embolism
Eosinophilia Epistaxis Erythema Erythema multiforme
Eye disorder Eye oedema Face oedema Fatigue Febrile neutropenia Feeling abnormal Feeling cold Fibrosis Fistula
Flank pain Flatulence Fluid retention Flushing Gastric haemorrhage Gastric ulcer Gastritis Gastroenteritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal neoplasm Gastrointestinal pain
Gastrointestinal perforation Gastrointestinal tract irritation
Gastrooesophageal reflux disease Generalised oedema

Gingival pain Gingivitis Glaucoma Glossitis Glossodynia
 Gout Gynaecomastia Haematemesis Haematochezia
 Haematological malignancy Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoptysis Haemorrhage Haemorrhoids
 Hair colour changes Headache Hepatic enzyme increased
 Hepatic failure Hepatic necrosis Hepatitis Herpes simplex
 Herpes virus infection Herpes zoster Hypercalcaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hypernatraemia Hyperplasia Hypersensitivity Hypertension
 Hyperthyroidism Hypertrophy Hyperuricaemia Hypoalbuminaemia
 Hypocalcaemia Hypogeusia Hypoglycaemia Hypokalaemia
 Hyponatraemia Hypophosphataemia Hypotension Hypothyroidism
 Ileus Immunosuppression Infarction Infection Infestation
 Inflammation Influenza Influenza like illness Insomnia
 Interstitial lung disease Intestinal obstruction
 Intracranial pressure increased Ischaemia Jaundice Joint
 swelling Lacrimation increased Left ventricular dysfunction
 Leukoderma Leukoencephalopathy Leukopenia Lipase increased
 Liver disorder Loss of consciousness Lower respiratory
 tract infection Lung neoplasm malignant Lymphoma Lymphopenia
 Macular oedema Malaise Mastocytic leukaemia Mastocytoma
 Mediastinal disorder Melaena Memory impairment Menorrhagia
 Mental disorder Metastasis Metastatic neoplasm
 Metrorrhagia Microangiopathy Migraine Mouth ulceration
 Mucosal dryness Mucosal inflammation Muscle spasms
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myelodysplastic syndrome Myeloproliferative disorder
 Myocardial ischaemia Myopathy Nail disorder
 Nasopharyngitis Nausea Necrosis Necrosis ischaemic
 Neoplasm malignant Nephropathy Nephropathy toxic Nephrotic
 syndrome Nervous system disorder Neuropathy peripheral
 Neutropenia Night sweats Obstruction Oedema Oedema
 peripheral Oesophagitis Opportunistic infection Optic
 neuritis Oral pain Oropharyngeal discomfort Oropharyngeal
 pain Osteonecrosis Ovarian disorder Pain Pain in extremity
 Pancreatic disorder Pancreatitis Pancytopenia
 Papilloedema Papilloma Paraesthesia Parity
 Pericardial effusion Pericarditis Periorbital oedema
 Peripheral coldness Petechiae Pharyngitis Photosensitivity
 reaction Pigmentation disorder Platelet count decreased
 Pleural disorder Pleural effusion Pneumonia Pollakiuria
 Posterior reversible encephalopathy syndrome Primary
 hypothyroidism Protein urine present Proteinuria Prurigo
 Pruritus Psoriasis Pulmonary embolism Pulmonary
 fibrosis Pulmonary haemorrhage Pulmonary oedema Purpura Rash
 erythematous Rash follicular Rash papular Rash vesicular
 Reflux oesophagitis Regressive behaviour Renal failure
 Renal failure acute Renal impairment Renal tubular disorder
 Respiratory tract infection Retinal haemorrhage
 Rhabdomyolysis Rhinitis Sciatica Sepsis Sexual
 dysfunction Sexually active Shock Sinusitis Skin discolouration
 Skin disorder Social avoidant behaviour Somnolence
 Splinter haemorrhages Stomatitis Swelling Syncope
 Systemic mastocytosis Tachycardia Tenderness Testicular

disorder Thrombocytopenia Thrombosis Thrombotic microangiopathy
Thyroid disorder Thyroiditis Tinnitus Tongue ulceration Toxic
epidermal necrolysis Transient ischaemic attack Tumour lysis
syndrome Tumour necrosis Ulcer Upper respiratory tract infection
Vaginal discharge Varicella Vascular purpura Venous thrombosis
Ventricular dysfunction Vertigo Viral infection
Vision blurred Visual acuity reduced Visual impairment
Vitreous haemorrhage Vomiting Weight decreased Weight
increased Wound haemorrhage Yellow skin

Solute carrier organic anion transporter family member 1C1 - Group:
Transporter

Treated with:

phenytoin: approved small molecule (247 associated side effects) For the control of generalized tonic-clonic (grand mal) and complex partial (psychomotor, temporal lobe) seizures and prevention and treatment of seizures occurring during or following neurosurgery.

liothyronine: approved small molecule (0 associated side effects) Used as replacement or supplemental therapy in patients with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

digoxin: approved small molecule (56 associated side effects) For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

levothyroxine: approved small molecule (0 associated side effects) For use alone or in combination with antithyroid agents to treat hypothyroidism, goiter, chronic lymphocytic thyroiditis, myxedema coma, and stupor.

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

diclofenac: approved small molecule (310 associated side effects) For the acute and chronic treatment of signs and symptoms of osteoarthritis and rheumatoid arthritis.

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical

"ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

meclofenamic acid: approved small molecule (0 associated side effects) For the relief of mild to moderate pain, for the treatment of primary dysmenorrhea and for the treatment of idiopathic heavy menstrual blood loss. Also for relief of the signs and symptoms of acute and chronic rheumatoid arthritis and osteoarthritis.

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

ouabain: approved small molecule (0 associated side effects) For the treatment of atrial fibrillation and flutter and heart failure

liotrix: approved small molecule (0 associated side effects) May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

taurocholic acid: experimental small molecule (0 associated side effects)

623 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal pain Abdominal pain upper Abscess Acidosis
Acne Acute coronary syndrome Affect lability Ageusia
Aggression Agitation Agranulocytosis Akathisia Alanine
aminotransferase increased Albuminuria Alkalosis Alopecia
Alveolitis Alveolitis allergic Amblyopia Amenorrhoea
Amnesia Anaemia Anaemia megaloblastic Anaphylactic
shock Anaphylactoid reaction Angina pectoris Angioedema Angiopathy
Anorectal discomfort Anorectal disorder Anxiety
Aortic dissection Apathy Aphasia Aphthous stomatitis
Aplastic anaemia Apnoea Application site reaction
Arrhythmia Arterial thrombosis Arteriosclerosis Arthralgia
Arthropathy Aspartate aminotransferase increased Aspiration
Asterixis Asthenia Asthma Ataxia Atelectasis
Atrial flutter Atrial tachycardia Atrioventricular block
complete Atrioventricular block first degree Atrioventricular
block second degree Atrioventricular dissociation Atrophy
Azoospermia Azotaemia Back pain Benign neoplasm Bladder
pain Bleeding time prolonged Blindness Blindness transient
Blister Blood albumin decreased Blood creatine
phosphokinase increased Blood creatinine increased Blood
glucose decreased Blood glucose increased Blood pressure

increased Blood triglycerides increased Blood uric acid
 increased Body temperature increased Bone disorder Bone pain
 Bradycardia Brain oedema Breast discharge Breast discomfort
 Breast disorder Breast enlargement Breast mass Breast
 neoplasm Breast pain Breast swelling Breast tenderness Breath
 odour Bronchitis Bundle branch block Burning sensation Cachexia
 Candidiasis Carbohydrate tolerance decreased Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardioactive drug
 level Cardiomegaly Cardiovascular disorder Cell death
 Cerebral artery thrombosis Cerebral haemorrhage Cerebral
 infarction Cerebral thrombosis Cerebrovascular accident
 Cervical discharge Cervix disorder Chest pain Chills
 Chloasma Chorea Cognitive disorder Colitis ischaemic
 Colitis ulcerative Coma Conduction disorder Confusional
 state Conjunctival hyperaemia Conjunctivitis Conjunctivitis
 allergic Connective tissue disorder Constipation Convulsion
 Coordination abnormal Corneal deposits Corneal disorder
 Corneal erosion Corneal infiltrates Corneal oedema
 Corneal opacity Coronary artery thrombosis Cough
 Cryptococcosis Cyanosis Cystitis Cystitis noninfective
 Cytolytic hepatitis Cytomegalovirus infection Deafness
 Death Decreased appetite Deep vein thrombosis Dehydration
 Delirium Dementia Dental caries Dental plaque
 Depersonalisation Depressed level of consciousness Depression
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diabetes insipidus Diabetes mellitus Diarrhoea
 Diarrhoea haemorrhagic Diplopia Discomfort Disorientation
 Dissociation Disturbance in attention Dizziness Drug
 ineffective Drug interaction Drug rash with eosinophilia and
 systemic symptoms Dry eye Dry mouth Dry skin Dysarthria
 Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysplasia Dyspnoea Dysthymic disorder Dystonia
 Dysuria Ear pain Ecchymosis Ectropion of cervix
 Eczema Effusion Electrocardiogram PR prolongation
 Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram change Embolism Embolism venous
 Encephalitis Encephalopathy Endometrial cancer
 Endometrial hypertrophy Endometriosis Enteritis
 Enterocolitis haemorrhagic Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythema nodosum Erythema of eyelid
 Extensor plantar response Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye allergy Eye disorder
 Eye inflammation Eye irritation Eye pain Eye pruritus
 Eyelid oedema Eyelids pruritus Face oedema Fatigue
 Febrile neutropenia Feeling abnormal Fibrocystic breast
 disease Fibrosis Flat affect Flatulence Fluid retention
 Flushing Folliculitis Furuncle Gait disturbance
 Galactorrhoea Gallbladder disorder Gastric pH decreased
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal necrosis
 Gastrointestinal pain Gastrointestinal toxicity Generalised
 oedema Genital discharge Gingival hyperplasia Gingival pain
 Gingivitis Glossitis Glucose tolerance decreased Glucose

tolerance impaired Gout Gynaecomastia Haemangioma
Haematemesis Haematocrit decreased Haematoma Haematuria
Haemoglobin Haemolytic anaemia Haemoptysis Haemorrhage
Haemorrhagic disorder Haemorrhoids Hair disorder
Hallucination Headache Hearing impaired Hemiparesis
Hemiplegia Henoch-Schonlein purpura Hepatic cirrhosis
Hepatic enzyme increased Hepatic failure Hepatic function
abnormal Hepatic necrosis Hepatitis Hepatitis acute Hepatitis
fulminant Hepatobiliary disease Hepatocellular injury Hepatorenal
syndrome Hereditary disorder Hernia Herpes simplex
Herpes virus infection Herpes zoster Hirsutism
Histoplasmosis Hostility Hyperacusis Hyperaemia
Hyperaesthesia Hyperbilirubinaemia Hypercalcaemia
Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
Hyperhidrosis Hyperkalaemia Hyperkinesia
Hyperlipidaemia Hypernatraemia Hyperplasia Hyperreflexia
Hypersensitivity Hypertension Hypertonia Hypertrichosis
Hypertriglyceridaemia Hypertrophy Hyperuricaemia
Hyperventilation Hypoaesthesia Hypocalcaemia Hypochromic
anaemia Hypogammaglobulinaemia Hypoglycaemia Hypokalaemia
Hypokinesia Hypophosphataemia Hyporeflexia Hypotension
Hypothyroidism Hypotonia Hypoxia Ileus Ill-defined
disorder Immune system disorder Incontinence Increased
bronchial secretion Infarction Infection Infertility Infestation
Inflammation Influenza Injection site pain Insomnia
Interstitial lung disease Intestinal ischaemia Intestinal
perforation Intra-uterine death Intracranial pressure increased
Intraocular pressure increased Iritis Irritability
Ischaemia Jaundice Jaundice cholestatic Keratitis
Ketosis Lacrimal disorder Lacrimation increased Laryngeal
oedema Laryngitis Laryngospasm Leiomyoma Lethargy
Leukocytosis Leukoencephalopathy Leukopenia Lip
swelling Liver function test abnormal Liver injury Loss of
consciousness Loss of libido Lung disorder Lung infection
Lymphadenopathy Lymphoma Lymphoproliferative disorder
Macrocytosis Maculopathy Malaise Mass Melaena
Memory impairment Meningioma benign Meningitis Meningitis
aseptic Menorrhagia Menstrual disorder Mental disability
Mental disorder Mesenteric vascular insufficiency
Metrorrhagia Migraine Mood swings Mouth ulceration
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal pain Musculoskeletal stiffness Myalgia
Mydriasis Myocardial infarction Myoclonus Myopathy Nail
disorder Nausea Neck pain Necrosis Neoplasm Neoplasm
malignant Nephritis Nephropathy Nephrotic syndrome Nerve root
lesion Nervous system disorder Nervousness Neuritis
Neuropathy peripheral Neurosis Neutropenia Night blindness
Nightmare Nipple pain Nocardiosis Nocturia Nodule
Nuchal rigidity Nystagmus Obstruction Obstructive airways
disorder Ocular hyperaemia Oedema genital Oedema peripheral
Oesophageal disorder Oesophagitis Oliguria
Opportunistic infection Optic neuritis Orthostatic
hypotension Osteoarthritis Osteomalacia Osteonecrosis
Osteoporosis Ovarian cancer Pain Pain in extremity

Palpitations Pancreatic disorder Pancreatitis
 Pancytopenia Papule Paraesthesia oralParalysis
 Paresis Parosmia Pelvic painPeptic ulcer Pericardial
 effusion Pericarditis Personality disorder Petechiae
 Pharyngitis Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Pleural disorder Pleural effusion
 Pneumocystis jiroveci pneumonia Pneumonia aspiration
 Pneumonia cytomegaloviral Pneumothorax Poisoning
 Pollakiuria Polyarteritis nodosa Polyneuropathy Polyuria
 Porphyria Precocious puberty Proctalgia Proctitis
 Productive cough Prostatic specific antigen increased
 Protein urine present Proteinuria Pruritus Pruritus genital
 Pseudolymphoma Psychotic disorder Puberty Pulmonary
 embolism Pulmonary fibrosis Pulmonary function test decreased
 Pulmonary oedema Pulmonary toxicity Punctate keratitis
 Purpura Radiculopathy Rales Rash Rash generalised Rash
 maculo-papular Rash morbilliformRash pustular Rectal
 haemorrhageRectal tenesmus Renal colicRenal failure Renal
 failure acute Renal impairment Renal papillary necrosis Renal
 tubular disorder Respiratory depression Respiratory disorder
 Respiratory failure Respiratory tract infection Retinal
 vein thrombosis Retinitis pigmentosa Rhinitis Salivary
 hypersecretion Scotoma Seborrhoeic dermatitis Sensory loss
 Sepsis Shock Sinus bradycardiaSinusitis Skin burning
 sensation Skin cancerSkin discolouration Skin exfoliation Skin
 hypertrophySkin irritation Skin mass Skin necrosis Skin odour
 abnormal Skin ulcer Sleep disorder Smear cervix abnormal
 Social avoidant behaviour Soft tissue necrosis Somnolence
 Speech disorder Spinal cord disorder Sputum increased
 Stevens-Johnson syndrome Stomatitis Stupor
 Subcutaneous nodule Subdural haematoma Sudden death
 Swelling Syncope Systemic lupus erythematosus Tachycardia
 Telangiectasia Tenderness Tension Testicular disorder
 Thinking abnormalThirst Thrombocytopenia Thrombophlebitis
 Thrombophlebitis superficialThrombosis Tic Tinnitus
 Tongue coated Tongue disorder Tongue oedema Tooth
 abscess Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Tumour lysis syndrome Ulcer
 Ulcerative keratitis Upper respiratory tract infection
 Ureteric obstruction Urethral disorderUrethral pain
 Urinary incontinence Urinary retentionUrinary tract disorder
 Urine output increased Urticaria Uterine cancer Uterine
 cervical erosion Uterine leiomyomaUterine spasm Vaginal discharge
 Vaginal haemorrhage Vaginal infectionVaginal inflammation
 Varicose vein Vascular purpura Vasculitis Vasodilation
 procedure Venous thrombosisVentricular extrasystoles Ventricular
 fibrillation Ventricular tachycardia Vertigo Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vitreous floatersVomiting Vulvovaginal candidiasis
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Weight decreased Weight increased Withdrawal bleed X-linked
 lymphoproliferative syndrome Xanthopsia

Parathyroid hormone/parathyroid hormone-related peptide receptor -
Group: Receptor

Treated with:

preotact: approved biotech (0 associated side effects) For
use/treatment in osteoporosis.

teriparatide: approved biotech (0 associated side effects)

For the treatment of osteoporosis in men and postmenopausal
women who are at high risk for having a fracture. Also used to
increase bone mass in men with primary or hypogonadal osteoporosis
who are at high risk for fracture.

known side effects mediated through drugs targeting this protein:

Small conductance calcium-activated potassium channel protein 3 -

Group: Channel

Treated with:

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis
(athlete’s foot), tinea cruris, and tinea corporis caused
by <i>Trichophyton rubrum&/i>, <i>Trichophyton
mentagrophytes&/i>, and <i>Epidermophyton
floccosum&/i>, in the treatment of cutaneous candidiasis
(moniliasis), and in the treatment of tinea versicolor.

33 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Anaphylactoid reaction
Angioedema Breast disorder Burning sensationCardiac disorder
Dermatitis Dermatitis contact Erythema Gastrointestinal
pain Genital burning sensation Genital dischargeHeadache
Immune system disorder Muscle spasms Nausea Nervous
system disorder Oedema Pain Pelvic painPruritus genital Rash
Respiratory disorder Respiratory tract infection Upper
respiratory tract infection Urethral disorderUrinary tract disorder
Urinary tract infection Urticaria Vaginal discharge
Vulvovaginal discomfort Vulvovaginal erythema

Triggering receptor expressed on myeloid cells 1 - Group: Receptor

Treated with:

d-tartaric acid: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 7 receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side
effects) For the acute treatment of migraine with or without aura
in adults.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

methysergide: approved small molecule (69 associated side effects) For the treatment of vascular headache

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

epinastine: approved small molecule (12 associated side effects) For the prevention of itching associated with allergic conjunctivitis.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

amisulpride: approved small molecule (0 associated side effects) Investigated for use/treatment in schizophrenia and schizoaffective disorders, mania in bipolar disorder, and depression.

881 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain lower Abdominal pain upper Abdominal tenderness
 Abnormal dreams Abnormal faeces Abscess
 Accommodation disorder Acidosis Acne Acute coronary syndrome
 Acute psychosis Adenoma benign Affect lability
 Aggression Agitation Agoraphobia Agranulocytosis Akathisia
 Akinesia Alanine aminotransferase increased Albright's disease
 Albuminuria Alcohol intolerance Alkalosis Alopecia
 Altered state of consciousness Amblyopia Amenorrhoea
 Amnesia Anaemia Anaemia macrocytic Anaphylactic

shock Anaphylactoid reaction Anger Angina pectoris Angioedema
 Angiopathy Angle closure glaucoma Anorectal disorder
 Anorgasmia Antisocial behaviour Antisocial personality
 disorder Anxiety Aortic dissection Aortic embolus Apathy
 Aphasia Aphthous stomatitis Apnoea Appendicitis
 Arrhythmia Arteriospasm coronary Arteritis Arthralgia
 Arthritis Arthropathy Asocial behaviour Aspartate
 aminotransferase increased Asphyxia Aspiration Asthenia
 Asthma Ataxia Atelectasis Atrial fibrillation
 Atrial flutter Atrioventricular block Atrioventricular block
 first degree Atrophy Azotaemia Back pain Balance disorder
 Basophilia Benign prostatic hyperplasia Bladder pain
 Blepharitis Blepharospasm Blindness Blister Blood
 alkaline phosphatase increased Blood bilirubin increased Blood
 cholesterol increased Blood creatine phosphokinase increased Blood
 creatinine increased Blood glucose decreased Blood glucose
 increased Blood insulin increased Blood lactate dehydrogenase
 increased Blood potassium decreased Blood potassium increased
 Blood pressure abnormal Blood pressure diastolic decreased
 Blood pressure fluctuation Blood pressure increased Blood
 pressure systolic decreased Blood prolactin increased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone neoplasm Bone pain Bradycardia
 Bradykinesia Bradyphrenia Breast disorder Breast
 enlargement Breast feeding Breast pain Breath odour Bronchitis
 Bronchopneumopathy Bruxism Buccoglossal syndrome
 Bundle branch block Burning sensation Bursitis Calculus
 urinary Candidiasis Carbohydrate tolerance decreased Cardiac
 arrest Cardiac disorder Cardiac failure Cardiac failure
 congestive Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carpal tunnel syndrome Cataplexy
 Cataract Catatonia Cells in urine Cellulitis Cerebral
 haemorrhage Cerebral infarction Cerebral ischaemia
 Cerebrospinal fluid rhinorrhoea Cerebrovascular accident
 Cerebrovascular disorder Cervicitis Chapped lips
 Cheilitis Chest discomfort Chest pain Chills Choking
 Choking sensation Cholecystitis Cholelithiasis Cholestasis
 Choreoathetosis Chronic obstructive pulmonary disease
 Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat
 Colitis ischaemic Coma Completed suicide Condition aggravated
 Confusional state Congenital anomaly Congenital
 genitourinary abnormality Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal lesion Costochondritis Cough
 Cyanosis Cystitis Cystitis noninfective Deafness Death
 Decreased appetite Decubitus ulcer Deep vein thrombosis
 Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depression Depressive
 symptom Derealisation Dermal cyst Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis

exfoliative Developmental delay Diabetes mellitus Diabetic coma
 Diabetic hyperglycaemic coma Diabetic hyperosmolar coma
 Diabetic ketoacidosis Diarrhoea Diplopia Discomfort
 Disease progression Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in
 attention Disturbance in sexual arousal Dizziness Dizziness
 exertional Dizziness postural Drooling Drug abuse Drug
 dependence Drug eruption Drug interaction Dry eye Dry mouth
 Dry skin Dry throat Duodenal ulcer Dysarthria Dysgeusia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dyspnoea Dystonia Dysuria Ear
 disorder Ear infection Ear pain Ecchymosis Eclampsia
 Eczema Effusion Ejaculation disorder Elastosis
 perforans Electrocardiogram QT prolonged Electrocardiogram ST
 segment elevation Electrocardiogram T wave inversion Electrocardiogram
 abnormal Electrocardiogram change Electroencephalogram
 abnormal Embolism Encephalopathy Endocrine disorder
 Energy increased Enteritis Enuresis Eosinophilia
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eruption Erythema Erythema multiforme Erythromelalgia
 Euphoric mood Exfoliative rash Exostosis Extrapyrarnidal
 disorder Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 pain Eyelid disorder Eyelid function disorder Eyelid oedema
 Eyelid ptosis Face oedema Facial pain Facial paresis
 Faecal incontinence Faecalith Faecaloma Faeces hard
 Fasting Fatigue Fear Feeling abnormal Feeling cold
 Feeling hot Feeling jittery Female sexual dysfunction
 Fibrosis Flank pain Flat affect Flatulence Flushing
 Folliculitis Formication Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gastric disorder Gastric pH
 decreased Gastric ulcer Gastric ulcer haemorrhage Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
 General symptom Genital discharge Gestational hypertension
 Gingival bleeding Gingival pain Gingivitis Glaucoma
 Glossitis Glossodynia Glucose tolerance decreased Glucose
 tolerance impaired Glycosuria Glycosylated haemoglobin increased
 Goitre Gout Grand mal convulsion Gravitational oedema
 Groin pain Gynaecomastia Haematemesis Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemolysis
 Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhoids Hallucination Hallucination, auditory
 Hallucination, visual Hangover Head discomfort Headache
 Heart disease congenital Heart rate irregular Hemianopia
 Hemiparesis Hemiplegia Hepatic enzyme increased Hepatic
 failure Hepatic function abnormal Hepatic steatosis Hepatitis
 Hepatobiliary disease Hepatomegaly Hernia Hiccups
 Hirsutism Homicidal ideation Hormone level abnormal
 Hostility Hot flush Hyperacusis Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hyperchloraemia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperinsulinism Hyperkalaemia Hyperkeratosis

Hyperkinesia Hyperlipidaemia Hypernatraemia
Hyperparathyroidism Hyperpathia Hyperplasia Hyperreflexia
Hypersensitivity Hypersexuality Hypersomnia Hypertension
Hypertensive crisis Hyperthermia Hyperthyroidism
Hypertonia Hypertriglyceridaemia Hypertrophy Hyperuricaemia
Hyperventilation Hypoaesthesia Hypoaesthesia oral
Hypocalcaemia Hypochloraemia Hypocholesterolaemia
Hypochromic anaemia Hypoglycaemia Hypokalaemia
Hypokinesia Hypomagnesaemia Hypomania Hypomenorrhoea
Hyponatraemia Hypophagia Hypoproteinaemia Hyporeflexia
Hypotension Hypothermia Hypothyroidism Hypotonia
Hypoventilation Hypoxia Idiopathic thrombocytopenic
purpura Ileus Ileus paralytic Ill-defined disorder Immune
system disorder Inappropriate antidiuretic hormone secretion
Incontinence Increased appetite Increased bronchial
secretion Induration Infarction Infection Infestation
Inflammation Influenza Inguinal hernia Injection site
mass Injection site pain Injection site reaction Insomnia
Intention tremor Intentional self-injury Interstitial lung
disease Intestinal functional disorder Intestinal obstruction
Intestinal perforation Iron deficiency Iron deficiency
anaemia Irritability Irritable bowel syndrome Ischaemia
Ischaemic stroke Jaundice Jaundice cholestatic Joint
contracture Joint range of motion decreased Joint stiffness Joint
swelling Judgement impaired Keratitis Ketoacidosis
Ketosis Laboratory test abnormal Lacrimal disorder
Lacrimation increased Laryngitis Laryngospasm Leiomyoma
Lens disorder Lenticular opacities Lenticular
pigmentation Leriche syndrome Lethargy Leukocytosis
Leukoderma Leukopenia Leukoplakia oral Libido decreased
Libido increased Lip dry Liver disorder Liver function
test abnormal Logorrhoea Loss of consciousness Loss of libido
Lower respiratory tract infection Lung infiltration
Lymphadenopathy Lymphocytosis Lymphoedema Major depression
Malaise Male sexual dysfunction Mania Masked facies
Mastitis Mediastinal disorder Melaena Memory impairment
Menopausal symptoms Menorrhagia Menstrual disorder
Menstruation irregular Mental disability Mental disorder
Mental retardation Mental status changes Metrorrhagia
Micturition urgency Migraine Miosis Mitral valve
incompetence Mobility decreased Monocytosis Mood swings Mouth
ulceration Movement disorder Muscle atrophy Muscle contractions
involuntary Muscle contracture Muscle enzyme increased
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle tightness Muscle twitching Muscular weakness
Musculoskeletal chest pain Musculoskeletal discomfort
Musculoskeletal pain Musculoskeletal stiffness Myalgia
Myasthenic syndrome Mydriasis Myocardial infarction
Myocardial ischaemia Myocarditis Myoclonus Myopathy Nasal
congestion Nasal disorder Nasal dryness Nasopharyngitis
Nausea Neck pain Neoplasm Neoplasm malignant
Neoplasm recurrence Nephritis Nephrolithiasis Nervous
system disorder Nervousness Neuralgia Neurodermatitis Neuroleptic
malignant syndrome Neurological symptom Neuropathy peripheral
Neurosis Neutropenia Neutrophil count decreased Neutrophil

count increased Night sweats Nightmare Nocturia
Normochromic normocytic anaemia Nuchal rigidity Nystagmus
Obesity Obsessive thoughts Obstruction Ocular hyperaemia
Oculogyric crisis Oedema Oedema peripheral Oesophageal
disorder Oesophageal ulcer Oesophagitis Oliguria
Onychomycosis Opisthotonus Oral candidiasis Oral pain
Orchitis noninfective Oropharyngeal discomfort
Oropharyngeal pain Oropharyngeal spasm Orthostatic
hypotension Osteoarthritis Osteopenia Osteoporosis Otitis
externa Otitis media Ovarian cyst Pain Pain in extremity
Pain in jaw Pallor Palpitations Pancreatitis
Pancreatitis acute Panic attack Panic disorder Panic
disorder with agoraphobia Panic reaction Paraesthesia
Paraesthesia oral Paralysis Paranoia Parkinsonian gait
Parkinsonism Parosmia Pathological fracture
Pathological gambling Pelvic pain Peptic ulcer Pericardial
effusion Pericarditis constrictive Periodontitis Periorbital
oedema Peripheral coldness Peripheral vascular disorder
Personality disorder Petechiae Pharyngeal erythema
Pharyngitis Phlebitis Phobia Phonological disorder
Photophobia Photopsia Photosensitivity reaction Platelet
count decreased Pleural disorder Pleural effusion Pleural fibrosis
Pneumonia Pneumonia aspiration Poisoning Pollakiuria
Polycythaemia Polydipsia Polyuria Pre-eclampsia
Premature ejaculation Premenstrual syndrome Presyncope
Priapism Productive cough Prolactinoma Prostatitis
Protein urine present Proteinuria Protrusion tongue Pruritus
Pruritus genital Psoriasis Psychiatric symptom Psychomotor
retardation Psychotic disorder Pulmonary congestion Pulmonary
embolism Pulmonary fibrosis Pulmonary oedema Purpura
Pyelonephritis Pyuria Rash Rash erythematous Rash
maculo-papular Rash papular Rash pustular Rash vesicular
Raynaud's phenomenon Rectal haemorrhage Red blood cell
count decreased Red blood cell sedimentation rate increased
Reflux oesophagitis Regressive behaviour Regurgitation
Renal failure acute Renal pain Respiratory alkalosis
Respiratory arrest Respiratory disorder Respiratory
distress Respiratory failure Respiratory tract congestion
Respiratory tract infection Respiratory tract infection viral
Restless legs syndrome Retching Retroperitoneal fibrosis
Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
Salivary gland enlargement Salivary hypersecretion Scab
Schizoaffective disorder Schizophreniform disorder
Sciatica Scotoma Seasonal allergy Seborrhoeic dermatitis
Sedation Sensation of heaviness Sensory loss Sepsis
Septic shock Sexual dysfunction Shock Sinus congestion
Sinus disorder Sinus headache Sinus tachycardia Sinusitis
Skin discolouration Skin disorder Skin hypertrophy Skin
irritation Skin ulcer Sleep apnoea syndrome Sleep disorder Sleep
talking Sluggishness Sneezing Social avoidant behaviour
Somnambulism Somnolence Speech disorder Sputum increased
Status epilepticus Stevens-Johnson syndrome Stomatitis
Stridor Stupor Subarachnoid haemorrhage Subdural
haematoma Sudden death Suicidal ideation Suicide attempt

Superior sagittal sinus thrombosis Supraventricular tachycardia
 Suspiciousness Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tardive dyskinesia Telangiectasia
 Tenderness Tendonitis Tenosynovitis Tension Tension
 headache Testicular pain Thinking abnormal Thirst Thought
 blocking Throat irritation Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid adenoma Thyroiditis Tic Tinnitus
 Tongue discolouration Tongue disorder Tongue dry Tongue
 oedema Tongue paralysis Tongue spasm Tonsillar hypertrophy
 Tooth abscess Tooth disorder Tooth impacted Tooth
 infection Toothache Torsade de pointes Torticollis Toxic
 epidermal necrolysis Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Unintended
 pregnancy Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urinary
 tract obstruction Urine output increased Urosepsis Urticaria
 Uterine disorder Uterine haemorrhage Uterine leiomyoma
 Uterovaginal prolapse VIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicose vein Vascular insufficiency Vascular purpura
 Vasculitis Vasoconstriction Vasodilation procedure Vasospasm
 Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Viral diarrhoea Viral infection Vision
 blurred Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cells urine positive Withdrawal
 syndrome Xerosis Yawning

Sodium bicarbonate cotransporter 3 - Group: Transporter

Treated with:

sodium bicarbonate: approved small molecule (10 associated
 side effects) Sodium bicarbonate is used for the treatment of
 metabolic acidosis which may occur in severe renal disease,
 uncontrolled diabetes, circulatory insufficiency due to shock or
 severe dehydration, extracorporeal circulation of blood, cardiac
 arrest and severe primary lactic acidosis. Also is indicated in
 severe diarrhea which is often accompanied by a significant loss of
 bicarbonate. Further indicated in the treatment of certain drug
 intoxications, including barbiturates (where dissociation of the
 barbiturate-protein complex is desired), in poisoning by salicylates
 or methyl alcohol and in hemolytic reactions requiring
 alkalinization of the urine to diminish nephrotoxicity of blood
 pigments.

10 known side effects mediated through drugs targeting this protein:

Aggression Alkalosis Cellulitis Extravasation Hypernatraemia
Irritability Metabolic alkalosis Necrosis Tetany
Ulcer

Oxytocin receptor - Group: Receptor

Treated with:

oxytocin: approved biotech (0 associated side effects) To assist in labor, elective labor induction, uterine contraction induction

carbetocin: approved small molecule (0 associated side effects)
Used to control postpartum hemorrhage and bleeding after giving birth.

known side effects mediated through drugs targeting this protein:

Cysteinyl leukotriene receptor 1 - Group: Receptor

Treated with:

montelukast: approved small molecule (104 associated side effects) For the treatment of asthma

zafirlukast: approved small molecule (53 associated side effects) For the prophylaxis and chronic treatment of asthma.

cinalukast: approved small molecule (0 associated side effects)
For Protection against second- phase inflammation in exercise-induced bronchoconstriction and Asthma.

nedocromil: approved small molecule (44 associated side effects)
For the treatment of mild to moderate asthma

pranlukast: approved small molecule (0 associated side effects)
Used as an adjunct to the standard therapy of inhaled steroids with inhaled long- and/or short-acting beta-agonists.

143 known side effects mediated through drugs targeting this protein:

Abdominal pain Aggression Agitation Agranulocytosis Alanine aminotransferase increased Allergic granulomatous angitis Anaphylactic shock Angioedema Anxiety Aortic dissection Arthralgia Arthritis Aspartate aminotransferase increased Asthenia Atopy Back pain Benign prostatic hyperplasia Blister Blood disorder Body temperature increased Breast tendernessBronchitis Cardiac disorder Chest pain Completed suicideConjunctivitis Connective tissue disorder Convulsion Cough Death Dermatitis Dermatitis atopicDermatitis bullous Diarrhoea Discomfort Disturbance in sexual arousal Dizziness Drug interaction Dyspepsia Dyspnoea Ear infection Ear pain Eczema Eosinophilia Eosinophilic pneumonia Epistaxis Erythema Erythema nodosum Fatigue Feeling abnormal Feeling hotFoetor hepaticus Gastroenteritis Gastrointestinal disorder Gastrointestinal pain Haematemesis Haemoglobin Haemoptysis Haemorrhage Haemorrhagic disorder Hallucination Headache Hepatic failure Hepatic function abnormal Hepatitis cholestatic Hepatitis fulminant Hepatobiliary disease Hepatocellular injury Hyperbilirubinaemia Hyperkinesia Hyperplasia

Hypersensitivity Hypertrophy Hypoaesthesia Ill-defined
 disorder Immune system disorder Increased bronchial secretion
 Infection Influenza Insomnia Interstitial lung disease
 Irritability Laryngitis Leukocytoclastic vasculitis
 Leukopenia Libido decreased Lip swelling Liver disorder
 Liver function test abnormal Loeffler's syndrome Malaise
 Mediastinal disorder Mental disorder Muscle spasms
 Musculoskeletal discomfort Myalgia Mydriasis Myopia
 Nasal congestion Nasopharyngitis Nausea Nervous system
 disorder Neuropathy peripheral Neutropenia Ocular hyperaemia
 Oedema Otitis media Pain Palpitations
 Pancreatitis Paraesthesia Pharyngitis Photophobia
 Pneumonia Pruritus Pulmonary eosinophilia Pyuria Rash
 Rectal haemorrhage Respiratory disorder Respiratory tract
 infection Rhinitis Rhinorrhoea Sinus headache Sinusitis Skin
 infection Somnolence Sputum increased Swelling Tenderness
 Thirst Thrombocytopenia Tonsillitis Tooth infection
 Tracheobronchitis Tremor Upper respiratory tract infection
 Urticaria Varicella Vasculitis Viral infection Vomiting
 Wheezing

Beta-adrenergic receptor kinase 2 - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
 (0 associated side effects) For nutritional supplementation,
 also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric-acid receptor subunit alpha-5 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side
 effects) For the management of anxiety disorders, and for
 treatment of status epilepticus.

ethchlorvynol: illicit, approved small molecule (0 associated
 side effects) Used for short-term hypnotic therapy in the
 management of insomnia for periods of up to one week in duration;
 however, this medication generally has been replaced by other
 sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects)
 For the short-term treatment of insomnia (generally 7-10
 days).

butabarbital: illicit, approved small molecule (0 associated
 side effects) For short-term treatment of insomnia and anxiety
 disorders

butalbital: illicit, approved small molecule (0 associated side
 effects) Used in combination with acetaminophen or aspirin and
 caffeine for its sedative and relaxant effects in the treatment of
 tension headaches, migraines, and pain.

talbutal: illicit, approved small molecule (0 associated side
 effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

meprobamate: illicit,approved small molecule (54 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety.

eszopiclone: approved small molecule (0 associated side effects) For the treatment of insomnia

alprazolam:illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

thiopental: approved small molecule (0 associated side effects) For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam:illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

primidone: approved small molecule (16 associated side effects) For the treatment of epilepsy

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects)
For the treatment of anxiety disorders and alcohol withdrawal.

methylphenobarbital: approved small molecule (37 associated side effects)
For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects)
For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects)
Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

flumazenil: approved small molecule (100 associated side effects)
For the complete or partial reversal of the sedative effects of benzodiazepines in cases where general anesthesia has been induced and/or maintained with benzodiazepines, and where sedation has been produced with benzodiazepines for diagnostic and therapeutic procedures. Also for the management of benzodiazepine overdose as an adjunct for appropriate supportive and symptomatic measures.

estazolam: illicit,approved small molecule (131 associated side effects)
For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

amobarbital: illicit,approved small molecule (0 associated side effects)

aprobarbital: illicit,approved small molecule (0 associated side effects)

butethal: illicit,approved small molecule (0 associated side effects)
For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects)
Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects)
For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit,experimental small molecule (0 associated side effects)

flunitrazepam: illicit,approved small molecule (0 associated side effects)
For short-term treatment of severe insomnias, that are not responsive to other hypnotics.

bromazepam: illicit,approved small molecule (47 associated side effects)
For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects)
Used for the short-term treatment of anxiety disorders.

prazepam: illicit,approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.
 cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

561 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal dreams Abnormal faeces Acidosis Acne Affect
 lability Ageusia Aggression Agitation Agranulocytosis
 Akathisia Akinesia Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amenorrhoea Amnesia Anaemia
 Anaemia megaloblastic Anaphylactic shock Anaphylactoid
 reaction Anger Angioedema Angiopathy Anorectal discomfort
 Anorectal disorder Anterograde amnesia Anuria
 Anxiety Aortic dissection Apathy Aphonia Aplasia
 Aplastic anaemia Apnoea Appetite disorder Arrhythmia
 Arterial spasm Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asphyxia Aspiration Asthenia
 Asthma Ataxia Athetosis Atrioventricular block Back
 pain Balance disorder Bladder dysfunction Bladder pain
 Blindness Blood alkaline phosphatase increased Blood
 bilirubin increased Blood disorder Blood glucose decreased
 Blood thromboplastin decreased Body temperature decreased
 Body temperature increased Borderline personality disorder
 Bradycardia Bradyphrenia Brain oedema Breast disorder
 Breast engorgement Breast enlargement Breast feeding
 Breast neoplasm Breast pain Breast swelling Breath odour
 Bronchitis Bronchospasm Bursitis Candidiasis Carbon
 dioxide increased Cardiac arrest Cardiac disorder Cardiac failure
 Cardio-respiratory arrest Cardiovascular disorder
 Cellulitis Cerebellar syndrome Cerebrovascular accident
 Chest discomfort Chest pain Chills Choking sensation
 Cholelithiasis Chorea Chromaturia Clonic convulsion
 Clonus Clumsiness Coagulopathy Cognitive disorder
 Colitis Coma Completed suicide Confusional state Congenital
 skin disorder Conjunctivitis Connective tissue disorder
 Constipation Conversion disorder Convulsion
 Coordination abnormal Cough Crying Cyanosis Cystitis
 Cystitis noninfective Cytolytic hepatitis Deafness Death
 Decreased appetite Dehydration Delirium Delirium tremens
 Delusion Dependence Depersonalisation Depressed level of
 consciousness Depressed mood Depression Depressive symptom
 Derealisation Dermatitis Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Diarrhoea Diplopia Discomfort
 Disinhibition Disorientation Disturbance in attention
 Disturbance in sexual arousal Dizziness Drooling Drug
 abuse Drug dependence Drug eruption Drug hypersensitivity Drug
 intolerance Drug withdrawal convulsions Dry eye Dry mouth Dry
 skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Eczema Effusion Ejaculation

delayed Ejaculation failure Elderly Emotional disorder
 Emotional distress Emotional poverty Encephalopathy
 Encopresis Endometrial sarcoma Energy increased
 Enterocolitis Enuresis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Euphoric mood Extrapyrarnidal disorder
 Extrasystoles Eye disorder Eye irritation Eye
 movement disorder Eye pain Eye swelling Eyelid ptosis Face
 oedema Faecal incontinence Fatigue Fear Feeling abnormal
 Feeling cold Feeling drunk Feeling hot Feeling jittery
 Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Furuncle Gait
 disturbance Galactorrhoea Gangrene Gastric disorder Gastric
 ulcer Gastritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gingival pain Glossitis
 Glossodynia Gout Grand mal convulsion Gynaecomastia
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemorrhage Haemorrhage urinary tract Haemorrhoids
 Hallucination Hangover Headache Hearing impaired Heart
 rate irregular Hemiparesis Hepatic enzyme increased Hepatic
 failure Hepatic function abnormal Hepatitis Hepatocellular
 injury Hepatomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hostility Hot flush Hunger Hyperacusis
 Hyperaemia Hyperaesthesia Hypercapnia Hypercholesterolaemia
 Hyperhidrosis Hyperkinesia Hyperlipidaemia
 Hyperprolactinaemia Hyperpyrexia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hypertrophy
 Hyperventilation Hypoaesthesia Hypochromic anaemia
 Hypokalaemia Hypokinesia Hypomania Hyponatraemia
 Hypopnoea Hyporeflexia Hypotension Hypothermia Hypotonia
 Hypoventilation Hypoxia Ill-defined disorder Illusion
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Induration Infection Infectious
 mononucleosis Infestation Inflammation Influenza Injection
 site pain Injection site reaction Insomnia Intraocular
 pressure increased Iritis Irritability Jaundice Joint
 swelling Laboratory test abnormal Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver disorder Liver function test abnormal
 Liver injury Local reaction Logorrhoea Loss of
 consciousness Loss of libido Lung disorder Lymphadenopathy
 Major depression Malaise Mania Mastitis Mean arterial
 pressure Mediastinal disorder Melaena Memory impairment
 Menopausal symptoms Menorrhagia Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Metrorrhagia Micturition urgency
 Migraine Miosis Mood swings Motion sickness Mouth
 ulceration Movement disorder Muscle relaxant therapy Muscle
 rigidity Muscle spasms Muscle spasticity Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 disorder Musculoskeletal stiffness Myalgia Mydriasis
 Myoclonus Myopathy Nasal congestion Nasopharyngitis
 Nausea Neck pain Necrosis Neoplasm Nephrolithiasis
 Nervous system disorder Nervousness Neuralgia Neuritis

Neuroleptic malignant syndrome Neuropathy peripheral
 Neurosis Neutropenia Nightmare Nocturia Nodal arrhythmia
 Nodal rhythm Nodule Nuchal rigidity Nystagmus
 Obstruction Obstructive airways disorder Oedema Oedema
 peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Osteomalacia Otitis externa
 Otitis media Pain Pain in extremity Pain in jaw Pallor
 Palpitations Pancytopenia Panic attack Panic
 disorder Panic reaction Paraesthesia Paraesthesia oral
 Paralysis Paranoia Paresis Pelvic pain Penile discharge
 Pericardial effusion Periorbital oedema Personality
 disorder Petechiae Phaeochromocytoma Pharyngitis Phlebitis
 Phobia Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Proctitis Prothrombin level
 increased Pruritus Psychomotor retardation Psychotic
 disorder Puberty Pulmonary congestion Pulmonary function
 test decreased Pulmonary haemorrhage Pulmonary hypertension
 Pulmonary oedema Purpura non-thrombocytopenic Pyelonephritis
 Rash Rash maculo-papular Rash pustular Rectal
 haemorrhage Rectal tenesmus Renal failure Renal pain Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sensation of heaviness Sexual dysfunction Shock Sinus
 tachycardia Sinusitis Skin burning sensation Skin discolouration
 Skin disorder Skin exfoliation Skin necrosis Sleep
 apnoea syndrome Sleep disorder Sleep talking Sluggishness
 Sneezing Somnambulism Somnolence Speech disorder
 Stevens-Johnson syndrome Stomatitis Strabismus Stridor
 Stupor Substance abuse Suicidal ideation Swelling
 Swelling face Swollen tongue Syncope Tachycardia
 Tachypnoea Tenderness Tendonitis Tension Tetany
 Therapeutic response decreased Thinking abnormal Thirst
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thyroid neoplasm Tinnitus
 Tongue coated Tongue disorder Tongue oedema Tooth
 disorder Toothache Toxic epidermal necrolysis Transaminases
 increased Tremor Tropical spastic paresis Ulcer Upper
 airway obstruction Upper respiratory tract infection Urethral
 disorder Urethritis Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine colour abnormal Urine output increased Urticaria
 Uterine haemorrhage Uterovaginal prolapse Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Vascular purpura Vasodilation procedure Venous thrombosis
 Ventricular arrhythmia Ventricular extrasystoles Ventricular
 tachycardia Vertigo Vestibular disorder Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Cytokine receptor common gamma chain - Group: Receptor

Treated with:

denileukin diftitox: approved biotech (0 associated side effects) For treatment of cutaneous T-cell lymphoma
aldesleukin: approved biotech (0 associated side effects) For treatment of adults with metastatic renal cell carcinoma.

known side effects mediated through drugs targeting this protein:

Erythropoietin receptor - Group: Receptor

Treated with:

darbepoetin alfa: approved biotech (0 associated side effects) For the treatment of anemia (from renal transplants or certain HIV treatment)
3,5 dibromotyrosine: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Beta-1 adrenergic receptor - Group: Receptor

Treated with:

esmolol: approved small molecule (105 associated side effects) For the rapid control of ventricular rate in patients with atrial fibrillation or atrial flutter in perioperative, postoperative, or other emergent circumstances where short term control of ventricular rate with a short-acting agent is desirable. Also used in noncompensatory sinus tachycardia where the rapid heart rate requires specific intervention.
betaxolol: approved small molecule (211 associated side effects) For the management of hypertension.
isoetharine: approved small molecule (0 associated side effects) For the treatment of asthma, wheezing, and chronic asthmatic bronchitis.
metoprolol: approved small molecule (132 associated side effects) For the management of acute myocardial infarction, angina pectoris, heart failure and mild to moderate hypertension. May be used to treat supraventricular and tachyarrhythmias and as prophylaxis for migraine headaches.
atenolol: approved small molecule (169 associated side effects) For the management of hypertension and long-term management of patients with angina pectoris
norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.
timolol: approved small molecule (149 associated side effects) In its oral form it is used to treat high blood pressure and prevent heart attacks, and occasionally to prevent migraine

headaches. In its ophthalmic form it is used to treat open-angle and occasionally secondary glaucoma.

phenylpropanolamine: approved, withdrawn small molecule (0 associated side effects) For the treatment of nasal congestion, control of urinary incontinence, priapism and obesity.

sotalol: approved small molecule (99 associated side effects)

For the maintenance of normal sinus rhythm [delay in time to recurrence of atrial fibrillation/atrial flutter (AFIB/AFL)] in patients with symptomatic AFIB/AFL who are currently in sinus rhythm. Also for the treatment of documented life-threatening ventricular arrhythmias.

carteolol: approved small molecule (43 associated side effects)

For the treatment of intraocular hypertension and chronic open-angle glaucoma

propranolol: approved small molecule (96 associated side effects) For the prophylaxis of migraine.

labetalol: approved small molecule (103 associated side effects) For the management of hypertension (alone or in combination with other classes of antihypertensive agents), as well as chronic stable angina pectoris and sympathetic overactivity syndrome associated with severe tetanus. Labetalol is used parenterally for immediate reduction in blood pressure in severe hypertension or in hypertensive crises when considered an emergency, for the control of blood pressure in patients with pheochromocytoma and pregnant women with preeclampsia, and to produce controlled hypotension during anesthesia to reduce bleeding resulting from surgical procedures.

bisoprolol: approved small molecule (172 associated side effects) For management of heart failure, angina pectoris, and mild to moderate hypertension and for secondary prevention of myocardial infarction (MI).

dobutamine: approved small molecule (18 associated side effects)

For inotropic support in the short-term treatment of patients with cardiac decompensation due to depressed contractility resulting either from organic heart disease or from cardiac surgical procedures

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic rhinitis, croup, sinusitis, otitis media, and tracheobronchitis. Also used as first-line therapy of priapism.

alprenolol: approved small molecule (0 associated side effects)

For the treatment of hypertension, angina, and arrhythmia

pindolol: approved small molecule (95 associated side effects)

For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

salbutamol: approved small molecule (153 associated side effects) For symptomatic relief and prevention of bronchospasm due to bronchial asthma, chronic bronchitis, and other chronic bronchopulmonary disorders such as COPD.

isoproterenol: approved small molecule (26 associated side effects) For the treatment of mild or transient episodes of heart block that do not require electric shock or pacemaker therapy also used in management of asthma and chronic bronchitis

arbutamine: approved small molecule (0 associated side effects)

Used to elicit acute cardiovascular responses (cardiac stimulant), similar to those produced by exercise, in order to aid in diagnosing the presence or absence of coronary artery disease (CAD) in patients who cannot exercise adequately.

amiodarone: approved small molecule (192 associated side effects) Intravenously, for initiation of treatment and prophylaxis of frequently recurring ventricular fibrillation and hemodynamically unstable ventricular tachycardia in patients refractory to other therapy. Orally, for the treatment of life-threatening recurrent ventricular arrhythmias such as recurrent ventricular fibrillation and recurrent hemodynamically unstable ventricular tachycardia.

carvedilol: approved small molecule (198 associated side effects) For the treatment of mild or moderate (NYHA class II or III) heart failure of ischemic or cardiomyopathic origin.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

acebutolol: approved small molecule (113 associated side effects) For the management of hypertension and ventricular premature beats in adults.

nadolol: approved small molecule (71 associated side effects)

Used in cardiovascular disease to treat arrhythmias, angina pectoris, and hypertension.

levobunolol: approved small molecule (49 associated side effects) For lowering intraocular pressure (IOP) and may be used in patients with chronic open-angle glaucoma or ocular hypertension.

metipranolol: approved small molecule (38 associated side effects) Indicated in the treatment of elevated intraocular pressure in patients with ocular hypertension or open angle glaucoma.

fenoterol: approved small molecule (0 associated side effects)

Fenoterol is used for the treatment of asthma.

pirbuterol: approved small molecule (53 associated side effects)

For the prevention and reversal of bronchospasm in patients 12 years of age and older with reversible bronchospasm including asthma.

bevantolol: approved small molecule (0 associated side effects)

For the treatment of angina pectoris and hypertension.

practolol: approved small molecule (0 associated side effects)

Used in the emergency treatment of cardiac arrhythmias.

penbutolol: approved small molecule (0 associated side effects)

Used in the treatment of high blood pressure.

ephedra: approved, withdrawn, nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

clenbuterol: approved small molecule (0 associated side effects) Used as a bronchodilator in the treatment of asthma patients.

oxprenolol: approved small molecule (0 associated side effects)
 Used in the treatment of hypertension, angina pectoris,
 arrhythmias, and anxiety.

nebivolol: approved small molecule (54 associated side effects)
 For the treatment of essential hypertension.

droxidopa: approved small molecule (0 associated side effects)
 For treatment of neurogenic orthostatic hypotension (NOH)
 associated with various disorders including Multiple System Atrophy,
 Familial Amyloid Polyneuropathy, hemodialysis induced hypotension
 and Parkinson's Disease. Also investigated for use/treatment in
 neurologic disorders, nephropathy, blood (blood forming organ
 disorders, unspecified), and dizzy/fainting spells.

4-[[(2s)-3-(tert-butylamino)-2-hydroxypropyl]oxy]-3h-indole-2-
 carbonitrile: experimental small molecule (0 associated
 side effects)

2-hydroxymethyl-6-octylsulfanyl-tetrahydro-pyran-3,4,5-triol:
 experimental small molecule (0 associated side effects)

bopindolol: approved small molecule (0 associated side effects)
 For the management of hypertension, edema, ventricular
 tachycardias, and atrial fibrillation.

bupranolol: approved small molecule (0 associated side effects)
 Used to manage hypertension and tachycardia. Also used to
 treat glaucoma.

621 known side effects mediated through drugs targeting this
 protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain upper Abnormal dreams Abscess Acidosis
 Acne Acute coronary syndrome Acute interstitial
 pneumonitis Acute myocardial infarction Acute pulmonary oedema Acute
 respiratory distress syndrome Affect lability Ageusia
 Aggression Agitation Agranulocytosis Akinesia Alanine
 aminotransferase increased Albuminuria Alkalosis Alopecia
 Altered state of consciousness Alveolitis fibrosing
 Amnesia Anaemia Anaphylactic shock Anaphylactoid
 reaction Angina pectoris Angina unstable Angioedema Angiopathy
 Anosmia Antibody test positive Antinuclear antibody
 positive Anxiety Aortic dissection Aphasia Aplastic anaemia
 Appetite disorder Arrhythmia Arterial disorder Arterial
 insufficiency Arterial spasm Arterial stenosis Arterial
 thrombosis Arteriospasm coronary Arthralgia Arthritis Arthropathy
 Aspartate aminotransferase increased Asthenia Asthma
 Ataxia Atelectasis Atrial fibrillation Atrial flutter
 Atrial tachycardia Atrioventricular block Atrioventricular
 block complete Atrioventricular block second degree Back pain
 Balance disorder Benign intracranial hypertension Bladder
 dilatation Bladder pain Blepharitis Blindness Blister Blood
 alkaline phosphatase increased Blood bilirubin increased Blood
 creatinine increased Blood glucose increased Blood insulin
 increased Blood lactate dehydrogenase increased Blood pressure
 increased Blood pressure systolic increased Blood triglycerides
 increased Blood urea increased Blood uric acid increased Body
 temperature increased Bradycardia Bradykinesia Breast abscess
 Breast enlargement Breast pain Bronchial obstruction
 Bronchiolitis Bronchitis Bronchospasm Bronchospasm

paradoxical Bundle branch block Bundle branch block left
 Candidiasis Cardiac arrest Cardiac disorder Cardiac failure
 acute Cardiac failure congestive Cardiac fibrillation Cardiac
 flutter Cardiac output decreased Cardiac septal defect
 Cardioactive drug level Cardiogenic shock Cardiomegaly
 Cardiomyopathy Cardiovascular disorder Cataract
 Catatonia Cellulitis Cerebral haemorrhage Cerebral
 ischaemia Cerebrovascular accident Cerebrovascular disorder
 Chest discomfort Chest pain Chills Cholestasis Cholinergic
 syndrome Choreoathetosis Choroidal detachment Cognitive
 disorder Cold sweat Colitis Colitis ischaemic Collagen disorder
 Coma Conduction disorder Confusional state Congenital
 cardiovascular anomaly Congenital eye disorder Conjunctival
 hyperaemia Conjunctivitis Constipation Convulsion
 Coordination abnormal Corneal degeneration Corneal deposits
 Corneal staining Coronary artery disease Coronary artery
 insufficiency Cough Crocodile tears syndrome Cutaneous
 vasculitis Cyanosis Cystitis Cystitis noninfective Cystoid
 macular oedema Deafness Death Decreased appetite Dehydration
 Delirium Delusion Demyelinating polyneuropathy Dependence
 Depressed level of consciousness Depression Dermatitis
 bullous Dermatitis exfoliative Dermatitis psoriasiform
 Device capturing issue Diabetes mellitus Diarrhoea Diplopia
 Discomfort Disorientation Dissociation Disturbance in
 attention Disturbance in sexual arousal Dizziness Drug
 dependence Drug eruption Drug interaction Drug level increased
 Dry eye Dry mouth Dry throat Dysarthria Dysgeusia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia
 Dyspnoea Dyspnoea exertional Dysuria Ear disorder
 Ear infection Ear pain Ecchymosis Eclampsia Eczema
 Effusion Ejaculation failure Electrocardiogram PR
 interval Electrocardiogram QT prolonged Electrocardiogram ST
 segment Electrocardiogram ST segment depression Electrocardiogram
 abnormal Electrocardiogram change Embolism Encephalopathy
 Eosinophilia Eosinophilic pneumonia Epididymitis
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythema of eyelid Extrapyrimal
 disorder Extrasystoles Extravasation Eye disorder Eye
 haemorrhage Eye irritation Eye pain Eye pruritus Eyelid
 ptosis Fasting Fatigue Fear Feeling abnormal Feeling
 cold Fibroadenoma of breast Fibrosis Flatulence Fluid overload
 Fluid retention Flushing Foetor hepaticus Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric disorder Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Generalised oedema Glossitis
 Glycosuria Goitre Gout Grand mal convulsion Granuloma
 Gravitational oedema Growth hormone deficiency
 Gynaecomastia Haematuria Haemoglobin Haemolytic anaemia
 Haemoptysis Haemorrhage Hallucination Headache Hearing
 impaired Hemiplegia Hepatic cirrhosis Hepatic enzyme increased
 Hepatic failure Hepatic function abnormal Hepatic necrosis
 Hepatitis Hepatitis cholestatic Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection High
 density lipoprotein decreased Hot flush Hyperacusis Hyperaemia

Hyperaesthesia Hyperbilirubinaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypersensitivity Hypertension
 Hypertensive crisis Hyperthyroidism Hypertonia
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hypoaesthesia Hypoglycaemia
 Hypokalaemia Hypokinesia Hypomania Hyponatraemia
 Hypotension Hypothyroidism Hypotonia Hypovolaemia
 Hypoxia Idiopathic pulmonary fibrosis Ileus paralytic
 Ill-defined disorder Immune system disorder Inappropriate
 antidiuretic hormone secretion Incontinence Increased
 appetite Increased tendency to bruise Induration Infarction
 Infection Inflammation Influenza Injection site pain
 Injection site reaction Insomnia Intermittent
 claudication Interstitial lung disease Intraocular pressure
 increased Iridocyclitis Iritis Irritability Ischaemia
 Ischaemic cardiomyopathy Jaundice Jaundice cholestatic
 Keratitis Lacrimation increased Lactic acidosis Laryngitis
 Laryngospasm Left ventricular failure Lens disorder
 Lenticular opacities Lethargy Leukaemia Leukocytoclastic
 vasculitis Leukocytosis Leukopenia Libido decreased Lichen
 planus Liver disorder Liver function test abnormal Local
 reaction Loss of consciousness Loss of libido Lung disorder
 Lung infiltration Lymphadenitis Lymphadenopathy Macular
 degeneration Macular oedema Malaise Mass Mediastinal
 disorder Melaena Memory impairment Menopausal symptoms
 Menstrual disorder Mental disability Mental disorder
 Mesenteric artery thrombosis Metabolic acidosis Metabolic
 disorder Micturition disorder Migraine Mitral valve
 incompetence Mood swings Mouth ulceration Multiple pregnancy
 Muscle relaxant therapy Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 pain Myalgia Myasthenia gravis Mydriasis Myocardial infarction
 Myocardial ischaemia Myoclonus Myopathy toxic Nasal
 congestion Nasopharyngitis Nausea Neck pain Necrosis
 Neoplasm malignant Nephropathy Nervous system disorder
 Nervousness Neuralgia Neuritis Neuroleptic malignant
 syndrome Neuropathy peripheral Neutropenia Nightmare Nocturia
 Nodal arrhythmia Nodal rhythm Nodule Obliterative
 bronchiolitis Obstruction Oculomucocutaneous syndrome Oedema
 Oedema peripheral Oliguria Onycholysis Optic nerve disorder
 Optic neuritis Organising pneumonia Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Otitis media Pain Pain in extremity
 Pallor Palpitations Pancreatitis Pancytopenia
 Papilloedema Paraesthesia Paralysis Paresis
 Parotid gland enlargement Pemphigoid Pemphigus Peptic
 ulcer Periodontitis Peripheral coldness Peripheral ischaemia
 Peripheral vascular disorder Personality disorder Petechiae
 Phaeochromocytoma Pharyngitis Phlebitis Photodermatosis
 Photophobia Photosensitivity reaction Pigmentation disorder
 Pleural disorder Pleural effusion Pleurisy Pleuritic pain
 Pneumonia Poisoning Pollakiuria Polyneuropathy
 Polyserositis Polyuria Pressure of speech Presyncope

Productive cough Prostatitis Protein urine present Proteinuria
 Prothrombin level decreased Pruritus Psoriasis Psychotic
 disorder Pulmonary fibrosis Pulmonary oedema Pulmonary
 toxicity Pulse absent Pulseless electrical activity
 Punctate keratitis Pupils unequal Purpura Purpura
 non-thrombocytopenic Pustular psoriasis Rales Rash Rash
 erythematous Rash generalised Rash maculo-papular Rash
 papular Raynaud's phenomenon Regurgitation Renal artery
 stenosis Renal colic Renal failure Renal failure acute Renal
 impairment Renal pain Renal tubular disorder Renal tubular necrosis
 Respiratory alkalosis Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract infection
 Retching Retinal vascular disorder Retroperitoneal
 fibrosis Rhabdomyolysis Rhinitis Rhonchi Salivary
 hypersecretion Scab Scleroderma Scotoma Sedation Sensation
 of foreign body Sensory loss Serositis Sexual dysfunction
 Shock Sicca syndrome Sick sinus syndrome Sinoatrial block
 Sinus arrest Sinus bradycardia Sinus congestion Sinus
 rhythm Sinus tachycardia Sinusitis Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin irritation Skin lesion Skin necrosis Skin
 ulcer Sleep disorder Social avoidant behaviour Somnolence
 Speech disorder Status asthmaticus Sticky skin Stomatitis
 Stupor Subarachnoid haemorrhage Sudden death
 Supraventricular extrasystoles Supraventricular tachycardia
 Swelling Swelling face Syncope Systemic lupus
 erythematosus Systolic hypertension Tachyarrhythmia Tachycardia
 Talipes Tenderness Tendonitis Tension Testicular
 swelling Thinking abnormal Thirst Thought blocking Throat
 irritation Thrombocytopenia Thrombocytopenic purpura
 Thrombophlebitis Thrombosis Thyroid cancer Thyroid disorder
 Thyroid neoplasm Tinnitus Tongue discolouration Tongue
 ulceration Torsade de pointes Toxic epidermal necrolysis
 Toxicity to various agents Tracheobronchitis Transaminases
 increased Tremor Type I hypersensitivity Ulcer Upper
 respiratory tract infection Urethral disorder Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine output increased Urogenital disorder Urticaria
 Uterovaginal prolapse Uveitis Vascular anomaly Vascular
 insufficiency Vascular purpura Vascular resistance systemic
 Vasculitis Vasoconstriction Vasodilation procedure Venous
 thrombosis Ventricular arrhythmia Ventricular extrasystoles
 Ventricular fibrillation Ventricular septal defect
 Ventricular tachycardia Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vitreous disorder Vomiting Vulvovaginal candidiasis
 Vulvovaginal mycotic infection Weight decreased Weight
 increased Wheezing Yawning

Oxysterols receptor LXR-beta - Group: Receptor

Treated with:

(3-{3-[2-chloro-3-(trifluoromethyl)benzyl](2,2-
 diphenylethyl)amino}propoxy)phenyl)acetic acid: experimental
 small molecule (0 associated side effects)

benzenesulfonyl: experimental small molecule (0 associated side effects)
n-(2,2,2-trifluoroethyl)-n-{4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl}benzenesulfonamide: experimental small molecule (0 associated side effects)
1,1,1,3,3,3-hexafluoro-2-{4-[(2,2,2-trifluoroethyl)amino]phenyl}propan-2-ol: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Choline transporter-like protein 4 - Group: Transporter

Treated with:

choline: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Neuronal acetylcholine receptor subunit alpha-9 - Group: Channel

Treated with:

nicotine: approved small molecule (98 associated side effects)

For the relief of nicotine withdrawal symptoms and as an aid to smoking cessation.

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

213 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Affect lability
Aggression Agitation Amnesia Anaemia Anxiety
Apathy Aphasia Apraxia Arrhythmia Arrhythmia
supraventricular Arthralgia Arthritis Asthenia Ataxia
Atrial fibrillation Atrioventricular block Back pain
Bladder pain Blindness Blister Blood alkaline
phosphatase increased Blood urea increased Body temperature
increased Bone pain Bradycardia Bronchitis Bronchospasm
Bundle branch block Cardiac failure Cardiac fibrillation
Cardiovascular disorder Cataract Cerebrovascular
accident Cerebrovascular disorder Chest discomfort Chest pain
Coagulopathy Completed suicide Confusional state
Constipation Convulsion Coordination abnormal Cough
Cystitis Cystitis noninfective Decreased appetite
Dehydration Delirium Dependence Depression Dermatitis
Dermatitis bullous Diarrhoea Discomfort Disturbance in
attention Disturbance in sexual arousal Diverticulitis
Dizziness Drug abuse Drug dependence Dry mouth Dysgeusia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea

Ear pain Electrocardiogram QT prolonged Electrocardiogram
 T wave inversion Epistaxis Eye disorder Eye irritation
 Fatigue Feeling abnormal Flat affect Flatulence Flushing
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 haemorrhage Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypotension Ill-
 defined disorder Immune system disorder Incontinence Increased
 appetite Increased bronchial secretion Infarction Infection
 Influenza Insomnia Irritability Ischaemia Lacrimation
 increased Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Menstrual disorder Mental disability Mental
 disorder Migraine Mood swings Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nasal congestion Nasal
 discomfort Nasal ulcer Nasopharyngitis Nausea Nephrolithiasis
 Nervous system disorder Nervousness Neuropathy peripheral
 Nightmare Nocturia Oedema Oedema peripheral Oesophageal
 disorder Oesophageal perforation Orthostatic hypotension
 Pain Pain in extremity Pain in jaw Palpitations
 Paraesthesia Paranoia Pharyngitis Pneumonia Pollakiuria
 Pruritus Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Rhinorrhoea Salivary hypersecretion Sensory
 loss Shock Sinusitis Sleep disorder Sneezing Somnolence
 Sputum increased Stomatitis Suicidal ideation Suicide attempt
 Supraventricular tachycardia Syncope Tachycardia Tension
 Throat irritation Thrombocytopenia Thrombocytosis Tinnitus
 Tobacco user Tooth disorder Transient ischaemic attack
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Vascular dementia Vascular
 purpura Ventricular tachycardia Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased Withdrawal syndrome

Basement membrane-specific heparan sulfate proteoglycan core protein
 - Group: Other
 Treated with:
 palifermin: approved biotech (0 associated side effects) For
 treatment of oral mucositis associated with chemotherapy and
 radiation therapy.

known side effects mediated through drugs targeting this protein:

Vitamin B12 transporter btuB - Group: Transporter
 Treated with:

3-oxo-pentadecanoic acid: experimental small molecule (0 associated side effects)
lauryl dimethylamine-n-oxide: experimental small molecule (0 associated side effects)
(hydroxyethyloxy)tri(ethyloxy)octane: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Basic fibroblast growth factor receptor 1 - Group: Enzyme

Treated with:

palifermin: approved biotech (0 associated side effects) For treatment of oral mucositis associated with chemotherapy and radiation therapy.

su4984: experimental small molecule (0 associated side effects)

3-(3-methoxybenzyl)-1h-pyrrolo[2,3-b]pyridine: experimental small molecule (0 associated side effects)

(e)-[4-(3,5-difluorophenyl)-3h-pyrrolo[2,3-b]pyridin-3-ylidene](3-methoxyphenyl)methanol: experimental small molecule (0 associated side effects)

3-[(3-(2-carboxyethyl)-4-methylpyrrol-2-yl)methylene]-2-indolinone: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Thromboxane A2 receptor - Group: Receptor

Treated with:

ridogrel: approved small molecule (0 associated side effects)

Used as an adjunctive therapy to induce thrombolysis in patients suffering acute myocardial infarction.

known side effects mediated through drugs targeting this protein:

Follicle-stimulating hormone receptor - Group: Receptor

Treated with:

menotropins: approved biotech (0 associated side effects) For the treatment of female infertility

follitropin beta: approved biotech (0 associated side effects) For treatment of female infertility

urofollitropin: approved biotech (91 associated side effects) For treatment of female infertility

choriogonadotropin alfa: approved biotech (0 associated side effects) For the treatment of female infertility

suramin: approved small molecule (0 associated side effects)

For treatment of human sleeping sickness, onchocerciasis and other diseases caused by trypanosomes and worms.

91 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal faeces Acne Affect lability Anxiety Arthropathy
 Back pain Bladder pain Body temperature increased
 Breast tenderness Bronchitis Cervix disorder Chest pain
 Complication of pregnancy Conjunctivitis Constipation
 Cough Cystitis Cystitis noninfective Dehydration Dermatitis
 Dermatitis exfoliative Diarrhoea Discomfort Dizziness
 Dysmenorrhoea Dystonia Emotional distress Endocrine
 disorder Feeling abnormal Fungal infection Gastric disorder
 Gastrointestinal pain Headache Herpes simplex Herpes
 virus infection Herpes zoster Hordeolum Hormone level abnormal
 Hot flush Hyperhidrosis Hypersensitivity Hypertension
 Ill-defined disorder Incontinence Infection Influenza
 Injection site haemorrhage Injection site pain Injection
 site reaction Insomnia Malaise Melaena Menopausal
 symptoms Metrorrhagia Mood swings Muscle spasms Nasal
 congestion Nausea Neck pain Nephrolithiasis Oedema
 Osteoarthritis Ovarian disorder Ovarian hyperstimulation
 syndrome Pain Pelvic pain Pollakiuria Pruritus Rash Respiratory
 disorder Rhinitis Sinusitis Skin disorder Tachycardia
 Tenderness Throat irritation Thrombosis Urinary incontinence
 Urinary tract infection Uterine disorder Uterine spasm
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vomiting Vulvovaginal pruritus
 Weight increased

Cholecystokinin type A receptor - Group: Receptor

Treated with:

ceruletide: approved small molecule (0 associated side effects)
 Caerulein stimulates gastric, biliary, and pancreatic
 secretion; and certain smooth muscle. As such, it is used in
 paralytic ileus and as diagnostic aid in pancreatic malfunction.

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric acid type B receptor, subunit 2 - Group: Receptor

Treated with:

baclofen: approved small molecule (192 associated side
 effects) For the alleviation of signs and symptoms of spasticity
 resulting from multiple sclerosis, particularly for the relief of
 flexor spasms and concomitant pain, clonus, and muscular rigidity.

192 known side effects mediated through drugs targeting this
 protein:

Abdominal pain Accommodation disorder Affect lability Ageusia
 Agitation Akathisia Albuminuria Alopecia Amnesia
 Anaemia Anxiety Apnoea Arachnoiditis Arrhythmia
 Aspartate aminotransferase increased Aspiration Asthenia
 Ataxia Autonomic nervous system imbalance Back pain
 Bladder pain Bladder spasm Blindness Blood alkaline
 phosphatase increased Body temperature decreased Body temperature
 increased Bradycardia Cardiac output decreased Cerebral

ischaemia Chest pain Chills Coma Completed suicide Confusional
 state Constipation Conversion disorder Convulsion
 Coordination abnormal Death Decreased appetite Deep vein
 thrombosis Dehydration Dependence Dermatitis contact Diarrhoea
 Diplopia Discomfort Disorientation Dizziness Drug
 dependence Drug ineffective Dry mouth Dysarthria Dyspepsia
 Dysphagia Dysphoria Dyspnoea Dystonia Dysuria
 Ejaculation disorder Embolism Enuresis Epilepsy
 Erectile dysfunction Euphoric mood Eyelid ptosis Face
 oedema Faecal incontinence Fatigue Feeling abnormal
 Flatulence Flushing Gait disturbance Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Haematochezia Haematuria Haemoglobin
 Haemorrhage Hallucination Headache Hyperglycaemia
 Hyperhidrosis Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hyporeflexia Hypotension Hypothermia
 Hypotonia Hypoventilation Hypoxia Ileus Ill-defined
 disorder Incontinence Infection Influenza Insomnia
 Ischaemia Joint swelling Leiomyoma Lethargy
 Leukocytosis Loss of consciousness Major depression
 Malaise Meningitis Mental disability Mental disorder
 Miosis Mood swings Muscle relaxant therapy Muscle
 twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Mydriasis Nasal
 congestion Nausea Neoplasm malignant Nephrolithiasis
 Nightmare Nocturia Nuchal rigidity Nystagmus Oedema
 Oedema peripheral Oliguria Opisthotonus Orthostatic
 hypotension Osteoarthritis Pallor Palpitations
 Paraesthesia Paranoia Personality disorder Petechiae
 Photophobia Pneumonia Pneumonia aspiration Pollakiuria
 Pruritus Psychotic disorder Pulmonary embolism
 Pulmonary function test decreased Rash Renal failure
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory rate decreased Retching Rhinitis
 Salivary hypersecretion Sedation Sensory loss
 Sexual dysfunction Shock Skin ulcer Somnolence Speech
 disorder Strabismus Syncope Tachycardia Thinking abnormal
 Thrombophlebitis Thrombosis Tinnitus Tongue disorder
 Tremor Ulcer Urinary incontinence Urinary retention
 Urticaria Uterine leiomyoma Uterovaginal prolapse Vaginal
 infection Vaginal inflammation Vasodilation procedure Venous
 thrombosis Ventricular arrhythmia Vision blurred Visual acuity
 reduced Visual impairment Vomiting Weight decreased Weight
 increased Wound dehiscence

Somatostatin receptor type 5 - Group: Receptor

Treated with:

octreotide: approved small molecule (0 associated side effects)

For treatment of acromegaly and reduction of side effects from cancer chemotherapy

vapreotide: approved small molecule (0 associated side effects)

For the treatment of esophageal variceal bleeding in patients with cirrhotic liver disease and has also shown efficacy in the treatment of patients with AIDS-related diarrhea.

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 3 receptor - Group: Channel

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

mirtazapine: approved small molecule (272 associated side effects) For the treatment of major depressive disorder.

palonosetron: approved small molecule (93 associated side effects) For the prevention of acute and delayed nausea and vomiting associated with initial and repeat courses of moderately emetogenic cancer chemotherapy, as well as prevention of acute nausea and vomiting associated with highly emetogenic cancer chemotherapy. Also used for the prevention of postoperative nausea and vomiting for up to 24 hours post operation.

cisapride: approved,withdrawn small molecule (0 associated side effects) For the symptomatic treatment of adult patients with nocturnal heartburn due to gastroesophageal reflux disease.

procaine: approved small molecule (43 associated side effects) Used as a local anesthetic primarily in oral surgery

rocuronium: approved small molecule (25 associated side effects) For inpatients and outpatients as an adjunct to general anesthesia to facilitate both rapid sequence and routine tracheal intubation, and to provide skeletal muscle relaxation during surgery or mechanical ventilation.

dolasetron: approved small molecule (137 associated side effects) For the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy, including initial and repeat courses of chemotherapy. Also used for the prevention of postoperative nausea and vomiting. This drug can be used intravenously for the treatment of postoperative nausea and vomiting.

granisetron: approved small molecule (51 associated side effects) For the prevention of nausea and vomiting associated with initial and repeat courses of emetogenic cancer therapy (including high dose cisplatin), postoperation, and radiation (including total body irradiation and daily fractionated abdominal radiation).

ondansetron: approved small molecule (122 associated side effects) For the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy, postoperation, and radiation. Also used for the treatment of postoperative nausea and vomiting.

alosecron: approved,withdrawn small molecule (101 associated side effects) Only for the treatment of symptoms of severe diarrhea-predominant irritable bowel syndrome (IBS) in women with

chronic symptoms (generally lasting greater than 6 months) who does not present with anatomic or biochemical GI abnormalities and have not responded to conventional therapy.

memantine: approved small molecule (250 associated side effects) For the treatment of moderate to severe dementia of the Alzheimer's type.

chloroprocaine: approved small molecule (34 associated side effects) For the production of local anesthesia by infiltration and peripheral nerve block. They are not to be used for lumbar or caudal epidural anesthesia.

tubocurarine: approved small molecule (0 associated side effects) Used as a diagnosis agent for myasthenia gravis, and also to facilitate the intubation after induction of anesthesia in surgical procedure

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

921 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Activated partial thromboplastin time prolonged Acute abdomen Acute coronary syndrome Acute psychosis Affect lability Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amblyopia Amenorrhoea Amnesia Amyotrophic lateral sclerosis Anaemia Anaemia macrocytic Anaphylactic shock Anaphylactoid reaction Anger Angina pectoris Angioedema Angiopathy Angle closure glaucoma Anorgasmia Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphthous stomatitis Aplasia Aplastic anaemia Apnoea Appendicitis Arachnoiditis Arrhythmia Arrhythmia supraventricular Arteritis Arthralgia Arthritis Arthropathy Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter Atrioventricular block first degree Atrioventricular block second degree Azotaemia Back pain Balance disorder Basophilia Benign prostatic hyperplasia Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood acid phosphatase increased Blood alkaline phosphatase increased Blood bilirubin abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood glucose decreased Blood glucose increased Blood insulin increased Blood lactate dehydrogenase increased Blood potassium decreased Blood potassium increased Blood pressure abnormal Blood pressure diastolic decreased

Blood pressure fluctuation Blood pressure increased Blood
 pressure systolic decreased Blood prolactin increased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone pain Bradycardia Bradykinesia
 Bradyphrenia Breast disorder Breast engorgement
 Breast enlargement Breast feeding Breast pain Breath
 sounds abnormal Bronchitis Bronchopneumopathy Bronchospasm
 Bruxism Buccoglossal syndrome Bundle branch block
 Burning sensation Bursitis Calculus urinary Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac output
 decreased Cardio-respiratory arrest Cardiomegaly
 Cardiomyopathy Cardiopulmonary failure Cardiovascular
 disorder Carpal tunnel syndrome Cataplexy Cataract Catatonia
 Cells in urine Cellulitis Cerebral artery embolism
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrovascular accident Cervicitis Chapped lips
 Cheilitis Chest discomfort Chest pain Chills
 Cholecystitis Cholelithiasis Cholestasis Choreoathetosis
 Chronic obstructive pulmonary disease Clonus Coccydynia
 Cognitive disorder Cogwheel rigidity Cold sweat Colitis
 Colitis ischaemic Colitis ulcerative Coma Completed suicide
 Condition aggravated Confusional state Conjunctival
 haemorrhage Conjunctivitis Connective tissue disorder
 Constipation Convulsion Coordination abnormal Corneal
 lesion Corneal opacity Costochondritis Cough Crocodile tears
 syndrome Crying Cyanosis Cystitis Cystitis noninfective
 Deafness Deafness transitory Death Decreased appetite
 Decubitus ulcer Deep vein thrombosis Deficiency anaemia
 Dehydration Delirium Delusion Dementia Dental caries
 Dependence Depersonalisation Depressed level of consciousness
 Depression Depressive symptom Derealisation Dermal cyst
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Diabetes mellitus Diabetic coma
 Diabetic hyperglycaemic coma Diabetic hyperosmolar coma
 Diabetic ketoacidosis Diarrhoea Diplopia Discomfort
 Disease progression Disorientation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulitis Dizziness Dizziness exertional Dizziness
 postural Drooling Drug abuse Drug dependence Drug eruption
 Drug interaction Dry eye Dry mouth Dry skin Dry throat
 Duodenal ulcer Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dystonia Dysuria Ear disorder
 Ear infection Ear pain Ecchymosis Eczema Effusion
 Ejaculation disorder Elastosis perforans Electrocardiogram
 QT prolonged Electrocardiogram ST segment Electrocardiogram ST
 segment depression Electrocardiogram ST segment elevation
 Electrocardiogram T wave amplitude decreased Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electrocardiogram normal Electroencephalogram
 abnormal Embolism Encephalopathy Endocrine disorder

Energy increased Enteritis Enuresis Eosinophilia
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Euphoric mood
 Exfoliative rash Exostosis Extrapyrarnidal disorder
 Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 pain Eye swelling Eyelid disorder Eyelid function disorder
 Eyelid oedema Eyelid ptosis Face oedema Facial pain
 Facial paresis Faecal incontinence Faecalith Faecaloma
 Faeces hard Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Feeling of body
 temperature change Female sexual dysfunction Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing
 Foetor hepaticus Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gastric disorder Gastric pH decreased Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastroduodenitis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal obstruction Gastrointestinal pain
 Gastroesophageal reflux disease Generalised oedema
 Genital discharge Genital disorder female Gingival bleeding
 Gingival pain Gingivitis Glaucoma Glossitis Glossodynia
 Glucose tolerance decreased Glucose tolerance impaired
 Glycosuria Glycosylated haemoglobin increased Goitre Gout
 Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haematemesis Haematochezia Haematocrit
 decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemolysis Haemoptysis Haemorrhage
 Haemorrhage intracranial Haemorrhage urinary tract
 Haemorrhoids Hallucination Hallucination, auditory
 Hallucination, visual Hangover Head discomfort Headache
 Hearing impaired Heart disease congenital Heart rate
 irregular Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic steatosis Hepatitis Hepatitis cholestatic
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hirsutism Homicidal ideation Hormone
 level abnormal Hostility Hot flush Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperparathyroidism Hyperplasia
 Hyperreflexia Hypersensitivity Hypersomnia Hypertension
 Hyperthermia Hyperthyroidism Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypokalaemia
 Hypokinesia Hypomagnesaemia Hypomania Hypomenorrhoea
 Hyponatraemia Hypophagia Hypopituitarism Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypoxia Idiopathic

thrombocytopenic purpura Ileus Ileus paralytic Ill-defined
 disorder Immune system disorder Impaired healing Inappropriate
 antidiuretic hormone secretion Incontinence Increased
 appetite Increased bronchial secretion Induration Infarction
 Infection Infestation Inflammation Influenza Inguinal
 hernia Injection site mass Injection site pain Injection
 site reaction Insomnia Intention tremor Intentional self-
 injury Intermittent claudication International normalised
 ratio increased Interstitial lung disease Intestinal functional
 disorder Intestinal ischaemia Intestinal obstruction Intestinal
 perforation Intussusception Iron deficiency Iron deficiency
 anaemia Irritability Irritable bowel syndrome Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Ketoacidosis
 Ketosis Lacrimal disorder Lacrimation increased Laryngeal
 oedema Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukocytosis Leukoderma Leukopenia
 Leukoplakia oral Libido decreased Libido increased Lip dry
 Liver disorder Liver function test abnormal Local reaction
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lymphadenopathy Lymphocytosis
 Lymphoedema Macular degeneration Macule Major depression
 Malaise Male sexual dysfunction Mania Masked facies
 Mastitis Mediastinal disorder Melaena Memory impairment
 Meningism Menopausal symptoms Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mental disorder due to a general medical condition Mental
 retardation Mental status changes Metabolic acidosis
 Metrorrhagia Micturition urgency Migraine Miosis
 Mitral valve incompetence Mobility decreased Monocytosis
 Mood swings Motion sickness Mouth ulceration Movement disorder
 Muscle contractions involuntary Muscle contracture
 Muscle enzyme increased Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 tightness Muscle twitching Muscular weakness Musculoskeletal chest
 pain Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myocardial infarction Myocardial ischaemia
 Myocarditis Myoclonus Myopathy Myopia Myositis Nail
 disorder Nasal congestion Nasal discomfort Nasal disorder Nasal
 dryness Nasopharyngitis Nausea Neck pain Necrosis
 Nephritis Nephrolithiasis Nervous system disorder
 Nervousness Neuralgia Neurodermatitis Neuroleptic malignant
 syndrome Neuropathy peripheral Neurosis Neutropenia Neutrophil
 count decreased Neutrophil count increased Night sweats
 Nightmare Nocturia Nodal arrhythmia Normochromic
 normocytic anaemia Nuchal rigidity Nystagmus Obesity
 Obsessive thoughts Obstruction Ocular hyperaemia Oculogyric
 crisis Oedema Oedema peripheral Oesophageal disorder
 Oesophageal ulcer Oesophagitis Oliguria Onychomycosis
 Opisthotonus Oral candidiasis Oral pain Orchitis
 noninfective Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension

	Osteoarthritis	Osteopenia	Osteoporosis	Osteoporotic	
fracture	Otitis externa	Otitis media	Ovarian cyst	Pain	
	Pain in extremity	Pain in jaw	Pallor	Palpitations	
	Pancreatic disorder	Pancreatitis	Pancreatitis acute		
	Pancytopenia	Panic attack	Panic disorder	Panic	
disorder with agoraphobia	Panic reaction	Paraesthesia oral			
	Paralysis	Paranoia	Parkinsonian gait	Parosmia	
	Pathological fracture	Pelvic pain	Peptic ulcer	Pericardial	
effusion	Pericarditis	Periodontitis	Periorbital oedema		
	Peripheral ischaemia	Personality disorder	Petechiae		
	Pharyngeal erythema	Pharyngitis	Phlebitis	Phobia	
	Phonological disorder	Photophobia	Photopsia	Photosensitivity	
reaction	Platelet count decreased	Pleural disorder	Pleural		
effusion	Pneumonia	Pneumonia aspiration	Pneumothorax		
	Poisoning	Pollakiuria	Polycythaemia	Polydipsia	Polyuria
	Premature ejaculation	Premenstrual syndrome	Presyncope		
	Priapism	Proctitis	Productive cough	Prostatitis	Protein
urine present	Proteinuria	Prothrombin level increased	Protrusion		
tongue	Pruritus	Pruritus generalised	Pruritus genital		
	Pseudocholinesterase deficiency	Psoriasis	Psychiatric		
symptom	Psychomotor retardation	Psychotic disorder			
	Pulmonary congestion	Pulmonary embolism	Pulmonary oedema		
	Purpura	Pyelonephritis	Pyuria	Rash erythematous	Rash
maculo-papular	Rash papular	Rash pustular	Rash vesicular		
	Rectal haemorrhage	Red blood cell count decreased	Red		
blood cell sedimentation rate increased	Reflux oesophagitis				
	Regressive behaviour	Regurgitation	Renal failure	Renal	
failure acute	Renal function test abnormal	Renal impairment			
	Respiration abnormal	Respiratory alkalosis	Respiratory		
arrest	Respiratory disorder	Respiratory distress	Respiratory		
failure	Respiratory tract congestion	Respiratory tract infection			
	Respiratory tract infection viral	Restless legs syndrome			
	Retching	Retinal detachment	Retinal haemorrhage		
	Rhabdomyolysis	Rheumatoid arthritis	Rhinitis	Rhinitis	
allergic	Rhinitis seasonal	Rhinorrhoea	Rhonchi	Rosacea	
	Salivary gland enlargement	Salivary hypersecretion	Scab		
	Schizoaffective disorder	Schizophreniform disorder			
	Sciatica	Scotoma	Seasonal allergy	Seborrhoeic dermatitis	
	Sedation	Sensation of heaviness	Sensory loss	Sepsis	
	Septic shock	Sexual dysfunction	Shock	Sinus arrhythmia	
	Sinus bradycardia	Sinus congestion	Sinus disorder	Sinus	
headache	Sinus tachycardia	Sinusitis	Skin discolouration	Skin	
disorder	Skin hypertrophy	Skin infection	Skin irritation	Skin	
ulcer	Sleep apnoea syndrome	Sleep disorder	Sleep talking		
	Sluggishness	Sneezing	Social avoidant behaviour		
	Somnambulism	Somnolence	Speech disorder	Sputum increased	
	Status epilepticus	Stevens-Johnson syndrome	Stomatitis		
	Stridor	Stupor	Subarachnoid haemorrhage	Subdural	
haematoma	Sudden death	Suicidal ideation	Suicide attempt		
	Supraventricular extrasystoles	Supraventricular tachycardia			
	Suspiciousness	Swelling	Swelling face	Swollen tongue	
	Syncope	Tachyarrhythmia	Tachycardia	Tardive dyskinesia	
	Tenderness	Tendonitis	Tenosynovitis	Tension headache	
	Testicular pain	Thinking abnormal	Thirst	Thought blocking	
	Throat irritation	Throat tightness	Thrombocytopenia		

Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
Thrombosis Thrombotic thrombocytopenic purpura Thyroiditis
Tic Tinnitus Tongue discolouration Tongue disorder
Tongue dry Tongue oedema Tongue paralysis Tongue spasm
Tonsillar hypertrophy Tooth abscess Tooth disorder Tooth
impacted Tooth infection Toothache Torsade de pointes
Torticollis Toxic epidermal necrolysis Transaminases
increased Transient ischaemic attack Tremor Trismus
Tuberculin test positive Tubulointerstitial nephritis Type
I hypersensitivity Ulcer Ulcer haemorrhage Unintended pregnancy
Upper respiratory tract infection Urethral disorder Urethritis
Urinary hesitation Urinary incontinence Urinary retention
Urinary tract disorder Urinary tract infection Urine
output increased Urosepsis Urticaria Uterine disorder Uterine
haemorrhage Uterine leiomyoma Uterovaginal prolapse VIIIth nerve
paralysis Vaginal discharge Vaginal haemorrhage Vaginal infection
Vaginal inflammation Varicose vein Vascular dementia
Vascular headache Vascular purpura Vascular resistance
pulmonary increased Vascular resistance systemic Vasculitis
Vasodilation procedure Vein discolouration Venous thrombosis
Ventricular arrhythmia Ventricular extrasystoles Ventricular
fibrillation Ventricular tachycardia Vertigo Viral
diarrhoea Viral infection Vision blurred Visual acuity reduced
Visual impairment Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Vulvovaginal pruritus
Vulvovaginitis Water intoxication Weight decreased
Weight fluctuation Weight increased Wheezing White blood
cell count decreased White blood cell count increased White blood
cells urine positive Withdrawal syndrome Xerophthalmia
Xerosis

Taste receptor type 1 member 2 - Group: Receptor

Treated with:

aspartame: approved, nutraceutical small molecule (0 associated side effects) Used as a diet supplement and sugar substitute.

known side effects mediated through drugs targeting this protein:

Voltage-dependent T-type calcium channel subunit alpha-1G - Group: Channel

Treated with:

trimethadione: approved small molecule (0 associated side effects) Used in the control of absence (petit mal) seizures that are refractory to treatment with other medications.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

ethosuximide: approved small molecule (52 associated side effects) For the treatment of petit mal epilepsy.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

mibefradil: withdrawn small molecule (0 associated side effects) For the treatment of angina and high blood pressure.

flunarizine: approved small molecule (0 associated side effects) Used in the prophylaxis of migraine, occlusive peripheral vascular disease, vertigo of central and peripheral origin, and as an adjuvant in the therapy of epilepsy.

methsuximide: approved small molecule (45 associated side effects) For the control of absence (petit mal) seizures that are refractory to other drugs.

275 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain upper
Abnormal dreams Acne Acute coronary syndrome Aggression
Agitation Agranulocytosis Alanine aminotransferase increased
Albuminuria Alopecia Amblyopia Amenorrhoea Anaemia
Anaphylactic shock Angioedema Anxiety Apnoea
Arthralgia Arthritis Aspartate aminotransferase increased
Asthenia Ataxia Atrial fibrillation Atrioventricular
block Atrioventricular block complete Atrioventricular
dissociation Autoimmune disorder Balance disorder Bladder
pain Blindness Blood lactate dehydrogenase increased Blood
prolactin increased Body temperature increased Bradycardia
Bronchospasm Calculus bladder Cardiac failure Cardiac
fibrillation Cardiomyopathy Cerebrovascular accident Chest
pain Cholangitis Cholecystitis Cholelithiasis Cholestasis
Cognitive disorder Colitis Confusional state
Conjunctivitis Constipation Convulsion Coordination
abnormal Cough Deafness Decreased appetite Dehydration
Depressed level of consciousness Depressive symptom
Dermatitis Dermatitis bullous Diarrhoea Diplopia
Discomfort Dissociation Disturbance in attention
Disturbance in sexual arousal Dizziness Drug eruption
Dry mouth Dry skin Duodenal ulcer Duodenitis Dysarthria
Dysgeusia Dyskinesia Dyspepsia Dysphagia Dyspnoea
Dystonia Dysuria Ecchymosis Eczema Electrocardiogram
abnormal Embolism Emotional distress Encephalopathy
Enuresis Eosinophilia Erectile dysfunction Erythema
Erythema multiforme Euphoric mood Extrapyrmidal
disorder Extrasystoles Face oedema Faecal incontinence
Fatigue Feeling abnormal Feeling cold Flank pain
Flatulence Flushing Gait disturbance Galactorrhoea
Gastritis Gastroenteritis Gastrointestinal disorder
Gastrointestinal pain Gingival bleeding Gingival hyperplasia
Gingival hypertrophy Gingivitis Glaucoma Glossitis
Gynaecomastia Haematemesis Haematuria Haemoglobin
Haemoptysis Haemorrhage Hallucination, auditory Headache
Hepatic enzyme increased Hepatitis Hiccups Hirsutism
Hyperaemia Hyperaesthesia Hyperhidrosis Hyperkeratosis

Hyperkinesia Hyperplasia Hyperprolactinaemia
Hyperreflexia Hypersensitivity Hypertension Hypertonia
Hypertrophic cardiomyopathy Hypertrophy Hypoaesthesia
Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
Hypotonia Ileus paralytic Ill-defined disorder
Immunodeficiency Incontinence Infection Influenza
Insomnia Intermittent claudication Iritis
Irritability Jaundice Jaundice cholestatic Joint
swelling Laryngospasm Lethargy Leukopenia Libido decreased
Libido increased Loss of consciousness Lymphadenopathy
Macule Malaise Mastitis Melaena Menorrhagia
Mental disability Microcytic anaemia Micturition urgency
Monocytosis Mouth ulceration Movement disorder Muscle fatigue
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myocardial infarction
Myoclonus Myopia Nausea Nervousness Neuritis
Neuropathy peripheral Nocturia Nuchal rigidity Nystagmus
Neurolyric crisis Oedema Oedema peripheral Oesophagitis
Oligomenorrhoea Orthostatic hypotension Osteoarthritis
Pain Palpitations Pancytopenia Paraesthesia
Paraesthesia oral Paralysis Paranoia Parosmia Periorbital
oedema Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
Porphyria Protein urine present Proteinuria Pruritus
Psychotic disorder Pulmonary embolism Pulmonary oedema
Purpura Quadriparesis Rash Rash maculo-papular Rash
pustular Rectal haemorrhage Respiratory failure Respiratory
tract infection Rhinitis Scotoma Sensory loss Shock Sinus
arrest Sinusitis Sleep disorder Sleep terror Somnolence
Speech disorder Stomatitis Suicidal behaviour Swelling
Swollen tongue Syncope Systemic lupus erythematosus
Tachycardia Tension Thirst Thrombocytopenia
Thrombophlebitis Tinnitus Tremor Ulcer Upper respiratory
tract infection Urinary incontinence Urinary retention Urine
output increased Urticaria VIIth nerve paralysis Vaginal
haemorrhage Vascular insufficiency Vascular purpura Vasculitis
Ventricular extrasystoles Vertigo Vision blurred
Visual acuity reduced Visual impairment Vomiting Weight
decreased Weight increased

High affinity nerve growth factor receptor - Group: Enzyme

Treated with:

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

imatinib: approved small molecule (248 associated side effects) For the treatment Philadelphia chromosome positive chronic myeloid leukemia (CML) and malignant gastrointestinal stromal tumors (GIST).

307 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain Acute
 coronary syndrome Acute febrile neutrophilic dermatosis Acute
 generalised exanthematous pustulosis Acute hepatic failure
 Ageusia Agitation Agranulocytosis Alanine
 aminotransferase increased Alopecia Alveolar proteinosis
 Anaemia Angioedema Angiopathy Antinuclear antibody
 positive Anxiety Aphagia Aplastic anaemia Apoptosis
 Arrhythmia Arthralgia Arthritis Ascites Aspartate
 aminotransferase increased Assisted fertilisation Asthenia
 Ataxia Atrioventricular block Back pain Blister Blood
 alkaline phosphatase increased Blood bilirubin increased Blood
 creatine phosphokinase increased Blood creatinine increased Blood
 disorder Blood lactate dehydrogenase increased Blood urea
 increased Body temperature increased Bone marrow necrosis Bone
 pain Brain oedema Breast enlargement Breast feeding
 Calcinosis Cardiac disorder Cardiac failure Cardiac failure
 congestive Cardiac hypertrophy Cardiac tamponade Cardiogenic shock
 Cardiomyopathy Cell death Cerebral haemorrhage
 Cerebrovascular accident Chest pain Chills Colitis
 Coma Confusional state Conjunctival haemorrhage
 Conjunctivitis Constipation Convulsion Coordination
 abnormal Cough Cytogenetic abnormality Death Decreased
 appetite Dehydration Delirium tremens Delusion Dependence
 Dermatitis atopic Dermatitis bullous Dermatitis exfoliative
 Diarrhoea Discomfort Disease progression Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulitis Dizziness Drug dependence Drug interaction
 Dry eye Dry mouth Dry skin Dysarthria Dysgeusia
 Dyskinesia Dyspepsia Dyspnoea exertional Ecchymosis
 Effusion Ehlers-Danlos syndrome Embolism Eosinophilia
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Extrapyrmidal disorder Eye oedema Face oedema
 Fatigue Febrile neutropenia Feeling abnormal Feeling
 cold Fibrosis Flatulence Fluid retention Flushing
 Galactorrhoea Gastric ulcer Gastritis Gastroenteritis
 Gastrointestinal haemorrhage Gastrointestinal neoplasm
 Gastrointestinal pain Gastrointestinal perforation
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Glaucoma Gout Gynaecomastia
 Haematochezia Haematological malignancy Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatic failure Hepatic necrosis Hepatitis
 Herpes simplex Herpes virus infection Herpes zoster
 Hyperhidrosis Hyperkalaemia Hyperplasia Hyperpyrexia
 Hypersensitivity Hypertension Hypertrophy Hypoaesthesia
 Hypokalaemia Hypomania Hyponatraemia Hypophosphataemia
 Hypotension Ileus paralytic Ill-defined disorder
 Immunosuppression Inappropriate antidiuretic hormone secretion
 Infection Inflammation Influenza Insomnia
 Interstitial lung disease Intestinal obstruction
 Intracranial pressure increased Intraocular pressure
 increased Irritability Jaundice Joint swelling Lacrimation
 increased Left ventricular dysfunction Leukopenia Libido decreased
 Liver disorder Loss of consciousness Lower respiratory
 tract infection Lymphoma Lymphopenia Macular oedema Malaise

Mania Mastocytic leukaemia Mastocytoma Memory impairment
 Menorrhagia Mental disability Mental status changes Metastatic
 neoplasm Migraine Mouth ulceration Muscle rigidity Muscle
 spasms Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Mydriasis Myelodysplastic syndrome Myeloproliferative
 disorder Myocardial infarction Nail disorder Nasopharyngitis
 Nausea Necrosis Necrosis ischaemic Neoplasm
 malignant Nephropathy Nephropathy toxic Nephrotic syndrome
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Night sweats Nightmare Obstruction Oedema
 Oedema peripheral Opportunistic infection Optic neuritis
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Osteonecrosis Ovarian disorder Pain
 Palpitations Pancreatic disorder Pancreatitis
 Pancytopenia Papilloedema Papilloma Paraesthesia
 Parity Parotid gland enlargement Pericardial effusion
 Pericarditis Periorbital oedema Peripheral coldness
 Petechiae Pharyngitis Photosensitivity reaction
 Pigmentation disorder Pleural disorder Pleural effusion
 Pneumonia Pollakiuria Pruritus Psoriasis Pulmonary
 fibrosis Pulmonary oedema Purpura Rash Rash vesicular Renal
 failure Renal impairment Renal tubular disorder Respiratory tract
 infection Retinal haemorrhage Rhinitis Sciatica Sensory
 loss Sepsis Sexual dysfunction Sexually active Shock
 Sinusitis Skin disorder Sleep disorder Somnolence
 Stomatitis Swelling Syncope Systemic lupus erythematosus
 Systemic mastocytosis Tachycardia Tardive dyskinesia
 Tenderness Testicular disorder Testicular swelling
 Thrombocytopenia Thrombosis Tinnitus Tongue discolouration
 Toxic epidermal necrolysis Tremor Tumour lysis syndrome
 Tumour necrosis Ulcer Upper respiratory tract infection
 Urinary retention Urticaria Vaginal discharge Varicella
 Vascular purpura Ventricular dysfunction Vertigo Viral
 infection Vision blurred Vitreous haemorrhage Vomiting
 Weight decreased Weight increased

Inositol 1,4,5-trisphosphate receptor type 1 - Group: Receptor

Treated with:

d-myo-inositol-1,4,5-triphosphate: experimental small molecule
(0 associated side effects)

glycerol: experimental small molecule (0 associated side
effects)

known side effects mediated through drugs targeting this protein:

ATP-sensitive inward rectifier potassium channel 8 - Group: Channel

Treated with:

phenformin: approved, withdrawn small molecule (0 associated
side effects) For the reatment of type II diabetes mellitus.

levosimendan: approved small molecule (0 associated side
effects) For short term treatment of acutely decompensated severe

chronic heart failure (CHF). Also being investigated for use/treatment in heart disease.

thiamylal: approved small molecule (0 associated side effects)

Used for the production of complete anaesthesia of short duration, for the induction of general anaesthesia, and for inducing a hypnotic state.

gliquidone: approved small molecule (0 associated side effects)

Used in the treatment of diabetes mellitus type 2.

glisoxepide: approved small molecule (0 associated side effects) For the treatment of diabetes mellitus type 2.

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric-acid receptor subunit beta-3 - Group: Channel
Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

ethchlorvynol: illicit,approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

piperazine: approved small molecule (0 associated side effects)

Used as alternative treatment for ascariasis caused by <i>Ascaris lumbricoides</i> (roundworm) and enterobiasis (oxyuriasis) caused by <i>Enterobius vermicularis</i> (pinworm). It is also used to treat partial intestinal obstruction by the common roundworm, a condition primarily occurring in children.

ivermectin: approved small molecule (47 associated side effects)

For the treatment of intestinal (i.e., nondisseminated) strongyloidiasis due to the nematode parasite <i>Strongyloides stercoralis</i>. Also for the treatment of onchocerciasis (river blindness) due to the nematode parasite <i>Onchocerca volvulus</i>. Can be used to treat scabies caused by <i>Sarcoptes scabiei</i>.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

propofol: approved small molecule (163 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam: illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit,approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as

difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

fospropofol: approved small molecule (0 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.

539 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Abnormal sensation in eye
Acidosis Acne Acute coronary syndrome Affect lability
Ageusia Aggression Agitation Agranulocytosis Akathisia
Akinesia Alcohol poisoning Alopecia Altered state of
consciousness Amblyopia Amnesia Anaemia Anaphylactic
shock Anaphylactoid reaction Anger Angioedema Angiopathy Anorectal
discomfort Anorectal disorder Anterograde amnesia Anxiety
Aortic dissection Apathy Aphonia Apnoea Appetite
disorder Arrhythmia Arrhythmia supraventricular Arterial spasm
Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrial fibrillation Atrioventricular block Back pain
Balance disorder Bladder dysfunction Bladder pain
Blindness Blood alkaline phosphatase increased Blood
bilirubin increased Blood creatinine increased Blood disorder
Blood glucose decreased Blood thromboplastin decreased
Blood urea increased Body temperature decreased Body
temperature increased Borderline personality disorder Bradycardia
Bradyphrenia Brain oedema Breast disorder Breast pain
Breast swelling Bronchitis Bronchospasm Bundle branch
block Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac fibrillation
Cardiac output decreased Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chorioretinitis Choroiditis Chromaturia Clonic
convulsion Clonus Clumsiness Coagulopathy Cognitive
disorder Coma Completed suicide Confusional state Conjunctival
hyperaemia Conjunctivitis Connective tissue disorder
Constipation Conversion disorder Convulsion
Coordination abnormal Cough Cyanosis Cystitis Cystitis
noninfective Cytolytic hepatitis Deafness Death Decreased
appetite Dehydration Delirium Delirium tremens Delusion
Dependence Depersonalisation Depressed level of consciousness
Depressed mood Depression Depressive symptom
Derealisation Dermatitis Dermatitis contact Dermatitis
exfoliative Diarrhoea Diplopia Discomfort Disinhibition
Disorientation Disturbance in attention Disturbance in
sexual arousal Dizziness Drooling Drug abuse Drug dependence
Drug effect increased Drug eruption Drug intolerance Drug
withdrawal convulsions Dry mouth Dry skin Dysaesthesia
Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
Dysphagia Dysphonia Dysphoria Dyspnoea Dysthymic
disorder Dystonia Dysuria Ear infection Ear pain
Ecchymosis Effusion Ejaculation delayed Ejaculation
failure Electrocardiogram ST segment Electrocardiogram ST segment

depression Electrocardiogram abnormal Emotional disorder
Emotional distress Emotional poverty Encephalopathy
Encopresis Endometrial sarcoma Energy increased
Enterocolitis Enuresis Eosinophilia Epilepsy
Epistaxis Erectile dysfunction Erythema Erythema
multiforme Euphoric mood Extrapyrarnidal disorder
Extrasytostoles Eye disorder Eye irritation Eye
movement disorder Eye pain Eye swelling Eyelid oedema Face
oedema Faecal incontinence Fatigue Feeling abnormal
Feeling cold Feeling drunk Feeling hot Feeling jittery
Feeling of body temperature change Flat affect Flatulence
Floppy infant Flushing Fungal infection Gait disturbance
Galactorrhoea Gangrene Gastric disorder Gastritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal pain Gingival pain Glossitis Glossodynia
Gout Grand mal convulsion Gynaecomastia Haematoma
Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
Haemorrhage urinary tract Haemorrhoids Hallucination
Hangover Headache Hearing impaired Heart rate irregular
Hemiparesis Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatitis Hepatocellular injury
Hepatomegaly Herpes simplex Herpes virus infection
Hiccups Hirsutism Homicidal ideation Hordeolum
Hostility Hunger Hyperaemia Hypercapnia Hyperglycaemia
Hyperhidrosis Hyperkalaemia Hyperkinesia
Hyperlipidaemia Hyperprolactinaemia Hypersensitivity
Hypersomnia Hypertension Hypertonia Hypertrophy
Hyperventilation Hypoaesthesia Hypochromic anaemia
Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
Hyponatraemia Hypopnoea Hyporeflexia Hypotension
Hypothermia Hypotonia Hypoventilation Hypoxia Ileus Ill-
defined disorder Illusion Inappropriate antidiuretic hormone
secretion Incontinence Increased appetite Induration
Infarction Infection Infectious mononucleosis Infestation
Inflammation Influenza Injection site pain Injection
site reaction Insomnia Intracranial pressure increased
Intraocular pressure increased Iridocyclitis
Irritability Ischaemia Jaundice Joint swelling
Keratitis Laryngitis Laryngospasm Lethargy
Leukocytosis Leukopenia Libido decreased Libido increased
Liver function test abnormal Liver injury Local reaction
Logorrhoea Loss of consciousness Loss of libido Lung
disorder Lymphadenopathy Major depression Malaise Mania Mean
arterial pressure Mediastinal disorder Melaena Memory impairment
Menstrual disorder Menstruation irregular Mental disability
Mental disorder Mental retardation Metabolic acidosis
Micturition disorder Micturition urgency Migraine
Miosis Moaning Mood swings Motion sickness Movement
disorder Muscle relaxant therapy Muscle rigidity Muscle
spasms Muscle spasticity Muscle twitching Muscular weakness
Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal stiffness Myalgia Mydriasis Myocardial
infarction Myocardial ischaemia Myoclonus Nasal congestion
Nasopharyngitis Nausea Neck pain Necrosis Neonatal
disorder Nervous system disorder Nervousness Neuritis

Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal arrhythmia Nodal
 rhythm Nodule Nuchal rigidity Nystagmus Obstruction
 Obstructive airways disorder Oedema Oedema peripheral
 Oliguria Opisthotonus Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancreatitis
 Pancytopenia Paraesthesia Paraesthesia oral Paralysis
 Paresis Pelvic pain Penile discharge Pericardial effusion
 Periorbital oedema Personality disorder Phaeochromocytoma
 Pharyngitis Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory acidosis
 Respiratory arrest Respiratory depression Respiratory
 disorder Respiratory failure Respiratory moniliasis Respiratory
 rate decreased Respiratory tract congestion Respiratory tract
 infection Retching Retrograde amnesia Rhabdomyolysis
 Rhinitis allergic Rhinorrhoea Rhonchi Right ventricular
 failure Salivary hypersecretion Scotoma Sedation
 Sepsis Sexual dysfunction Shock Sinus tachycardia
 Sinusitis Skin burning sensation Skin discolouration Skin
 disorder Skin exfoliation Skin necrosis Sleep apnoea syndrome
 Sleep disorder Sleep talking Sluggishness Sneezing
 Somnambulism Somnolence Speech disorder Stevens-Johnson
 syndrome Stomatitis Strabismus Stridor Stupor Substance
 abuse Suicidal ideation Supraventricular extrasystoles
 Supraventricular tachycardia Swelling Swelling face
 Swollen tongue Syncope Synovitis Tachycardia Tachypnoea
 Tenderness Tendonitis Tension Therapeutic response
 decreased Thinking abnormal Thirst Thrombocytopenia
 Thrombocytosis Thrombophlebitis Thrombosis Thyroid neoplasm
 Tinnitus Tongue coated Tongue disorder Tongue oedema
 Tooth disorder Toothache Toxic epidermal necrolysis
 Transaminases increased Tremor Tropical spastic
 paresis Ulcer Upper airway obstruction Upper respiratory
 tract infection Urethral disorder Urinary hesitation Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine colour abnormal Urine
 output increased Urticaria Uveitis Vaginal discharge Vaginal
 infection Vaginal inflammation Vascular purpura Vasodilation
 procedure Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Viral infection Vision blurred Visual
 acuity reduced Visual impairment Vomiting Weight decreased
 Weight increased Wheezing White blood cell count decreased
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Potassium transporter - Group: Transporter

Treated with:

clofazimine: approved small molecule (54 associated side effects) For the treatment of lepromatous leprosy, including dapsone-resistant lepromatous leprosy and lepromatous leprosy complicated by erythema nodosum leprosum.

54 known side effects mediated through drugs targeting this protein:

Abdominal pain upper Anaemia Angiopathy Asthenia Bladder
pain Blindness Body temperature increased Bone pain Cheilosis
Completed suicideConstipation Cystitis Cystitis
noninfective Decreased appetite Dermatitis Dermatitis
acneiform Dermatitis exfoliative Diarrhoea Dizziness Embolism
Embolism venous Enteritis Eosinophilia Fatigue
Gastrointestinal haemorrhage Haemoglobin Haemorrhage Headache
Hepatitis Hepatomegaly Hyperglycaemia Hyperhidrosis
Hypokalaemia Ichthyosis acquired Infarction Intestinal
obstructionJaundice Lymphadenopathy Nausea Neuralgia
ObstructionOedema Pain Photosensitivity reaction
Pigmentation disorder Pruritus Rash Skin discolouration
Somnolence Splenic infarction Visual acuity reduced
Visual impairmentVomiting Weight decreased

Outer-membrane lipoprotein lolB - Group: Receptor

Treated with:

1-methoxy-2-[2-(2-methoxy-ethoxy)-ethane: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Steroid hormone receptor ERR1 - Group: Receptor

Treated with:

troglitazone: withdrawn small molecule (32 associated side effects) For the treatment of Type II diabetes mellitus. It is used alone or in combination with a sulfonylurea, metformin, or insulin as an adjunct to diet and exercise.

1-cyclohexyl-n-([1-(4-methylphenyl)-1h-indol-3-yl]methyl)methanamine: experimental small molecule (0 associated side effects)

31 known side effects mediated through drugs targeting this protein:

Abdominal pain Alanine aminotransferase increasedAnaemia
Asthenia Blood creatine phosphokinase increased Body
temperature increased Cardiac failure Cardiac failure congestive
Decreased appetite Discomfort Dizziness Fatigue
Feeling abnormal Gastrointestinal pain Hepatic function
abnormal Hepatitis Hyperglycaemia Ill-defined disorder
Jaundice Laboratory test abnormal Liver function test
abnormal Loss of consciousness Malaise Nausea Oedema
Pain Shock Syncope Volume blood increased Vomiting
Weight increased

High affinity immunoglobulin gamma Fc receptor I - Group: Receptor
Treated with:

cetuximab: approved biotech (0 associated side effects) For treatment of EGFR-expressing metastatic colorectal cancer in patients who are refractory to other irinotecan-based chemotherapy regimens. Cetuximab is also indicated for treatment of squamous cell carcinoma of the head and neck in conjunction with radiation therapy.

etanercept: approved biotech (0 associated side effects) For treatment of severe active rheumatoid arthritis in adults, severe juvenile idiopathic arthritis, ankylosing spondylitis, and severe plaque psoriasis.

intravenous immunoglobulin: approved biotech (0 associated side effects) IVIg is used in the treatment of immunodeficiencies, as well as autoimmune and inflammatory disorders. These indications includes idiopathic thrombocytopenic purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic lymphocytic leukemia, bone marrow transplant complications, Guillain-Barré syndrome, chronic inflammatory demyelinating polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis, myasthenia gravis, Wiskott-Aldrich syndrome and inflammatory skin diseases.

adalimumab: approved biotech (0 associated side effects) For treatment of rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, and Crohn's disease.

abciximab: approved biotech (0 associated side effects)

gemtuzumab ozogamicin: approved biotech (0 associated side effects) For treatment of CD33-positive acute myeloid leukemia in patients 60 and over who are not candidates for other chemotherapy.

trastuzumab: approved biotech (0 associated side effects)

For treatment of early stage HER2-positive breast cancer, or metastatic breast cancer that substantially overexpress HER2.

rituximab: approved biotech (0 associated side effects) For treatment of CD20-positive non-Hodgkins lymphoma, chronic lymphocytic leukemia, and rheumatoid arthritis.

basiliximab: approved biotech (0 associated side effects)

For prophylactic treatment of kidney transplant rejection

muromonab: approved biotech (0 associated side effects) For treatment of organ transplant recipients, prevention of organ rejection

ibrutumomab: approved biotech (0 associated side effects)

For treatment of non-Hodgkin's lymphoma

tositumomab: approved biotech (0 associated side effects)

For treatment of non-Hodgkin's lymphoma (CD20 positive, follicular)

alemtuzumab: approved biotech (0 associated side effects)

Alemtuzumab (Campath) is a monoclonal antibody therapy used for treatment of B-cell chronic lymphocytic leukemia.

alefacept: approved biotech (0 associated side effects) As an immunosuppressive drug, Alefacept can be used for treatment of moderate to severe chronic plaque psoriasis

efalizumab: approved biotech (0 associated side effects) For the treatment of adult patients with moderate to severe chronic

plaque psoriasis, who are candidates for phototherapy or systemic therapy.

natalizumab: approved biotech (0 associated side effects)
For treatment of multiple sclerosis.

palivizumab: approved biotech (0 associated side effects)
For prophylaxis of respiratory diseases caused by respiratory syncytial virus.

daclizumab: approved biotech (0 associated side effects)
Zenapax is a humanized monoclonal antibody used for prevention of renal transplant rejection

bevacizumab: approved biotech (0 associated side effects)
As part of combination therapy for metastatic colorectal cancer and HER2-negative metastatic breast cancer.

porfimer: approved small molecule (0 associated side effects)
Indicated in the treatment of esophageal cancer.

methyl aminolevulinate: approved small molecule (45 associated side effects)
For topical use, in combination with 570 to 670 nm wavelength red light illumination, in the treatment of non-hyperkeratotic actinic keratoses of the face and scalp in immunocompetent patients when used in conjunction with lesion preparation (debridement using a sharp dermal curette).

45 known side effects mediated through drugs targeting this protein:

Agitation Basal cell carcinoma Blister Burning sensation
Dermatitis bullous Dermatitis contact Discomfort
Dissociation Eczema Erythema Eye disorder
Eyelid oedema Face oedema Haemoglobin Haemorrhage Headache
Hyperkinesia Hypersensitivity Infection Keratitis
Macular oedema Neoplasm malignant Oedema Pain of
skin Papule Photosensitivity reaction Pigmentation disorder
Pruritus Rash pustular Scab Sensitisation Skin
burning sensation Skin cancer Skin exfoliation Skin haemorrhage Skin
hyperpigmentation Skin infection Skin tightness Skin ulcer Skin
warm Squamous cell carcinoma Swelling Ulcer Urticaria
Vitreous detachment

Calcium-activated potassium channel subunit beta-4 - Group: Channel
Treated with:

miconazole: approved small molecule (33 associated side effects)
For topical application in the treatment of tinea pedis (athlete's foot), tinea cruris, and tinea corporis caused by *Trichophyton rubrum*, *Trichophyton mentagrophytes*, and *Epidermophyton floccosum*, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.

33 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Anaphylactoid reaction
Angioedema Breast disorder Burning sensation Cardiac disorder
Dermatitis Dermatitis contact Erythema Gastrointestinal
pain Genital burning sensation Genital discharge Headache
Immune system disorder Muscle spasms Nausea Nervous
system disorder Oedema Pain Pelvic pain Pruritus genital Rash
Respiratory disorder Respiratory tract infection Upper

respiratory tract infection Urethral disorderUrinary tract disorder
Urinary tract infection Urticaria Vaginal discharge
Vulvovaginal discomfort Vulvovaginal erythema

Nociceptin receptor - Group: Receptor

Treated with:

etorphine: illicit,experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

Ileal sodium/bile acid cotransporter - Group: Transporter

Treated with:

cyclosporine: approved biotech (0 associated side effects)

For treatment of transplant rejection, rheumatoid arthritis,
severe psoriasis

ursodeoxycholic acid: approved small molecule (210 associated
side effects) The drug reduces cholesterol absorption and is used
to dissolve (cholesterol) gallstones in patients who want an
alternative to surgery.

glycochenodeoxycholic acid: experimental small molecule (0
associated side effects)

taurocholic acid:experimental small molecule (0 associated
side effects)

210 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Acne Acute coronary
syndrome Alopecia Amblyopia Amnesia Amyloidosis Anaemia
Angina pectoris Angioedema Angiopathy Aortic dissection
Arrhythmia Arthralgia Arthritis Asthenia Asthma
Atrial fibrillation Atrioventricular block Atrioventricular
block complete Back pain Biliary colic Bladder pain
Blindness Blood creatinine increased Blood glucose
increased Body temperature increased Bone disorder Bone pain
Breast disorder Breast mass Breast neoplasm Bronchitis
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiomegaly Cardiomyopathy
Cardiovascular disorder Cataract Cellulitis
Cerebrovascular accident Chest pain Chills
Cholecystitis Confusional stateConjunctivitis Connective
tissue disorder Constipation Convulsion Cough Cyst Cystitis
Cystitis noninfective Deafness Decreased appetite
Dehydration Dermatitis Diabetes mellitusDiarrhoea Diplopia
Discomfort Dizziness Drug hypersensitivity Drug interaction
Dry mouth Duodenal ulcer Dysmenorrhoea Dyspepsia
Dysphagia Dyspnoea Dysuria Ear disorder Ear
infection Ecchymosis Effusion Epistaxis Eructation Eye
disorder Face oedema Fatigue Feeling abnormal Fibrocystic
breast disease Fibrosis Flatulence Fluid retention Gastric
disorder Gastric ulcer Gastritis Gastrointestinal disorder
Gastrointestinal haemorrhage Gastrointestinal pain Generalised

oedema Granuloma Haematuria Haemoglobin Haemolytic anaemia
 Haemorrhage Headache Heat rash Hepatic enzyme increased
 Hepatic function abnormal Hepatobiliary disease Herpes
 simplex Herpes virus infection Hyperhidrosis Hypersensitivity
 Hypertension Hypertrophy Hypotension Ill-defined disorder
 Immune system disorder Incontinence Infarction Infection
 Infestation Influenza Insomnia Interstitial lung disease
 Laboratory test abnormal Laryngeal oedema Leukopenia Loss
 of consciousness Lung disorder Lung infiltration Lung neoplasm
 Lymphadenopathy Malaise Mediastinal disorder Melaena
 Menorrhagia Migraine Muscle spasms Musculoskeletal
 discomfort Musculoskeletal pain Myalgia Myocardial infarction
 Nasal discomfort Nausea Neck pain Neoplasm Nervous
 system disorder Nervousness Nocturia Nodule Oedema
 Oedema peripheral Oesophagitis Orthostatic hypotension
 Otitis media Pain Palpitations Pancreatitis
 Paraesthesia Pathological fracture Peptic ulcer
 Pericardial effusion Pericarditis Pharyngitis
 Photosensitivity reaction Pleural disorder Pleural effusion
 Pneumonia Pollakiuria Polyp Pruritus Psoriasis Pulmonary
 fibrosis Pulmonary hypertension Rash Renal failure Renal
 impairment Respiratory disorder Respiratory tract infection
 Retinal disorder Rhinitis Salivary gland enlargement Shock
 Sinusitis Skin discolouration Skin disorder Skin
 hypertrophy Skin papilloma Skin ulcer Somnolence Syncope
 Tachycardia Tenderness Tension Thrombocytopenia Tinnitus
 Ulcer Ulcer haemorrhage Upper respiratory tract infection
 Urethral disorder Urinary incontinence Urinary tract disorder
 Urinary tract infection Urticaria Vaginal infection
 Vaginal inflammation Vasodilation procedure Vertigo Viral
 infection Visual acuity reduced Visual impairment Vomiting
 Weight increased

Acetylcholine receptor subunit gamma - Group: Channel

Treated with:

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

160 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Aggression Agitation
 Anaemia Anxiety Apathy Aphasia Apraxia
 Arrhythmia Arrhythmia supraventricular Arthralgia Arthritis
 Asthenia Ataxia Atrial fibrillation Atrioventricular
 block Back pain Bladder pain Blood alkaline phosphatase
 increased Blood urea increased Body temperature increased Bone
 pain Bradycardia Bronchitis Bundle branch block Cardiac failure
 Cardiac fibrillation Cardiovascular disorder Cataract
 Cerebrovascular accident Cerebrovascular disorder Chest
 pain Coagulopathy Completed suicide Confusional state
 Constipation Convulsion Cough Cystitis Cystitis

noninfective Decreased appetite Dehydration Delirium
 Depression Dermatitis Diarrhoea Discomfort Disturbance in
 sexual arousal Diverticulitis Dizziness Dry mouth Dysgeusia
 Dyspepsia Dysphagia Electrocardiogram QT prolonged
 Electrocardiogram T wave inversion Epistaxis Eye disorder
 Fatigue Feeling abnormal Flat affect Flatulence Gastric
 disorder Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperkinesia Hypersensitivity Hypersomnia
 Hypertension Hypertonia Hypokalaemia Hypokinesia
 Hypotension Ill-defined disorder Immune system disorder
 Incontinence Infarction Infection Insomnia Ischaemia
 Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Mental disorder Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nausea
 Nephrolithiasis Nervous system disorder Nervousness
 Neuropathy peripheral Nightmare Nocturia Oedema
 Oedema peripheral Oesophageal disorder Oesophageal
 perforation Orthostatic hypotension Pain in extremity
 Palpitations Paraesthesia Paranoia Pneumonia
 Pollakiuria Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Salivary hypersecretion Shock Somnolence
 Suicidal ideation Suicide attempt Supraventricular tachycardia
 Syncope Tachycardia Tension Thrombocytopenia
 Thrombocytosis Tinnitus Transient ischaemic attack
 Tremor Upper respiratory tract infection Urethral disorder
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Vascular dementia Vascular purpura
 Ventricular tachycardia Vertigo Vision blurred
 Vomiting Weight decreased

Gamma-aminobutyric acid receptor subunit rho-2 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit, approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit, approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide: illicit, approved small molecule (20 associated side effects) For the management of anxiety disorders or for the

short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects)
For the treatment of anxiety and status epilepticus.

clorazepate: illicit, approved small molecule (0 associated side effects)
For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit, approved small molecule (119 associated side effects)
For use as a sedative perioperatively.

flurazepam: illicit, approved small molecule (62 associated side effects)
For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit, approved small molecule (0 associated side effects)
Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit, approved small molecule (149 associated side effects)
Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects)
For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit, approved, withdrawn small molecule (66 associated side effects)
For the short-term treatment of insomnia.

clonazepam: illicit, approved small molecule (228 associated side effects)
Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit, approved small molecule (131 associated side effects)
For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam: illicit, approved small molecule (47 associated side effects)
For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects)
Used for the short-term treatment of anxiety disorders.

prazepam: illicit, approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects)
Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects)
For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects)
Used to treat short-term sleeping problems (insomnia), such as

difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Acidosis Acne Affect
labiality Ageusia Aggression Agitation Agranulocytosis
Akathisia Akinesia Alcohol poisoning Alopecia Altered
state of consciousness Amblyopia Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anger Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anterograde amnesia Anxiety Aortic dissection Apathy
Aphonia Apnoea Appetite disorder Arrhythmia Arterial
spasm Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrioventricular block Back pain Balance disorder Bladder
dysfunction Bladder pain Blindness Blood alkaline phosphatase
increased Blood bilirubin increased Blood disorder Blood
glucose decreased Blood thromboplastin decreased Body temperature
decreased Body temperature increased Borderline personality
disorder Bradycardia Bradyphrenia Brain oedema Breast
disorder Breast pain Breast swelling Bronchitis Bronchospasm
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chromaturia Clonic convulsion Clonus Clumsiness
Coagulopathy Cognitive disorder Coma Completed suicide
Confusional state Connective tissue disorder Constipation
Conversion disorder Convulsion Coordination abnormal Cough
Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Deafness Death Decreased appetite Dehydration
Delirium Delirium tremens Delusion Dependence
Depersonalisation Depressed level of consciousness Depressed
mood Depression Depressive symptom Derealisation Dermatitis
Dermatitis contact Dermatitis exfoliative Diarrhoea
Diplopia Discomfort Disinhibition Disorientation
Disturbance in attention Disturbance in sexual arousal
Dizziness Drooling Drug abuse Drug dependence Drug
eruption Drug intolerance Drug withdrawal convulsions Dry mouth
Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
infection Ear pain Ecchymosis Effusion Ejaculation delayed
Ejaculation failure Emotional disorder Emotional
distress Emotional poverty Encephalopathy Encopresis Endometrial
sarcoma Energy increased Enterocolitis Enuresis
Eosinophilia Epilepsy Epistaxis Erectile dysfunction
Erythema Erythema multiforme Euphoric mood
Extrapyramidal disorder Extrasystoles Eye disorder
Eye irritation Eye movement disorder Eye pain Eye
swelling Face oedema Faecal incontinence Fatigue Feeling
abnormal Feeling cold Feeling drunk Feeling hot Feeling
jittery Feeling of body temperature change Flat affect Flatulence

Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test

decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Hepatocyte growth factor receptor - Group: Enzyme

Treated with:

k-252a: experimental small molecule (0 associated side effects)

1-(4-fluorophenyl)-n-[3-fluoro-4-(1h-pyrrolo[2,3-b]pyridin-4-yloxy)phenyl]-2-oxo-1,2-dihydropyridine-3-carboxamide:

experimental small molecule (0 associated side effects)

n-({4-[(2-aminopyridin-4-yl)oxy]-3-fluorophenyl}carbamoyle)-2-(4-fluorophenyl)acetamide: experimental small molecule (0 associated side effects)

2-(4-fluorophenyl)-n-{{3-fluoro-4-(1h-pyrrolo[2,3-b]pyridin-4-yloxy)phenyl}carbamoyle}acetamide: experimental small molecule (0 associated side effects)

n-(3-chlorophenyl)-n-methyl-2-oxo-3-[(3,4,5-trimethyl-1h-pyrrol-2-yl)methyl]-2h-indole-5-sulfonamide: experimental small molecule (0 associated side effects)

3-[3-(4-methylpiperazin-1-yl)-7-(trifluoromethyl)quinoxalin-5-yl]phenol: experimental small molecule (0 associated side effects)

6-{{6-(1-methyl-1h-pyrazol-4-yl)[1,2,4]triazolo[4,3-b]pyridazin-3-yl}sulfanyl}quinoline: experimental small molecule (0 associated side effects)
3-[(1r)-1-(2,6-dichloro-3-fluorophenyl)ethoxy]-5-(1-piperidin-4-yl-1h-pyrazol-4-yl)pyridin-2-amine: experimental small molecule (0 associated side effects)
1-[(2-nitrophenyl)sulfonyl]-1h-pyrrolo[3,2-b]pyridine-6-carboxamide: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Voltage-dependent calcium channel subunit alpha-2/delta-1 - Group: Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)
For the management of mild to moderate essential hypertension.

It may be used alone or concurrently with thiazide-type diuretics.
ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or atrial flutter of recent onset to sinus rhythm.

amlodipine: approved small molecule (136 associated side effects) For the treatment of hypertension and chronic stable angina.

nisoldipine: approved small molecule (161 associated side effects) For the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

magnesium sulfate: approved small molecule (0 associated side effects) Used for immediate control of life-threatening convulsions in the treatment of severe toxemias (pre-eclampsia and eclampsia) of pregnancy and in the treatment of acute nephritis in children. Also indicated for replacement therapy in magnesium deficiency, especially in acute hypomagnesemia accompanied by signs of tetany similar to those of hypocalcemia. Also used in uterine tetany as a myometrial relaxant.

gabapentin: approved small molecule (456 associated side effects) For the management of postherpetic neuralgia in adults and as adjunctive therapy in the treatment of partial seizures with and without secondary generalization in patients over 12 years of age with epilepsy.

felodipine: approved small molecule (96 associated side effects)
For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side effects) For the treatment of mild to moderate hypertension

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

cyclandelate: approved small molecule (0 associated side effects) Used in the treatment of various blood vessel diseases

(e.g., claudication, arteriosclerosis and Raynaud's disease) and nighttime leg cramps.

nilvadipine: approved small molecule (0 associated side effects) For the management of vasospastic angina, chronic stable angina and hypertension.

589 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Acute coronary syndrome Acute generalised exanthematous pustulosis Affect lability Ageusia Agitation Alcohol intolerance Alopecia Amblyopia Amenorrhoea Amnesia Anaemia Anaphylactic shock Angina pectoris Angioedema Angiopathy Anorectal disorder Antisocial behaviour Antisocial personality disorder Anuria Anxiety Anxiety disorder Aortic dissection Apathy Aphasia Apnoea Apraxia Areflexia Arrhythmia Arteriosclerosis Arthralgia Arthritis Arthropathy Asocial behaviour Aspiration Asthenia Asthma Ataxia Atrial fibrillation Atrioventricular block first degree Atrioventricular block second degree Aura Back pain Bezoar Bladder pain Bleeding time prolonged Blepharitis Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood creatine phosphokinase increased Blood creatinine increased Blood lactate dehydrogenase increased Blood pressure increased Blood urea abnormal Blood urea increased Blood uric acid Body temperature increased Bone pain Bradycardia Breast cancer Breast engorgement Breast enlargement Breast pain Bronchitis Bronchospasm Bundle branch block Bursitis Candidiasis Capillary fragility increased Cardiac arrest Cardiac disorder Cardiac failure Cardiac failure congestive Cardiac fibrillation Cardiac murmur Cardiogenic shock Cardiovascular disorder Cataract Cellulitis Central nervous system neoplasm Cerebellar syndrome Cerebral ischaemia Cerebrovascular accident Cheilitis Chest discomfort Chest pain Chills Cholecystitis Cholelithiasis Cholestasis Choreoathetosis Chorioretinitis Chronic obstructive pulmonary disease Coagulopathy Cold sweat Colitis Coma Completed suicide Confusional state Conjunctival hyperaemia Conjunctivitis Connective tissue disorder Constipation Conversion disorder Convulsion Coombs direct test positive Coordination abnormal Corneal disorder Costochondritis Cough Crocodile tears syndrome Cushingoid Cystitis Cystitis noninfective Dandruff Deafness Decreased appetite Deep vein thrombosis Dehydration Dependence Depersonalisation Depressed level of consciousness Dermatitis Dermatitis bullous Dermatitis exfoliative Diabetes mellitus Diabetic ketoacidosis Diabetic retinopathy Diaphragmatic hernia Diarrhoea Diplopia Discomfort Disease progression Dissociation Disturbance in attention Disturbance in sexual arousal Dizziness Dizziness postural Drug abuse Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer Dysaesthesia Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea Dystonia Dysuria Ear disorder Ear

infection Ear pain Ecchymosis Eczema Effusion Ejaculation
disorder Electrocardiogram ST segment Electrocardiogram ST segment
depression Electrocardiogram T wave inversion Electrocardiogram
abnormal Embolism Encephalopathy Eosinophilia
Epididymitis Epistaxis Erectile dysfunction Eructation
Erythema Erythema multiforme Erythema nodosum
Erythromelalgia Euphoric mood Eustachian tube disorder
Extensor plantar response Extrasystoles Eye disorder
Eye haemorrhage Eye pain Eye pruritus Eyelid ptosis
Face oedema Faecal incontinence Fasting Fatigue
Feeling abnormal Feeling hot Feeling jittery Flat affect
Flatulence Fluid retention Flushing Fungal skin infection
Furuncle Gait disturbance Gamma-glutamyltransferase
increased Gastritis Gastroenteritis Gastrointestinal disorder
Gastrointestinal haemorrhage Gastrointestinal obstruction
Gastrointestinal pain Gastrointestinal tract irritation
Gastrooesophageal reflux disease Generalised oedema
Genital discharge Gingival bleeding Gingival disorder Gingival
hyperplasia Gingivitis Glaucoma Glomerulonephritis membranous
Glossitis Glycosuria Goitre Gout Gynaecomastia
Haematemesis Haematochezia Haematoma Haematuria
Haemoglobin decreased Haemolysis Haemolytic anaemia
Haemoptysis Haemorrhage Haemorrhage intracranial
Haemorrhoids Hair disorder Hallucination Hangover
Headache Hearing impaired Hemiplegia Hepatic enzyme
increased Hepatic failure Hepatic function abnormal Hepatitis
Hepatitis cholestatic Hepatitis fulminant Hepatobiliary
disease Hepatomegaly Hernia Herpes simplex Herpes
virus infection Herpes zoster Hiccups Hirsutism Hordeolum
Hostility Hot flush Hyperaemia Hyperaesthesia
Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
Hyperkinesia Hyperlipidaemia Hyperplasia Hyperreflexia
Hypersensitivity Hypertension Hypertonia Hypertrophy
Hyperventilation Hypoaesthesia Hypoglycaemia
Hypokalaemia Hypokinesia Hyponatraemia Hypophosphataemia
Hyporeflexia Hypotension Hypothyroidism Hypotonia
Hypoventilation Hypoxia Ill-defined disorder Immune
system disorder Incontinence Increased appetite Infarction
Infection Infectious mononucleosis Infestation
Inflammation Influenza Injection site pain Injection
site reaction Inner ear disorder Insomnia Intentional self-
injury Interstitial lung disease Intestinal functional
disorder Intestinal obstruction Intestinal ulcer Iritis
Irritability Irritable bowel syndrome Ischaemia
Jaundice Joint stiffness Joint swelling Keratitis
Ketoacidosis Laboratory test abnormal Labyrinthitis
Lacrimation increased Laryngitis Lethargy Leukocytoclastic
vasculitis Leukocytosis Leukopenia Libido decreased Libido
increased Lip haemorrhage Liver function test abnormal Loss of
consciousness Loss of libido Lung disorder Lymphadenopathy
Lymphocytosis Lymphoma Malaise Mania Mass Mediastinal
disorder Melaena Melanosis Memory impairment Meningism
Menopausal symptoms Menorrhagia Menstrual disorder
Mental disability Mental disorder Metabolic acidosis
Micturition disorder Micturition urgency Migraine

Miosis Mood swings Mouth ulceration Movement disorder
Mucosal inflammation Mucous membrane disorder Muscle
contracture Muscle relaxant therapy Muscle spasms Muscle
twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myocardial infarction
Myocardial ischaemia Myoclonus Myositis Nail disorder
Nasal congestion Nasal obstruction Nasopharyngitis Nausea
Neck mass Neck pain Necrosis Neoplasm Neoplasm
malignant Nephrolithiasis Nephrotic syndrome Nervous system
disorder Nervousness Neuropathy peripheral Neurosis Nightmare
Nocturia Nodal arrhythmia Nodule Nystagmus Obstruction
Obstructive airways disorder Occipital neuralgia Oedema
Oedema peripheral Oesophageal disorder Oesophageal spasm
Oesophagitis Oliguria Oral candidiasis Oropharyngeal
discomfort Oropharyngeal pain Orthostatic hypotension
Osteoarthritis Osteoporosis Otitis externa Otitis
media Ovarian failure Pain Pain in extremity Palpitations
Pancreatitis Papule Paraesthesia Paraesthesia oral
Paralysis Paranoia Paresis Parosmia Pelvic pain
Penile swelling Penis disorder Peptic ulcer Pericardial
effusion Pericardial haemorrhage Pericardial rub
Pericarditis Periorbital oedema Peripheral ischaemia
Peripheral vascular disorder Personality disorder Petechiae
Pharyngitis Phlebitis Photophobia Photosensitivity reaction
Platelet disorder Pleural disorder Pleural effusion Pneumonia
aspiration Poisoning Pollakiuria Polyuria Proctitis Prothrombin
level decreased Pruritus Pruritus genital Pseudolymphoma
Psoriasis Psychotic disorder Pulmonary congestion
Pulmonary embolism Pulmonary oedema Pulmonary thrombosis
Purpura Pyelonephritis Pyuria Rales Rash Rash
erythematous Rash maculo-papular Rash pustular Rectal
haemorrhage Regurgitation Renal failure Renal failure acute
Renal failure chronic Renal impairment Renal pain Respiratory
disorder Respiratory failure Respiratory tract congestion
Respiratory tract infection Retinal degeneration Retinal
detachment Retinal disorder Retinal vein thrombosis Rhinitis
Rhinitis seasonal Rhinorrhoea Rhythm idioventricular Salivary
gland enlargement Salivary hypersecretion Scotoma Scrotal
disorder Scrotal swelling Seasonal allergy Seborrhoeic dermatitis
Sepsis Sexual dysfunction Shock Sinus arrhythmia Sinus
bradycardia Sinus tachycardia Sinusitis Skin cancer Skin
discolouration Skin disorder Skin exfoliation Skin hypertrophy
Skin necrosis Skin odour abnormal Skin ulcer Sleep
disorder Sneezing Snoring Somnambulism Somnolence
Speech disorder Sticky skin Stomatitis Strabismus Stridor
Stupor Subcutaneous nodule Subdural haematoma
Suicidal behaviour Suicide attempt Supraventricular
extrasystoles Supraventricular tachycardia Swelling Syncope
Tachyarrhythmia Tachycardia Tenderness Tendon disorder
Tendonitis Tenosynovitis Tension Testicular pain
Thinking abnormal Thirst Thrombocytopenia Thrombophlebitis
Thrombosis Thyroiditis Tinnitus Tongue disorder Tooth
abscess Tooth discolouration Tooth disorder Toxic epidermal
necrolysis Tremor Ulcer Upper respiratory tract infection
Urethral disorder Urinary incontinence Urinary retention

Urinary tract disorder Urinary tract infection Urine
abnormality Urine analysis abnormal Urine output increased
Urogenital disorder Urticaria Uterovaginal prolapse VIIth
nerve paralysis Vaginal haemorrhage Vaginal infection Vaginal
inflammation Varicose vein Vascular purpura Vasculitis
Vasodilation procedure Venous insufficiency Venous thrombosis
Ventricular arrhythmia Ventricular extrasystoles Ventricular
tachycardia Vertigo Vestibular disorder Viral diarrhoea Viral
infection Vision blurred Visual acuity reduced Visual impairment
Vitreous floaters Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Vulvovaginal pain Weight
decreased Weight increased Wheezing White blood cell count
decreased Xerophthalmia

D(3) dopamine receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

sulpiride: approved small molecule (0 associated side effects)

Sulpiride is indicated for the treatment of schizophrenia.

remoxipride: approved, withdrawn small molecule (0 associated side effects) Remoxipride is an atypical antipsychotic once used for the treatment of schizophrenia.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

haloperidol: approved small molecule (79 associated side effects) For the management of psychotic disorders (eg. schizophrenia) and delirium, as well as to control tics and vocal utterances of Tourette's syndrome (Gilles de la Tourette's syndrome). Also used for the treatment of severe behavioural problems in children with disruptive behaviour disorder or ADHD (attention-deficit hyperactivity disorder). Haloperidol has been used in the prevention and control of severe nausea and vomiting.

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

dopamine: approved small molecule (23 associated side effects)
For the correction of hemodynamic imbalances present in the shock syndrome due to myocardial infarction, trauma, endotoxic septicemia, open-heart surgery, renal failure, and chronic cardiac decompensation as in congestive failure

pimozide: approved small molecule (68 associated side effects)
Used for the suppression of motor and phonic tics in patients with Tourette's Disorder who have failed to respond satisfactorily to standard treatment.

domperidone: approved small molecule (40 associated side effects) For management of dyspepsia, heartburn, epigastric pain, nausea, and vomiting.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

yohimbine: approved small molecule (0 associated side effects)
Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

rotigotine: approved small molecule (93 associated side effects) For use/treatment in neurologic disorders and parkinson's disease as well as moderate-to-severe primary Restless Legs Syndrome.

amisulpride: approved small molecule (0 associated side effects) Investigated for use/treatment in schizophrenia and schizoaffective disorders, mania in bipolar disorder, and depression.

1255 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphthous stomatitis Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Argininosuccinate synthetase deficiency Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder disorder Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood electrolytes abnormal Blood glucose decreased Blood glucose increased Blood

insulin increased Blood iron decreased Blood lactate dehydrogenase
increased Blood phosphorus increased Blood potassium decreased
Blood potassium increased Blood pressure abnormal Blood
pressure diastolic decreased Blood pressure fluctuation Blood
pressure increased Blood pressure systolic decreased Blood
prolactin increased Blood testosterone decreased Blood
triglycerides increased Blood triglycerides normal Blood urea
increased Blood uric acid increased Blood urine Blood urine
present Blunted affect Body temperature decreased Body
temperature increased Bone disorder Bone pain Bone sarcoma
Bradycardia Bradykinesia Bradyphrenia Brain neoplasm
Brain neoplasm benign Brain oedema Breast cancer
Breast cyst Breast discharge Breast discomfort Breast disorder
Breast disorder female Breast disorder male Breast
engorgement Breast enlargement Breast feeding Breast neoplasm
Breast pain Breast swelling Breast tenderness Breath odour
Bronchiolitis Bronchitis Bronchopneumonia
Bronchopneumopathy Bronchospasm Bruxism
Buccoglossal syndrome Bulimia nervosa Bundle branch block
Bundle branch block left Bundle branch block right
Burning sensation Bursitis Cachexia Calculus bladder
Calculus urinary Cancer in remission Candidiasis
Carbohydrate tolerance decreased Cardiac arrest Cardiac
disorder Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cardiac flutter Cardiac murmur Cardiac septal
defect Cardiac valve disease Cardio-respiratory arrest
Cardiomegaly Cardiomyopathy Cardiopulmonary failure
Cardiovascular disorder Carotid artery occlusion
Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
in urine Cellulitis Cerebral artery embolism Cerebral atrophy
Cerebral haemorrhage Cerebral infarction Cerebral
ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
accident Cerebrovascular disorder Cervicitis Cervix carcinoma
Chapped lips Cheilitis Chest discomfort Chest pain
Chills Choking Cholecystitis Cholecystitis chronic
Cholelithiasis Cholestasis Chorea Choreoathetosis
Chromaturia Chronic lymphocytic leukaemia Chronic
obstructive pulmonary disease Coagulopathy Coccydynia
Cognitive disorder Cogwheel rigidity Cold sweat Colitis
Colitis ulcerative Colon cancer Colorectal cancer Coma
Completed suicide Compulsions Condition aggravated Conduction
disorder Confusional state Congenital anomaly Congenital eye
disorder Congenital foot malformation Congenital genitourinary
abnormality Conjunctival haemorrhage Conjunctivitis Connective
tissue disorder Constipation Convulsion Coordination abnormal
Corneal lesion Coronary artery disease Coronary artery
occlusion Costochondritis Cough Crocodile tears syndrome
Crying Cyanosis Cystitis Cystitis noninfective
Cytolytic hepatitis Dandruff Deafness Death Decreased
appetite Decubitus ulcer Deep vein thrombosis Deficiency
anaemia Dehydration Delirium Delusion Dementia Dementia
with Lewy bodies Dental caries Dependence Depersonalisation
Depressed level of consciousness Depressed mood Depression
Depressive symptom Derealisation Dermal cyst Dermatitis
atopic Dermatitis bullous Dermatitis contact Dermatitis

exfoliative Dermatitis infected Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic coma Diabetic hyperglycaemic coma
 Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug intolerance Drug level increased Drug withdrawal
 syndrome Drug withdrawal syndrome neonatal Dry eye Dry mouth
 Dry skin Dry throat Duodenal ulcer Duodenal ulcer
 haemorrhage Duodenitis Dysarthria Dysentery Dysgeusia Dysgraphia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dyspnoea Dyspnoea exertional
 Dystonia Dysuria Ear disorder Ear infection Ear
 pain Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electrocardiogram normal Electroencephalogram
 abnormal Electrolyte imbalance Embolism Emotional distress
 Emphysema Encephalopathy Endocrine disorder Endometrial
 cancer Endometrial neoplasm Energy increased Enteritis
 Enuresis Enzyme abnormality Eosinophil count increased
 Eosinophilia Epicondylitis Epididymitis Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythromelalgia Euphoric mood
 Exfoliative rash Exostosis Extrapyrarnidal disorder
 Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 movement disorder Eye pain Eye swelling Eyelid disorder
 Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Faeces hard
 Fasciitis Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Female sexual
 dysfunction Fibroadenoma of breast Fibrocystic breast disease
 Fibrosis Flank pain Flat affect Flatulence Fluid overload
 Fluid retention Flushing Folliculitis Formication
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gallbladder cancer Gallbladder
 disorder Gamma-glutamyltransferase increased Gangrene
 Gastric cancer Gastric disorder Gastric haemorrhage
 Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Gestational hypertension Gingival bleeding Gingival
 infection Gingival pain Gingivitis Glaucoma Glossitis

Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesis Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemolysis
 Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhoids Haemothorax Hallucination Hallucination,
 auditory Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemianopia Hemiparesis Hemiplegia
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic neoplasm malignant Hepatic steatosis Hepatitis
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary disorder Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hydrocephalus Hyperacusis Hyperaemia Hyperaesthesia
 Hyperammonaemia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperparathyroidism Hyperphagia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity
 Hypersexuality Hypersomnia Hypertension Hypertensive
 crisis Hyperthermia Hyperthyroidism Hypertonia Hypertonic
 bladder Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloraemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovitaminosis Hypoxia
 Idiopathic thrombocytopenic purpura Ileus Ileus paralytic
 Ill-defined disorder Illusion Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infarction
 Infected cyst Infection Infestation Inflammation
 Influenza Influenza like illness Inguinal hernia Initial
 insomnia Injection site mass Injection site pain Injection
 site reaction Inner ear disorder Insomnia Intention tremor
 Intentional self-injury Intermittent claudication
 Interstitial lung disease Intervertebral disc degeneration
 Intervertebral disc disorder Intervertebral disc protrusion
 Intervertebral discitis Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic hepatitis Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint effusion Joint range of motion
 decreased Joint stiffness Joint swelling Judgement impaired

Keratitis Keratoconjunctivitis sicca Ketoacidosis
 Ketosis Laboratory test abnormal Lacrimal disorder
 Lacrimation increased Lactose intolerance Laryngeal cancer
 Laryngeal disorder Laryngeal neoplasm Laryngeal oedema
 Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichenoid keratosis Lip and/or oral cavity cancer Lip
 dry Lip swelling Lipoma Livedo reticularis Liver
 disorder Liver function test abnormal Liver injury Lividity
 Lobar pneumonia Localised infection Localised oedema
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung cancer metastatic Lung disorder
 Lung infiltration Lung neoplasm malignant Lymphadenitis
 Lymphadenopathy Lymphatic disorder Lymphocytic leukaemia
 Lymphocytosis Lymphoedema Lymphoma Lymphopenia Macular
 degeneration Macule Maculopathy Major depression Malaise
 Male sexual dysfunction Malignant melanoma Mania
 Masked facies Mastitis Mediastinal disorder Melaena
 Melanocytic naevus Memory impairment Meningitis Menopausal
 symptoms Menopause Menorrhagia Menstrual disorder
 Menstruation delayed Menstruation irregular Mental disability
 Mental disorder Mental retardation Mental status changes
 Metabolic alkalosis Metastasis Metastatic neoplasm
 Metrorrhagia Micturition disorder Micturition urgency
 Middle ear disorder Middle ear effusion Middle insomnia
 Migraine with aura Migraine without aura Miosis
 Mitral valve incompetence Mobility decreased
 Monarthrititis Monocytosis Mood swings Motion sickness Mouth
 ulceration Movement disorder Multiple myeloma Muscle atrophy
 Muscle contractions involuntary Muscle contracture
 Muscle enzyme increased Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle tightness Muscle
 twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenic syndrome Mydriasis Myelitis Myocardial
 infarction Myocardial ischaemia Myocarditis Myoclonus Myopathy
 Myopia Myositis Nail disorder Nail infection
 Narcolepsy Nasal congestion Nasal disorder Nasal dryness
 Nasal oedema Nasal polyps Nasopharyngitis Nausea
 Neck pain Necrosis Necrosis ischaemic Neoplasm
 malignant Neoplasm prostate Neoplasm recurrence Neoplasm skin
 Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
 lesion Nervous system disorder Nervousness Neuralgia
 Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
 malignant syndrome Neurological symptom Neuroma Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night sweats Nightmare
 Nocturia Nodal arrhythmia Nodule Normochromic
 normocytic anaemia Nuchal rigidity Nystagmus Obesity
 Obsessive thoughts Obstruction Obstructive airways disorder
 Ocular hyperaemia Oculogyric crisis Oedema Oedema peripheral
 Oesophageal carcinoma Oesophageal disorder Oesophageal spasm

Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oligomenorrhoea Oliguria Onychomycosis Opisthotonus
 Oral candidiasis Oral neoplasm benign Oral pain Orchitis
 noninfective Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media chronic
 Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pallor Palpitations Pancreatitis acute
 Pancytopenia Panic attack Panic disorder Panic
 disorder with agoraphobia Panic reaction Papilloma
 Paraesthesia oral Paralysis Paranoia Parasomnia Paresis
 Parkinsonian gait Parkinsonism Paronychia Parosmia
 Pathological fracture Pathological gambling Pelvic pain Penis
 disorder Peptic ulcer Pericardial effusion Pericarditis
 constrictive Perineal pain Periodontitis Periorbital
 oedema Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Peritoneal adhesions Personality disorder
 Petechiae Pharyngeal erythema Pharyngitis Phlebitis
 Phlebitis superficial Phobia Phonological disorder
 Photophobia Photopsia Photosensitivity allergic reaction
 Photosensitivity reaction Pigmentation disorder
 Piloerection Pituitary tumour benign Plasmacytoma
 Platelet count decreased Pleural disorder Pleural effusion
 Pleural fibrosis Pleurisy Pneumonia Pneumonia aspiration
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Postural orthostatic tachycardia syndrome Posture
 abnormal Pre-eclampsia Precocious puberty Premature
 ejaculation Premenstrual syndrome Presyncope Priapism Proctalgia
 Productive cough Prolactinoma Prostate cancer Prostatic
 adenoma Prostatic disorder Prostatitis Protein urine present
 Proteinuria Protrusion tongue Prurigo Pruritus Pruritus
 generalised Pruritus genital Pseudolymphoma Psoriasis Psychiatric
 symptom Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary fibrosis Pulmonary hypertension Pulmonary oedema
 Purpura Pyelonephritis Pyoderma Pyuria Rales Rash
 erythematous Rash generalised Rash maculo-papular Rash
 papular Rash pustular Rash vesicular Raynaud's phenomenon
 Rectal cancer Rectal haemorrhage Rectal tenesmus Red
 blood cell count decreased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory alkalosis Respiratory arrest Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Retinal artery
 occlusion Retinal detachment Retinal disorder Retinal vascular
 disorder Retinitis pigmentosa Retrograde ejaculation
 Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea

Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
 Saliva altered Salivary duct obstruction Salivary gland
 disorder Salivary gland enlargement Salivary hypersecretion
 Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
 disorder Schizophrenia Schizophreniform disorder Sciatica
 Scotoma Seasonal allergy Seborrhoeic dermatitis Seborrhoeic
 keratosis Sedation Sensation of heaviness Sensory disturbance
 Sensory loss Sepsis Septic shock Severe acute
 respiratory syndrome Sexual dysfunction Shock Sialoadenitis
 Sicca syndrome Sick sinus syndrome Sinus arrhythmia Sinus
 bradycardia Sinus congestion Sinus disorder Sinus headache Sinus
 tachycardia Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma
 Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep talking Sluggishness Small intestinal
 obstruction Sneezing Snoring Social avoidant behavioural
 Somnambulism Somnolence Speech disorder Spinal
 osteoarthritis Spine malformation Splenomegaly Spondylitis
 Squamous cell carcinoma Status epilepticus Stevens-
 Johnson syndrome Sticky skin Stomatitis Stress Stridor
 Stupor Subarachnoid haemorrhage Subcutaneous abscess
 Subcutaneous nodule Subdural haematoma Sudden death
 Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Synovitis Systemic
 lupus erythematosus Tachycardia Tachypnoea Tardive dyskinesia
 Tenderness Tendonitis Tenosynovitis Tension Tension
 headache Terminal insomnia Testicular disorder Testicular pain
 Tetany Therapeutic response decreased Therapeutic
 response increased Thinking abnormal Thirst Thought blocking
 Throat irritation Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thrombotic thrombocytopenic purpura Thyroid
 adenoma Thyroid cancer Thyroid neoplasm Thyroiditis Tic
 Tinnitus Tongue discolouration Tongue disorder Tongue dry
 Tongue oedema Tongue paralysis Tongue spasm Tongue
 ulceration Tonsillar hypertrophy Tonsillitis Tooth abscess Tooth
 disorder Tooth impacted Tooth infection Toothache Torsade de
 pointes Torticollis Toxic epidermal necrolysis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
 hernia Unevaluable event Unintended pregnancy Unresponsive to
 stimuli Upper respiratory tract infection Upper-airway cough
 syndrome Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urosepsis Urticaria
 Uterine disorder Uterine haemorrhage Uterine leiomyoma
 Uterine neoplasm Uterovaginal prolapse VIIth nerve paralysis
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura

Vasculitis Vasoconstriction Vasodilation procedure Vasospasm
 Vein disorder Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular hypertrophy Ventricular
 tachycardia Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment
 Vitreous floaters Vocal cord paralysis Vomiting
 Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal bleed Withdrawal syndrome Wound
 infection Xerophthalmia Xerosis Yawning

Low affinity immunoglobulin gamma Fc region receptor II-a - Group:
 Receptor

Treated with:

cetuximab: approved biotech (0 associated side effects) For
 treatment of EGFR-expressing metastatic colorectal cancer in
 patients who are refractory to other irinotecan-based chemotherapy
 regimens. Cetuximab is also indicated for treatment of squamous cell
 carcinoma of the head and neck in conjunction with radiation
 therapy.

etanercept: approved biotech (0 associated side effects) For
 treatment of severe active rheumatoid arthritis in adults, severe
 juvenile idiopathic arthritis, ankylosing spondylitis, and severe
 plaque psoriasis.

intravenous immunoglobulin: approved biotech (0 associated
 side effects) IVIg is used in the treatment of
 immunodeficiencies, as well as autoimmune and inflammatory
 disorders. These indications includes idiopathic thrombocytopenic
 purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic
 lymphocytic leukemia, bone marrow transplant complications,
 Guillain-Barré syndrome, chronic inflammatory demyelinating
 polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis,
 myasthenia gravis, Wiskott-Aldrich syndrome and inflammatory
 skin diseases.

adalimumab: approved biotech (0 associated side effects) For
 treatment of rheumatoid arthritis, psoriatic arthritis, ankylosing
 spondylitis, and Crohn's disease.

abciximab: approved biotech (0 associated side effects)
 gemtuzumab ozogamicin: approved biotech (0 associated side
 effects) For treatment of CD33-positive acute myeloid leukemia in
 patients 60 and over who are not candidates for other chemotherapy.

trastuzumab: approved biotech (0 associated side effects)
 For treatment of early stage HER2-positive breast cancer, or
 metastatic breast cancer that substantially overexpress HER2.

rituximab: approved biotech (0 associated side effects) For
 treatment of CD20-positive non-Hodgkins lymphoma, chronic
 lymphocytic leukemia, and rheumatoid arthritis.

basiliximab: approved biotech (0 associated side effects)
 For prophylactic treatment of kidney transplant rejection

muromonab: approved biotech (0 associated side effects) For treatment of organ transplant recipients, prevention of organ rejection

ibritumomab: approved biotech (0 associated side effects) For treatment of non-Hodgkin's lymphoma

tositumomab: approved biotech (0 associated side effects) For treatment of non-Hodgkin's lymphoma (CD20 positive, follicular)

alemtuzumab: approved biotech (0 associated side effects) Alemtuzumab (Campath) is a monoclonal antibody therapy used for treatment of B-cell chronic lymphocytic leukemia.

alefacept: approved biotech (0 associated side effects) As an immunosuppressive drug, Alefacept can be used for treatment of moderate to severe chronic plaque psoriasis

efalizumab: approved biotech (0 associated side effects) For the treatment of adult patients with moderate to severe chronic plaque psoriasis, who are candidates for phototherapy or systemic therapy.

natalizumab: approved biotech (0 associated side effects) For treatment of multiple sclerosis.

palivizumab: approved biotech (0 associated side effects) For prophylaxis of respiratory diseases caused by respiratory syncytial virus.

daclizumab: approved biotech (0 associated side effects) Zenapax is a humanized monoclonal antibody used for prevention of renal transplant rejection

bevacizumab: approved biotech (0 associated side effects) As part of combination therapy for metastatic colorectal cancer and HER2-negative metastatic breast cancer.

known side effects mediated through drugs targeting this protein:

D1 dopamine receptor-interacting protein calcyon - Group: Other
Treated with:

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

trifluoperazine: approved small molecule (111 associated side effects) For the treatment of anxiety disorders, depressive symptoms secondary to anxiety and agitation.

297 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abnormal faeces Acute coronary syndrome Agitation Agranulocytosis Akathisia Akinesia Amenorrhoea Amnesia Anaemia Anaphylactic shock Anaphylactoid reaction Angina pectoris Angioedema Angle closure glaucoma Anxiety Aphasia Aplastic anaemia Arrhythmia Arthralgia Asphyxia Aspiration Asthenia Asthma

Ataxia Back pain Blood disorder Blood triglycerides
 increased Blood uric acid increased Body temperature decreased
 Body temperature increased Bradycardia Brain oedema
 Breast feeding Breast pain Bronchitis Cardiac arrest
 Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiomyopathy Cataplexy Catatonia Chest pain
 Chills Cholestasis Cogwheel rigidity Coma Confusional state
 Constipation Convulsion Corneal deposits Cough Cyanosis
 Cytolytic hepatitis Death Decreased appetite Deep vein
 thrombosis Dehydration Delirium Delusion Dementia Dependence
 Dermatitis Dermatitis exfoliative Diabetes mellitus Diabetic
 hyperosmolar coma Diarrhoea Discomfort Disturbance in sexual
 arousal Dizziness Drooling Drug abuse Drug dependence Dry
 mouth Dry throat Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspepsia Dysphagia Dysphemia Dyspnoea Dystonia Ear
 disorder Ecchymosis Eczema Effusion Ejaculation disorder
 Electrocardiogram change Electroencephalogram abnormal
 Embolism Eosinophilia Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Extrapryamidal
 disorder Eyelid disorder Faecalith Faecaloma Fatigue
 Feeling abnormal Feeling jittery Flushing Gait disturbance
 Galactorrhoea Gastric disorder Gastric ulcer
 Gastroenteritis Glaucoma Glucose tolerance impaired
 Glycosuria Grand mal convulsion Gynaecomastia
 Haematemesis Haemoglobin increased Haemolytic anaemia
 Haemorrhage Hallucination Headache Heart disease
 congenital Hepatitis Hepatocellular injury Hot flush
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkinesia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersexuality Hypertension
 Hypertriglyceridaemia Hyperuricaemia Hyperventilation
 Hypoaesthesia Hypoglycaemia Hypokinesia Hyponatraemia
 Hypotension Hypothermia Ileus paralytic Ill-defined disorder
 Incontinence Increased appetite Infarction Infection
 Insomnia Intestinal obstruction Irritability Jaundice
 Keratopathy Ketoacidosis Laryngeal oedema Laryngitis
 Lethargy Leukocytosis Leukopenia Libido increased Liver
 injury Loss of consciousness Lower respiratory tract infection
 Maculopathy Malaise Megacolon Menopausal symptoms
 Menstruation irregular Mental disorder Micturition urgency
 Miosis Mitral valve incompetence Muscle rigidity
 Muscle spasms Muscle twitching Muscular weakness
 Musculoskeletal discomfort Myalgia Myasthenic syndrome
 Mydriasis Myocardial infarction Myocarditis Myoclonus Nasal
 congestion Nasopharyngitis Nausea Nephritis Nervousness
 Neuroleptic malignant syndrome Neutropenia Nightmare
 Nystagmus Obstruction Ocular hyperaemia Oculogyric crisis
 Oedema Oedema peripheral Opisthotonus Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Pain Pain in extremity Pallor
 Palpitations Pancreatitis Pancreatitis acute
 Pancytopenia Paraesthesia Paranoia Pathological
 gambling Pericardial effusion Pericarditis Periorbital
 oedema Petechiae Petit mal epilepsy Phaeochromocytoma
 Phlebitis Photosensitivity reaction Pigmentation disorder

Pleural disorder Pleural effusion Pneumonia Pollakiuria
 Polydipsia Pregnancy test false positive Pregnancy test
 positive Priapism Protrusion tongue Pruritus Psychotic
 disorder Pulmonary embolism Purpura Rash Rectal
 haemorrhage Red blood cell sedimentation rate increased Respiratory
 arrest Respiratory tract infection Retinal disorder Retinitis
 pigmentosa Rhabdomyolysis Rhinorrhoea Salivary gland enlargement
 Salivary hypersecretion Sedation Sensory loss
 Sepsis Shock Skin disorder Sneezing Somnolence
 Status epilepticus Sudden death Suicidal ideation
 Swelling Syncope Systemic lupus erythematosus Tachycardia
 Tardive dyskinesia Tenderness Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Tic Tooth impacted Torsade de
 pointes Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Ulcer Urinary retention Urinary
 tract infection Urticaria Vascular purpura Vasculitis Venous
 thrombosis Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vision blurred
 Visual impairment Vomiting Vulvovaginal pruritus Weight
 decreased Weight increased Wheezing White blood cell count
 decreased Yawning

Receptor tyrosine-protein kinase erbB-2 - Group: Enzyme

Treated with:

trastuzumab: approved biotech (0 associated side effects)

For treatment of early stage HER2-positive breast cancer, or metastatic breast cancer that substantially overexpress HER2.

lapatinib: approved small molecule (0 associated side effects)

Indicated in combination with capecitabine for the treatment of patients with advanced or metastatic breast cancer whose tumors overexpress the human epidermal receptor type 2 (HER2) protein and who have received prior therapy including an anthracycline, a taxane, and trastuzuma.

known side effects mediated through drugs targeting this protein:

Estrogen receptor - Group: Receptor

Treated with:

diethylstilbestrol: approved small molecule (0 associated side effects) Used in the treatment of prostate cancer.

Previously used in the prevention of miscarriage or premature delivery in pregnant women prone to miscarriage or premature delivery.

chlorotrianisene: approved small molecule (0 associated side effects) Used to treat symptoms of menopause, deficiencies in ovary function (including underdevelopment of female sexual characteristics and some types of infertility), and in rare cases, prostate cancer. Chlorotrianisene may also be used to prevent breast engorgement following childbirth.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor

symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

etonogestrel: approved small molecule (0 associated side effects) For use as a female contraceptive (depot).

desogestrel: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect to use this product as a method of contraception.

levonorgestrel: approved small molecule (187 associated side effects) For the treatment of menopausal and postmenopausal disorders and alone or in combination with other hormones as an oral contraceptive.

progesterone: approved small molecule (256 associated side effects) For progesterone supplementation or replacement as part of an Assisted Reproductive Technology (ART) treatment for infertile women with progesterone deficiency and for the treatment of secondary amenorrhea. Also used for the reduction of the incidence of endometrial hyperplasia and the attendant risk of endometrial carcinoma in postmenopausal women receiving estrogen replacement therapy, as well as treatment of abnormal uterine bleeding due to hormonal imbalance in the absence of organic pathology such as fibroids or uterine cancer.

raloxifene: approved small molecule (83 associated side effects)

For the prevention and treatment of osteoporosis in postmenopausal women, as well as prevention and treatment of corticosteroid-induced bone loss. Also for the reduction in the incidence of invasive breast cancer in postmenopausal women with osteoporosis or have a high risk for developing breast cancer.

toremifene: approved small molecule (58 associated side effects)

For the treatment of metastatic breast cancer in postmenopausal women with estrogen receptor-positive or receptor-unknown tumors. Toremifene is currently under investigation as a preventative agent for prostate cancer in men with high-grade prostatic intraepithelial neoplasia and no evidence of prostate cancer.

medroxyprogesterone: approved small molecule (373 associated side effects) Used as a contraceptive and to treat secondary amenorrhea, abnormal uterine bleeding, pain associated with endometriosis, endometrial and renal cell carcinomas, paraphilia in males, GnRH-dependent forms of precocious puberty, as well as to prevent endometrial changes associated with estrogens.

estrone: approved small molecule (0 associated side effects)

For management of perimenopausal and postmenopausal symptoms.

tamoxifen: approved small molecule (181 associated side effects) For the treatment of breast cancer.

estradiol: approved small molecule (315 associated side effects) For the treatment of urogenital symptoms associated with post-menopausal atrophy of the vagina (such as dryness, burning, pruritus and dyspareunia) and/or the lower urinary tract (urinary urgency and dysuria).

ethynodiol diacetate: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect to use this product as a method of contraception.

clomifene: approved small molecule (0 associated side effects)
Used mainly in female infertility due to anovulation (e.g. due to polycystic ovary syndrome) to induce ovulation.

dienestrol: approved small molecule (0 associated side effects)
For use in the treatment of atrophic vaginitis and kraurosis vulvae.

fulvestrant: approved small molecule (0 associated side effects)
For the treatment of hormone receptor positive metastatic breast cancer in postmenopausal women with disease progression following anti-estrogen therapy.

norgestimate: approved small molecule (0 associated side effects)
For the prevention of pregnancy

ethinyl estradiol: approved small molecule (0 associated side effects)
For treatment of moderate to severe vasomotor symptoms associated with the menopause, female hypogonadism, prostatic carcinoma-palliative therapy of advanced disease, breast cancer, as an oral contraceptive, and as emergency contraceptive.

melatonin: approved, nutraceutical small molecule (0 associated side effects)
Used orally for jet lag, insomnia, shift-work disorder, circadian rhythm disorders in the blind (evidence for efficacy), and benzodiazepine and nicotine withdrawal. Evidence indicates that melatonin is likely effective for treating circadian rhythm sleep disorders in blind children and adults. It has received FDA orphan drug status as an oral medication for this use. A number of studies have shown that melatonin may be effective for treating sleep-wake cycle disturbances in children and adolescents with mental retardation, autism, and other central nervous system disorders. It appears to decrease the time to fall asleep in children with developmental disabilities, such as cerebral palsy, autism, and mental retardation. It may also improve secondary insomnia associated with various sleep-wake cycle disturbances. Other possible uses for which there is some evidence for include: benzodiazepine withdrawal, cluster headache, delayed sleep phase syndrome (DSPS), primary insomnia, jet lag, nicotine withdrawal, preoperative anxiety and sedation, prostate cancer, solid tumors (when combined with IL-2 therapy in certain cancers), sunburn prevention (topical use), tardive dyskinesia, thrombocytopenia associated with cancer, chemotherapy and other disorders.

trilostane: approved, withdrawn small molecule (0 associated side effects)
Used in the treatment of Cushing's syndrome. It is normally used in short-term treatment until permanent therapy is possible.

naloxone: approved small molecule (54 associated side effects)
For the complete or partial reversal of narcotic depression, including respiratory depression, induced by opioids including natural and synthetic narcotics, propoxyphene, methadone and the narcotic-antagonist analgesics: nalbuphine, pentazocine and butorphanol.

fluoxymesterone: illicit, approved small molecule (35 associated side effects)
In males, used as replacement therapy in conditions associated with symptoms of deficiency or absence of endogenous testosterone. In females, for palliation of androgenresponsive recurrent mammary cancer in women who are more than one year but less than five years postmenopausal.

estramustine: approved small molecule (71 associated side effects) For the palliative treatment of patients with metastatic and/or progressive carcinoma of the prostate

mestranol: approved small molecule (0 associated side effects)
Mestranol was used as one of the first oral contraceptives.

danazol: approved small molecule (89 associated side effects)
For the treatment of endometriosis and fibrocystic breast disease (in patients unresponsive to simple measures). Also used for the prophylactic treatment of all types of hereditary angioedema in males and females.

allylestrenol: approved small molecule (0 associated side effects)
Allylestrenol was designed to be used for miscarriage prevention, prevention of premature labour and has been investigated for possible use in men for treatment for benign prostatic hyperplasia.

genistein: experimental small molecule (0 associated side effects)

compound 19: experimental small molecule (0 associated side effects)

compound 18: experimental small molecule (0 associated side effects)

compound 4-d: experimental small molecule (0 associated side effects)

1-[4-(octahydro-pyrido[1,2-a]pyrazin-2-yl)-phenyl]-2-phenyl-1,2,3,4-tetrahydro-isoquinolin-6-ol: experimental small molecule (0 associated side effects)

2-phenyl-1-[4-(2-piperidin-1-yl-ethoxy)-phenyl]-1,2,3,4-tetrahydro-isoquinolin-6-ol: experimental small molecule (0 associated side effects)

estriol: approved small molecule (0 associated side effects)
Used as a test to determine the general health of an unborn fetus.

estropipate: approved small molecule (0 associated side effects)
Estropipate is used for the treatment of moderate to severe vasomotor symptoms associated with the menopause, and moderate to severe symptoms of vulval and vaginal atrophy associated with the menopause. It is also used to treat hypoestrogenism due to hypogonadism, castration or primary ovarian failure, and prevent postmenopausal osteoporosis.

quinestrol: approved small molecule (0 associated side effects)
Used in hormone replacement therapy, treating symptoms of menopause such as hot flashes. Also used to treat breast and prostate cancer.

norelgestromin: approved small molecule (0 associated side effects)
Norelgestromin is used for contraception and menopausal hormonal therapy. Norelgestromin may potentially be used in breast cancer treatment due to its inhibitory effect on estrone sulfatase. They convert sulfated steroid precursors to estrogen during pregnancy.

17-methyl-17-alpha-dihydroequilenin: experimental small molecule (0 associated side effects)

4-(2-amino-1-methyl-1h-imidazo[4,5-b]pyridin-6-yl)phenol: experimental small molecule (0 associated side effects)

[5-hydroxy-2-(4-hydroxyphenyl)-1-benzofuran-7-yl]acetonitrile: experimental small molecule (0 associated side effects)

4-[(1s,2s,5s)-5-(hydroxymethyl)-8-methyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

4-[(1s,2s,5s,9r)-5-(hydroxymethyl)-8,9-dimethyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

4-[(1s,2s,5s)-5-(hydroxymethyl)-6,8,9-trimethyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

(2r,3r,4s)-3-(4-hydroxyphenyl)-4-methyl-2-[4-(2-pyrrolidin-1-ylethoxy)phenyl]chroman-6-ol: experimental small molecule (0 associated side effects)

(3as,4r,9br)-2,2-difluoro-4-(4-hydroxyphenyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-8-ol: experimental small molecule (0 associated side effects)

(9alpha,13beta,17beta)-2-[(1z)-but-1-en-1-yl]estra-1,3,5(10)-triene-3,17-diol: experimental small molecule (0 associated side effects)

(9beta,11alpha,13alpha,14beta,17alpha)-11-(methoxymethyl)estra-1(10),2,4-triene-3,17-diol: experimental small molecule (0 associated side effects)

3-chloro-2-(4-hydroxyphenyl)-2h-indazol-5-ol: experimental small molecule (0 associated side effects)

3-ethyl-2-(4-hydroxyphenyl)-2h-indazol-5-ol: experimental small molecule (0 associated side effects)

dimethyl (1r,4s)-5,6-bis(4-hydroxyphenyl)-7-oxabicyclo[2.2.1]hept-2,5-diene-2,3-dicarboxylate: experimental small molecule (0 associated side effects)

(3as,4r,9br)-4-(4-hydroxyphenyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-8-ol: experimental small molecule (0 associated side effects)

n-[(1r)-3-(4-hydroxyphenyl)-1-methylpropyl]-2-(2-phenyl-1h-indol-3-yl)acetamide: experimental small molecule (0 associated side effects)

(3as,4r,9br)-4-(4-hydroxyphenyl)-6-(methoxymethyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-8-ol: experimental small molecule (0 associated side effects)

4-[1-allyl-7-(trifluoromethyl)-1h-indazol-3-yl]benzene-1,3-diol: experimental small molecule (0 associated side effects)

4-(6-hydroxy-1h-indazol-3-yl)benzene-1,3-diol: experimental small molecule (0 associated side effects)

diethyl (1r,2s,3r,4s)-5,6-bis(4-hydroxyphenyl)-7-oxabicyclo[2.2.1]hept-5-ene-2,3-dicarboxylate: experimental small molecule (0 associated side effects)

2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine: experimental small molecule (0 associated side effects)

4-[(1s,2r,5s)-4,4,8-trimethyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

(3as,4r,9br)-4-(4-hydroxyphenyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-9-ol: experimental small molecule (0 associated side effects)

raloxifene core: experimental small molecule (0 associated side effects)

733 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal mass Abdominal pain Abdominal pain lower
Abdominal pain upper Abortion missed Abortion spontaneous
Abscess Abscess sterile Acne Acute coronary syndrome
Acute leukaemia Acute psychosis Acute respiratory distress
syndrome Acute tonsillitis
Adenocarcinoma Adenoma benign
Adrenal disorder Affect lability Aggression Agitation
Alanine aminotransferase increased
Albright's disease
Alcohol poisoning
Alopecia Amenorrhoea Amnesia Anaemia
Anal pruritus Analgesic therapy
Anaphylactic shock
Anaphylactoid reaction Androgenetic alopecia Anencephaly
Angina pectoris Angioedema Angiopathy Anorectal discomfort
Anorectal disorder Anorgasmia Anosmia Anovulatory cycle
Antepartum haemorrhage Anxiety Aortic dissection
Appendicitis Application site reaction Arrhythmia
Arterial thrombosis Arthralgia Arthritis Arthropathy
Artificial menopause Aspartate aminotransferase increased
Assisted fertilisation Asthenia Asthma Ataxia
Atrophy Attention deficit/hyperactivity disorder
Autonomic neuropathy Azoospermia
Back pain Bacterial
infection Balance disorder Basal cell carcinoma Becker's muscular
dystrophy Benign breast neoplasm Benign hydatidiform mole
Benign intracranial hypertension Benign neoplasm Benign
vaginal neoplasm Bladder cancer Bladder disorder Bladder pain
Blepharitis Blighted ovum Blindness Blister Blood
alkaline phosphatase increased Blood bilirubin increased Blood
cholesterol increased Blood creatinine increased Blood disorder
Blood glucose decreased Blood glucose increased Blood
insulin increased
Blood oestrogen decreased Blood pressure
increased Blood testosterone decreased
Blood triglycerides
increased Blood urine Blood urine present Body temperature
increased Bone cancer metastatic Bone disorder Bone pain
Bradycardia
Breast cancer Breast cancer in situ Breast
cancer male
Breast cancer stage IV Breast discharge Breast discomfort
Breast disorder Breast disorder male Breast engorgement
Breast enlargement Breast feeding Breast malformation
Breast mass Breast neoplasm Breast pain Breast swelling
Breast tenderness
Bromosulphthalein test abnormal Bronchitis
Bronchospasm Cachexia Candidiasis Carbohydrate tolerance
decreased Cardiac arrest Cardiac disorder Cardiac failure
Cardiac failure congestive Cardiac fibrillation Cardiac
septal defect Cardiovascular disorder Carpal tunnel syndrome
Cataract Cerebral artery thrombosis Cerebral haemorrhage
Cerebral infarction Cerebral ischaemia Cerebral
thrombosis Cerebral venous thrombosis Cerebrovascular accident
Cerebrovascular disorder Cervical discharge Cervical
dysplasia Cervicitis Cervix carcinoma Cervix disorder Chapped
lips Chest pain Chills Chloasma Choking Cholangitis
Cholecystitis Cholelithiasis Cholestasis Chorea Cleft
lip Cleft palate Cold sweat Colitis ischaemic
Colorectal cancer
Coma Coma hepatic Confusional state
Congenital anomaly
Congenital diaphragmatic hernia Congenital megacolon
Conjunctivitis Connective tissue disorder Constipation

Contact lens intolerance Convulsion Coordination abnormal
 Corneal opacity Coronary artery disease Coronary artery
 thrombosis Cough Crying Cushingoid Cutaneous lupus
 erythematosus Cystitis Cystitis noninfective Death Decreased
 appetite Deep vein thrombosis Deformity Dementia Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Dermatitis Dermatitis bullous Dermatitis
 contact Developmental delay Diabetes mellitus Diaphragmatic
 hernia Diarrhoea Diplopia Discomfort Disease progression
 Disorientation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Drug dependence Drug
 interaction Dry eye Dry mouth Dry skin Dysarthria Dysgeusia
 Dysmenorrhoea Dyspareunia Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysplasia Dyspnoea Dysuria Ear disorder
 Ear infection Ear malformation Ear pain Eating disorder
 Ecchymosis Ectopic pregnancy Ectropion of cervix Eczema
 Electrocardiogram QT prolonged Electrolyte imbalance
 Embolism Embolism venous Emotional disorder Emotional
 distress Encephalopathy Endocrine disorder Endometrial
 cancer Endometrial disorder Endometrial hypertrophy
 Endometriosis Endometritis Enlarged clitoris
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Eye disorder Eye infection Eye pain Eyelid oedema
 Eyelid ptosis Face oedema Family stress Fasting
 Fatigue Febrile neutropenia Feeling abnormal Feeling
 drunk Fibroadenoma of breast Fibrocystic breast disease Fistula
 Flatulence Fluid retention Flushing Foetal disorder
 Foetor hepaticus Folliculitis Fungal infection Gait
 disturbance Galactorrhoea Gallbladder disorder Gastric disorder
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Genital disorder female Genital infection Genital
 ulceration Gingival bleeding Glaucoma Glucose tolerance decreased
 Glucose tolerance impaired Goitre Grand mal convulsion
 Growth retardation Gynaecomastia Haemangioma Haematoma
 Haematuria Haemoglobin decreased Haemolytic anaemia
 Haemoptysis Haemorrhage Haemorrhagic disorder Haemorrhoids
 Hallucination Headache Heart disease congenital Heart
 rate irregular Hemiparesis Hepatic adenoma Hepatic cyst
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatic neoplasm Hepatic steatosis
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary angioedema Hereditary
 disorder Hernia Herpes simplex Herpes virus infection
 Herpes zoster High density lipoprotein decreased Hirsutism
 Hormone level abnormal Hot flush Hydrocephalus Hydrops
 foetalis Hyperaemia Hyperaesthesia Hypercalcaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperinsulinism Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hypersensitivity Hypertension
 Hyperthyroidism Hypertonia Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperventilation

Hypoaesthesia Hypocalcaemia Hypochromic anaemia
 Hypoglycaemia Hypokalaemia Hypomenorrhoea
 Hypopituitarism Hypospadias Hypotension Hypothyroidism
 Hypoxia IIIrd nerve paralysis Ichthyosis acquired Ill-
 defined disorder Immune system disorder Incontinence Increased
 appetite Increased tendency to bruise Infarction Infection
 Infestation Influenza Influenza like illness Injection site
 atrophy Injection site pain Injection site reaction
 Insomnia Interstitial lung disease Intestinal infarction
 Intestinal obstruction Intracranial pressure increased
 Irritability Ischaemia Ischaemic neuropathy Ischaemic
 stroke Jaundice Jaundice cholestatic Jaundice neonatal Joint
 swelling Keratopathy Laboratory test abnormal Lacrimal disorder
 Lacrimation increased Laryngeal oedema Laryngitis
 Laryngospasm Leiomyoma Lens disorder Lethargy
 Leukaemia Leukocytosis Leukopenia Libido decreased
 Libido increased Limb deformity Liver disorder Liver
 function test abnormal Loss of consciousness Loss of libido
 Lymphadenopathy Lymphatic disorder Lymphoedema Macular
 degeneration Macular oedema Malaise Malignant melanoma
 Mammogram abnormal Mantle cell lymphoma Mass Mastitis
 Mediastinal disorder Medical device complication Megacolon
 Melanocytic naevus Memory impairment Meningioma benign
 Menometrorrhagia Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation delayed Menstruation
 irregular Mental disability Mental disorder Metastasis Metastatic
 neoplasm Metrorrhagia Microcephaly Microsomia Migraine
 Mood swings Mouth ulceration Muscle contractions involuntary
 Muscle rigidity Muscle spasms Muscle twitching Muscular
 weakness Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myocardial infarction Myocardial ischaemia Myoclonus
 Myopathy Nail disorder Nasal congestion Nasopharyngitis
 Nausea Neck pain Necrosis Neoplasm Neoplasm
 malignant Nephritis Nephrolithiasis Nephrotic syndrome
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neurofibroma Neuropathy peripheral Neutropenia Night
 sweats Nipple pain Nocturia Nodule Nuchal rigidity
 Obstruction Oedema Oedema genital Oedema peripheral
 Oesophageal atresia Oesophageal disorder Oestrogen
 deficiency Oestrogenic effect Oligomenorrhoea Optic ischaemic
 neuropathy Optic nerve disorder Optic neuritis Oropharyngeal
 blistering Oropharyngeal discomfort Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Osteonecrosis
 Osteoporosis Osteoporotic fracture Otitis media
 Ovarian cancer Ovarian cyst Ovarian disorder Ovarian
 failure Ovarian hyperstimulation syndrome Pain in extremity
 Palpitations Pancreatic disorder Pancreatitis
 Pancreatitis acute Pancytopenia Papilloedema
 Papilloma Paraesthesia Paralysis Paranoia Paresis
 Patent ductus arteriosus Pathological fracture Peliosis
 hepatis Pelvic pain Pemphigoid Pericarditis Perineal pain
 Personality disorder Pharyngitis Phlebitis Phlebitis
 superficial Photosensitivity reaction Pigmentation disorder
 Piloerection Platelet count decreased Pleural disorder

Pleural infection Pneumonia Pollakiuria Polycythaemia
Polydactyly Polydipsia Polyhydramnios Polymenorrhoea Polyp
Polyuria Porphyria Porphyria acute Porphyria non-acute
Postmenopausal haemorrhage Precocious puberty Premature
baby Premature menopause Premenstrual syndrome Priapism
Protein urine present Proteinuria Prurigo Pruritus
generalised Pruritus genital Psychotic disorder Puberty
Pulmonary embolism Pulmonary function test decreased
Pulmonary oedema Purpura Rash erythematous Rash generalised
Rectal haemorrhage Renal cancer Renal infarct Renal
neoplasm Reproductive tract disorder Respiratory depression
Respiratory disorder Respiratory distress Respiratory tract
infection Retinal disorder Retinal vein occlusion Retinal vein
thrombosis Rhinitis Rhinorrhoea Salivary gland enlargement
Salpingitis Sarcoma uterus Sciatica Scleroderma Seborrhoeic
dermatitis Sedation Sensory loss Sepsis Shock Sickle cell
anaemia with crisis Single umbilical artery Sinus congestion
Sinus headache Sinusitis Skin discolouration Skin
disorder Skin exfoliation Skin haemorrhage Skin hypertrophy Skin
irritation Skin odour abnormal Skin papilloma Skin tightness
Skin ulcer Skull malformation Sleep disorder Smear
cervix abnormal Sneezing Social avoidant behaviour Soft tissue
disorder Somnolence Speech disorder Spina bifida Splenic
infarction Squamous cell carcinoma Sticky skin Stillbirth
Stomatitis Stupor Subcutaneous nodule Sudden infant
death syndrome Suicidal ideation Supraventricular tachycardia
Swelling Swollen tongue Syncope Systemic lupus
erythematosus Tachycardia Talipes Tearfulness Tenderness
Tendon disorder Tendonitis Tension Tension headache
Thirst Throat irritation Throat tightness Thrombocytopenia
Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
superficial Thrombosis Thrombotic thrombocytopenic purpura
Thyroiditis Tinnitus Tonsillitis Tooth abscess Tooth
disorder Toothache Toxic epidermal necrolysis Toxic shock
syndrome Tracheo-oesophageal fistula Transaminases increased
Transient ischaemic attack Tremor Trisomy 21
Tubulointerstitial nephritis Tumour flare Tumour pain Ulcer
Upper respiratory tract infection Urethral disorder Urinary
incontinence Urinary retention Urinary tract disorder Urinary
tract infection Urine output increased Urticaria Uterine cancer
Uterine cervical erosion Uterine cyst Uterine disorder
Uterine enlargement Uterine haemorrhage Uterine leiomyoma
Uterine pain Uterine perforation Uterine polyp
Uterine spasm Uterovaginal prolapse VIIIth nerve paralysis
Vaginal cyst Vaginal discharge Vaginal disorder Vaginal
dysplasia Vaginal haemorrhage Vaginal infection Vaginal
inflammation Vaginal neoplasm Vaginal ulceration Vaginismus
Vaginitis bacterial Varicose vein Vascular purpura
Vasculitis Vasodilation procedure Vein pain Venous occlusion
Venous thrombosis Ventricular fibrillation Ventricular
septal defect Ventricular tachycardia Vertigo Viral
infection Virilism Vision blurred Visual acuity reduced
Visual impairment Vomiting Vulval abscess Vulval disorder
Vulvovaginal candidiasis Vulvovaginal discomfort
Vulvovaginal dryness Vulvovaginal mycotic infection

Vulvovaginal pain Vulvovaginal pruritus Vulvovaginitis
Weight decreased Weight increased Wheezing Withdrawal bleed
Withdrawal syndrome Xerophthalmia Yawning

Cation-independent mannose-6-phosphate receptor - Group: Receptor
Treated with:

mecasermin: approved biotech (0 associated side effects) For the long-term treatment of growth failure in pediatric patients with Primary IGFD or with GH gene deletion who have developed neutralizing antibodies to GH. It is not indicated to treat Secondary IGFD resulting from GH deficiency, malnutrition, hypothyroidism or other causes; it is not a substitute for GH therapy.

alpha-d-mannose-6-phosphate: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Sodium-dependent serotonin transporter - Group: Transporter
Treated with:

fluvoxamine: approved small molecule (363 associated side effects) For management of depression and for Obsessive Compulsive Disorder (OCD). Has also been used in the management of bulimia nervosa.

phentermine: illicit, approved small molecule (21 associated side effects) For the treatment and management of obesity.

tramadol: approved small molecule (490 associated side effects) Indicated in the treatment of moderate to severe pain. Consider for those prone to constipation or respiratory depression. Tramadol is used to treat postoperative, dental, cancer, and acute musculoskeletal pain and as an adjuvant to NSAID therapy in patients with osteoarthritis.

citalopram: approved small molecule (467 associated side effects) For the treatment of depression. Unlabeled indications include: treatment of mild dementia-associated agitation in nonpsychotic patients, smoking cessation, ethanol abuse, obsessive-compulsive disorder (OCD) in children, and diabetic neuropathy.

venlafaxine: approved small molecule (507 associated side effects) For the management of major depressive disorder (MDD), generalized anxiety disorder (GAD), social anxiety disorder (social phobia), panic disorder with or without agoraphobia, and vasomotor symptoms in women with breast cancer and in postmenopausal women.

atomoxetine: approved small molecule (140 associated side effects) For the treatment of Attention-Deficit/Hyperactivity Disorder (ADHD) alone or in combination with behavioral treatment, as an adjunct to psychological, educational, social, and other remedial measures.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

protriptyline: approved small molecule (92 associated side effects) For the treatment of depression.

methylphenidate: approved small molecule (262 associated side effects) For use as an integral part of a total treatment program which typically includes other remedial measures (psychological, educational, social) for a stabilizing effect in children with a behavioral syndrome characterized by the following group of developmentally inappropriate symptoms: moderate-to-severe distractibility, short attention span, hyperactivity, emotional lability, and impulsivity.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

fluoxetine: approved small molecule (516 associated side effects) Labeled indication include: major depressive disorder (MDD), moderate to severe bulimia nervosa, obsessive-compulsive disorder (OCD), premenstrual dysphoric disorder (PMDD), panic disorder with or without agoraphobia, and combination treatment with olanzapine for treatment-resistant or bipolar I depression. Unlabeled indications include: selective mutism, mild dementia-associated agitation in nonpsychotic patients, post-traumatic stress disorder (PTSD), social anxiety disorder, chronic neuropathic pain, fibromyalgia, and Raynaud's phenomenon.

duloxetine: approved small molecule (269 associated side effects) For the acute and maintenance treatment of major depressive disorder (MDD), as well as acute management of generalized anxiety disorder. Also used for the management of neuropathic pain associated with diabetic peripheral neuropathy, and fibromyalgia. Has been used in the management of moderate to severe stress urinary incontinence (SUI) in women.

dextromethorphan: approved small molecule (0 associated side effects) For treatment and relief of dry cough.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

fenfluramine: illicit, withdrawn small molecule (0 associated side effects) For the management of exogenous obesity as a short-term (a few weeks) adjunct in a regimen of weight reduction based on caloric restriction.

mazindol: approved small molecule (0 associated side effects) Used in short-term (a few weeks) treatment of exogenous obesity in conjunction with a regimen of weight reduction based on caloric restriction, exercise, and behavior modification in patients with a body mass index of 30 kg of body weight per height in meters

squared (kg/m²) or in patients with a body mass index of 27 kg/m²; in the presence of risk factors such as hypertension, diabetes, or hyperlipidemia.

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

minaprine: approved small molecule (0 associated side effects) For the treatment of depression

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic rhinitis, croup, sinusitis, otitis media, and tracheobronchitis. Also used as first-line therapy of priapism.

cocaine: illicit, approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

tegaserod: withdrawn small molecule (125 associated side effects) Provides relief from the symptoms of irritable bowel syndrome including chronic idiopathic constipation.

sertraline: approved small molecule (319 associated side effects) For the management of major depressive disorder, posttraumatic stress disorder, obsessive-compulsive disorder, panic disorder with or without agoraphobia, premenstrual dysphoric disorder, social phobia, premature ejaculation, and vascular headaches.

sibutramine: illicit, approved, withdrawn small molecule (80 associated side effects) For the treatment of obesity.

chlorpheniramine: approved small molecule (47 associated side effects) For the treatment of rhinitis, urticaria, allergy, common cold, asthma and hay fever.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved, withdrawn small molecule (246 associated side effects) For the treatment of depression.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes,

especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

escitalopram: approved small molecule (0 associated side effects) Labeled indications include major depressive disorder (MDD) and generalized anxiety disorder (GAD). Unlabeled indications include treatment of mild dementia-associated agitation in nonpsychotic patients.

dexfenfluramine: illicit, approved, withdrawn small molecule (0 associated side effects) For the management of obesity including weight loss and maintenance of weight loss in patients on a reduced calorie diet

clomipramine: approved small molecule (349 associated side effects)

ephedra: approved, withdrawn, nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

mmda: illicit, experimental small molecule (0 associated side effects) MDMA is a recreational drug. It has no current medical uses and is a Schedule I controlled substance in the USA at present.

3,4-methylenedioxymethamphetamine: illicit, experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

4-methoxyamphetamine: illicit, experimental small molecule (0 associated side effects)

zimeclidine: withdrawn small molecule (0 associated side effects) For the treatment of depression.

amineptine: illicit, withdrawn small molecule (0 associated side effects) For the treatment of depression.

milnacipran: approved small molecule (110 associated side effects) Milnacipran is used to treat moderate to severe clinical depression and chronic pain.

mianserin: approved small molecule (0 associated side effects) For the treatment of depression.

vilazodone: approved small molecule (0 associated side effects) Vilazodone is approved for treatment of acute episodes of major depression. Labeling of vilazodone describes an increased risk of suicidal thoughts in children, adolescents and young adults. The use of vilazodone in pediatrics is not indicated. Its use with monoamine oxidase inhibitors (MAOI) is contraindicated due to increased risk of serotonin syndrome. Once the MAOI is discontinued, a 14-day washout period must pass before starting vilazodone.

desvenlafaxine: approved small molecule (83 associated side effects) Desvenlafaxine is indicated for the treatment of major depressive disorder in adults.

dexmethylphenidate: approved small molecule (262 associated side effects) Dexmethylphenidate is used as a treatment for ADHD, ideally in conjunction with psychological, educational, behavioral or other forms of treatment.

1164 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
 Abdominal pain Abdominal pain lower Abdominal pain upper
 Abdominal tenderness Abnormal behaviour Abnormal dreams
 Abnormal faeces Abortion spontaneous Abscess
 Accommodation disorder Acidosis Acne Acute abdomen Acute
coronary syndrome
 Acute myocardial infarction Acute psychosis
 Adenocarcinoma Adjustment disorder Adverse reaction
 Affect lability Ageusia Aggression Agitation Agoraphobia
 Agranulocytosis Akathisia Akinesia Alanine
aminotransferase decreased Alanine aminotransferase increased
 Albuminuria
 Alcohol abuse Alcohol intolerance Alcohol
poisoning Alopecia Alveolitis allergic Amblyopia Amenorrhoea
 Amnesia Amyotrophic lateral sclerosis Anaemia Anal
pruritus Anaphylactic shock Anaphylactoid reaction Aneurysm
 Anger Angina pectoris Angina unstable Angioedema Angiopathy
 Angle closure glaucoma Anisocytosis Anorectal discomfort
 Anorectal disorder Anorgasmia Anosmia Antidiuretic
hormone abnormality Antinuclear antibody positive Antisocial
behaviour Antisocial personality disorder Anuria Anxiety
 Aortic aneurysm Aortic dissection
 Apathy Aphasia
 Apthous stomatitis Aplasia Aplastic anaemia Apnoea
 Appendicitis Application site reaction Apraxia
 Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arteritis Arthralgia Arthritis Arthropathy
 Asocial behaviour
 Aspartate aminotransferase increased Assisted fertilisation
 Asthenia Asthma Ataxia Atelectasis
 Atrial
fibrillation Atrial flutter Atrioventricular block
 Atrioventricular block complete Atrioventricular block first
degree Atrioventricular dissociation Atrophic
vulvovaginitis Atrophy Auricular swelling Autonomic nervous
system imbalance Autonomic neuropathy Azoospermia
 Azotaemia Back
disorder Back pain Bacteraemia Bacterial infection Balance
disorder Balanitis Balanoposthitis Basophilia Benign breast
neoplasm Benign neoplasm Benign neoplasm of skin Biliary
colic Biliary tract disorder Bipolar I disorder Bipolar disorder
 Bladder dilatation Bladder pain Bleeding time
prolonged Blepharitis Blepharospasm Blindness Blister Blood
alkaline phosphatase increased Blood amylase increased Blood
antidiuretic hormone abnormal Blood bilirubin increased Blood
cholesterol increased Blood creatine phosphokinase increased Blood
creatinine increased Blood disorder Blood glucose abnormal Blood
glucose increased Blood lactate dehydrogenase increased Blood
potassium abnormal Blood potassium decreased Blood potassium
increased Blood pressure diastolic decreased Blood pressure
fluctuation Blood pressure increased Blood prolactin increased
 Blood sodium increased Blood triglycerides increased Blood
urea increased Blood uric acid increased Blood urine
present Blunted affect Body temperature decreased Body
temperature increased Bone disorder Bone pain Bradycardia
 Bradykinesia Brain oedema Breast atrophy Breast
cancer Breast cancer female Breast cyst Breast discharge
 Breast disorder Breast disorder female Breast engorgement
 Breast enlargement Breast feeding Breast neoplasm

Breast pain Breath odour Bronchitis Bronchospasm
 Bruxism Buccoglossal syndrome Bulimia nervosa Bundle
 branch block Bundle branch block right Burning sensation
 Bursitis Cachexia Calculus urinary Candidiasis Capillary
 fragility Cardiac arrest Cardiac death Cardiac disorder
 Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac output
 decreased Cardiac valve disease Cardio-respiratory arrest
 Cardiomyopathy Cardiovascular disorder Carpal tunnel
 syndrome Cataract Catatonia Cellulitis Central nervous system
 neoplasm Cerebral arteritis Cerebral artery embolism
 Cerebral haemorrhage Cerebral ischaemia Cerebrovascular
 accident Cerebrovascular disorder Cerumen impaction Cervical
 dysplasia Cervicitis Cervix disorder Change of bowel habit
 Cheilitis Chest discomfort Chest pain Chills Chloasma
 Cholecystitis Cholelithiasis Cholestasis Cholinergic
 syndrome Chondrodystrophy Chondropathy Choreoathetosis
 Chromatopsia Chronic lymphocytic leukaemia
 Coagulopathy Cognitive disorder Cogwheel rigidity Cold
 sweat Colitis Colitis ischaemic Colitis ulcerative Collagen
 disorder Coma Coma hepatic Completed suicide Confusional state
 Congenital anomaly Congenital eye disorder
 Conjunctival haemorrhage Conjunctival oedema
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal
 Corneal lesion Coronary artery disease Coronary artery
 occlusion Cough Cough decreased Crocodile tears syndrome
 Crying Crystal urine Crystalluria Cyanosis
 Cystitis Cystitis noninfective Cytolytic hepatitis
 Deafness Death Decreased appetite Deep vein thrombosis
 Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depression suicidal Depressive symptom Derealisation
 Dermal cyst Dermatitis atopic Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic ketoacidosis Diarrhoea Diarrhoea
 haemorrhagic Diplopia Discomfort Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Diverticulum Dizziness
 Dizziness postural Drug abuse Drug dependence Drug effect
 decreased Drug eruption Drug interaction Drug level decreased
 Drug level increased Drug withdrawal syndrome Dry eye
 Dry mouth Dry skin Dry throat Duodenal ulcer Duodenitis
 Dysarthria Dysgeusia Dyskinesia Dyslipidaemia
 Dysmenorrhoea Dyspareunia Dyspepsia Dysphagia Dysphonia
 Dysphoria Dysplasia Dyspnoea Dysthymic disorder
 Dystonia Dysuria Ear congestion Ear discomfort Ear
 disorder Ear infection Ear pain Ecchymosis Eclampsia
 Eczema Effusion Ejaculation delayed Ejaculation
 disorder Ejaculation failure Electrocardiogram PR interval
 Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Electrocardiogram ST segment Electrocardiogram abnormal
 Electrocardiogram change Electroencephalogram abnormal
 Elevated mood Embolism Emotional disorder Emphysema

Encephalopathy Endocrine disorder Endometrial disorder
 Endometrial hyperplasia Endometriosis Energy increased
 Enteritis Enuresis Eosinophil count increased
 Eosinophilia Eosinophilic pneumonia Epidermal necrosis
 Epididymitis Epigastric discomfort Epilepsy Epistaxis
 Erectile dysfunction Eructation Erysipelas Erythema
 multiforme Erythema nodosum Euphoric mood Eustachian tube
 disorder Exophthalmos Exostosis Extrapyrarnidal disorder
 Extrasystoles Eye allergy Eye disorder Eye haemorrhage
 Eye infection Eye irritation Eye pain Eye pruritus
 Eyelid disorder Eyelid ptosis Face oedema Faecal
 incontinence Faecalith Faecaloma Faeces discoloured
 Fasciitis Fasting Fat intolerance Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Female sexual dysfunction Fibroadenoma of breast
 Fibrocystic breast disease Fibrosis Flat affect Flatulence
 Fluid retention Flushing Folliculitis Food craving
 Frequent bowel movements Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gastric dilatation Gastric
 disorder Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal carcinoma Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal tract irritation Gastrointestinal ulcer
 Gastrooesophageal reflux disease Generalised oedema
 Genital discharge Genital disorder female Genital disorder
 male Genital haemorrhage Genital pain Gingival bleeding
 Gingival hyperplasia Gingival recession Gingivitis
 Glaucoma Globulins increased Glomerulonephritis
 membranous Glossitis Glucose tolerance impaired Glycosuria
 Goitre Gout Grand mal convulsion Granuloma
 Gravitational oedema Groin pain Growth retardation
 Gynaecomastia Haematemesis Haematochezia Haematocrit
 decreased Haematocrit increased Haematoma Haemospermia
 Haematuria Haemochromatosis Haemoglobin decreased Haemoglobin
 increased Haemoglobinuria Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhagic disorder Haemorrhoids Hair colour
 changes Hair disorder Hair texture abnormal Hallucination
 Hallucination, auditory Hallucination, tactile
 Hallucination, visual Hangover Headache Hearing impaired
 Heart rate irregular Heat rash Helicobacter infection
 Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic steatosis Hepatitis Hepatitis fulminant
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hepatosplenomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups High density
 lipoprotein decreased Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hydrocephalus
 Hyperacusis Hyperaemia Hyperaesthesia Hyperbilirubinaemia
 Hypercalcaemia Hypercalciuria Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkeratosis Hyperkinesia

Hyperlipidaemia Hypermagnesaemia Hyperpathia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hypertensive crisis Hyperthermia
 Hyperthyroidism Hypertonia Hypertrichosis
 Hypertriglyceridaemia Hypertrophic cardiomyopathy Hypertrophy
 Hyperuricaemia Hyperventilation Hypervigilance Hyphaema
 Hypnagogic hallucination Hypoaesthesia Hypoaesthesia
 oral Hypocalcaemia Hypocholesterolaemia Hypochondriasis
 Hypochromic anaemia Hypoglycaemia Hypohidrosis
 Hypokalaemia Hypokinesia Hypomania Hypomenorrhoea
 Hyponatraemia Hypophosphataemia Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypouricaemia Hypoventilation Hypovolaemia
 Hypoxia IIIrd nerve paralysis Idiopathic thrombocytopenic
 purpura Ileitis Ileus Ileus paralytic Ill-defined disorder
 Illusion Immune system disorder Immunoglobulins increased
 Impaired gastric emptying Impaired healing Inappropriate
 antidiuretic hormone secretion Incontinence Increased
 appetite Increased bronchial secretion Increased tendency to
 bruise Induration Infarction Infection Infection
 susceptibility increased Infertility female Infestation
 Inflammation Influenza Influenza like illness Ingrowing
 nail Initial insomnia Inner ear disorder Insomnia
 Intermittent claudication International normalised ratio
 increased Interstitial lung disease Intestinal functional
 disorder Intestinal ischaemia Intestinal obstruction Intra-
 uterine death Intraocular pressure increased Iritis Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Jaundice Jaundice cholestatic Joint
 crepitation Joint range of motion decreased Joint stiffness Joint
 swelling Keratitis Ketosis Labyrinthitis Lacrimal disorder
 Lacrimation decreased Lacrimation increased Large intestinal
 haemorrhage Laryngeal disorder Laryngeal oedema Laryngitis
 Laryngospasm Leiomyoma Lethargy Leukaemia Leukaemoid
 reaction Leukocytoclastic vasculitis Leukocytosis Leukoderma
 Leukopenia Libido decreased Libido increased Lichenoid
 keratosis Lip blister Lip dry Lipoma Liver disorder Liver
 function test abnormal Liver injury Liver tenderness Local
 reaction Localised infection Loss of consciousness Loss of
 libido Low density lipoprotein increased Lower respiratory
 tract infection Lung adenocarcinoma stage I Lung disorder
 Lymphadenitis Lymphadenopathy Lymphocyte count abnormal
 Lymphocyte count decreased Lymphocyte count increased
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
 Lymphopenia Macular degeneration Macule Maculopathy Major
 depression Malaise Male sexual dysfunction Malignant
 melanoma Mammogram abnormal Mania Mastitis Mediastinal
 disorder Melaena Melanosis Memory impairment Meningitis
 Menometrorrhagia Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation delayed Menstruation
 irregular Mental disability Mental disorder Mental retardation
 Mental status changes Methaemoglobinaemia Metrorrhagia
 Microcytic anaemia Micturition disorder Micturition
 urgency Middle insomnia Migraine Miosis Mitral valve

disease Monocyte count increased Monocytosis Mood swings
Motion sickness Mouth ulceration Movement disorder Mucous
membrane disorder Multiple myeloma Muscle contractions involuntary
Muscle contracture Muscle fatigue Muscle haemorrhage
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle spasticity Muscle tightness Muscle twitching Muscular
weakness Musculoskeletal chest pain Musculoskeletal discomfort
Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Mutism Myalgia Mydriasis
Myelitis Myocardial infarction Myocardial ischaemia
Myoclonus Myopathy Myositis Nail discolouration Nail
disorder Nasal congestion Nasal oedema Nasopharyngitis
Nausea Neck pain Necrosis Negativism Neoplasm
Neoplasm malignant Nephritis Nephrolithiasis Nephropathy
Nervous system disorder Nervousness Neuralgia Neuritis
Neuroleptic malignant syndrome Neuropathy peripheral
Neurosis Neutropenia Neutrophil count decreased Neutrophil
count increased Night blindness Night sweats Nightmare
Nocturia Nodal arrhythmia Nodule Normochromic
normocytic anaemia Nuchal rigidity Nystagmus Obesity
Obstruction Obstructive airways disorder Ocular hyperaemia
Oculogyric crisis Oedema peripheral Oesophageal achalasia
Oesophageal disorder Oesophageal spasm Oesophageal stenosis
Oesophageal ulcer Oesophagitis Oligomenorrhoea Oliguria
Onychoclasia Onychomycosis Optic neuritis Oral
candidiasis Oral pain Orchitis noninfective Orgasm abnormal
Oropharyngeal discomfort Oropharyngeal pain Orthostatic
hypotension Osteoarthritis Osteoarthropathy Osteomyelitis
Osteonecrosis Osteopenia Osteoporosis Osteosclerosis
Otitis externa Otitis media Ovarian cyst Ovarian
disorder Pain Pain in extremity Pain in jaw Pallor
Palpitations Pancreatitis Pancreatitis acute
Pancytopenia Panic attack Panic reaction
Papilloedema Papule Paraesthesia Paraesthesia oral
Paralysis Paranoia Paresis Parity Parosmia
Parotid gland enlargement Parotitis Pathological fracture
Pelvic inflammatory disease Pelvic pain Penis disorder
Peptic ulcer Pericarditis Perineal pain
Periodontitis Periorbital oedema Peripheral coldness
Peripheral ischaemia Peripheral vascular disorder Peritonitis
Peroneal nerve palsy Personality change Personality
disorder Petechiae Pharyngeal disorder Pharyngeal oedema
Pharyngitis Pharyngitis streptococcal Phlebitis Phobia
Photophobia Photopsia Photosensitivity reaction
Piloerection Plantar fasciitis Plasmacytoma Platelet
count decreased Pleural disorder Pleural effusion Pleurisy
Pneumonia Pneumothorax Poisoning Pollakiuria
Polyarteritis nodosa Polycythaemia vera Polymenorrhoea
Polyp Polyuria Poor peripheral circulation Porphyria
Postmenopausal haemorrhage Postpartum disorder Pregnancy
Premature baby Premature delivery Premature ejaculation
Premenstrual syndrome Pressure of speech Presyncope
Priapism Proctalgia Proctitis Productive cough Prostate
cancer Prostatic disorder Prostatitis Prostatomegaly
Protein total decreased Protein urine present Proteinuria

Prothrombin level decreased Prothrombin level increased
 Prothrombin time shortened Protrusion tongue Prurigo
 Pruritus Pruritus generalised Pruritus genital Psoriasis
 Psychomotor retardation Psychosomatic disease Psychotic
 disorder Pulmonary arterial hypertension Pulmonary congestion
 Pulmonary embolism Pulmonary eosinophilia Pulmonary
 fibrosis Pulmonary function test decreased Pulmonary hypertension
 Pulmonary infarction Pulmonary oedema Pupils unequal
 Purpura Pyelonephritis Pyuria Quadripareisis Rales
 Rash Rash erythematous Rash follicular Rash macular Rash
 maculo-papular Rash pustular Raynaud's phenomenon Rectal
 haemorrhage Rectal prolapse Rectal tenesmus Red blood cell
 abnormality Red blood cell count decreased Red blood cell count
 increased Red blood cell sedimentation rate increased Reflux
 oesophagitis Renal cyst Renal failure acute Renal impairment
 Renal pain Reproductive tract disorder Respiratory depression
 Respiratory disorder Respiratory distress Respiratory
 failure Respiratory rate decreased Respiratory tract congestion
 Respiratory tract infection Respiratory tract infection viral
 Restless legs syndrome Retching Retinal detachment
 Retinal disorder Retinal haemorrhage Retrograde ejaculation
 Reversible ischaemic neurological deficit Rhabdomyolysis
 Rheumatoid arthritis Rhinitis Rhinitis allergic Rhinitis
 seasonal Rhinorrhoea Rhonchi Riley-Day syndrome Rosacea
 Salivary gland enlargement Salivary hypersecretion
 Salpingitis Scab Schizophrenia Schizophreniform disorder
 Scleral haemorrhage Scleritis Scotoma Screaming
 Scrotal pain Seasonal allergy Seborrhoeic dermatitis
 Sedation Sensation of foreign body Sensation of heaviness
 Sensitisation Sensory disturbance Sensory loss
 Sepsis Serum sickness Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sinus arrest Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus headache Sinus
 tachycardia Sinusitis Skin atrophy Skin discolouration Skin
 disorder Skin exfoliation Skin hyperpigmentation Skin hypertrophy
 Skin irritation Skin mass Skin odour abnormal Skin striae
 Skin ulcer Sleep apnoea syndrome Sleep disorder Sleep
 paralysis Sluggishness Small intestinal obstruction Sneezing
 Social avoidant behaviour Somnambulism Somnolence
 Speech disorder Sphincter of Oddi dysfunction Sputum
 increased Status epilepticus Stevens-Johnson syndrome
 Sticky skin Stomach dilation procedure Stomatitis Strabismus
 Strangury Stridor Stupor Subileus Sudden cardiac
 death Sudden death Suicidal behaviour Suicidal ideation
 Suicide attempt Supraventricular extrasystoles
 Supraventricular tachycardia Surgery Swelling Syncope
 Synovial cyst Systemic lupus erythematosus Tachycardia
 Tardive dyskinesia Tearfulness Tenderness Tendinosis
 contracture Tendon disorder Tendonitis Tenosynovitis Tension
 Tension headache Teratogenicity Terminal insomnia Testicular
 disorder Testicular pain Testicular swelling Tetany
 Therapeutic response decreased Thinking abnormal Thirst
 Throat irritation Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Thyroiditis Tic Tinea pedis

Tinnitus Tongue discolouration Tongue disorder Tongue
 oedema Tongue ulceration Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Tooth malformation Toothache
 Torsade de pointes Torticollis Toxic epidermal necrolysis
 Tracheal disorder Tracheitis Transaminases increased
 Transient ischaemic attack Tremor Trismus Ulcer
 haemorrhage Ulcerative keratitis Unintended pregnancy Upper
 respiratory tract infection Urethral disorder Urethral pain
 Urethritis Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine flow
 decreased Urine odour abnormal Urine output increased Urogenital
 disorder Urticaria Uterine haemorrhage Uterine inflammation
 Uterine leiomyoma Uterine neoplasm Uterine spasm
 Uterovaginal prolapse Uveitis VIIIth nerve paralysis
 Vaginal cyst Vaginal discharge Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Varicose vein
 Vascular headache Vascular insufficiency Vascular purpura
 Vasculitis Vasculitis necrotising Vasoconstriction
 Vasodilation procedure Vasospasm Venous insufficiency
 Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Vestibular disorder Viral diarrhoea Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vitreous disorder Vomiting Vulval disorder Vulvovaginal
 candidiasis Vulvovaginal dryness Vulvovaginal mycotic infection
 Waxy flexibility Weight decreased Weight increased Wheezing
 White blood cell count abnormal White blood cell count
 increased White blood cell disorder Withdrawal syndrome Wound
 haemorrhage Wound infection Xerophthalmia Yawning

Thyroid hormone receptor, alpha isoform 1 variant - Group: Receptor
 Treated with:
 {4-[4-hydroxy-3-(1-methylethyl)benzyl]-3,5-dimethylphenoxy}acetic
 acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Angiotensin-1 receptor - Group: Enzyme
 Treated with:
 n-{4-methyl-3-[(3-pyrimidin-4-ylpyridin-2-yl)amino]phenyl}-3-
 (trifluoromethyl)benzamide: experimental small molecule (0
 associated side effects)

known side effects mediated through drugs targeting this protein:

Prolactin receptor - Group: Receptor
 Treated with:

somatropin recombinant: approved biotech (0 associated side effects) For treatment of dwarfism, acromegaly and prevention of HIV-induced weight loss
fluoxymesterone: illicit, approved small molecule (35 associated side effects) In males, used as replacement therapy in conditions associated with symptoms of deficiency or absence of endogenous testosterone. In females, for palliation of androgen responsive recurrent mammary cancer in women who are more than one year but less than five years postmenopausal.

35 known side effects mediated through drugs targeting this protein:

Acne Alopecia Amenorrhoea Anaphylactic shock Anaphylactoid reaction
Androgenetic alopecia Anxiety Azoospermia Blood cholesterol increased
Coma Coma hepatic Death Disturbance in sexual arousal
Electrolyte imbalance Enlarged clitoris Gynaecomastia
Haemoglobin Haemorrhage Headache Hirsutism Hypernatraemia
Hypersensitivity Hypertrophy Jaundice Jaundice cholestatic
Libido decreased Menstruation irregular Nausea
Paraesthesia Peliosis hepatis Polycythaemia Purpura
Seborrhoeic dermatitis Vascular purpura Virilism

Voltage-dependent P/Q-type calcium channel subunit alpha-1A - Group: Channel

Treated with:

pregabalin: illicit, approved small molecule (713 associated side effects) For management of neuropathic pain associated with diabetic peripheral neuropathy and postherpetic neuralgia.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

loperamide: approved small molecule (41 associated side effects) For the control and symptomatic relief of acute nonspecific diarrhea and of chronic diarrhea associated with inflammatory bowel disease or gastroenteritis. Also used for reducing the volume of discharge from ileostomies.

bepridil: approved small molecule (0 associated side effects) For the treatment of chronic stable angina (classic effort-associated angina).

741 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Abscess Accommodation disorder
Acidosis Acne Acute coronary syndrome Adenoma benign
Adrenal insufficiency Ageusia Agitation Akathisia Alanine aminotransferase increased
Albuminuria Alcohol intolerance Alcohol poisoning Alopecia Altered state of consciousness
Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic
Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction
Aneurysm Angina pectoris Angioedema Angiopathy
Anorectal discomfort Anorectal disorder Anorgasmia
Anxiety Aortic dissection Aortic valve stenosis Apathy
Aphasia Aphthous stomatitis Apnoea Arachnoiditis
Arrhythmia Arrhythmia supraventricular

Arterial disorder Arterial occlusive disease Arteriosclerosis
 Arthralgia Arthritis Arthropathy Ascites Aspiration
 Asthenia Asthma Ataxia Atelectasis Atrial
 fibrillation Atrioventricular block Atrioventricular block
 complete Atrioventricular block first degree Atrioventricular
 block second degree Atrioventricular dissociation Atrophy
 Autonomic nervous system imbalance Azotaemia Back pain
 Bacterial infection Balance disorder Balanitis Benign
 neoplasm of skin Biliary colic Bladder cancer Bladder neoplasm
 Bladder pain Blepharitis Blindness Blood alkaline
 phosphatase increased Blood amylase increased Blood creatine
 phosphokinase increased Blood creatinine increased Blood
 prolactin increased Blood urea increased Blood uric acid
 increased Body temperature decreased Body temperature increased
 Bone disorder Bone neoplasm Bone pain Bradycardia
 Bradyphrenia Brain oedema Breast abscess Breast
 cancer Breast disorder Breast enlargement Breast feeding
 Breast neoplasm Breast pain Breath odour Bronchiectasis
 Bronchiolitis Bronchitis Bronchospasm Bundle branch
 block Bursitis Calcium metabolism disorder Calculus bladder
 Calculus urinary Candidiasis Capillary fragility increased
 Cardiac arrest Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiomegaly
 Cardiomyopathy Cardiovascular disorder Carotid artery
 occlusion Carotid artery thrombosis Cataract Cellulitis
 Central nervous system neoplasm Cerebellar syndrome
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cervix disorder Cervix neoplasm Cheilitis Chest
 pain Chills Cholecystitis Cholelithiasis Cholestasis
 Chondrodystrophy Chronic leukaemia Coagulopathy Cogwheel
 rigidity Colitis ulcerative Colour blindness Coma Completed
 suicide Confusional state Congenital anomaly Congenital
 arterial malformation Congenital cystic kidney disease Congenital
 genitourinary abnormality Congenital musculoskeletal anomaly
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coordination abnormal Cor pulmonale Corneal
 lesion Corneal opacity Coronary artery disease Coronary
 artery occlusion Cough Creatinine renal clearance decreased
 Crystal urine Crystalluria Cyanosis Cyst Cystitis
 Cystitis noninfective Deafness Death Decreased appetite
 Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depressive
 symptom Dermatitis Dermatitis bullous Dermatitis exfoliative
 Developmental delay Diabetes mellitus Diabetic neuropathy
 Diarrhoea Diarrhoea haemorrhagic Diplopia Discomfort
 Disorientation Dissociation Disturbance in attention
 Disturbance in sexual arousal Dizziness Drug abuse Drug
 dependence Drug effect increased Drug level decreased Drug level
 increased Dry eye Dry mouth Dry skin Duodenal ulcer
 Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspareunia
 Dyspepsia Dysphagia Dysphonia Dyspnoea Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eczema Effusion Ejaculation disorder

Electrocardiogram QT prolonged Electrocardiogram QT
 shortened Electrocardiogram ST segment depression Electrocardiogram
 ST segment elevation Electrocardiogram T wave inversion
 Electrocardiogram abnormal Embolism Emphysema
 Encephalopathy Endocarditis Endometrial cancer
 Endometrial disorder Enteritis Enterocolitis Enzyme
 abnormality Eosinophilia Epididymitis Epilepsy Epistaxis
 Erectile dysfunction Eructation Erythema multiforme
 Euphoric mood Exophthalmos Extrapyrmidal disorder
 Extrasystoles Eye disorder Eye haemorrhage Eye pain
 Eyelid oedema Eyelid ptosis Face oedema Faecal
 incontinence Faecalith Faecaloma Fatigue Feeling abnormal
 Feeling cold Feeling drunk Fibrocystic breast disease
 Fibrosis Flat affect Flatulence Fluid retention Flushing
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric atony Gastric disorder Gastric ulcer
 haemorrhage Gastritis Gastritis haemorrhagic Gastroenteritis
 Gastrointestinal carcinoma Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal pain Generalised
 oedema Genital discharge Genitourinary tract neoplasm Gingival
 bleeding Gingival hyperplasia Gingivitis Glaucoma Globulins
 increased Glomerulonephritis Glossitis Glucose tolerance
 decreased Glycosuria Goitre Gout Grand mal convulsion
 Granuloma Guillain-Barre syndrome Gynaecomastia
 Haematemesis Haematuria Haemoglobin Haemoptysis Haemorrhage
 intracranial Hair disorder Hallucination Hangover
 Headache Heat rash Hemiplegia Hepatic enzyme increased
 Hepatic neoplasm malignant Hepatic steatosis Hepatitis
 Hepatomegaly Hernia Herpes simplex Herpes virus
 infection Herpes zoster Hiccups Hirsutism Hormone level
 abnormal Hostility Hydronephrosis Hyperacusis Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hypercalciuria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypernatraemia Hyperpathia Hyperplasia
 Hyperprolactinaemia Hyperreflexia Hypersensitivity
 Hypertension Hyperthyroidism Hypertonia Hypertrophic
 cardiomyopathy Hypertrophy Hyperuricaemia Hyperventilation
 Hypoaesthesia Hypocalcaemia Hypochloraemia Hypochromic
 anaemia Hypoglycaemia Hypohidrosis Hypokalaemia
 Hypokinesia Hypomagnesaemia Hypomenorrhoea Hyponatraemia
 Hypophosphataemia Hypoproteinaemia Hyporeflexia Hypotension
 Hypothermia Hypothyroidism Hypotonia Hypoventilation
 Hypovitaminosis Hypoxia Iliac nerve paralysis Ichthyosis
 acquired Ileus paralytic Ill-defined disorder Immune system
 disorder Immunoglobulins increased Impaired gastric emptying
 Impaired healing Incontinence Increased appetite
 Increased bronchial secretion Infarction Infection
 Infestation Influenza Injection site haemorrhage Injection
 site pain Injection site reaction Insomnia Intermittent
 claudication Intestinal obstruction Intestinal perforation
 Intestinal stenosis Intestinal ulcer Intracranial aneurysm
 Intracranial pressure increased Iritis Iron deficiency
 Iron deficiency anaemia Ischaemia Jaundice Jaundice

cholestatic Joint swelling Keratitis Ketosis Laboratory test
abnormal Lacrimal disorderLacrimation increased Lactic acidosis
Laryngeal neoplasm Laryngitis Laryngospasm Left
ventricular failure Leiomyoma Lethargy Leukaemia Leukaemoid
reaction Leukocytosis Leukoderma Leukopenia Leukoplakia oral
Libido decreased Libido increased Lichenoid keratosis Liver
function test abnormal Liver tenderness Loss of consciousness Lung
disorder Lung neoplasm malignant Lymphadenopathy
Lymphangitis Lymphocytosis Lymphoedema Lymphoma
Macule MaculopathyMajor depression Malaise Malignant
melanoma Mania Mastitis Mediastinal disorder Megacolon
Melaena Melanosis Memory impairmentMeningitis Menopause
MenorrhagiaMenstrual disorder Mental disabilityMental
disorder Metrorrhagia Micturition urgency Migraine
Miosis Mouth ulceration Movement disorderMucous membrane
disorder Multiple sclerosis Muscle atrophy Muscle
contracture Muscle fatigue Muscle relaxant therapy Muscle
rigidity Muscle spasms Muscle twitching Muscular weakness
Musculoskeletal discomfort Musculoskeletal stiffness
Myalgia Mydriasis Myelitis Myelofibrosis Myeloid
metaplasia Myocardial infarction Myocardial ischaemia Myoclonus
Myopathy Myositis Nail disorder Nasal septum disorder
Nausea Neck pain Necrosis Neoplasm Neoplasm
malignant Neoplasm prostateNephritis Nephrolithiasis Nephrotic
syndrome Nervous system disorder NervousnessNeuritis
Neuropathy peripheral Neurosis Night blindness Nocturia
Nodal arrhythmia Nodule Nuchal rigidity Nystagmus
Obesity ObstructionOcular hyperaemiaOedema peripheral
Oesophageal achalasia Oesophageal disorder Oesophageal
stenosis Oesophageal ulcerOesophagitis Oligomenorrhoea
Oliguria Ophthalmoplegia Optic atrophy Optic neuritis
Oral candidiasis Orchitis noninfective Oropharyngeal pain
Orthostatic hypotension Osteoarthritis Osteomyelitis
Osteoporosis Otitis externa Otitis media Ovarian
cancer Ovarian disorder Pain Pallor Palpitations
Pancreatic disorder Pancreatitis necrotising
Pancytopenia Papilloedema Paraesthesia oralParalysis
Paranoia Parathyroid disorder Parosmia Pathological
fracture Pelvic painPenis disorder Peptic ulcer
Periodontitis Peripheral embolism Peripheral vascular
disorder Peroneal nerve palsy Personality disorder Petechiae
Pharyngitis Phlebitis Photophobia Photosensitivity reaction
Pleural disorder Pleural effusion Pneumonia Pneumonia
aspiration Pneumothorax Poisoning Pollakiuria Polycythaemia
Polyuria Proctalgia Prostatic disorder Prostatic
specific antigen increased Prothrombin level decreased Pruritus
Pseudomembranous colitis Psoriasis Psychotic disorder
Pulmonary embolism Pulmonary fibrosis Pulmonary
function test decreased Pulmonary hypertension Pulmonary oedema
Pupils unequal Purpura Pyelonephritis Pyuria
Quadripareisis Rash maculo-papular Rash pustular
Rectal haemorrhage Rectal tenesmus Red blood cell
abnormalityRed blood cell sedimentation rate increased Refraction
disorder Renal failure acute Renal impairment Renal pain
Respiratory depression Respiratory disorder Respiratory

failure Respiratory tract infection Retinal artery occlusion
 Retinal degeneration Retinal detachment Retinal disorder
 Retinal haemorrhage Retinal oedema Retinal vascular
 disorder Retinal vein thrombosis Retinitis pigmentosa
 Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Salivary gland enlargement Salivary
 hypersecretion Salpingitis Sarcoidosis Sarcoma Schizophreniform
 disorder Scleritis Seborrhoeic dermatitis Sensory loss
 Sepsis Shock Sialoadenitis Sinus arrest Sinus
 bradycardia Sinusitis Skin atrophy Skin cancer Skin candida
 Skin discolouration Skin disorder Skin exfoliation Skin
 hypertrophy Skin mass Skin necrosis Skin odour abnormal Skin
 ulcer Sleep disorder Smear cervix abnormal Somnolence Speech
 disorder Splenomegaly Sputum increased Stevens-Johnson
 syndrome Stomatitis Strabismus Stupor Subarachnoid
 haemorrhage Subcutaneous nodule Sudden death Suicide attempt
 Supraventricular extrasystoles Supraventricular tachycardia
 Syncope Systemic lupus erythematosus Tachycardia Tenderness
 Tendon disorder Tenosynovitis Tension Therapeutic
 response unexpected Thinking abnormal Thirst Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid cancer Thyroid disorder Thyroid neoplasm
 Thyroiditis Tinnitus Tongue discolouration Tongue disorder
 Tongue oedema Tooth abscess Tooth disorder Tooth
 impacted Torticollis Toxic epidermal necrolysis Tremor
 Trismus Ulcer haemorrhage Ulcerative keratitis Unevaluable
 event Unintended pregnancy Upper respiratory tract infection
 Urethral disorder Urethral pain Urethritis Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine analysis abnormal Urine
 output increased Urogenital disorder Urticaria Uterine disorder
 Uterine haemorrhage Uterine leiomyoma Uterovaginal prolapse
 Uveitis VIIIth nerve paralysis Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Varicose vein
 Vascular anomaly Vascular headache Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vestibular disorder
 Viral infection Virilism Vision blurred Visual acuity
 reduced Visual impairment Vitreous disorder Vomiting
 Vulvovaginal candidiasis Vulvovaginal disorder
 Vulvovaginal mycotic infection Weight decreased Weight
 increased Withdrawal syndrome Yawning

T-cell receptor alpha chain C region - Group: Receptor

Treated with:

3-indolebutyric acid: experimental small molecule (0
 associated side effects)

known side effects mediated through drugs targeting this protein:

Outer membrane porin C - Group: Channel

Treated with:
n-octyl-2-hydroxyethyl sulfoxide: experimental small molecule
(0 associated side effects)
(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Succinate dehydrogenase hydrophobic membrane anchor subunit - Group: Enzyme

Treated with:
atpenin a5: experimental small molecule (0 associated side effects)
2-[1-methylhexyl]-4,6-dinitrophenol: experimental small molecule (0 associated side effects)
ubiquinone-2: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Fe(3+)-pyochelin receptor - Group: Transporter

Treated with:
lauryl dimethylamine-n-oxide: experimental small molecule
(0 associated side effects)

known side effects mediated through drugs targeting this protein:

Sodium channel protein type 2 subunit alpha - Group: Channel

Treated with:
lamotrigine: approved small molecule (324 associated side effects) For the adjunctive treatment of partial seizures in epilepsy and generalized seizures of Lennox-Gastaut syndrome. Also for the maintenance treatment of bipolar I disorder and depression.
propofol: approved small molecule (163 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.
zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.
fospropofol: approved small molecule (0 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.

437 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Abscess
Accommodation disorder Acidosis Acne Acute coronary
syndrome Affect lability Affective disorder Ageusia
Agitation Agranulocytosis Akathisia Alanine

aminotransferase increased Albuminuria Alcohol intolerance
 Alopecia Amblyopia Amenorrhoea Amnesia Anaemia
 Anaemia macrocytic Anaphylactic shock Anaphylactoid
 reaction Angina pectoris Angioedema Anorgasmia Anxiety
 Apathy Aphasia Aplasia pure red cell Aplastic anaemia
 Apnoea Apraxia Arrhythmia Arrhythmia supraventricular
 Arthralgia Arthritis Arthropathy Aspartate aminotransferase
 increased Asthenia Asthma Ataxia Atrial fibrillation
 Atrioventricular block Atrophy Back pain Bladder pain
 Blindness Blood creatinine increased Blood disorder Blood
 fibrinogen decreased Blood lactate dehydrogenase increased Blood
 urea increased Body temperature increased Bradycardia Breast
 abscess Breast feeding Breast neoplasm Breast pain Breath
 odour Bronchitis Bronchospasm Bundle branch block Bursitis
 Calculus bladder Candidiasis Cardiac arrest Cardiac failure
 Cardiac fibrillation Cardiac output decreased
 Cardiovascular disorder Cerebellar syndrome
 Cerebrovascular accident Chest pain Chills Cholangitis
 Cholecystitis Cholelithiasis Choreoathetosis
 Coagulopathy Cognitive disorder Colitis Completed
 suicide Confusional state Conjunctival hyperaemia
 Conjunctivitis Constipation Conversion disorder
 Convulsion Coordination abnormal Cough Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Deep vein
 thrombosis Deficiency anaemia Dehydration Delirium Delusion
 Dependence Depersonalisation Depressed level of consciousness
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diarrhoea Diplopia Discomfort Disinhibition
 Disseminated intravascular coagulation Disturbance in
 attention Disturbance in sexual arousal Dizziness Drug abuse
 Drug effect increased Drug withdrawal convulsions Drug
 withdrawal syndrome Dry eye Dry mouth Dry skin Duodenal
 ulcer Duodenitis Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspepsia Dysphagia Dysphoria Dyspnoea Dystonia
 Dysuria Ear disorder Ear pain Ecchymosis Eczema
 Ejaculation disorder Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram
 abnormal Embolism Encephalopathy Enterocolitis haemorrhagic
 Enuresis Eosinophilia Epididymitis Epistaxis
 Erectile dysfunction Eructation Erythema Erythema
 multiforme Euphoric mood Extrapyrmidal disorder
 Extrasystoles Eye pain Eyelid ptosis Face oedema
 Faecal incontinence Fatigue Feeling abnormal Flank pain
 Flat affect Flatulence Flushing Fungal skin infection Gait
 disturbance Gastric disorder Gastric ulcer Gastritis
 Gastroenteritis Gastrointestinal haemorrhage Gastrointestinal
 pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
 Glossitis Goitre Grand mal convulsion Gynaecomastia
 Haematemesis Haematuria Haemoglobin Haemolytic anaemia
 Haemoptysis Haemorrhage Hallucination Headache Hemiplegia
 Hepatic function abnormal Hepatitis Hepatomegaly
 Herpes virus infection Herpes zoster Hiccups Hirsutism
 Hostility Hot flush Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkinesia Hyperlipidaemia Hyperpathia

Hyperplasia Hyperreflexia Hypersensitivity Hypertension
Hypertonia Hyperventilation Hypoaesthesia Hypocoagulable
state Hypoglycaemia Hypokalaemia Hypokinesia Hypomagnesaemia
Hyponatraemia Hyporeflexia Hypotension Hypothyroidism
Hypotonia Hypoventilation Hypoxia Ileus Ill-defined
disorder Immunodeficiency Immunosuppression Incontinence
Increased appetite Infarction Infection Influenza
Insomnia Intracranial pressure increased Iritis Iron
deficiency Iron deficiency anaemia Irritability Ischaemia
Jaundice Jaundice cholestatic Lacrimal disorder Lacrimation
increased Laryngospasm Leukocytosis Leukoderma Leukopenia
Libido decreased Lip swelling Liver function test abnormal
Loss of consciousness Lymphadenopathy Lymphocytosis
Malaise Mastitis Melaena Meningitis aseptic
Menopausal symptoms Menorrhagia Menstrual disorder
Mental disability Metabolic acidosis Microcytic anaemia
Micturition disorder Micturition urgency Migraine
Moaning Mood swings Mouth ulceration Movement disorder
Multi-organ failure Muscle atrophy Muscle contracture
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myocardial infarction
Myocardial ischaemia Myoclonus Nausea Neck pain
Neonatal disorder Neoplasm Nervous system disorder
Nervousness Neuralgia Neuritis Neuropathy peripheral
Neurosis Neutropenia Nocturia Nodal arrhythmia Nuchal
rigidity Nystagmus Obstruction Obstructive airways disorder
Oculogyric crisis Oedema Oedema peripheral Oesophagitis
Oliguria Opisthotonus Organ failure Orthostatic
hypotension Oscillopsia Osteoarthritis Pain Pain in extremity
Palpitations Pancreatic disorder Pancreatitis
Pancytopenia Panic attack Panic reaction
Paraesthesia Paraesthesia oral Paralysis Paranoia
Parosmia Pathological fracture Penis disorder Peptic
ulcer Personality disorder Petechiae Pharyngitis Phlebitis
Phobia Photophobia Photosensitivity reaction
Pneumothorax Pollakiuria Polyuria Pruritus Psychotic
disorder Pulmonary embolism Pulmonary function test decreased
Pulmonary oedema Rash maculo-papular Rash pustular
Rectal haemorrhage Renal failure Renal failure acute
Renal pain Respiratory acidosis Respiratory arrest
Respiratory depression Respiratory disorder Respiratory
failure Rhabdomyolysis Rhinitis Right ventricular failure
Salivary hypersecretion Scar Scotoma Seborrhoeic
dermatitis Sepsis Shock Sinusitis Skin discolouration Skin
ulcer Sleep disorder Sneezing Somnolence Speech disorder
Status epilepticus Stevens-Johnson syndrome Stomatitis
Strabismus Stupor Sudden death Suicidal behaviour
Suicidal ideation Suicide attempt Supraventricular
extrasystoles Supraventricular tachycardia Swelling Syncope
Systemic lupus erythematosus Tachycardia Tachypnoea Tendinous
contracture Tension Thinking abnormal Thirst Thrombocytopenia
Thrombophlebitis Thrombosis Tic Tinnitus Tongue disorder
Tongue oedema Tooth disorder Toxic epidermal necrolysis
Tremor Ulcer Upper airway obstruction Urinary

incontinence Urinary retention Urinary tract infection Urine
abnormality Urine analysis abnormal Urine output increased
Urticaria Uterovaginal prolapse Uveitis VIIIth nerve
paralysis Vaginal infection Vaginal inflammation Vascular
insufficiency Vasculitis Vasodilation procedure Ventricular
extrasystoles Ventricular fibrillation Ventricular
tachycardia Vertigo Vision blurred Visual acuity reduced
Visual impairment Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Weight decreased Weight
increased Wheezing Yawning

Beta-3 adrenergic receptor - Group: Receptor

Treated with:

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

propranolol: approved small molecule (96 associated side effects) For the prophylaxis of migraine.

isoproterenol: approved small molecule (26 associated side effects) For the treatment of mild or transient episodes of heart block that do not require electric shock or pacemaker therapy also used in management of asthma and chronic bronchitis

arbutamine: approved small molecule (0 associated side effects)

Used to elicit acute cardiovascular responses (cardiac stimulant), similar to those produced by exercise, in order to aid in diagnosing the presence or absence of coronary artery disease (CAD) in patients who cannot exercise adequately.

fenoterol: approved small molecule (0 associated side effects)

Fenoterol is used for the treatment of asthma.

ephedra: approved, withdrawn, nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

clenbuterol: approved small molecule (0 associated side effects) Used as a bronchodilator in the treatment of asthma patients.

droxidopa: approved small molecule (0 associated side effects)

For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

bopindolol: approved small molecule (0 associated side effects)

For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

bupranolol: approved small molecule (0 associated side effects)

Used to manage hypertension and tachycardia. Also used to treat glaucoma.

125 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Acidosis
 Affect lability Aggression Agranulocytosis Alopecia
 Amnesia Anaphylactic shock Anaphylactoid reaction
 Angina pectoris Antibody test positive Anxiety Arrhythmia
 Arterial insufficiency Arterial thrombosis Asthenia
 Atrioventricular block Blindness Blood pressure increased
 Blood urea increased Body temperature increased Bradycardia
 Bronchospasm Cardiac arrest Cardiac disorder Cardiac
 failure Cardiac failure congestive Cardiac output decreased
 Catatonia Chest pain Colitis ischaemic Conjunctivitis
 Constipation Convulsion Coordination abnormal Coronary
 artery insufficiency Deafness Decreased appetite Depression
 Dermatitis Dermatitis exfoliative Diarrhoea Disorientation
 Disturbance in attention Dizziness Dry eye Dyspepsia
 Dyspnoea Erectile dysfunction Erythema Erythema
 multiforme Extravasation Fatigue Flatulence Flushing Gait
 disturbance Gangrene Gastrointestinal pain Growth hormone
 deficiency Hallucination Headache Hearing impaired
 Hyperhidrosis Hypersensitivity Hypertension Hypotension
 Hypovolaemia Hypoxia Injection site reaction
 Insomnia Lactic acidosis Laryngospasm Lethargy
 Leukaemia Loss of libido Mesenteric artery thrombosis Mood
 swings Muscle spasms Nausea Necrosis Nervousness
 Oculomucocutaneous syndrome Oedema Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension Pain
 Pallor Palpitations Paraesthesia Peripheral
 coldness Pharyngitis Photophobia Pulmonary oedema Purpura
 Purpura non-thrombocytopenic Rash Rash erythematous Raynaud's
 phenomenon Respiratory distress Sinus rhythm Skin ulcer Sleep
 disorder Somnolence Systemic lupus erythematosus Tachyarrhythmia
 Talipes Tenderness Tension Thrombocytopenic purpura
 Thrombosis Tinnitus Toxic epidermal necrolysis Tremor
 Ulcer Urticaria Vascular purpura Vasoconstriction Vertigo
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting

High affinity immunoglobulin epsilon receptor subunit beta - Group:
 Receptor

Treated with:

omalizumab: approved biotech (0 associated side effects) For
 treatment of asthma caused by allergies

known side effects mediated through drugs targeting this protein:

Calcium-activated potassium channel subunit beta 2 - Group: Channel
 Treated with:

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis
 (athlete's foot), tinea cruris, and tinea corporis caused
 by <i>Trichophyton rubrum</i>, <i>Trichophyton
 mentagrophytes</i>, and <i>Epidermophyton

floccosum</i>, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor. (2r,3r,4s,5r)-2-acetamido-3,4-dihydroxy-5-hydroxymethyl-piperidinium: experimental small molecule (0 associated side effects)

33 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Anaphylactoid reaction
Angioedema Breast disorder Burning sensation Cardiac disorder
Dermatitis Dermatitis contact Erythema Gastrointestinal
pain Genital burning sensation Genital discharge Headache
Immune system disorder Muscle spasms Nausea Nervous
system disorder Oedema Pain Pelvic pain Pruritus genital Rash
Respiratory disorder Respiratory tract infection Upper
respiratory tract infection Urethral disorder Urinary tract disorder
Urinary tract infection Urticaria Vaginal discharge
Vulvovaginal discomfort Vulvovaginal erythema

Organic solute transporter subunit alpha - Group: Transporter

Treated with:

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

digoxin: approved small molecule (56 associated side effects) For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

taurocholic acid: experimental small molecule (0 associated side effects)

257 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
Abdominal pain Abscess Acne Acute coronary syndrome
Affect lability Agitation Alopecia Amenorrhoea
Anaphylactic shock Anaphylactoid reaction Angioedema
Angiopathy Anxiety Apathy Arrhythmia Arthralgia
Arthropathy Asthenia Asthma Atrial tachycardia

Atrioventricular block complete Atrioventricular block first
 degree Atrioventricular block second degree Atrioventricular
 dissociation Back pain Benign neoplasm Bladder pain
 Blindness Blood glucose decreased Blood glucose
 increased Blood pressure increased Blood triglycerides
 increased Body temperature increased Bone disorder Bone pain
 Bradycardia Breast discharge Breast discomfort Breast disorder
 Breast enlargement Breast mass Breast neoplasm Breast pain
 Breast swelling Breast tenderness Bronchitis Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardioactive drug level Cerebrovascular accident
 Cervical discharge Cervix disorder Chest pain Chills
 Chloasma Chorea Colitis ischaemic Conduction disorder
 Confusional state Conjunctivitis Connective tissue disorder
 Constipation Coronary artery thrombosis Cough Cystitis
 Cystitis noninfective Death Decreased appetite Deep vein
 thrombosis Delirium Depression Dermatitis Diarrhoea Discomfort
 Dissociation Dizziness Drug interaction Dry eye
 Dysmenorrhoea Dyspepsia Dysplasia Dyspnoea Dysuria
 Ear pain Ecchymosis Ectropion of cervix Electrocardiogram
 PR prolongation Electrocardiogram ST segment Electrocardiogram ST
 segment depression Electrocardiogram change Embolism
 Embolism venous Endometrial cancer Endometrial
 hypertrophy Endometriosis Epilepsy Erythema Erythema
 multifforme Erythema nodosum Extrasystoles Eye disorder
 Fatigue Feeling abnormal Fibrocystic breast disease Flat
 affect Flatulence Fluid retention Galactorrhoea Gallbladder
 disorder Gastrointestinal disorder Gastrointestinal necrosis
 Gastrointestinal pain Generalised oedema Genital discharge
 Glucose tolerance decreased Glucose tolerance impaired
 Gynaecomastia Haemangioma Haemoptysis Haemorrhagic disorder
 Hallucination Headache Hepatic function abnormal
 Hepatobiliary disease Hirsutism Hypercalcaemia
 Hyperglycaemia Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypoaesthesia
 Hypocalcaemia Hypotension Hypothyroidism Infarction
 Infection Influenza Injection site pain Insomnia
 Intestinal ischaemia Irritability Ischaemia Jaundice
 Jaundice cholestatic Lacrimal disorder Lacrimation increased
 Laryngitis Leiomyoma Loss of consciousness Mass Meningioma
 benign Menorrhagia Menstrual disorder Mental disorder
 Mesenteric vascular insufficiency Metrorrhagia Migraine
 Mood swings Mouth ulceration Muscle rigidity Muscle spasms
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Nausea Neck pain Necrosis Neoplasm Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Nipple pain
 Nodule Nuchal rigidity Oedema Oedema peripheral Optic
 neuritis Osteoarthritis Ovarian cancer Pain in extremity
 Palpitations Pancreatitis Paraesthesia Pelvic pain
 Pharyngitis Phlebitis Pigmentation disorder Poisoning
 Pollakiuria Porphyria Precocious puberty Pruritus genital
 Psychotic disorder Puberty Pulmonary embolism
 Pulmonary function test decreased Purpura Rash generalised

Rash maculo-papular Respiratory depression Respiratory tract
infection Rhinitis Sensory loss Shock Sinus bradycardia
Sinusitis Smear cervix abnormal Somnolence Stomatitis
Subcutaneous nodule Swelling Syncope Tachycardia
Tenderness Tension Thrombocytopenia Thrombophlebitis
superficial Thrombosis Tooth abscess Ulcer Upper respiratory
tract infection Urethral disorder Urinary tract disorder Urticaria
Uterine cancer Uterine cervical erosion Uterine leiomyoma
Uterine spasm Vaginal haemorrhage Varicose vein
Vasodilation procedure Venous thrombosis Ventricular
extrasystoles Ventricular fibrillation Ventricular
tachycardia Vertigo Visual acuity reduced Visual impairment
Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
infection Vulvovaginal pruritus Weight increased Withdrawal bleed
Xanthopsia

Neuronal acetylcholine receptor subunit alpha-2 - Group: Channel
Treated with:

nicotine: approved small molecule (98 associated side effects)

For the relief of nicotine withdrawal symptoms and as an aid
to smoking cessation.

carbachol: approved small molecule (12 associated side effects)

Primarily used in the treatment of glaucoma, but is also used
during ophthalmic surgery.

metocurine iodide: approved small molecule (0 associated
side effects) For use as an anesthesia adjunct to induce skeletal
muscle relaxation and to reduce the intensity of muscle contractions
in convulsive therapy.

gallamine triethiodide: approved small molecule (0
associated side effects) For use as adjuncts to anesthesia to
induce skeletal muscle relaxation and to facilitate the management
of patients undergoing mechanical ventilation

dextromethorphan: approved small molecule (0 associated side
effects) For treatment and relief of dry cough.

cisatracurium besylate: approved small molecule (0
associated side effects) For inpatients and outpatients as an
adjunct to general anesthesia, to facilitate tracheal intubation,
and to provide skeletal muscle relaxation during surgery or
mechanical ventilation in the ICU.

mecamylamine: approved small molecule (29 associated side
effects) For the treatment of moderately severe to severe
essential hypertension and in uncomplicated cases of malignant
hypertension

galantamine: approved small molecule (160 associated side
effects) For the treatment of mild to moderate dementia of the
Alzheimer's type. Has also been investigated in patients with mild
cognitive impairment who did not meet the diagnostic criteria for
Alzheimer's disease.

procaine: approved small molecule (43 associated side effects)
Used as a local anesthetic primarily in oral surgery

rocuronium: approved small molecule (25 associated side effects)

For inpatients and outpatients as an adjunct to general
anesthesia to facilitate both rapid sequence and routine tracheal

intubation, and to provide skeletal muscle relaxation during surgery or mechanical ventilation.

biperiden: approved small molecule (13 associated side effects)

For use as an adjunct in the therapy of all forms of parkinsonism and control of extrapyramidal disorders secondary to neuroleptic drug therapy.

doxacurium chloride: approved small molecule (0 associated side effects) Used to provide skeletal muscle relaxation as an adjunct to general anesthesia, for endotracheal intubation or to facilitate mechanical ventilation.

tubocurarine: approved small molecule (0 associated side effects) Used as a diagnosis agent for myasthenia gravis, and also to facilitate the intubation after induction of anesthesia in surgical procedure

mivacurium: approved small molecule (18 associated side effects)

For inpatients and outpatients, as an adjunct to general anesthesia, to facilitate tracheal intubation and to provide skeletal muscle relaxation during surgery or mechanical ventilation.

decamethonium: approved small molecule (0 associated side effects) For use as a skeletal muscle relaxant

pancuronium: approved small molecule (18 associated side effects) Used as a muscle relaxant during anesthesia and surgical procedures.

pipecuronium: approved small molecule (0 associated side effects) Used as a muscle relaxant during anesthesia and surgical procedures.

vecuronium: approved small molecule (19 associated side effects)

Vecuronium is a muscle relaxing agent and is used as an adjunct in general anesthesia.

268 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acidosis Acne Affect
lability Aggression Agitation Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Angioedema
Anxiety Aortic dissection Apathy Aphasia Apnoea
Apraxia Arachnoiditis Arrhythmia Arrhythmia
supraventricular Arthralgia Arthritis Asthenia Asthma
Ataxia Atrial fibrillation Atrioventricular block
Atrophy Back pain Bladder pain Blindness Blister
Blood alkaline phosphatase increased Blood pressure
fluctuation Blood urea increased Body temperature increased Bone
pain Bradycardia Bronchitis Bronchospasm Bundle branch block
Cardiac arrest Cardiac failure Cardiac fibrillation
Cardiac output decreased Cardiovascular disorder
Cataract Cerebrovascular accident Cerebrovascular
disorder Chest discomfort Chest pain Chorea Coagulopathy
Completed suicide Confusional state Constipation Convulsion
Coordination abnormal Corneal degeneration Corneal opacity
Cough Cystitis Cystitis noninfective Decreased appetite
Dehydration Delirium Dependence Depression Dermatitis
Dermatitis bullous Diarrhoea Discomfort Disorientation
Dissociation Disturbance in attention Disturbance in
sexual arousal Diverticulitis Dizziness Dizziness postural
Drug abuse Drug dependence Dry mouth Dysgeusia

Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Ear pain Electrocardiogram QT prolonged Electrocardiogram
 T wave inversion Electrocardiogram abnormal Epistaxis Erectile
 dysfunction Erythema Euphoric mood Eye disorder Eye
 irritation Fatigue Feeling abnormal Fibrosis Flat affect
 Flatulence Flushing Gastric disorder Gastritis
 Gastroenteritis Gastrointestinal haemorrhage Gastrointestinal
 pain Glossitis Gravitational oedema Haematuria Haemoglobin
 Haemorrhage Hallucination Headache Hepatic enzyme
 increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypotension
 Hypoxia Ileus Ill-defined disorder Immune system disorder
 Incontinence Increased appetite Increased bronchial
 secretion Infarction Infection Influenza Injection site
 reaction Insomnia Iritis Irritability Ischaemia
 Keratopathy Lacrimation increased Laryngeal oedema
 Laryngospasm Lethargy Libido decreased Libido increased
 Light anaesthesia Liver disorder Loss of consciousness Lower
 gastrointestinal haemorrhage Malaise Mean arterial pressure
 Melaena Meningism Menstrual disorder Mental disability
 Mental disorder Migraine Mood swings Muscle atrophy
 Muscle contractions involuntary Muscle spasms Muscular
 weakness Musculoskeletal discomfort Musculoskeletal disorder
 Myalgia Mydriasis Myocardial ischaemia Myopathy Nasal
 congestion Nasal discomfort Nasal ulcer Nasopharyngitis Nausea
 Nephrolithiasis Nervous system disorder Nervousness
 Neuropathy peripheral Nightmare Nocturia Oedema
 Oedema peripheral Oesophageal disorder Oesophageal
 perforation Orthostatic hypotension Pain Pain in extremity Pain
 in jaw Palpitations Paraesthesia Paralysis Paranoia
 Pharyngitis Phlebitis Pneumonia Pollakiuria Pruritus
 Pulmonary function test decreased Pulmonary oedema Purpura
 Rash Rectal haemorrhage Renal failure Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 failure Respiratory tract infection Retinal detachment
 Rhinitis Rhinorrhoea Rhonchi Salivary hypersecretion
 Sedation Sensory loss Shock Sinusitis Sleep disorder
 Sneezing Somnolence Sputum increased Stomatitis Suicidal
 ideation Suicide attempt Supraventricular tachycardia Syncope
 Tachycardia Tension Thought blocking Throat irritation
 Thrombocytopenia Thrombocytosis Tinnitus Tobacco user
 Tooth disorder Transient ischaemic attack Tremor Ulcer
 Upper respiratory tract infection Urethral disorder Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urticaria Vascular dementia Vascular purpura
 Vascular resistance pulmonary increased Vascular resistance
 systemic Vasodilation procedure Ventricular tachycardia
 Vertigo Vision blurred Visual acuity reduced Visual
 impairment Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome

Free fatty acid receptor 1 - Group: Receptor

Treated with:

icosapent: approved,nutraceutical small molecule (0 associated side effects) EPA can be used for lowering elevated triglycerides in those who are hyperglyceridemic. In addition, EPA may play a therapeutic role in patients with cystic fibrosis by reducing disease severity and may play a similar role in type 2 diabetics in slowing the progression of diabetic nephropathy.

known side effects mediated through drugs targeting this protein:

Metabotropic glutamate receptor 8 - Group: Receptor

Treated with:

l-glutamic acid: approved,nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

High-affinity cationic amino acid transporter 1 - Group: Transporter

Treated with:

l-lysine: approved,nutraceutical small molecule (0 associated side effects) Supplemental L-lysine has putative anti-herpes simplex virus activity. There is preliminary research suggesting that it may have some anti-osteoporotic activity.

l-arginine: approved,nutraceutical small molecule (20 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

l-ornithine: approved,nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance. It has been claimed that ornithine improves athletic performance, has anabolic effects, has wound-healing effects, and is immuno-enhancing.

20 known side effects mediated through drugs targeting this protein:

Anaphylactic shock Cyanosis Dermatitis Extravasation
Flushing Haematuria Headache Hypersensitivity
Hypoaesthesia Nausea Necrosis Platelet count
decreased Rash Rash macular Sensory loss Skin exfoliation
Skin necrosis Surgery Swelling Vomiting

Multidrug resistance ABC transporter ATP-binding and permease protein - Group: Transporter

Treated with:

adenosine-5'-diphosphate: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 2B receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side effects) For the acute treatment of migraine with or without aura in adults.

methysergide: approved small molecule (69 associated side effects) For the treatment of vascular headache

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

dihydroergotamine: approved small molecule (128 associated side effects) For the acute treatment of migraine headaches with or without aura and the acute treatment of cluster headache episodes.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

triflupromazine: approved small molecule (0 associated side effects) Used mainly in the management of psychoses. Also used to control nausea and vomiting.

fenfluramine: illicit,withdrawn small molecule (0 associated side effects) For the management of exogenous obesity as a short-term (a few weeks) adjunct in a regimen of weight reduction based on caloric restriction.

lisuride: approved small molecule (0 associated side effects) For the management of Parkinson's Disease

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

minaprine: approved small molecule (0 associated side effects) For the treatment of depression

tegaserod: withdrawn small molecule (125 associated side effects) Provides relief from the symptoms of irritable bowel syndrome including chronic idiopathic constipation.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

pergolide: approved,withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to

hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

clomipramine: approved small molecule (349 associated side effects)

3,4-methylenedioxymethamphetamine: illicit, experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

1041 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal adhesions Abdominal discomfort
Abdominal distension Abdominal neoplasm Abdominal pain
Abdominal pain lower Abdominal pain upper Abnormal
behaviour Abnormal dreams Abortion spontaneous Abscess
Accommodation disorder Acidosis Acne Actinic keratosis Acute
abdomen Acute coronary syndrome Acute lymphocytic leukaemia
Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion
Adjustment disorder Affect lability Ageusia Aggression
Agitation Agranulocytosis Akathisia Akinesia Alanine
aminotransferase increased Albright's disease Albuminuria
Alkalosis Alopecia Altered state of consciousness
Amaurosis fugax Amblyopia Amenorrhoea Amnesia Amyotrophic
lateral sclerosis Anaemia Anaemia megaloblastic Aneurysm
Angina pectoris Angina unstable Angioedema Angiomyolipoma
Angiopathy Anorectal discomfort Anorectal disorder
Anxiety Aortic dissection Aortic embolus Apathy
Aphasia Aphonia Aphthous stomatitis Apnoea
Appendicitis Application site reaction Apraxia
Arrhythmia Arrhythmia supraventricular Arterial disorder
Arterial occlusive disease Arterial stenosis Arteriosclerosis
Arteriospasm coronary Arteritis Arthralgia Arthritis
Arthropathy Ascites Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Atrial
fibrillation Atrial flutter Atrial septal defect
Atrioventricular block Atrioventricular block first degree
Atrioventricular block second degree Atrophy Aura
Azotaemia Back pain Bacterial infection Balance disorder
Balanoposthitis Basal cell carcinoma Benign intracranial
hypertension Benign neoplasm Benign neoplasm of skin
Biliary colic Binge eating Bladder cancer Bladder
disorder Bladder pain Blepharitis Blepharospasm Blindness
Blindness transient Blister Blood alkaline phosphatase
increased Blood amylase increased Blood cholesterol increased
Blood creatine phosphokinase increased Blood electrolytes

abnormal Blood glucose increased Blood iron decreased Blood
 lactate dehydrogenase increased Blood phosphorus increased Blood
 pressure increased Blood urea increased Blood uric acid
 increased Blood urine Blood urine present Body temperature
 decreased Body temperature increased Bone disorder Bone
 neoplasm Bone pain Bone sarcoma Bradycardia Bradyphrenia
 Brain neoplasm Brain neoplasm benign Brain oedema
 Breast cancer Breast cyst Breast disorder female Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breath odour Bronchiolitis Bronchitis
 Bronchopneumonia Bronchospasm Bruxism Bulimia nervosa
 Bundle branch block Burning sensation Bursitis Cachexia
 Calculus bladder Calculus urinary Candidiasis Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac septal defect Cardiac valve disease Cardiomegaly
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataract Catatonia Cellulitis
 Cerebral artery embolism Cerebral atrophy Cerebral
 haemorrhage Cerebral infarction Cerebral ischaemia
 Cerebrospinal fluid rhinorrhoea Cerebrovascular accident
 Cerebrovascular disorder Cervical dysplasia Cervix
 carcinoma Cheilitis Chest discomfort Chest pain Chills
 Chloasma Choking Choking sensation Cholecystitis
 Cholecystitis chronic Cholelithiasis Chorea
 Choreoathetosis Chromatopsia Chromaturia Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Cognitive disorder Cold sweat Colitis ischaemic Colitis
 ulcerative Colon cancer Colorectal cancer Coma Completed suicide
 Compulsions Confusional state Congenital anomaly Congenital
 eye disorder Congenital foot malformation Congenital
 genitourinary abnormality Conjunctival haemorrhage
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal
 Coronary artery disease Coronary artery occlusion Cough
 Crocodile tears syndrome Cyanosis Cystitis Cystitis
 noninfective Cytolytic hepatitis Deafness Death Decreased
 appetite Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Dermal cyst Dermatitis Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Diabetes mellitus
 Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disease progression Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Dizziness postural Drug abuse Drug dependence
 Drug hypersensitivity Drug ineffective Drug level increased
 Drug withdrawal syndrome Dry eye Dry mouth Dry skin
 Dry throat Duodenal ulcer Duodenal ulcer haemorrhage
 Duodenitis Dysarthria Dysentery Dysgeusia Dysgraphia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia
 Dysplasia Dyspnoea Dyspnoea exertional Dystonia
 Dysuria Ear disorder Ear infection Ear pain

Ecchymosis Eclampsia Eczema Effusion Ejaculation
 disorder Ejaculation failure Electrocardiogram QRS complex
 Electrocardiogram abnormal Electrocardiogram change
 Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional distress Emphysema
 Encephalopathy Endocrine disorder Endometrial cancer
 Endometrial hyperplasia Endometrial neoplasm
 Endometriosis Enteritis Enuresis Enzyme abnormality
 Eosinophil count increased Eosinophilia Epicondylitis
 Epididymitis Epistaxis Erectile dysfunction Eructation
 Erythema Erythromelalgia Euphoric mood Exophthalmos
 Exostosis Extrapyrarnidal disorder Extrasystoles Eye
 allergy Eye disorder Eye haemorrhage Eye infection Eye
 irritation Eye pain Eyelid oedema Eyelid ptosis Face oedema
 Faecal incontinence Faeces discoloured Fasciitis
 Fasting Fat intolerance Fatigue Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Fibroadenoma of
 breast Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing
 Folliculitis Fungal infection Fungal skin infection
 Furuncle Gait disturbance Galactorrhoea Gallbladder
 cancer Gallbladder disorder Gangrene Gastric cancer
 Gastric dilatation Gastric disorder Gastric haemorrhage
 Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal pain Gastrointestinal stromal tumour
 Gastrooesophageal reflux disease General symptom Generalised
 oedema Genital candidiasis Genital discharge Gestational
 hypertension Gingival bleeding Gingival infection Gingival
 recession Gingivitis Glaucoma Glossitis Glycosuria Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesis Haematochezia
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobinuria Haemoptysis Haemorrhage Haemorrhoids
 Haemothorax Hallucination Hallucination, auditory
 Hallucination, visual Head discomfort Headache Hearing
 impaired Hemianopia Hemiparesis Hemiplegia Hepatic enzyme
 increased Hepatic function abnormal Hepatic neoplasm malignant
 Hepatitis Hepatobiliary disease Hepatocellular injury
 Hepatomegaly Hereditary disorder Hernia Herpes
 simplex Herpes virus infection Herpes zoster Hiccups
 Hirsutism Hordeolum Hormone level abnormal Hostility Hot
 flush Hunger Hydrocephalus Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hyperpathia Hyperphagia
 Hyperphosphataemia Hyperplasia Hyperpyrexia
 Hyperreflexia Hypersensitivity Hypersexuality Hypersomnia
 Hypertension Hypertensive crisis Hyperthyroidism
 Hypertonia Hypertonic bladder Hypertrichosis Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation Hypnagogic
 hallucination Hypoaesthesia Hypoaesthesia oral

Hypocalcaemia Hypochloraemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypokalaemia Hypokinesia
 Hyponatraemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovitaminosis
 Hypovolaemia Hypoxia IIIrd nerve paralysis Ileus Ileus
 paralytic Ill-defined disorder Illusion Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Infarction Infected cyst Infection Infection
 susceptibility increased Infestation Inflammation Influenza
 Inguinal hernia Initial insomnia Inner ear disorder
 Insomnia Interstitial lung disease Intervertebral disc
 degeneration Intervertebral disc disorder Intervertebral disc
 protrusion Intervertebral discitis Intestinal functional
 disorder Intestinal ischaemia Intestinal obstruction
 Intracranial pressure increased Iron deficiency Iron
 deficiency anaemia Irritability Irritable bowel syndrome
 Ischaemia Ischaemic hepatitis Jaundice Joint effusion
 Joint range of motion decreased Joint stiffness Joint
 swelling Keratitis Keratoconjunctivitis sicca Laboratory test
 abnormal Lacrimal disorder Lacrimation decreased Lacrimation
 increased Lactose intolerance Laryngeal cancer Laryngeal
 disorder Laryngeal neoplasm Laryngeal oedema Laryngitis
 Laryngospasm Left ventricular failure Leiomyoma
 Leriche syndrome Lethargy Leukaemia Leukaemoid reaction
 Leukocytosis Leukopenia Libido decreased Libido increased
 Lichenoid keratosis Lip and/or oral cavity cancer Lip
 blister Lip dry Lipoma Livedo reticularis Liver
 function test abnormal Liver injury Lividity Lobar pneumonia
 Localised infection Localised oedema Loss of consciousness
 Loss of libido Lower respiratory tract infection Lung
 adenocarcinoma stage I Lung cancer metastatic Lung disorder Lung
 infiltration Lung neoplasm malignant Lymphadenitis
 Lymphadenopathy Lymphatic disorder Lymphocytic leukaemia
 Lymphocytosis Lymphoedema Lymphoma Lymphopenia Macular
 degeneration Macule Maculopathy Major depression Malaise
 Malignant melanoma Mania Mastitis Mediastinal disorder
 Melaena Melanocytic naevus Memory impairment Meningitis
 Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Mental disability Mental disorder Metabolic alkalosis
 Metastasis Metastatic neoplasm Metrorrhagia Micturition
 disorder Middle ear disorder Middle ear effusion Middle
 insomnia Migraine with aura Migraine without aura Mitral
 valve incompetence Monarthritits Monocytosis Mood swings
 Motion sickness Mouth ulceration Multiple myeloma Muscle
 atrophy Muscle contractions involuntary Muscle contracture
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Mutism
 Myalgia Mydriasis Myelitis Myocardial infarction
 Myocardial ischaemia Myoclonus Myopathy Myopia
 Myositis Nail disorder Nail infection Narcolepsy Nasal
 congestion Nasal disorder Nasal dryness Nasal polyps
 Nasopharyngitis Nausea Neck pain Necrosis Necrosis

ischaemic Neoplasm Neoplasm malignant Neoplasm prostate
 Neoplasm recurrence Neoplasm skin Nephritis
 Nephrolithiasis Nephrotic syndrome Nerve root lesion
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neurogenic bladder Neuroleptic malignant syndrome
 Neurological symptom Neuroma Neuropathy peripheral
 Neurosis Neutropenia Neutrophil count decreased Night
 blindness Night sweats Nightmare Nocturia Nodal arrhythmia
 Nodule Nuchal rigidity Nystagmus Obesity Obsessive
 thoughts Obstruction Obstructive airways disorder Ocular hyperaemia
 Oculogyric crisis Oedema Oedema peripheral Oesophageal
 carcinoma Oesophageal disorder Oesophageal spasm Oesophageal
 stenosis Oesophageal ulcer Oesophagitis Oliguria
 Onychomycosis Oral candidiasis Oral neoplasm benign
 Orchitis noninfective Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Osteoarthropathy Osteomyelitis
 Osteonecrosis Osteoporosis Otitis externa Otitis
 media Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pallor Palpitations Pancreatitis acute
 Pancytopenia Panic attack Panic reaction Papilloma
 Paraesthesia Paralysis Paranoia Parasomnia Paresis
 Parkinsonism Paronychia Parosmia Pathological gambling
 Pelvic inflammatory disease Pelvic pain Penis disorder
 Peptic ulcer Pericardial effusion Pericarditis
 constrictive Perineal pain Periodontitis Periorbital
 oedema Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Peritoneal adhesions Personality disorder
 Petechiae Pharyngeal disorder Pharyngeal oedema Pharyngitis
 Phlebitis superficial Phobia Photophobia Photopsia
 Photosensitivity allergic reaction Photosensitivity reaction
 Piloerection Plasmacytoma Pleural disorder Pleural
 effusion Pleural fibrosis Pleurisy Pleuritic pain Pneumonia
 Pneumonia aspiration Pneumothorax Poliomyelitis
 Pollakiuria Polyarteritis nodosa Polycythaemia Polymyalgia
 rheumatica Polyp Polyuria Post procedural infection
 Postmenopausal haemorrhage Pre-eclampsia Premature
 ejaculation Premenstrual syndrome Presyncope Priapism Proctalgia
 Productive cough Prolactinoma Prostate cancer Prostatic
 adenoma Prostatic disorder Prostatitis Protein urine present
 Proteinuria Prurigo Pruritus Pruritus genital
 Pseudolymphoma Psoriasis Psychosomatic disease Psychotic
 disorder Pulmonary embolism Pulmonary fibrosis Pulmonary
 hypertension Pulmonary oedema Pupils unequal Purpura
 Pyelonephritis Pyoderma Pyuria Rales Rash Rash
 erythematous Rash maculo-papular Rash papular Rash
 pustular Raynaud's phenomenon Rectal cancer Rectal
 haemorrhage Rectal tenesmus Red blood cell sedimentation rate
 increased Reflux oesophagitis Regurgitation Renal artery
 stenosis Renal colic Renal cyst Renal failure acute Renal
 impairment Renal neoplasm Renal pain Respiratory alkalosis
 Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract infection Retinal detachment
 Retinal disorder Retinal vascular disorder Retinitis
 pigmentosa Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinorrhoea Rosacea

Rotator cuff syndrome Sacroiliitis Saliva altered
 Salivary duct obstruction Salivary gland enlargement
 Salivary hypersecretion Salpingitis Sarcoma
 Schizophreniform disorder Sciatica Scleritis Scotoma
 Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of foreign body Sensation of heaviness Sensory
 disturbance Sensory loss Sepsis Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sick sinus syndrome Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus headache Sinus
 tachycardia Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma
 Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep paralysis Sleep talking Sluggishness
 Sneezing Snoring Social avoidant behaviour
 Somnambulism Somnolence Speech disorder Sphincter of Oddi
 dysfunction Spinal osteoarthritis Spine malformation
 Splenomegaly Spondylitis Sputum increased Squamous cell
 carcinoma Status epilepticus Sticky skin Stomach dilation
 procedure Stomatitis Strabismus Stress Stupor
 Subarachnoid haemorrhage Subcutaneous nodule Subileus
 Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Swelling Syncope Synovitis Systemic lupus
 erythematosus Tachycardia Tachypnoea Tardive dyskinesia
 Telangiectasia Tendonitis Tenosynovitis Tension
 Tension headache Terminal insomnia Testicular disorder
 Testicular swelling Therapeutic response decreased
 Therapeutic response increased Thinking abnormal Thirst
 Throat irritation Throat tightness Thrombocytopenia
 Thrombocytosis Thrombophlebitis Thrombosis Thyroid adenoma
 Thyroid cancer Thyroid neoplasm Thyroiditis Tinnitus
 Tongue discolouration Tongue disorder Tongue oedema
 Tongue ulceration Tonsillitis Tooth abscess Tooth disorder
 Tooth infection Toothache Torticollis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Ulcer Ulcer haemorrhage Umbilical hernia Unevaluable
 event Upper respiratory tract infection Upper-airway cough syndrome
 Urethral disorder Urethral pain Urethritis Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urinary tract obstruction Urine abnormality Urine
 analysis abnormal Urine output increased Urticaria Uterine disorder
 Uterine haemorrhage Uterine inflammation Uterine leiomyoma
 Uterine neoplasm Uterovaginal prolapse VIIIth nerve paralysis
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular headache
 Vascular insufficiency Vascular purpura Vasculitis
 Vasoconstriction Vasodilation Vasoproliferative procedure Vasospasm Vein
 disorder Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular failure Ventricular fibrillation
 Ventricular hypertrophy Ventricular tachycardia
 Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment

Vitreous floaters Vocal cord paralysis Vomiting Vulval
disorder Vulvovaginal candidiasis Vulvovaginal mycotic
infection Waxy flexibility Weight decreased Weight increased
Wheezing Withdrawal bleed Withdrawal syndrome Wound
infection Xerophthalmia Yawning

Vesicle-associated membrane protein 2 - Group: Other

Treated with:

botulinum toxin type b: approved biotech (0 associated
side effects) For the treatment of patients with cervical
dystonia to reduce the severity of abnormal head position and neck
pain associated with cervical dystonia.

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 4 receptor - Group: Receptor

Treated with:

cisapride: approved, withdrawn small molecule (0 associated
side effects) For the symptomatic treatment of adult patients
with nocturnal heartburn due to gastroesophageal reflux disease.
ondansetron: approved small molecule (122 associated side
effects) For the prevention of nausea and vomiting associated with
emetogenic cancer chemotherapy, postoperation, and radiation. Also
used for the treatment of postoperative nausea and vomiting.
tegaserod: withdrawn small molecule (125 associated side
effects) Provides relief from the symptoms of irritable bowel
syndrome including chronic idiopathic constipation.
metoclopramide: approved small molecule (75 associated side
effects) For the treatment of gastroesophageal reflux disease
(GERD). It is also used in treating nausea and vomiting, and to
increase gastric emptying.
cinitapride: approved small molecule (0 associated side
effects) For the treatment of gastrointestinal disorders
associated with motility disturbances such as gastroesophageal
reflux disease, non-ulcer dyspepsia and delayed gastric emptying.

241 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abortion spontaneous Accommodation
disorder Acute coronary syndrome Affect lability Agitation
Agranulocytosis Akathisia Alanine aminotransferase increased
Albuminuria Alopecia Altered state of consciousness
Amenorrhoea Anaphylactic shock Anaphylactoid reaction
Angina pectoris Angioedema Angiopathy Anorectal discomfort
Anxiety Aortic dissection Appendicitis Arrhythmia
Arthralgia Arthropathy Aspartate aminotransferase increased
Asthenia Asthma Atrial fibrillation Atrioventricular
block Atrioventricular block second degree Autonomic nervous
system imbalance Back pain Blindness Blindness transient
Blister Body temperature increased Bradycardia
Bradykinesia Breast cancer Breast disorder

Bronchospasm Bundle branch block Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardio-respiratory arrest
 Cardiovascular disorder Chest discomfort Chest pain
 Chills Cholelithiasis Cogwheel rigidity Colitis ischaemic
 Completed suicide Confusional state Connective tissue disorder
 Constipation Convulsion Cyst Death Depression suicidal
 Dermatitis Dermatitis bullous Diarrhoea Discomfort
 Disturbance in attention Dizziness Dry mouth Dyskinesia
 Dysmenorrhoea Dyspepsia Dyspnoea Dystonia Dysuria
 Elastosis perforans Electrocardiogram QT prolonged
 Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram change Eosinophil count increased
 Erectile dysfunction Eructation Erythema Extrapyrarnidal
 disorder Eye disorder Face oedema Faecal incontinence
 Fatigue Feeling abnormal Feeling cold Feeling jittery
 Flatulence Fluid retention Flushing Foetor hepaticus
 Fungal infection Galactorrhoea Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal pain
 Gastroesophageal reflux disease Genital disorder female
 Grand mal convulsion Grimacing Gynaecomastia Haemoglobin
 Haemorrhage Haemorrhoids Hallucination Headache
 Hepatic failure Hepatic function abnormal Hepatic necrosis
 Hepatitis Hepatobiliary disease Hepatocellular injury
 Hiccups Hyperbilirubinaemia Hyperhidrosis
 Hyperprolactinaemia Hypersensitivity Hypertension
 Hyperthermia Hypokalaemia Hypotension Hypovolaemia
 Hypoxia Ill-defined disorder Immune system disorder
 Incontinence Increased appetite Infarction Infection
 Infestation Injection site reaction Insomnia Intestinal
 ischaemia Ischaemia Jaundice Laryngeal oedema Laryngospasm
 Lethargy Leukopenia Liver disorder Local reaction Loss
 of consciousness Malaise Mediastinal disorder Menorrhagia
 Mental disability Mental disorder Methaemoglobinaemia
 Migraine Mood swings Movement disorder Muscle rigidity
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Musculoskeletal pain Myalgia Myocardial infarction
 Myocardial ischaemia Nausea Necrosis Neoplasm
 Neoplasm malignant Nervous system disorder Nervousness
 Neuroleptic malignant syndrome Neutropenia Oculogyric crisis
 Oedema Oedema peripheral Opisthotonus Oropharyngeal
 pain Osteoarthritis Osteoarthropathy Ovarian cyst Pain Pain
 in extremity Palpitations Paraesthesia Pharyngitis
 Pollakiuria Polyp Polyuria Porphyria Proctalgia Protrusion
 tongue Pruritus Rash Rectal haemorrhage Rectal tenesmus
 Renal pain Respiratory tract infection Sedation Shock Sinus
 congestion Sinusitis Sleep disorder Somnolence Sphincter of Oddi
 dysfunction Stridor Subileus Suicidal ideation Suicide attempt
 Sulphaemoglobinaemia Supraventricular tachycardia Syncope
 Tachycardia Tardive dyskinesia Tetanus Torsade de
 pointes Torticollis Toxic epidermal necrolysis Transaminases
 increased Tremor Trismus Type I hypersensitivity Upper
 respiratory tract infection Urethral disorder Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 output increased Urticaria Ventricular extrasystoles Ventricular

fibrillation Ventricular tachycardia Vertigo Vision
blurred Visual impairmentVomiting

Amiloride-sensitive sodium channel subunit alpha - Group: Channel
Treated with:

triamterene: approved small molecule (25 associated side effects)
For the treatment of edema associated with congestive heart failure, cirrhosis of the liver, and the nephrotic syndrome; also in steroid-induced edema, idiopathic edema, and edema due to secondary hyperaldosteronism.

amiloride: approved small molecule (85 associated side effects)
For use as adjunctive treatment with thiazide diuretics or other kaliuretic-diuretic agents in congestive heart failure or hypertension.

98 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agitation Alopecia
Anaemia Anaemia megaloblastic Anaphylactic shock
Angina pectoris Aplastic anaemia Arthralgia Asthenia
Atrioventricular block Atrioventricular block complete
Azotaemia Back pain Bladder pain Bladder spasm Blood
potassium increased Blood urea increased Bradycardia Chest pain
Coma Confusional state Constipation Cough Decreased
appetite Dehydration Dermatitis Diarrhoea Disturbance in sexual
arousal Dizziness Dry mouth Dyspepsia Dyspnoea Dysuria
Encephalopathy Erectile dysfunction Fatigue Feeling
abnormal Flatulence Foetor hepaticus Gastrointestinal haemorrhage
Gastrointestinal pain Gynaecomastia Haemoglobin Haemorrhage
Headache Hepatic encephalopathy Hepatic function abnormal
Hepatocellular injury Hyperkalaemia Hyperkinesia
Hypersensitivity Hypokalaemia Hyponatraemia Hypotension
Insomnia Intraocular pressure increased Jaundice
Libido decreased Liver disorder Muscle spasms Muscular
weakness Musculoskeletal discomfort Nasal congestion Nausea
Neck pain Nephritis Nephrolithiasis Nervousness Neutropenia
Oral pruritus Orthostatic hypotension Pain Pain in
extremity Palpitations Paraesthesia Paralysis flaccid
Peptic ulcer Photosensitivity reaction Pollakiuria
Polyuria Pruritus Rash Renal failure acute Shock
Somnolence Tension Thirst Thrombocytopenia Tinnitus
Tremor Tubulointerstitial nephritis Ulcer Urine output
increased Vertigo Visual impairmentVomiting

ATP-sensitive inward rectifier potassium channel 12 - Group: Channel
Treated with:

dofetilide: approved small molecule (59 associated side effects)
For the maintenance of normal sinus rhythm (delay in time to recurrence of atrial fibrillation/atrial flutter [AF/AFl]) in patients with atrial fibrillation/atrial flutter of greater than one week duration who have been converted to normal sinus rhythm

59 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Angina pectoris
 Angioedema Anxiety Arrhythmia supraventricular Arthralgia
 Asthenia Atrioventricular block Back pain Bradycardia
 Bundle branch block Cardiac arrest Cardiac disorder
 Cardiac failure Cerebral ischaemia Cerebrovascular
 accident Chest pain Cough Cytolytic hepatitis Death Dermatitis
 Diarrhoea Dizziness Dyspnoea Gastrointestinal pain
 Headache Hepatocellular injury Hyperhidrosis
 Hypertension Infarction Infection Influenza Insomnia
 Ischaemia Liver injury Loss of consciousness Migraine
 Musculoskeletal discomfort Myocardial infarction Nausea
 Oedema Oedema peripheral Pain Palpitations
 Paraesthesia Paralysis flaccid Rash Respiratory tract
 infection Shock Sudden death Supraventricular tachycardia
 Syncope Tachycardia Torsade de pointes Urinary tract
 infection VIIth nerve paralysis Ventricular fibrillation
 Ventricular tachycardia

Muscarinic acetylcholine receptor M3 - Group: Receptor

Treated with:

cevimeline: approved small molecule (422 associated side effects) For the treatment of symptoms of dry mouth in patients with Sjögren's Syndrome.

tramadol: approved small molecule (490 associated side effects) Indicated in the treatment of moderate to severe pain. Consider for those prone to constipation or respiratory depression. Tramadol is used to treat postoperative, dental, cancer, and acute musculoskeletal pain and as an adjuvant to NSAID therapy in patients with osteoarthritis.

succinylcholine: approved small molecule (27 associated side effects) Used in surgical procedures where a rapid onset and brief duration of muscle relaxation is needed (includes intubation, endoscopies, and ECT)

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

disopyramide: approved small molecule (85 associated side effects) For the treatment of documented ventricular arrhythmias, such as sustained ventricular tachycardia, ventricular pre-excitation and cardiac dysrhythmias. It is a Class Ia antiarrhythmic drug.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

ipratropium bromide: approved small molecule (116 associated side effects) For maintenance treatment of bronchospasm associated with chronic obstructive pulmonary disease, including chronic bronchitis and emphysema.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

metixene: approved small molecule (0 associated side effects)
Used for the symptomatic treatment of parkinsonism.

terfenadine: approved,withdrawn small molecule (0 associated side effects) For the treatment of allergic rhinitis, hay fever, and allergic skin disorders.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

trihexyphenidyl: approved small molecule (43 associated side effects) Indicated for the treatment of parkinson's disease and extrapyramidal reactions caused by drugs.

oxyphencyclimine:approved small molecule (0 associated side effects) For the treatment of peptic ulcer disease and the relief of smooth muscle spasms in gastrointestinal disorders.

procyclidine: approved small molecule (0 associated side effects) For the treatment of all forms of Parkinson's Disease, as well as control of extrapyramidal reactions induced by antipsychotic agents.

promazine: approved small molecule (0 associated side effects)
Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

hyoscyamine: approved small molecule (0 associated side effects) For treatment of bladder spasms, peptic ulcer disease, diverticulitis, colic, irritable bowel syndrome, cystitis, and pancreatitis. Also used to treat certain heart conditions, to control the symptoms of Parkinson's disease and rhinitis.

cyproheptadine: approved small molecule (63 associated side effects) For treatment of perennial and seasonal allergic rhinitis, vasomotor rhinitis, allergic conjunctivitis due to inhalant allergens and foods, mild uncomplicated allergic skin manifestations of urticaria and angioedema, amelioration of allergic reactions to blood or plasma, cold urticaria, dermatographism, and as therapy for anaphylactic reactions adjunctive to epinephrine.

imipramine:approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

methylscopolamine: approved small molecule (29 associated side effects) Used as adjunctive therapy for the treatment of peptic ulcer. Also used to treat nausea and vomiting due to motion sickness.

darifenacin: approved small molecule (69 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency.

tridihexethyl: approved small molecule (0 associated side effects) Used as an adjunct in the treatment of peptic ulcer disease and in Acquired nystagmus

anisotropine methylbromide: approved small molecule (0 associated side effects) For use in conjunction with antacids or histamine H₂-receptor antagonists in the

treatment of peptic ulcer, to reduce further gastric acid secretion and delay gastric emptying.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

atropine: approved small molecule (161 associated side effects) For the treatment of poisoning by susceptible organophosphorous nerve agents having cholinesterase activity as well as organophosphorous or carbamate insecticides.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

homatropine methylbromide: approved small molecule (0 associated side effects) Used in conjunction with antacids or histamine H₂-receptor antagonists in the treatment of peptic ulcers, gastric ulcers and duodenal ulcers, to reduce further gastric acid secretion and delay gastric emptying.

diphekanil methylsulfate: approved small molecule (0 associated side effects) Used in the treatment of peptic ulcer, gastric hyperacidity, and hypermotility in gastritis and pylorospasm, and in the treatment of hyperhidrosis (excessive perspiration).

benzquinamide: approved small molecule (0 associated side effects) Used to prevent and treat nausea and vomiting associated with anesthesia and surgery, administered intramuscularly or intravenously.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

cryptenamine: approved small molecule (0 associated side effects) For the treatment of hypertension.

tropicamide: approved small molecule (14 associated side effects) Indicated to induce mydriasis (dilation of the pupil) and cycloplegia (paralysis of the ciliary muscle of the eye) in diagnostic procedures, such as measurement of refractive errors and examination of the fundus of the eye.

brompheniramine: approved small molecule (27 associated side effects) For the treatment of the symptoms of the common cold and allergic rhinitis, such as runny nose, itchy eyes, watery eyes, and sneezing.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional

melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

tolterodine: approved small molecule (51 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

oxybutynin: approved small molecule (163 associated side effects) For the treatment of overactive bladder.

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

pilocarpine: approved small molecule (207 associated side effects) For the treatment of radiation-induced dry mouth (xerostomia) and symptoms of dry mouth in patients with Sjögrens syndrome.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

mivacurium: approved small molecule (18 associated side effects) For inpatients and outpatients, as an adjunct to general anesthesia, to facilitate tracheal intubation and to provide skeletal muscle relaxation during surgery or mechanical ventilation.

diphenidol: approved small molecule (0 associated side effects) For use in the prevention and symptomatic treatment of peripheral (labyrinthine) vertigo and associated nausea and vomiting that occur in such conditions as Meniere's disease and surgery of the middle and inner ear. Also for the control of nausea and vomiting associated with postoperative states, malignant neoplasms, labyrinthine disturbances, antineoplastic agent therapy, radiation sickness, and infectious diseases.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

pancuronium: approved small molecule (18 associated side effects) Used as a muscle relaxant during anesthesia and surgical procedures.

pipecuronium: approved small molecule (0 associated side effects) Used as a muscle relaxant during anesthesia and surgical procedures.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

tiotropium: approved small molecule (60 associated side effects)
Used in the management of chronic obstructive pulmonary disease (COPD).

solifenacin: approved small molecule (56 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency.

isopropamide: approved small molecule (0 associated side effects) For the treatment of a wide range of gastrointestinal disorders, including such conditions as peptic ulcer, gastritis, hyperchlorhydria, functional diarrhea, irritable or spastic colon, pyloroduodenal irritability, pylorospasm, acute nonspecific gastroenteritis, biliary dyskinesia and chronic cholelithiasis, duodenitis, gastrointestinal spasm; it may also be used to treat genitourinary spasm.

mepenzolate: approved small molecule (30 associated side effects)

fesoterodine: approved small molecule (50 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

methacholine: approved small molecule (0 associated side effects) It is most commonly used for diagnosing bronchial hyperreactivity, using the bronchial challenge test.

1188 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abdominal tenderness
Abnormal behaviour Abnormal dreams Abnormal faeces Abscess
Accommodation disorder Acidosis Acne Acute coronary syndrome
Acute myocardial infarction Acute psychosis Adenocarcinoma
Adjustment disorder Affect lability Ageusia Aggression Agitation
Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase decreased
Alanine aminotransferase increased Albuminuria Alcohol abuse Alcohol intolerance
Alkalosis Alopecia Altered state of consciousness Alveolitis allergic
Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaphylactic shock
Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable
Angioedema Angiopathy Angle closure glaucoma Anhidrosis Anisocytosis
Anorectal discomfort Anorectal disorder Anorgasmia Anosmia
Antinuclear antibody positive Antisocial behaviour Antisocial personality disorder
Anxiety Aortic aneurysm Aortic dissection Apathy Aphasia
Aphthous stomatitis Aplasia Aplastic anaemia Apnoea Appendicitis
Application site reaction Arrhythmia Arrhythmia supraventricular Arteriosclerosis
Arteritis Arthralgia Arthritis Arthropathy Asocial behaviour Aspartate aminotransferase increased
Asphyxia Aspiration Assisted fertilisation Asthenia Asthma Ataxia Atelectasis
Athetosis Atrial fibrillation Atrial flutter Atrioventricular block first degree
Atrioventricular dissociation Atrophic vulvovaginitis Atrophy Azoospermia
Azotaemia Back disorder Back pain Bacterial infection Balance disorder
Basal cell carcinoma Basophilia Benign breast neoplasm
Benign prostatic hyperplasia Biliary tract disorder

Bipolar I disorder Bipolar disorder Bladder dilatation
 Bladder discomfort Bladder neck obstruction Bladder
 pain Bleeding time prolonged Blepharitis Blepharospasm
 Blindness Blister Blood alkaline phosphatase increased
 Blood amylase increased Blood bilirubin increased Blood
 cholesterol increased Blood creatine phosphokinase increased Blood
 creatinine increased Blood disorder Blood electrolytes abnormal
 Blood glucose abnormal Blood glucose decreased Blood
 glucose increased Blood insulin increased Blood lactate
 dehydrogenase increased Blood potassium abnormal Blood
 potassium decreased Blood potassium increased Blood pressure
 abnormal Blood pressure diastolic decreased Blood pressure
 fluctuation Blood pressure increased Blood pressure systolic
 decreased Blood prolactin increased Blood sodium increased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bradycardia
 Bradykinesia Bradyphrenia Brain oedema Breast
 atrophy Breast cancer Breast cyst Breast disorder female
 Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breath odour Bronchitis Bronchopneumopathy
 Bronchospasm Bronchospasm paradoxical Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Burning sensation Bursitis Cachexia Calculus urinary
 Candidiasis Carbohydrate tolerance decreased Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac output decreased Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carpal tunnel syndrome Cataplexy
 Cataract Catatonia Cells in urine Cellulitis Cerebellar
 syndrome Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrovascular accident Cerebrovascular disorder
 Cerumen impaction Cervicitis Cervix disorder Change of bowel
 habit Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholelithiasis
 Cholestasis Cholinergic syndrome Chondropathy Chorea
 Choreoathetosis Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Ciliary muscle spasm Clonus
 Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat
 Colitis Colitis ulcerative Colonic obstruction Coma
 Completed suicide Condition aggravated Conduction disorder
 Confusional state Congenital eye disorder Conjunctival
 disorder Conjunctival hyperaemia Conjunctival oedema
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal
 Corneal lesion Corneal oedema Corneal opacity
 Costochondritis Cough Crying Crystal urine
 Crystalluria Cyanosis Cycloplegia Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Decubitus
 ulcer Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis

Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Dermoid cyst Diabetes mellitus
 Diabetic coma Diabetic hyperglycaemic coma Diabetic
 hyperosmolar coma Diabetic ketoacidosis Diarrhoea Diarrhoea
 haemorrhagic Diplopia Discomfort Disease progression
 Disorientation Dissociation Disturbance in attention
 Disturbance in sexual arousal Diverticulitis
 Diverticulum Dizziness Dizziness exertional Dizziness
 postural Drooling Drug abuse Drug dependence Drug eruption
 Drug ineffective Drug interaction Drug withdrawal syndrome
 Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer
 Duodenitis Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dystonia Dysuria Ear congestion
 Ear discomfort Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Elastosis perforans Elderly
 Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional disorder Emphysema
 Encephalopathy Endocrine disorder Endometrial disorder
 Energy increased Enteritis Enterocolitis Enuresis
 Eosinophil count increased Eosinophilia Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erysipelas Erythema Erythema multiforme Erythema nodosum
 Euphoric mood Eustachian tube disorder Exfoliative rash
 Exophthalmos Exostosis Extensor plantar response
 Extrapyrimal disorder Extrasystoles Extravasation
 Eye discharge Eye disorder Eye haemorrhage Eye
 infection Eye inflammation Eye irritation Eye pain Eyelid
 disorder Eyelid function disorder Eyelid oedema Eyelid
 ptosis Face oedema Facial pain Facial paresis Faecal
 incontinence Faecalith Faecaloma Faeces discoloured
 Faeces hard Failure to thrive Fasciitis Fasting Fatigue
 Fear Feeling abnormal Feeling cold Feeling hot Feeling
 jittery Female sexual dysfunction Fibrocystic breast disease
 Fibrosis Flank pain Flat affect Flatulence Fluid retention
 Flushing Folliculitis Food interaction Formication
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric disorder Gastric pH decreased Gastric
 ulcer Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal infection Gastrointestinal motility disorder
 Gastrointestinal pain Gastrointestinal sounds abnormal
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Genital disorder female Genital disorder male
 Gigantism Gingival bleeding Gingival hyperplasia Gingival
 pain Gingival recession Gingivitis Glaucoma Globulins
 increased Glomerulonephritis membranous Glossitis Glossodynia
 Glucose tolerance decreased Glucose tolerance impaired

Glycosuria Glycosylated haemoglobin increased Goitre Gout
 Grand mal convulsion Groin pain Gynaecomastia
 Haematemesis Haematochezia Haematocrit decreased
 Haematocrit increased Haematoma Haematuria Haemoglobin
 decreased Haemoglobin increased Haemoglobinaemia Haemoglobinuria
 Haemolysis Haemolytic anaemia Haemoptysis Haemorrhage
 Haemorrhage intracranial Haemorrhagic disorder
 Haemorrhoids Hair disorder Hallucination
 Hallucination, auditory Hallucination, visual Halo vision
 Hangover Head and neck cancer Head discomfort Headache
 Hearing impaired Heart disease congenital Heart rate
 irregular Helicobacter infection Hemiparesis Hemiplegia Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatic steatosis Hepatitis Hepatitis viral
 Hepatobiliary disease Hepatomegaly Hepatosplenomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups High density lipoprotein decreased Hirsutism
 Homicidal ideation Hordeolum Hormone level abnormal
 Hostility Hot flush Hyperacusis Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hypercalciuria
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hypernatraemia
 Hyperparathyroidism Hyperpathia Hyperphosphataemia
 Hyperplasia Hyperprolactinaemia Hyperproteinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hyperthermia Hyperthermia malignant
 Hyperthyroidism Hypertonia Hypertonic bladder
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hyphaema Hypoaesthesia Hypoaesthesia
 oral Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypoxia
 Idiopathic thrombocytopenic purpura Ileitis Ileus Ileus
 paralytic Ill-defined disorder Illusion Immune system disorder
 Immunoglobulins increased Impaired gastric emptying
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infertility female
 Infestation Inflammation Influenza Influenza like illness
 Ingrowing nail Inguinal hernia Injection site mass
 Injection site pain Injection site phlebitis Injection
 site reaction Insomnia Intention tremor Intentional self-
 injury Interstitial lung disease Intestinal functional
 disorder Intestinal obstruction Intestinal perforation Intraocular
 pressure increased Iritis Iron deficiency Iron deficiency
 anaemia Irritability Irritable bowel syndrome Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint crepitation Joint range of motion decreased Joint
 stiffness Joint swelling Judgement impaired Keratitis
 Keratoconjunctivitis sicca Ketoacidosis Ketosis

Laboratory test abnormal Labyrinthitis Lacrimal disorder
 Lacrimation decreased Lacrimation increased Laryngeal
 disorder Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichen planus Lichenoid keratosis Light anaesthesia Lip
 blister Lip dry Liver disorder Liver function test abnormal
 Localised infection Logorrhoea Loss of consciousness Loss
 of libido Low density lipoprotein increased Lower respiratory
 tract infection Lung adenocarcinoma stage I Lung disorder
 Lymphadenitis Lymphadenopathy Lymphocyte count abnormal
 Lymphocyte count decreased Lymphocyte count increased
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphopenia
 Macular hole Macule Major depression Malaise Male
 sexual dysfunction Malignant melanoma Mammogram abnormal
 Mania Masked facies Mass Mastitis Mediastinal disorder
 Megacolon Melaena Memory impairment Meningitis
 Menometrorrhagia Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation irregular Mental disability
 Mental disorder Mental retardation Mental status changes
 Metrorrhagia Microcytic anaemia Micturition disorder
 Micturition urgency Middle ear disorder Migraine
 Miosis Mitral valve incompetence Mobility decreased
 Monocyte count increased Monocytosis Mood swings Motion
 sickness Mouth haemorrhage Mouth ulceration Movement disorder
 Mucosal inflammation Mucosal ulceration Mucous membrane
 disorder Multiple sclerosis Muscle contractions involuntary
 Muscle contracture Muscle enzyme increased Muscle
 relaxant therapy Muscle rigidity Muscle spasms Muscle spasticity
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
 Nail discolouration Nail disorder Nasal congestion Nasal
 discomfort Nasal disorder Nasal dryness Nasal oedema Nasal
 polyps Nasal ulcer Nasopharyngitis Nausea Neck pain
 Necrosis Necrosis ischaemic Negativism Neoplasm
 Neoplasm malignant Nephritis Nephrolithiasis Nephrotic
 syndrome Nervous system disorder Nervousness Neuralgia
 Neuritis Neurodermatitis Neuroleptic malignant syndrome
 Neuropathy peripheral Neurosis Neutropenia Neutrophil count
 decreased Neutrophil count increased Night blindness Night
 sweats Nightmare Nocturia Nodal arrhythmia Nodal rhythm
 Normochromic normocytic anaemia Nuchal rigidity Nystagmus
 Obesity Obsessive thoughts Obstruction Obstructive
 airways disorder Ocular hyperaemia Oculogyric crisis Oedema mouth
 Oedema peripheral Oesophageal achalasia Oesophageal disorder
 Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oliguria Onychomycosis Open angle glaucoma Operative
 haemorrhage Opisthotonus Optic neuritis Oral candidiasis Oral
 disorder Oral pain Orchitis noninfective Orgasm abnormal
 Oropharyngeal discomfort Oropharyngeal pain

Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteomyelitis
 Osteonecrosis Osteopenia Osteoporosis Otitis externa
 Otitis media Ovarian cyst Ovarian disorder Pain Pain
 in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Papule Paraesthesia Paraesthesia oral Paralysis
 Paranoia Parity Parkinsonian gait Paronychia Parosmia
 Parotid gland enlargement Parotitis Pathological fracture
 Pelvic pain Peptic ulcer Pericardial effusion Pericardial
 haemorrhage Pericarditis Periodontitis Periorbital oedema
 Peripheral ischaemia Peripheral vascular disorder Peritonitis
 Personality disorder Petechiae Pharyngeal disorder
 Pharyngeal erythema Pharyngeal oedema Pharyngitis Phlebitis
 Phlebitis superficial Phobia Phonological disorder
 Photophobia Photopsia Photosensitivity reaction
 Piloerection Plantar fasciitis Platelet count decreased
 Platelet disorder Pleural disorder Pleural effusion Pleurisy
 Pneumonia Pneumonia aspiration Poisoning Pollakiuria
 Polycythaemia Polydipsia Polyp Polyuria Poor peripheral
 circulation Porphyria Post procedural haemorrhage Postpartum
 disorder Pregnancy Premature baby Premature delivery
 Premature ejaculation Premenstrual syndrome Pressure of
 speech Presyncope Priapism Proctalgia Productive cough
 Prostate cancer Prostatic disorder Prostatitis
 Prostatomegaly Protein total decreased Protein urine
 present Proteinuria Protrusion tongue Prurigo Pruritus
 Pruritus generalised Pruritus genital Psoriasis Psychiatric
 symptom Psychomotor retardation Psychotic disorder
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary function test decreased Pulmonary hypertension
 Pulmonary oedema Punctate keratitis Pupils unequal
 Purpura Pyelonephritis Pyuria Rales Rash erythematous
 Rash generalised Rash macular Rash maculo-papular Rash
 morbilliform Rash papular Rash pustular Rash
 scarlatiniform Rash vesicular Rectal haemorrhage Rectal
 prolapse Rectal tenesmus Red blood cell abnormality Red blood
 cell count decreased Red blood cell count increased Red blood
 cell sedimentation rate increased Reflux oesophagitis Regressive
 behaviour Renal failure acute Renal impairment Renal pain
 Reproductive tract disorder Respiratory alkalosis Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection Respiratory tract infection viral
 Restless legs syndrome Retching Retinal deposits Retinal
 detachment Retinal disorder Retinal haemorrhage Rhabdomyolysis
 Rheumatoid arthritis Rhinitis Rhinitis allergic Rhinitis
 seasonal Rhinorrhoea Rhonchi Rosacea Salivary gland
 enlargement Salivary gland pain Salivary hypersecretion
 Salpingitis Sarcosinaemia Scab Schizoaffective disorder
 Schizophreniform disorder Sciatica Scleral haemorrhage
 Scleritis Scleroderma Scotoma Seasonal allergy Seborrhoeic
 dermatitis Sedation Sensation of heaviness Sensory loss
 Sepsis Septic shock Sexual dysfunction Shock

Sialoadenitis Sicca syndrome Sinus arrest Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus disorder Sinus
 headache Sinus tachycardia Sinusitis Skin discolouration Skin
 disorder Skin exfoliation Skin hypertrophy Skin irritation Skin
 odour abnormal Skin papilloma Skin ulcer Skin warm Sleep
 apnoea syndrome Sleep disorder Sleep paralysis Sleep talking
 Sluggishness Small intestinal obstruction Sneezing
 Social avoidant behaviour Somnambulism Somnolence
 Speech disorder Sputum increased Squamous cell carcinoma
 Status asthmaticus Status epilepticus Stevens-Johnson
 syndrome Sticky skin Stomatitis Strabismus Strangury Stridor
 Stupor Subarachnoid haemorrhage Subdural haematoma
 Sudden death Suicidal ideation Suicide attempt
 Supraventricular extrasystoles Supraventricular tachycardia
 Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synovial cyst Synovitis
 Systemic lupus erythematosus Tachycardia Tachypnoea Tardive
 dyskinesia Tearfulness Temperature intolerance Tenderness
 Tendon disorder Tendonitis Tenosynovitis Tension
 Tension headache Teratogenicity Testicular disorder
 Testicular pain Testicular swelling Tetany Thinking
 abnormal Thirst Thought blocking Throat irritation Throat
 tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thyroid neoplasm
 Thyroiditis Tic Tinea pedis Tinnitus Tongue coated
 Tongue discolouration Tongue disorder Tongue dry Tongue
 geographic Tongue oedema Tongue paralysis Tongue spasm
 Tongue ulceration Tonsillar hypertrophy Tooth abscess Tooth
 disorder Tooth impacted Tooth infection Tooth malformation
 Toothache Torsade de pointes Torticollis Toxic epidermal
 necrolysis Tracheal disorder Tracheitis Transaminases increased
 Transient ischaemic attack Tremor Trismus Tuberculin
 test positive Tubulointerstitial nephritis Type I
 hypersensitivity Ulcer haemorrhage Ulcerative keratitis Unintended
 pregnancy Upper respiratory tract infection Urethral disorder
 Urethral pain Urethritis Urinary hesitation Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine analysis abnormal Urine
 flow decreased Urine output increased Urogenital disorder
 Urosepsis Urticaria Uterine disorder Uterine haemorrhage
 Uterine leiomyoma Uterine neoplasm Uterine spasm
 Uterovaginal prolapse VIIIth nerve paralysis Vaginal cyst
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular headache
 Vascular insufficiency Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular flutter Ventricular tachycardia
 Vertigo Viral diarrhoea Viral infection Vision blurred
 Visual acuity reduced Visual impairment Vitreous detachment
 Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
 infection Vulvovaginal pruritus Vulvovaginitis Water
 intoxication Weight decreased Weight fluctuation Weight
 increased Wheezing White blood cell count decreased White blood
 cell count increased White blood cell disorder White blood cells

urine positive Withdrawal syndrome Wound haemorrhageWound
infection Xerophthalmia Xerosis Yawning

Outer membrane protein F - Group: Channel

Treated with:

(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
molecule (0 associated side effects)
n-(6,7,9,10,17,18,20,21-
octahydrodibenzo[b,k][1,4,7,10,13,16]hexaoxacyclooctadecin-2-
yl)acetamide: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

Outer membrane protein W - Group: Other

Treated with:

lauryl dimethylamine-n-oxide: experimental small molecule
(0 associated side effects)
(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

C-C chemokine receptor type 5 - Group: Receptor

Treated with:

maraviroc: approved small molecule (157 associated side
effects) For treatment-experienced adult patients infected with
only CCR5-tropic HIV-1 detectable, who have evidence of viral
replication and HIV-1 strains resistant to multiple antiretroviral
agents.

157 known side effects mediated through drugs targeting this
protein:

Abdominal distension Abdominal neoplasm Abdominal pain upper
Acne Acute coronary syndrome Alopecia Amnesia
Anaemia Anal cancer Angina pectoris Angina unstable
Angiopathy Anogenital warts Anxiety Aortic dissection
Appetite disorder Arterial disorder Arterial occlusive disease
Bacterial infection Basal cell carcinoma Benign neoplasm
of skin Bile duct cancer Blood creatine phosphokinase increased
Body temperature increased Breast disorder Bronchitis
Candidiasis Cardiac disorder Cardiac failure acute
Cerebrovascular accident Clostridium difficile colitis
Colitis Conjunctivitis Connective tissue disorder
Constipation Convulsion Coronary artery disease
Coronary artery occlusion Cough Cyst Dementia Depression
Dermatitis Diarrhoea Diffuse large B-cell lymphoma
Discomfort Dizziness postural Dysaesthesia Dysthymic
disorder Ear disorder Ear infection Endocarditis
Endocrine neoplasm Endocrine neoplasm malignant Epilepsy

Erythema Eye disorder Eye infection Fatigue
 Flatulence Folliculitis Gastrointestinal disorder
 Gastrointestinal pain HIV infection Headache Hemianopia
 Hepatic cancer metastatic Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatobiliary disease Herpes virus
 infection Herpes zoster Hypertension Hypoplastic anaemia
 Hypotension Infarction Infection Infective myositis
 Infestation Inflammation Influenza Ischaemia Jaundice
 Jaundice cholestatic Lipodystrophy acquired Loss of
 consciousness Lymphoma Mediastinal disorder Meningitis
 Meningitis viral Mental disorder Metastases to liver
 Metastasis Musculoskeletal discomfort Myalgia Myocardial
 infarction Myocardial ischaemia Myositis Nasal congestion
 Nasopharyngeal cancer Nausea Neoplasm Neoplasm
 malignant Neoplasm skin Nervous system disorder Neuropathy
 peripheral Neutropenia Oedema Oesophageal candidiasis
 Oesophageal carcinoma Oesophageal disorder Orthostatic
 hypotension Osteonecrosis Otitis media Pain Pancytopenia
 Paraesthesia Paralysis Parasomnia Pneumonia Polyp
 Portal vein thrombosis Pruritus Rash generalised Respiration
 abnormal Respiratory disorder Respiratory tract infection
 Rhabdomyolysis Rhinitis Scotoma Septic shock Shock
 Sinusitis Skin cancer Skin papilloma Sleep disorder
 Squamous cell carcinoma Squamous cell carcinoma of skin
 Stomatitis Syncope T-cell lymphoma Thrombosis Tinea
 infection Tongue neoplasm Transaminases increased Tremor
 Ulcer Upper respiratory tract infection Urethral disorder
 Urinary tract disorder VIIIth nerve paralysis Varicella
 Venous thrombosis Viral infection Vomiting Zygomycosis

Urokinase plasminogen activator surface receptor - Group: Receptor
Treated with:

alteplase: approved biotech (0 associated side effects) For
management of acute myocardial infarction, acute ischemic stroke and
for lysis of acute pulmonary emboli

urokinase: approved biotech (0 associated side effects)
Urokinase can be used for the treatment of pulmonary embolism,
coronary artery thrombosis, IV catheter clearance, and venous and
arterial blood clots.

reteplase: approved biotech (0 associated side effects) For
lysis of acute pulmonary emboli, intracoronary emboli and management
of myocardial infarction

anistreplase: approved biotech (0 associated side effects)
For lysis of acute pulmonary emboli, intracoronary emboli and
management of myocardial infarction

tenecteplase: approved biotech (0 associated side effects)
For treatment of myocardial infarction and lysis of
intracoronary emboli

known side effects mediated through drugs targeting this protein:

Metabotropic glutamate receptor 1 - Group: Receptor

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

acamprosate: approved small molecule (212 associated side effects) For the maintenance of abstinence from alcohol in patients with alcohol dependence who are abstinent at treatment initiation

4-(1-amino-1-carboxy-ethyl)-benzoic acid: experimental small molecule (0 associated side effects)

212 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Abscess
Acne Acute coronary syndrome Agitation Alanine
aminotransferase increased Alcoholism Alopecia Amblyopia
Amnesia Anaemia Angina pectoris Anxiety Apathy
Arterial occlusive disease Arthralgia Arthritis Ascites
Aspartate aminotransferase increased Asthenia Asthma
Back pain Blindness Blister Blood alkaline phosphatase
increased Blood creatinine increased Blood lactate dehydrogenase
increased Blood uric acid increased Body temperature increased
Bronchitis Cardiac failure Cardiomyopathy Chest pain
Chills Cholecystitis Colitis Completed suicide
Confusional state Constipation Convulsion Cough Deafness
Death Decreased appetite Deep vein thrombosis
Depersonalisation Dermatitis Dermatitis bullous Dermatitis
exfoliative Diabetes mellitus Diarrhoea Diplopia Discomfort
Disturbance in sexual arousal Dizziness Dry mouth Dry
skin Duodenal ulcer Dysgeusia Dyspepsia Dysphagia Dyspnoea
Ecchymosis Eczema Ejaculation disorder Embolism
Encephalopathy Endophthalmitis Eosinophilia Epistaxis
Erectile dysfunction Eructation Face oedema Feeling abnormal
Flat affect Flatulence Gastric disorder Gastric ulcer
Gastritis Gastroenteritis Gastrointestinal haemorrhage
Gastrointestinal pain Goitre Gout Haematemesis
Haematuria Haemoglobin Haemorrhage Hallucination Headache
Hepatic cirrhosis Hepatic neoplasm malignant Hepatitis
Hernia Hostility Hyperbilirubinaemia Hyperglycaemia
Hyperhidrosis Hyperkinesia Hypersensitivity
Hypertension Hyperuricaemia Hypoaesthesia
Hyponatraemia Hypotension Hypothyroidism Hypovitaminosis
Ill-defined disorder Incontinence Increased appetite
Infarction Infection Influenza Insomnia Laryngospasm
Leukopenia Libido decreased Libido increased Liver function
test abnormal Loss of consciousness Lymphadenopathy
Lymphocytosis Malaise Mania Melaena Menorrhagia
Mental disability Mesenteric occlusion Metrorrhagia
Micturition urgency Migraine Monocytosis Mouth ulceration
Muscle spasms Muscle twitching Musculoskeletal discomfort
Myalgia Myocardial infarction Myopathy Nausea Neck
pain Neoplasm malignant Nephrolithiasis Nervousness Neuralgia
Neurosis Nocturia Oedema Oedema peripheral

Oesophagitis Orthostatic hypotension Pain
 Palpitations Pancreatitis Panophthalmitis
 Paraesthesia Paranoia Pharyngitis Phlebitis Photophobia
 Photosensitivity reaction Pneumonia Pollakiuria Polyuria
 Pruritus Psoriasis Psychotic disorder Pulmonary
 embolism Rash Rash maculo-papular Rash pustular Rectal
 haemorrhage Renal failure Renal failure acute Rheumatoid
 arthritis Rhinitis Salivary hypersecretion Sexual
 dysfunction Shock Somnolence Stomatitis Sudden death Suicidal
 ideation Suicide attempt Syncope Tachycardia Tension
 Thinking abnormal Thirst Thrombocytopenia Thrombophlebitis
 Tinnitus Torticollis Tremor Ulcer Urinary incontinence
 Urinary tract infection Urine output increased Urticaria
 Vaginal infection Vaginal inflammation Varicose vein
 Vasodilation procedure Vertigo Visual acuity reduced
 Visual impairment Vomiting Weight decreased Weight increased
 Withdrawal syndrome

Oligopeptide transporter, small intestine isoform - Group:

Transporter

Treated with:

ramipril: approved small molecule (147 associated side effects) For the management of mild to severe hypertension. May be used to reduce cardiovascular mortality following myocardial infarction in hemodynamically stable individuals who develop clinical signs of congestive heart failure within a few days following myocardial infarction. To reduce the rate of death, myocardial infarction and stroke in individuals at high risk of cardiovascular events. May be used to slow the progression of renal disease in individuals with hypertension, diabetes mellitus and microalbuminuria or overt nephropathy.

oseltamivir: approved small molecule (77 associated side effects) Oseltamivir (Tamiflu) is for the treatment of uncomplicated acute illness due to influenza infection in patients 1 year and older who have been symptomatic for no more than 2 days. It is also used for the prophylaxis of influenza in adult patients and adolescents 13 years and older.

cefmetazole: approved small molecule (0 associated side effects) For the treatment of infections caused by susceptible organisms.

ampicillin: approved small molecule (30 associated side effects) For treatment of infection (Respiratory, GI, UTI and meningitis) due to E. coli, P. mirabilis, enterococci, Shigella, S. typhosa and other Salmonella, nonpenicillinase-producing N. gonorrhoeae, H. influenzae, staphylococci, streptococci including streptoc

ceftazidime: approved small molecule (71 associated side effects) For the treatment of patients with infections caused by susceptible strains of organisms in the following diseases: lower respiratory tract infections, skin and skin structure infections, urinary tract infections, bacterial septicemia, bone and joint infections, gynecologic infections, intra abdominal infections (including peritonitis), and central nervous system infections (including meningitis).

loracarbef: approved small molecule (0 associated side effects)

Used to treat upper respiratory tract bacterial infections, chronic bronchitis, pneumonia, sinusitis, pharyngitis and tonsillitis, skin abscesses, urinary tract infections and pyelonephritis caused by *E. coli*, *S. pyogenes*, *S. aureus*, *S. saprophyticus*, *S. pneumoniae*, *H. influenzae*; and *M. catarrhalis*.

cefalotin: approved small molecule (0 associated side effects)

Used to prevent infection during surgery and to treat many kinds of infections of the blood, bone or joints, respiratory tract, skin, and urinary tract.

dicloxacillin: approved small molecule (66 associated side effects) Used to treat infections caused by penicillinase-producing staphylococci which have demonstrated susceptibility to the drug.

fosinopril: approved small molecule (155 associated side effects) For treating mild to moderate hypertension, use as an adjunct in treating congestive heart failure, and may be used to slow the rate of progression of renal disease in hypertensive individuals with diabetes mellitus and microalbuminuria or overt nephropathy.

cefotaxime: approved small molecule (55 associated side effects)

Used to treat gonorrhoea, meningitis, and severe infections including infections of the kidney (pyelonephritis) and urinary system. Also used before an operation to prevent infection after surgery.

trandolapril: approved small molecule (172 associated side effects) For the treatment of mild to moderate hypertension, as an adjunct in the treatment of congestive heart failure (CHF), to improve survival following myocardial infarction (MI) in individuals who are hemodynamically stable and demonstrate symptoms of left ventricular systolic dysfunction or signs of CHF within a few days following acute MI, and to slow progression of renal disease in hypertensive patients with diabetes mellitus and microalbuminuria or overt nephropathy.

cefdinir: approved small molecule (109 associated side effects) For the treatment of the respiratory, skin, soft tissue, and ENT infections caused by *H. influenzae*;

(including b-lactamase producing strains), *H. parainfluenzae* (including b-lactamase producing strains), *S. pneumoniae* (penicillin-susceptible strains), *S. pyogenes*, *S. aureus* (including b-lactamase producing strains), and *M. catarrhalis*.

benazepril: approved small molecule (103 associated side effects) For the treatment of hypertension. It may be used alone or in combination with thiazide diuretics.

cephalexin: approved small molecule (65 associated side effects)

For the treatment of respiratory tract infections caused by *Streptococcus pneumoniae* and *Streptococcus pyogenes*; otitis media due to *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Staphylococcus aureus*,

<i>Streptococcus pyogenes</i>, and <i>Moraxella catarrhalis</i>; skin and skin structure infections caused by <i>Staphylococcus aureus</i> and/or <i>Streptococcus pyogenes</i>; bone infections caused by <i>Staphylococcus aureus</i> and/or <i>Proteus mirabilis</i>; genitourinary tract infections, including acute prostatitis, caused by <i>Escherichia coli</i>, <i>Proteus mirabilis</i>, and <i>Klebsiella pneumoniae</i>.

valaciclovir: approved small molecule (0 associated side effects) For the treatment or suppression of cold sores (herpes labialis), herpes zoster (shingles), genital herpes in immunocompetent individuals, and recurrent genital herpes in HIV-infected individuals.

enalapril: approved small molecule (0 associated side effects) For the treatment of essential or renovascular hypertension and symptomatic congestive heart failure. It may be used alone or in combination with thiazide diuretics.

cefixime: approved small molecule (55 associated side effects)

For use in the treatment of the following infections when caused by susceptible strains of the designated microorganisms: (1) uncomplicated urinary tract infections caused by <i>Escherichia coli</i> and <i>Proteus mirabilis</i>; (2) otitis media caused by <i>Haemophilus influenzae</i> (beta-lactamase positive and negative strains), <i>Moraxella catarrhalis</i> (most of which are beta-lactamase positive), and <i>S. pyogenes</i>; (3) pharyngitis and tonsillitis caused by <i>S. pyogenes</i>; (4) acute bronchitis and acute exacerbations of chronic bronchitis caused by <i>Streptococcus pneumoniae</i> and <i>Haemophilus influenzae</i> (beta-lactamase positive and negative strains), and (5) uncomplicated gonorrhea (cervical/urethral) caused by <i>Neisseria gonorrhoeae</i> (penicillinase- and non-penicillinase-producing strains).

chlorpropamide: approved small molecule (33 associated side effects) For treatment of NIDDM in conjunction with diet and exercise.

moexipril: approved small molecule (74 associated side effects) For the treatment of hypertension.

lisinopril: approved small molecule (0 associated side effects) For the treatment of hypertension and symptomatic congestive heart failure. May be used in conjunction with thrombolytic agents, aspirin and/or β-blockers to improve survival in hemodynamically stable individuals following myocardial infarction. May be used to slow the progression of renal disease in hypertensive patients with diabetes mellitus and microalbuminuria or overt nephropathy.

nateglinide: approved small molecule (32 associated side effects) For the treatment of non-insulin dependent-diabetes mellitus in conjunction with diet and exercise.

perindopril: approved small molecule (187 associated side effects) For the treatment of mild to moderate essential hypertension, mild to moderate congestive heart failure, and to

reduce the cardiovascular risk of individuals with hypertension or post-myocardial infarction and stable coronary disease.

cefaclor: approved small molecule (132 associated side effects) For the treatment of certain infections caused by bacteria such as pneumonia and ear, lung, skin, throat, and urinary tract infections.

aminolevulinic acid: approved small molecule (30 associated side effects) Aminolevulinic acid plus blue light illumination using a blue light photodynamic therapy illuminator is indicated for the treatment of minimally to moderately thick actinic keratoses of the face or scalp.

quinapril: approved small molecule (123 associated side effects) For the treatment of hypertension and as adjunct therapy in the treatment of congestive heart failure. May also be used to slow the rate of progression of renal disease in hypertensive individuals with diabetes mellitus and microalbuminuria or overt nephropathy.

methylodopa: approved small molecule (67 associated side effects) For use in the treatment of hypertension.

cyclacillin: approved small molecule (0 associated side effects) For the treatment of bacterial infections caused by susceptible organisms.

glyburide: approved small molecule (52 associated side effects) Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

penicillin g: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

amoxicillin: approved small molecule (66 associated side effects) For the treatment of infections of the ear, nose, and throat, the genitourinary tract, the skin and skin structure, and the lower respiratory tract due to susceptible (only b-lactamase-negative) strains of *Streptococcus* spp. (a- and b-hemolytic strains only), *S. pneumoniae*, *Staphylococcus* spp., *H. influenzae*, *E. coli*, *P. mirabilis*, or *E. faecalis*. Also for the treatment of acute, uncomplicated gonorrhea (ano-genital and urethral infections) due to *N. gonorrhoeae* (males and females).

cefuroxime: approved small molecule (107 associated side effects) For the treatment of many different types of bacterial infections such as bronchitis, sinusitis, tonsillitis, ear infections, skin infections, gonorrhea, and urinary tract infections.

tolbutamide: approved small molecule (0 associated side effects) For treatment of NIDDM (non-insulin-dependent diabetes mellitus) in conjunction with diet and exercise.

cefadroxil: approved small molecule (63 associated side effects) For the treatment of the following infections (skin, UTI, ENT) caused by; *S. pneumoniae*, *H. influenzae*, staphylococci, *S.*

pyogenes (group A beta-hemolytic streptococci),
&E. coli, P. mirabilis, Klebsiella sp, coagulase-
negative staphylococci and Streptococcus pyogenes;
captopril: approved small molecule (112 associated side
effects) For the treatment of essential or renovascular
hypertension (usually administered with other drugs, particularly
thiazide diuretics). May be used to treat congestive heart failure
in combination with other drugs (e.g. cardiac glycosides, diuretics,
β-adrenergic blockers). May improve survival in patients
with left ventricular dysfunction following myocardial infarction.
May be used to treat nephropathy, including diabetic nephropathy.
ceftriaxone: approved small molecule (95 associated side
effects) For the treatment of the infections (respiratory, skin,
soft tissue, UTI, ENT) caused by S. pneumoniae, H. influenzae,
staphylococci, S. pyogenes (group A beta-hemolytic streptococci), E.
coli, P. mirabilis, Klebsiella sp, coagulase-negative staph
levodopa: approved small molecule (0 associated side effects)
For the treatment of idiopathic Parkinson's disease (Paralysis
Agitans), postencephalitic parkinsonism, symptomatic parkinsonism
which may follow injury to the nervous system by carbon monoxide
intoxication, and manganese intoxication.
ceftizoxime: approved small molecule (43 associated side
effects) For the treatment of infections due to susceptible
strains of microorganisms.
cefradine: approved small molecule (0 associated side effects)
cilazapril: approved small molecule (146 associated side
effects) Cilazapril is an ACE inhibitor class drug used in the
treatment of hypertension and heart failure.
spirapril: approved small molecule (0 associated side effects)
Spirapril is an ACE inhibitor class drug used to treat
hypertension.
cefepime: approved small molecule (73 associated side effects)
For the treatment of pneumonia (moderate to severe) caused by
&Streptococcus pneumoniae, including cases
associated with concurrent bacteremia, &Pseudomonas
aeruginosa, &Klebsiella pneumoniae, or
&Enterobacter species. Also for empiric treatment
of febrile neutropenic patients and uncomplicated and complicated
urinary tract infections (including pyelonephritis) caused by
&Escherichia coli or &Klebsiella
pneumoniae, when the infection is severe, or caused by
&Escherichia coli, &Klebsiella
pneumoniae, or &Proteus mirabilis, when
the infection is mild to moderate, including cases associated with
concurrent bacteremia with these microorganisms. Also for the
treatment of uncomplicated skin and skin structure infections caused
by &Staphylococcus aureus (methicillin-susceptible
strains only) or &Streptococcus pyogenes; and
complicated intra-abdominal infections (used in combination with
metronidazole) caused by &Escherichia coli,
viridans group streptococci, &Pseudomonas
aeruginosa, &Klebsiella pneumoniae,
&Enterobacter species, or &Bacteroides
fragilis.

ceftibuten: approved small molecule (0 associated side effects)
Used to treat acute bacterial exacerbations of chronic
bronchitis (ABECB), acute bacterial otitis media, pharyngitis, and
tonsillitis.

bestatin: experimental small molecule (0 associated side
effects)

azidocillin: approved small molecule (0 associated side
effects) For treatment of infection (Respiratory, GI, UTI and
meningitis) due to E. coli, P. mirabilis, enterococci, Shigella, S.
typhosa and other Salmonella, nonpenicillinase-producing N.
gonorrhoeae, H. influenzae, staphylococci, streptococci including
streptoc

577 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal behaviour Abnormal dreams
Abnormal faeces Abscess Acne Acute coronary syndrome
Acute generalised exanthematous pustulosis Acute hepatic
failure Acute respiratory failure Acute tonsillitis Affect
lability Ageusia Agitation Agranulocytosis Alanine
aminotransferase increased Alopecia Alveolitis allergic
Amblyopia Amenorrhoea Amnesia Anaemia Anaemia
haemolytic autoimmune Anal pruritus Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angina unstable
Angioedema Angiopathy Anorectal discomfort Anorectal
disorder Antinuclear antibody positive Anxiety Aortic
dissection Apathy Aphthous stomatitis Aplastic anaemia
Arrhythmia Arrhythmia supraventricular Arterial disorder
Arterial stenosis Arthralgia Arthritis Arthropathy Aspartate
aminotransferase increased Asphyxia Asterixis Asthenia
Asthma Ataxia Atrial fibrillation Atrial flutter
Atrioventricular block first degree Aura Azotaemia Back
pain Balance disorder Basophilia Blepharitis Blindness Blister
Blood albumin decreased Blood alkaline phosphatase
increased Blood amylase increased Blood bilirubin increased
Blood creatine phosphokinase increased Blood creatinine
decreased Blood creatinine increased Blood disorder Blood
lactate dehydrogenase increased Blood phosphorus decreased Blood
potassium increased Blood pressure increased Blood sodium
increased Blood urea increased Blood uric acid increased Blood
urine Blood urine present Body temperature decreased Body
temperature increased Bone pain Bradycardia Breast disorder
Breast enlargement Breast feeding Bronchioloalveolar
carcinoma Bronchitis Bronchospasm Cancer in remission
Candidiasis Cardiac arrest Cardiac disorder Cardiac failure
Cardiac failure congestive Cardiac fibrillation Cardiac
flutter Cardiac murmur Cardiac tamponade Cardio-respiratory
arrest Cardiogenic shock Cellulitis Cerebral infarction
Cerebrovascular accident Cerebrovascular disorder
Cerebrovascular insufficiency Cervical dysplasia Chest
pain Chills Choking sensation Cholelithiasis Cholestasis
Chromaturia Coagulopathy Cognitive disorder Colitis
Collagen-vascular disease Coma Conduction disorder
Confusional state Congenital anomaly Congenital arterial

malformation Conjunctival oedema Conjunctivitis Connective
tissue disorder Constipation Convulsion Coombs direct test
positive Coombs test positive Coordination abnormal Coronary
artery disease Cough Cranial nerve disorder Crystal urine
 Crystalluria Cutaneous vasculitis Cytolytic hepatitis
 Deafness Death Decreased appetite Dehydration Delirium
 Delusion Depressed level of consciousness Depressed mood
 Dermatitis Dermatitis atopic Dermatitis bullous Dermatitis
diaper Dermatitis exfoliative Dermatomyositis Developmental
delay Diabetes mellitus Diarrhoea Diarrhoea haemorrhagic Disability
 Discomfort Disseminated intravascular coagulation Disturbance
in sexual arousal Dizziness Dizziness postural Drug
hypersensitivity Drug interaction Drug intolerance Dry eye Dry
mouth Dry skin Dysaesthesia Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eczema Electrocardiogram abnormal
 Electrocardiogram change Enanthema Encephalopathy
 Endometrial sarcoma Enterocolitis haemorrhagic Enzyme
abnormality Eosinophilia Eosinophilic pneumonia Epistaxis
 Erectile dysfunction Erythema Erythema multiforme
 Erythema nodosum Erythropenia Eschar Extrasystoles
 Eye disorder Eye irritation Face oedema Fatigue
 Febrile neutropenia Feeling abnormal Feeling cold
 Fibrosis Flank pain Flat affect Flatulence Fluid retention
 Flushing Foetor hepaticus Fungal infection Gamma-
glutamyltransferase increased Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal infection Gastrointestinal pain
 Gastrointestinal tract irritation Generalised oedema
 Genital candidiasis Genital discharge Glossitis Glossodynia
 Glycosuria Gout Gynaecomastia Haematemesis
 Haematochezia Haematocrit decreased Haematoma Haematuria
 Haemoglobin Haemoglobin decreased Haemolysis Haemolytic
anaemia Haemoptysis Haemorrhage Haemorrhagic disorder
 Hallucination Headache Hearing impaired Hepatic enzyme
increased Hepatic failure Hepatic function abnormal Hepatic
necrosis Hepatitis Hepatitis acute Hepatitis cholestatic
 Hepatitis fulminant Hepatobiliary disease Hepatocellular
injury Hepatomegaly Hereditary disorder Herpes simplex
 Herpes virus infection Hot flush Hunger
 Hyperbilirubinaemia Hypercalcaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperlipidaemia Hyperprolactinaemia
 Hypersensitivity Hypertension Hypertensive crisis
 Hypertonia Hypertrophy Hyperuricaemia Hypoaesthesia
 Hypocalcaemia Hypoglycaemia Hyponatraemia
 Hypopituitarism Hypotension Hypothermia Hypovolaemia
 Ichthyosis acquired Idiopathic thrombocytopenic purpura
 Ileus Ill-defined disorder Illusion Immune system disorder
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Induration Infarction Infection
 Infestation Inflammation Influenza Injection site
inflammation Injection site pain Injection site reaction
 Insomnia Intermittent claudication Interstitial lung

disease Intertrigo candida Intestinal haemorrhage Intestinal
infarction Irritability Ischaemia Ischaemic stroke Jaundice
Jaundice cholestatic Joint swelling Laboratory test
abnormal Lacrimation increased Laryngeal disorder Laryngeal
oedema Laryngitis Laryngospasm Lethargy Leukocytoclastic
vasculitis Leukocytosis Leukopenia Libido decreased Lip oedema
Liver disorder Liver function test abnormal Liver injury
Local reaction Loss of consciousness Loss of libido Lower
respiratory tract infection Lung disorder Lymphadenopathy
Lymphocytosis Lymphopenia Malaise Male sexual
dysfunction Malnutrition Mean cell volume Mediastinal disorder
Melaena Memory impairment Menopausal symptoms Menstrual
disorder Mental disorder Micturition disorder Migraine without
aura Monocytosis Mood swings Mouth ulceration Mucocutaneous
candidiasis Mucous membrane disorder Multiple hereditary
exostosis Muscle spasms Muscle twitching Muscular weakness
Musculoskeletal discomfort Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myocardial infarction
Myocardial ischaemia Myocarditis Myoclonus Nail disorder
Nasal congestion Nasopharyngitis Nausea Neck pain
Necrosis Neoplasm malignant Nephritis Nephrolithiasis
Nephropathy Nephropathy toxic Nephrotic syndrome Nervous
system disorder Nervousness Neuralgia Neuropathy peripheral
Neutropenia Nightmare Nocturia Obstruction Obstructive
airways disorder Oedema Oedema peripheral Oesophageal disorder
Oesophageal ulcer Oesophagitis Oliguria Onycholysis Oral
candidiasis Oral herpes Oropharyngeal discomfort Oropharyngeal
pain Orthostatic hypotension Osteoarthritis Otitis media
Pain Pain in extremity Pallor Palpitations Pancreatic
disorder Pancreatitis Pancreatitis acute Pancytopenia
Paraesthesia Paralysis Pemphigoid Pemphigus Peptic
ulcer Pericarditis Peripheral coldness Peripheral vascular
disorder Peritonsillar abscess Pharyngitis Phlebitis Photophobia
Photosensitivity reaction Pica Pigmentation disorder
Platelet count decreased Platelet disorder Pleuritic pain
Pneumonia Pollakiuria Polyneuropathy Polyuria Porphyria
Porphyria non-acute Presyncope Proctocolitis Productive
cough Protein urine present Proteinuria Prothrombin level increased
Prothrombin time shortened Prurigo Pruritus Pruritus
genital Pseudomembranous colitis Psoriasis Psychosexual
disorder Psychotic disorder Pulmonary eosinophilia Pulmonary
fibrosis Purpura Rales Rash Rash erythematous Rash maculo-
papular Rash papular Rash pustular Raynaud's phenomenon
Rectal haemorrhage Red blood cell sedimentation rate
increased Renal artery stenosis Renal failure Renal failure
acute Renal impairment Renal pain Renal tubular disorder Respiration
abnormal Respiratory arrest Respiratory disorder Respiratory
failure Respiratory tract infection Rhabdomyolysis Rheumatic
fever Rhinitis seasonal Rhinorrhoea Salivary hypersecretion Scab
Scleroderma Scrotal oedema Seasonal allergy Seborrhoeic
dermatitis Sedation Sensitisation Sensory loss Serositis
Serum sickness Sexual dysfunction Shock Sialoadenitis
Sinusitis Skin cancer Skin candida Skin disorder Skin
exfoliation Skin hyperpigmentation Skin hypertrophy Skin induration
Skin infection Sleep disorder Sneezing Somnolence

Speech disorder Status epilepticus Stevens-Johnson
 syndrome Stomatitis Stridor Stupor Sudden death
 Superinfection Swelling Swelling face Swollen tongue
 Syncope Syphilis Systemic lupus erythematosus Tachycardia
 Tenderness Tension Thirst Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Tinea infection Tinnitus Tongue discolouration Tongue
 disorder Tongue oedema Tooth discolouration Toxic epidermal
 necrolysis Tracheobronchitis Transaminases increased Transient
 ischaemic attack Tremor Trismus Tubulointerstitial nephritis
 Tympanic membrane disorder Type IV hypersensitivity reaction
 Ulcer Upper gastrointestinal haemorrhage Upper respiratory
 tract infection Upper respiratory tract inflammation Upper-
 airway cough syndrome Urethral disorder Urethral pain Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine analysis abnormal Urine output increased
 Urticaria Vaginal discharge Vaginal infection Vaginal
 inflammation Varicose vein Vascular purpura Vascular stenosis
 Vasculitis Vasodilation procedure Ventricular extrasystoles
 Ventricular tachycardia Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Vulvovaginal candidiasis Vulvovaginal
 discomfort Vulvovaginal mycotic infection Vulvovaginal pruritus
 Weight decreased Weight increased White blood cell count
 decreased White blood cells urine positive

Neuronal acetylcholine receptor subunit alpha-6 - Group: Channel
 Treated with:

nicotine: approved small molecule (98 associated side effects)
 For the relief of nicotine withdrawal symptoms and as an aid
 to smoking cessation.

galantamine: approved small molecule (160 associated side
 effects) For the treatment of mild to moderate dementia of the
 Alzheimer's type. Has also been investigated in patients with mild
 cognitive impairment who did not meet the diagnostic criteria for
 Alzheimer's disease.

varenicline: approved small molecule (285 associated side
 effects) For use as an aid in smoking cessation.

371 known side effects mediated through drugs targeting this
 protein:

Abdominal discomfort Abdominal pain Abnormal dreams Abnormal
 faeces Acne Acute coronary syndrome Affect lability
 Aggression Agitation Amnesia Anaemia Anger Angina
 pectoris Angioedema Angiopathy Anxiety Aortic dissection
 Apathy Aphasia Aphthous stomatitis Apraxia
 Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arthralgia Arthritis Asthenia Asthma Ataxia
 Atrial fibrillation Atrioventricular block Back pain
 Balance disorder Bladder disorder Bladder pain Blindness
 Blindness transient Blister Blood alkaline phosphatase
 increased Blood pressure increased Blood urea increased Body
 temperature increased Bone pain Bradycardia Bradyphrenia
 Breast disorder Bronchitis Bronchospasm Bundle branch

block Cardiac disorder Cardiac failure Cardiac fibrillation
Cardiac flutter Cardiovascular disorder Cataract
Cataract subcapsular Cerebrovascular accident
Cerebrovascular disorder Change of bowel habit Chest
discomfort Chest pain Chills Chronic obstructive pulmonary
disease Circadian rhythm sleep disorder Coagulopathy
Completed suicide Confusional state Conjunctivitis Connective
tissue disorder Constipation Convulsion Coordination abnormal
Cor pulmonale Coronary artery disease Costochondritis
Cough Cystitis Cystitis noninfective Deafness Death
Decreased appetite Dehydration Delirium Delusion
Dependence Depressed mood Depression Dermatitis Dermatitis
bullous Diabetes mellitus Diarrhoea Discomfort Disorientation
Dissociation Disturbance in attention Disturbance in
sexual arousal Diverticulitis Dizziness Drug abuse Drug
dependence Drug hypersensitivity Dry eye Dry mouth Dry skin
Dysarthria Dysgeusia Dysmenorrhoea Dyspepsia Dysphagia
Dysphonia Dysphoria Dyspnoea Ear pain Eczema
Electrocardiogram QT prolonged Electrocardiogram ST segment
Electrocardiogram ST segment depression Electrocardiogram T
wave amplitude decreased Electrocardiogram T wave inversion
Electrocardiogram abnormal Embolism Emotional disorder
Endocrine disorder Enterocolitis Epistaxis Erectile
dysfunction Eructation Erythema Erythema multiforme Euphoric
mood Extrasystoles Eye disorder Eye irritation Eye pain
Fatigue Feeling abnormal Feeling cold Flat affect
Flatulence Flushing Frustration Fungal infection Gallbladder
disorder Gastric disorder Gastric ulcer Gastritis
Gastroenteritis Gastrointestinal disorder Gastrointestinal
haemorrhage Gastrointestinal pain Gastroesophageal reflux disease
Gingival pain Gingivitis Glycosuria Gravitational oedema
Haematemesis Haematochezia Haematuria Haemoglobin
Haemorrhage Hallucination Headache Hepatic enzyme
increased Hepatitis Hepatobiliary disease Hiccups Homicidal
ideation Hormone level abnormal Hostility Hot flush
Hyperglycaemia Hyperhidrosis Hyperkalaemia
Hyperkinesia Hyperlipidaemia Hypersensitivity Hypersomnia
Hypertension Hypertonia Hypoaesthesia Hypocalcaemia
Hypogeusia Hypoglycaemia Hypokalaemia Hypokinesia
Hypotension Ill-defined disorder Immune system disorder
Incontinence Increased appetite Increased bronchial
secretion Infarction Infection Infestation Influenza Influenza
like illness Initial insomnia Insomnia Intestinal obstruction
Irritability Ischaemia Joint stiffness Lacrimation
increased Lethargy Leukocytosis Libido decreased Libido
increased Liver disorder Liver function test abnormal Loss of
consciousness Lower gastrointestinal haemorrhage Lung disorder
Lymphadenopathy Malaise Mania Mediastinal disorder
Melaena Menopausal symptoms Menorrhagia Menstrual
disorder Mental disability Mental disorder Mental retardation
Middle insomnia Migraine Mood swings Mouth ulceration
Multiple sclerosis Muscle contractions involuntary
Muscle enzyme increased Muscle spasms Musculoskeletal
chest pain Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal pain Musculoskeletal stiffness Myalgia

Mydriasis Myocardial infarction Myocardial ischaemia
 Myopia Myositis Nasal congestion Nasal discomfort Nasal
 ulcer Nasopharyngitis Nausea Nephrolithiasis Nervous system
 disorder Nervousness Neuropathy peripheral Night blindness Night
 sweats Nightmare Nocturia Nystagmus Obstruction Obstructive
 airways disorder Ocular vascular disorder Oedema Oedema
 peripheral Oesophageal disorder Oesophageal perforation
 Oesophagitis Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Osteoporosis Pain Pain in extremity
 Pain in jaw Palpitations Pancreatitis acute Panic
 reaction Paraesthesia Paralysis Paranoia Parosmia
 Peripheral ischaemia Peripheral vascular disorder Pharyngitis
 Photophobia Photosensitivity reaction Platelet count
 decreased Pleurisy Pneumonia Pollakiuria Polydipsia Polyuria
 Pruritus Psoriasis Psychomotor skills impaired Psychotic
 disorder Pulmonary embolism Purpura Rash Rash generalised
 Rectal haemorrhage Renal failure Renal failure acute
 Respiratory disorder Respiratory tract infection Restless
 legs syndrome Rhinitis Rhinorrhoea Salivary hypersecretion
 Scotoma Semen analysis abnormal Sensory disturbance
 Sensory loss Sexual dysfunction Shock Sinus congestion
 Sinusitis Sleep disorder Sneezing Snoring Somnolence
 Splenomegaly Sputum increased Stomatitis Suicidal ideation
 Suicide attempt Supraventricular tachycardia Syncope
 Tachycardia Tenderness Tension Terminal insomnia Thinking
 abnormal Thirst Throat irritation Thrombocytopenia
 Thrombocytosis Thrombosis Thyroid disorder Tinnitus
 Tobacco user Tongue coated Tooth disorder Transient
 ischaemic attack Tremor Ulcer Upper respiratory tract infection
 Upper-airway cough syndrome Urethral disorder Urethral syndrome
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Urine abnormality Urine analysis
 abnormal Urine output increased Urticaria VIIIth nerve paralysis
 Vaginal discharge Vascular dementia Vascular purpura Ventricular
 extrasystoles Ventricular tachycardia Vertigo Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vitreous floaters Vomiting Weight decreased Weight increased
 Withdrawal syndrome

Epidermal growth factor receptor - Group: Enzyme

Treated with:

cetuximab: approved biotech (0 associated side effects) For
 treatment of EGFR-expressing metastatic colorectal cancer in
 patients who are refractory to other irinotecan-based chemotherapy
 regimens. Cetuximab is also indicated for treatment of squamous cell
 carcinoma of the head and neck in conjunction with radiation
 therapy.

trastuzumab: approved biotech (0 associated side effects)
 For treatment of early stage HER2-positive breast cancer, or
 metastatic breast cancer that substantially overexpress HER2.

lidocaine: approved small molecule (120 associated side
 effects) For production of local or regional anesthesia by
 infiltration techniques such as percutaneous injection and
 intravenous regional anesthesia by peripheral nerve block techniques

such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks.

gefitinib: approved small molecule (98 associated side effects)

For the continued treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of either platinum-based or docetaxel chemotherapies.

erlotinib: approved small molecule (118 associated side effects) For the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of at least one prior chemotherapy regimen. Also for use, in combination with gemcitabine, as the first-line treatment of patients with locally advanced, unresectable or metastatic pancreatic cancer.

lapatinib: approved small molecule (0 associated side effects)

Indicated in combination with capecitabine for the treatment of patients with advanced or metastatic breast cancer whose tumors overexpress the human epidermal receptor type 2 (HER2) protein and who have received prior therapy including an anthracycline, a taxane, and trastuzuma.

panitumumab: approved biotech (0 associated side effects)

For the treatment of EGFR-expressing, metastatic colorectal carcinoma that is refractory to fluoropyrimidine-, oxaliplatin-, and irinotecan- containing chemotherapy regimens.

flavopiridol: experimental small molecule (0 associated side effects) Investigated for use/treatment in esophageal cancer, leukemia (lymphoid), lung cancer, liver cancer, and lymphoma (unspecified).

s-{3-[(4-anilinoquinazolin-6-yl)amino]-3-oxopropyl}-l-cysteine: experimental small molecule (0 associated side effects)

n-[4-(3-bromo-phenylamino)-quinazolin-6-yl]-acrylamide: experimental small molecule (0 associated side effects)

248 known side effects mediated through drugs targeting this protein:

Abdominal pain Acidosis Acne Acute coronary syndrome Acute respiratory distress syndrome Agitation Alanine aminotransferase increased Alopecia Alveolitis Amblyopia Anaemia Anaphylactic shock Anaphylactoid reaction Angioedema Angiopathy Anorectal disorder Anterior spinal artery syndrome Anxiety Aortic dissectionApnoea Arachnoiditis Arrhythmia Arthralgia Aspartate aminotransferase increased Asthenia Atrial fibrillation Atrial flutter Atrioventricular block Back pain Blepharitis Blister Body temperature increased Bone pain Bradycardia Bronchiolitis Bronchospasm Bundle branch block Burning sensationCancer painCardiac arrest Cardiac disorder Cardiac fibrillation Cardiac flutter Cardiac output decreased Cauda equina syndrome Cerebral haemorrhage Cerebrovascular accident Chills Colitis Conduction disorder Confusional stateConjunctival hyperaemia Conjunctivitis Constipation Convulsion Corneal erosion CoughCranial nerve paralysis Decreased appetite Deep vein thrombosis DehydrationDepressed level of consciousness Dermatitis Dermatitis bullous Dermatitis exfoliative Diarrhoea Diplegia Diplopia Disease progression Disorientation Dizziness Drug interaction Dry skin

Dysarthria Dysgeusia Dyspepsia Dysphagia Dyspnoea
 Effusion Elderly Electrocardiogram QT prolonged
 Electrolyte imbalance Epistaxis Erythema Erythema
 multiforme Euphoric mood Extravasation Eye disorder Eye
 pain Fatigue Febrile neutropenia Feeling abnormal Feeling hot
 Fibrosis Flatulence Fluid overload Flushing Foetor
 hepaticus Gastritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gingivitis Haematemesis
 Haematochezia Haematuria Haemoglobin Haemolytic anaemia
 Haemoptysis Haemorrhage Headache Hepatic cancer metastatic
 Hepatic failure Hepatic function abnormal Hepatocellular
 injury Hirsutism Hyperacusis Hyperaemia Hyperaesthesia
 Hyperhidrosis Hypersensitivity Hypertension
 Hyperthermia Hypoaesthesia oral Hypokalaemia
 Hypomagnesaemia Hypotension Hypoxia Idiopathic pulmonary
 fibrosis Ileus Immune system disorder Incontinence Infarction
 Infection Infestation Inflammation Insomnia
 Interstitial lung disease Ischaemia Keratitis
 Keratoconjunctivitis sicca Laryngeal oedema Laryngospasm
 Leukoderma Liver disorder Local reaction Loss of
 consciousness Lung disorder Lung infection Lung infiltration
 Maculopathy Mediastinal disorder Melaena Meningism
 Meningitis Metastases to liver Metastasis
 Methaemoglobinaemia Microangiopathic haemolytic anaemia
 Miosis Monoplegia Mouth ulceration Muscle twitching
 Musculoskeletal discomfort Myalgia Myocardial depression
 Myocardial infarction Nail disorder Nausea Neoplasm
 Neoplasm malignant Nervous system disorder Nervousness
 Neuropathy peripheral Neutropenia Obliterative bronchiolitis
 Oedema Oedema peripheral Optic nerve disorder
 Oropharyngeal discomfort Oropharyngeal pain
 Osteoarthritis Pain Pancreatic carcinoma Pancreatitis
 Papule Paraesthesia oral Paralysis Paraplegia Paronychia
 Peptic ulcer Peptic ulcer haemorrhage Petechiae
 Phlebitis Pleural disorder Pleural effusion Pneumoconiosis
 Pneumonia Pruritus Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary haemorrhage Pulmonary
 toxicity Rash Rash pustular Renal failure Renal failure
 acute Respiratory arrest Respiratory depression Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 paralysis Retinitis pigmentosa Rosacea Scrotal oedema
 Seborrhoeic dermatitis Sensory loss Shock Sicca syndrome
 Sinus arrhythmia Skin exfoliation Skin fissures Skin
 hyperpigmentation Sneezing Somnolence Stomatitis Syncope
 Tenderness Tension Thrombocytopenia Thrombophlebitis
 Thrombosis Tinnitus Toxic epidermal necrolysis Tremor
 Ulcer Ulcer haemorrhage Ulcerative keratitis Urinary
 incontinence Urinary retention Urticaria Venous thrombosis
 Ventricular fibrillation Vision blurred Visual impairment
 Vomiting Weight decreased

Neuronal acetylcholine receptor subunit alpha-3 - Group: Channel
 Treated with:

nicotine: approved small molecule (98 associated side effects)
For the relief of nicotine withdrawal symptoms and as an aid to smoking cessation.

galantamine: approved small molecule (160 associated side effects)
For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

levamisole: approved small molecule (0 associated side effects)

pentolinium: approved small molecule (0 associated side effects)
Used to produce controlled hypotension during surgical procedures and in hypertensive crises.

bupropion: approved small molecule (441 associated side effects)
For the treatment of depression and as aid to smoking cessation.

levomethadyl acetate: approved small molecule (0 associated side effects)
For the treatment and management of opiate dependence. It is sometimes used to treat severe pain in terminal patients.

varenicline: approved small molecule (285 associated side effects)
For use as an aid in smoking cessation.

583 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abnormal dreams
Abnormal faeces Abscess Acne Acute coronary syndrome
Affect lability Aggression Agitation Akathisia Akinesia
Alopecia Altered state of consciousness Amblyopia
Amenorrhoea Amnesia Anaemia Anaphylactic shock Anger
Angina pectoris Angioedema Angiopathy Anxiety Aortic
dissection Apathy Aphasia Aphthous stomatitis Application
site reaction Apraxia Arrhythmia Arrhythmia supraventricular
Arterial disorder Arthralgia Arthritis Asthenia Asthma
Ataxia Atrial fibrillation Atrioventricular block
Atrioventricular block complete Back pain Balance disorder
Basal cell carcinoma Bipolar I disorder Bipolar disorder
Bladder disorder Bladder pain Blindness Blindness
transient Blister Blood alkaline phosphatase increased Blood
pressure increased Blood urea increased Body temperature
increased Bone pain Bradycardia Bradykinesia Bradyphrenia
Breast calcifications Breast cancer Breast disorder
Breast enlargement Breast tenderness Breath odour
Bronchitis Bronchospasm Bruxism Bundle branch block
Bursitis Cardiac disorder Cardiac failure Cardiac
fibrillation Cardiac flutter Cardiovascular disorder
Carpal tunnel syndrome Cataract Cataract subcapsular
Cerebrovascular accident Cerebrovascular disorder
Change of bowel habit Chest discomfort Chest pain Chills
Chronic obstructive pulmonary disease Circadian rhythm sleep
disorder Circumoral oedema Coagulopathy Cold sweat Colitis
Coma Completed suicide Confusional state Conjunctivitis
Conjunctivitis infective Connective tissue disorder
Constipation Convulsion Coordination abnormal Cor
pulmonale Coronary artery disease Costochondritis Cough

Crocodile tears syndrome Cystitis Cystitis noninfective
 Cytolytic hepatitis Deafness Death Decreased appetite
 Defaecation urgency Dehydration Delirium Delusion
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis exfoliative Diabetes mellitus
 Diarrhoea Diplopia Discomfort Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Drug abuse Drug
 dependence Drug hypersensitivity Dry eye Dry mouth Dry skin
 Duodenal ulcer Duodenal ulcer haemorrhage Dysarthria
 Dysgeusia Dyskinesia Dyslexia Dysmenorrhoea Dyspareunia
 Dyspepsia Dysphagia Dysphonia Dysphoria Dyspnoea
 Dystonia Dysuria Ear infection Ear pain Ecchymosis
 Eczema Ejaculation disorder Electrocardiogram QT
 prolonged Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram T wave amplitude decreased
 Electrocardiogram T wave inversion Electrocardiogram abnormal
 Electroencephalogram abnormal Embolism Emotional
 disorder Endocrine disorder Energy increased Enterocolitis
 Enuresis Epicondylitis Epistaxis Erectile dysfunction
 Eructation Erythema multiforme Euphoric mood
 Extrapyrmidal disorder Extrasystoles Eye disorder
 Eye irritation Eye pain Face oedema Fatigue Feeling
 abnormal Feeling cold Feeling hot Feeling jittery Feeling of
 despair Female sexual arousal disorder Flank pain Flat affect
 Flatulence Flushing Folliculitis Food allergy
 Frequent bowel movements Frustration Fungal infection
 Gallbladder disorder Gastric disorder Gastric pH decreased
 Gastric ulcer Gastritis Gastritis viral Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrooesophageal reflux disease
 Genital rash Gingival bleeding Gingival pain Gingivitis
 Glossitis Glycosuria Gravitational oedema Gynaecomastia
 Haematemesis Haematochezia Haematuria Haemoglobin
 Haemorrhage Hair colour changes Hallucination
 Hallucination, auditory Headache Hearing impaired Heart
 rate irregular Hepatic enzyme increased Hepatic function
 abnormal Hepatitis Hepatitis C Hepatobiliary disease
 Hepatocellular injury Hernia Herpes virus infection
 Herpes zoster Hiccups Hirsutism Homicidal ideation
 Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hyperacusis Hyperaesthesia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkinesia Hyperlipidaemia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hypertonic bladder Hypertrophy Hyperventilation
 Hypoaesthesia Hypocalcaemia Hypogeusia Hypoglycaemia
 Hypokalaemia Hypokinesia Hypomania Hypotension Hypotonia
 Hypotrichosis Ill-defined disorder Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Increased tendency to bruise Infarction Infection
 Infestation Influenza Influenza like illness Infrequent bowel

movements Inguinal hernia Initial insomnia Insomnia
 Interstitial lung disease Intestinal obstruction Intestinal
 perforation Intraocular pressure increased Irritability
 Ischaemia Jaundice Joint stiffness Joint swelling
 Keratitis Keratoconjunctivitis sicca Lacrimation decreased
 Lacrimation increased Laryngitis Latex allergy Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Lip dry Liver disorder Liver function test abnormal Liver
 injury Localised infection Loss of consciousness Lower
 gastrointestinal haemorrhage Lung disorder Lymphadenopathy
 Maculopathy Malaise Mania Mediastinal disorder Melaena
 Memory impairment Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation irregular Mental disability
 Mental disorder Mental retardation Metrorrhagia
 Micturition disorder Micturition urgency Middle insomnia
 Migraine Mood swings Motion sickness Mouth ulceration
 Multiple sclerosis Muscle contractions involuntary
 Muscle enzyme increased Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle tightness Muscle
 twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Mydriasis Myocardial infarction Myocardial ischaemia
 Myoclonus Myopia Myositis Nasal congestion Nasal
 discomfort Nasal dryness Nasal ulcer Nasopharyngitis Nausea
 Neck pain Neoplasm Neoplasm malignant Nephrolithiasis
 Nervous system disorder Nervousness Neuralgia Neuropathy
 peripheral Night blindness Night sweats Nightmare Nipple pain
 Nocturia Nystagmus Obstruction Obstructive airways disorder
 Ocular vascular disorder Oedema Oedema mouth
 Oedema peripheral Oesophageal disorder Oesophageal
 perforation Oesophagitis Oral pain Orgasm abnormal
 Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteoporosis Ovarian cyst Ovarian
 disorder Pain Pain in extremity Pain in jaw Painful erection
 Pallor Palpitations Pancreatitis Pancreatitis
 acute Pancytopenia Panic attack Panic reaction
 Paraesthesia Paralysis Paranoia Parkinsonism
 Parosmia Pelvic infection Peripheral coldness Peripheral
 ischaemia Peripheral vascular disorder Perseveration Pharyngitis
 Pharyngitis streptococcal Phlebitis Photophobia
 Photosensitivity reaction Platelet count decreased
 Pleurisy Pleuritic pain Pneumonia Pollakiuria Polydipsia
 Polyp Polyuria Premenstrual syndrome Procedural pain
 Prostate infection Prostatic disorder Prurigo
 Pruritus Pruritus generalised Psoriasis Psychomotor
 skills impaired Psychotic disorder Pulmonary congestion
 Pulmonary embolism Purpura Rash Rash erythematous Rash
 generalised Rash maculo-papular Rectal haemorrhage Renal
 failure Renal failure acute Renal pain Respiration abnormal
 Respiratory disorder Respiratory tract congestion Respiratory
 tract infection Restless legs syndrome Retinitis pigmentosa
 Rhabdomyolysis Rhinitis Rhinitis seasonal Rhinorrhoea
 Salivary hypersecretion Salpingitis Sciatica Scotoma
 Seasonal allergy Sebaceous gland disorder Sedation Semen

analysis abnormal Sensation of heaviness Sensory disturbance
 Sensory loss Serum sickness Sexual dysfunction Shock
 Sicca syndrome Sinus congestion Sinus disorder Sinus
 headache Sinusitis Skin disorder Skin irritation Skin odour
 abnormal Sleep disorder Sneezing Snoring Somnambulism
 Somnolence Splenomegaly Sputum increased Stomatitis
 Stress Suicidal ideation Suicide attempt Supraventricular
 tachycardia Swelling Swelling face Syncope Tachycardia
 Tardive dyskinesia Tenderness Tendon disorder Tendonitis
 Tension Tension headache Terminal insomnia Testicular pain
 Testicular swelling Thinking abnormal Thirst Throat
 irritation Thrombocytopenia Thrombocytosis Thrombosis Thyroid
 disorder Tinea infection Tinea pedis Tinnitus Tobacco user
 Tongue coated Tongue disorder Tongue oedema Tonsillitis
 Tooth abscess Tooth disorder Tooth infection Toothache
 Transient ischaemic attack Tremor Trichotillomania Type
 IV hypersensitivity reaction Ulcer Ulcer haemorrhage Upper respiratory
 tract infection Upper-airway cough syndrome Urethral disorder
 Urethral pain Urethral syndrome Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 output increased Urticaria VIIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Vaginitis bacterial Vascular dementia Vascular purpura
 Vasodilation procedure Ventricular extrasystoles Ventricular
 tachycardia Vertigo Viral diarrhoea Viral infection Vision
 blurred Visual acuity reduced Visual impairment Vitreous floaters
 Vocal cord disorder Vomiting Vulvovaginal discomfort
 Weight decreased Weight increased Wheezing Withdrawal
 syndrome Wound infection Yawning

Amiloride-sensitive sodium channel subunit beta - Group: Channel
 Treated with:
 triamterene: approved small molecule (25 associated side
 effects) For the treatment of edema associated with congestive
 heart failure, cirrhosis of the liver, and the nephrotic syndrome;
 also in steroid-induced edema, idiopathic edema, and edema due to
 secondary hyperaldosteronism.
 amiloride: approved small molecule (85 associated side effects)
 For use as adjunctive treatment with thiazide diuretics or
 other kaliuretic-diuretic agents in congestive heart failure or
 hypertension.

98 known side effects mediated through drugs targeting this protein:
 Abdominal distension Abdominal pain Agitation Alopecia
 Anaemia Anaemia megaloblastic Anaphylactic shock
 Angina pectoris Aplastic anaemia Arthralgia Asthenia
 Atrioventricular block Atrioventricular block complete
 Azotaemia Back pain Bladder pain Bladder spasm Blood
 potassium increased Blood urea increased Bradycardia Chest pain
 Coma Confusional state Constipation Cough Decreased
 appetite Dehydration Dermatitis Diarrhoea Disturbance in sexual
 arousal Dizziness Dry mouth Dyspepsia Dyspnoea Dysuria
 Encephalopathy Erectile dysfunction Fatigue Feeling

abnormal Flatulence Foetor hepaticus Gastrointestinal haemorrhage
 Gastrointestinal pain Gynaecomastia Haemoglobin Haemorrhage
 Headache Hepatic encephalopathy Hepatic function abnormal
 Hepatocellular injury Hyperkalaemia Hyperkinesia
 Hypersensitivity Hypokalaemia Hyponatraemia Hypotension
 Insomnia Intraocular pressure increased Jaundice
 Libido decreased Liver disorder Muscle spasms Muscular
 weakness Musculoskeletal discomfort Nasal congestion Nausea
 Neck pain Nephritis Nephrolithiasis Nervousness Neutropenia
 Oral pruritus Orthostatic hypotension Pain Pain in
 extremity Palpitations Paraesthesia Paralysis flaccid
 Peptic ulcer Photosensitivity reaction Pollakiuria
 Polyuria Pruritus Rash Renal failure acute Shock
 Somnolence Tension Thirst Thrombocytopenia Tinnitus
 Tremor Tubulointerstitial nephritis Ulcer Urine output
 increased Vertigo Visual impairment Vomiting

Glutamate receptor, ionotropic kainate 4 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Voltage-dependent L-type calcium channel subunit alpha-1F - Group: Channel

Treated with:

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

mibefradil: withdrawn small molecule (0 associated side effects)
 For the treatment of angina and high blood pressure.

139 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Acne Acute coronary syndrome Alanine aminotransferase increased Alopecia Anaemia Anaphylactic shock Angioedema Arthralgia Asthenia Atrioventricular block Atrioventricular block complete Atrioventricular dissociation Balance disorder Blindness Blood alkaline

phosphatase increased Blood lactate dehydrogenase increased Blood
 prolactin increased Blood urea increased Bradycardia
 Bronchospasm Cardiac failure Cardiac failure congestive
 Cardiomyopathy Cerebrovascular accident Chest pain
 Cholestasis Confusional state Constipation Convulsion Deep
 vein thrombosis Depressive symptom Dermatitis Diarrhoea
 Diplopia Discomfort Disseminated intravascular coagulation
 Dissociation Dizziness Dry mouth Dyspepsia Dyspnoea
 Ecchymosis Electrocardiogram abnormal Erectile dysfunction
 Erythema Erythema multiforme Extrapyrarnidal disorder
 Fasting Fatigue Feeling abnormal Feeling cold Fluid
 retention Flushing Galactorrhoea Gastrointestinal disorder
 Gastrointestinal haemorrhage Gingival hyperplasia
 Gynaecomastia Haematoma Headache Hepatic enzyme
 increased Hepatic function abnormal Hepatitis Hyperhidrosis
 Hyperkeratosis Hyperplasia Hyperprolactinaemia
 Hypersensitivity Hypertension Hypertrophic cardiomyopathy
 Hypertrophy Hypoaesthesia Hyponatraemia Hypotension Ileus
 paralytic Infection Influenza Insomnia Intermittent
 claudication Jaundice Joint swelling Laryngospasm
 Lethargy Liver function test abnormal Loss of consciousness
 Macule Muscle fatigue Muscle spasms Muscular weakness
 Musculoskeletal discomfort Myalgia Myocardial infarction
 Nausea Nystagmus Oedema Oedema peripheral
 Oligomenorrhoea Orthostatic hypotension Pain
 Palpitations Paraesthesia Paralysis Pharyngitis
 Platelet count decreased Pollakiuria Pruritus Pulmonary
 oedema Purpura Quadriparesis Rash Rash maculo-papular
 Respiratory failure Respiratory tract infection Rhinitis
 Sensory loss Shock Sinus arrest Sinusitis Sleep
 disorder Somnolence Syncope Tachycardia Thrombocytopenia
 Thrombosis Tinnitus Tremor Upper respiratory tract
 infection Urticaria Vascular purpura Vasculitis Vasospasm
 Venous thrombosis Vertigo Vision blurred Visual acuity
 reduced Visual impairment Vomiting Wheezing

Neuropeptide S receptor - Group: Receptor

Treated with:

halothane: approved small molecule (10 associated side effects)
 For the induction and maintenance of general anesthesia

10 known side effects mediated through drugs targeting this protein:

Arrhythmia Cardiac arrest Chills Hepatic necrosis
 Hyperpyrexia Hypotension Nausea Necrosis Respiratory
 arrest Vomiting

Thiamine transporter 1 - Group: Transporter

Treated with:

thiamine: approved, nutraceutical small molecule (18 associated
 side effects) For the treatment of thiamine and niacin deficiency
 states, Korsakov's alcoholic psychosis, Wernicke-Korsakov syndrome,
 delirium, and peripheral neuritis.

18 known side effects mediated through drugs targeting this protein:
Agitation Anaphylactic shock Angioedema Asthenia Cyanosis
Death Feeling hot Haemoglobin Haemorrhage Hyperhidrosis
Hypersensitivity Induration Oedema Pruritus Pulmonary
oedema Tenderness Throat tightness Urticaria

Insulin receptor substrate 1 - Group: Other

Treated with:

[4-({5-(aminocarbonyl)-4-[(3-methylphenyl)amino]pyrimidin-2-yl}amino)phenyl]acetic acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

TGF-beta receptor type-1 - Group: Enzyme

Treated with:

4-(3-pyridin-2-yl-1h-pyrazol-4-yl)quinoline: experimental small molecule (0 associated side effects)

naphthyridine inhibitor: experimental small molecule (0 associated side effects)

3-(4-fluorophenyl)-2-(6-methylpyridin-2-yl)-5,6-dihydro-4h-pyrrolo[1,2-b]pyrazole: experimental small molecule (0 associated side effects)

n-[4-(5-fluoro-6-methylpyridin-2-yl)-5-quinoxalin-6-yl-1h-imidazol-2-yl]acetamide: experimental small molecule (0 associated side effects)

2-(6-methylpyridin-2-yl)-n-pyridin-4-ylquinazolin-4-amine: experimental small molecule (0 associated side effects)

n-1h-indazol-5-yl-2-(6-methylpyridin-2-yl)quinazolin-4-amine: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Peripheral plasma membrane protein CASK - Group: Enzyme

Treated with:

formic acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Folate receptor gamma - Group: Receptor

Treated with:

folic acid: approved, nutraceutical small molecule (0 associated side effects) For treatment of folic acid deficiency, megaloblastic anemia and in anemias of nutritional supplements, pregnancy, infancy, or childhood.

known side effects mediated through drugs targeting this protein:

G protein-activated inward rectifier potassium channel 2 - Group:
Channel

Treated with:

halothane: approved small molecule (10 associated side effects)
For the induction and maintenance of general anesthesia

10 known side effects mediated through drugs targeting this protein:
Arrhythmia Cardiac arrest Chills Hepatic necrosis
Hyperpyrexia Hypotension Nausea Necrosis Respiratory
arrest Vomiting

Solute carrier organic anion transporter family member 3A1 - Group:
Transporter

Treated with:

conjugated estrogens: approved small molecule (219 associated
side effects) For the treatment of moderate to severe vasomotor
symptoms associated with the menopause, atrophic vaginitis,
osteoporosis, hypoestrogenism due to hypogonadism, castration,
primary ovarian failure, breast cancer (for palliation only), and
Advanced androgen-dependent carcinoma of the prostate (for
palliation only)

aminohippurate: approved small molecule (0 associated side
effects) Used to measure effective renal plasma flow (ERPF) and to
determine the functional capacity of the tubular excretory
mechanism.

methotrexate: approved small molecule (209 associated side
effects) For the treatment of gestational choriocarcinoma,
chorioadenoma destruens and hydatidiform mole. Also for the
treatment of severe psoriasis and severe, active, classical or
definite rheumatoid arthritis.

alprostadil: approved small molecule (0 associated side
effects) For palliative, not definitive, therapy to temporarily
maintain the patency of the ductus arteriosus until corrective or
palliative surgery can be performed in neonates who have congenital
heart defects and who depend upon the patent ductus for survival.
Also for the treatment of erectile dysfunction due to neurogenic,
vasculogenic, psychogenic, or mixed etiology.

dinoprostone: approved small molecule (0 associated side
effects) For the termination of pregnancy during the second
trimester (from the 12th through the 20th gestational week as
calculated from the first day of the last normal menstrual period),
as well as for evacuation of the uterine contents in the management
of missed abortion or intrauterine fetal death up to 28 weeks of
gestational age as calculated from the first day of the last normal
menstrual period. Also used in the management of nonmetastatic
gestational trophoblastic disease (benign hydatidiform mole). Other
indications include improving the cervical inducibility (cervical
"ripening") in pregnant women at or near term with a medical or
obstetrical need for labor induction, and the management of
postpartum hemorrhage.

penicillin g: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

iloprost: approved small molecule (46 associated side effects) Used for the treatment of pulmonary arterial hypertension.

taurocholic acid:experimental small molecule (0 associated side effects)

372 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal pain Abscess Acne Acute coronary syndrome
Affect lability Aggression Agitation Agranulocytosis
Alopecia Alveolitis Alveolitis allergic Amenorrhoea
Anaemia Anaphylactic shock Anaphylactoid reaction
Angioedema Angiopathy Anxiety Aphasia Aplastic anaemia
Arterial thrombosis Arthralgia Arthropathy Asthenia
Asthma Ataxia Azoospermia Azotaemia Back pain
Benign neoplasm Bladder pain Blindness
transient Blood albumin decreased Blood alkaline phosphatase
increased Blood glucose decreased Blood glucose increased
Blood pressure increased Blood triglycerides increased
Blood uric acid increased Body temperature increased Bone
disorder Bone pain Breast discharge Breast discomfort Breast
disorder Breast enlargement Breast mass Breast neoplasm
Breast pain Breast swelling Breast tenderness Bronchitis
Bronchospasm Candidiasis Carbohydrate tolerance decreased
Cardiac failure Cardiac failure congestive Cell death
Cerebral artery thrombosis Cerebral thrombosis
Cerebrovascular accident Cervical discharge Cervix
disorder Chest pain Chills Chloasma Chorea Cognitive
disorder Colitis ischaemic Coma Confusional state Conjunctivitis
Connective tissue disorder Constipation Convulsion
Coronary artery thrombosis Cough Cryptococcosis Cyanosis
Cystitis Cystitis noninfective Cytomegalovirus infection
Death Decreased appetite Deep vein thrombosis Dementia
Dental plaque Depression Dermatitis Dermatitis exfoliative
Diabetes mellitus Diarrhoea Discomfort Dizziness Drug
interaction Dry eye Dysarthria Dysgeusia Dysmenorrhoea
Dyspepsia Dysplasia Dyspnoea Dysuria Ear pain
Ecchymosis Ectropion of cervix Effusion Embolism
Embolism venous Encephalopathy Endometrial cancer
Endometrial hypertrophy Endometriosis Enteritis
Eosinophilia Epilepsy Epistaxis Erectile dysfunction
Erythema Erythema multiforme Erythema nodosum
Extravasation Eye disorder Fatigue Febrile
neutropenia Feeling abnormal Fibrocystic breast disease Fibrosis
Flatulence Fluid retention Flushing Folliculitis
Furuncle Galactorrhoea Gallbladder disorder Gamma-
glutamyltransferase increased Gastrointestinal disorder
Gastrointestinal pain Gastrointestinal toxicity Generalised
oedema Genital discharge Gingival bleeding Gingivitis Glossitis

Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Gynaecomastia Haemangioma Haematemesis Haematocrit
 decreased Haematuria Haemoglobin Haemoptysis Haemorrhage
 Haemorrhagic disorder Headache Hemiparesis Hepatic cirrhosis
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatitis acute Hepatobiliary disease Herpes virus
 infection Herpes zoster Hirsutism Histoplasmosis
 Hyperbilirubinaemia Hypercalcaemia Hyperglycaemia
 Hyperhidrosis Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypogammaglobulinaemia
 Hypotension Hypothyroidism Ill-defined disorder Infarction
 Infection Infertility Inflammation Influenza Injection
 site pain Insomnia Interstitial lung disease Intra-uterine
 death Irritability Jaundice Jaundice cholestatic Laboratory
 test abnormal Lacrimal disorder Lacrimation increased Laryngitis
 Leiomyoma Lethargy Leukoencephalopathy Leukopenia Liver
 function test abnormal Loss of consciousness Loss of libido Lung
 disorder Lung infection Lymphadenopathy Lymphoma
 Lymphoproliferative disorder Maculopathy Malaise Mass
 Melaena Meningioma benign Meningitis Meningitis aseptic
 Menorrhagia Menstrual disorder Mental disorder
 Metrorrhagia Migraine Mood swings Mouth ulceration
 Muscle rigidity Muscle spasms Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myocardial infarction Nausea Neck pain Necrosis
 Neoplasm Neoplasm malignant Nephropathy Nerve root lesion
 Nervous system disorder Nervousness Neuritis Neuropathy
 peripheral Neutropenia Nipple pain Nocardiosis Nodule Nuchal
 rigidity Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Opportunistic infection Optic neuritis
 Osteoarthritis Osteonecrosis Osteoporosis Ovarian
 cancer Pain in extremity Palpitations Pancreatic disorder
 Pancreatitis Pancytopenia Paraesthesia Paresis
 Pelvic pain Pericardial effusion Pericarditis Petechiae
 Pharyngitis Phlebitis Photosensitivity reaction
 Pigmentation disorder Pleural disorder Pleural effusion
 Pneumocystis jiroveci pneumonia Pneumonia Pneumonia
 cytomegaloviral Pollakiuria Polyuria Porphyria Precocious
 puberty Productive cough Protein urine present Proteinuria
 Pruritus genital Puberty Pulmonary embolism Pulmonary
 fibrosis Pulmonary function test decreased Pulmonary oedema
 Pulmonary toxicity Purpura Radiculopathy Rales Rash
 generalised Renal failure Renal failure acute Renal tubular
 disorder Respiratory depression Respiratory failure Respiratory
 tract infection Retinal vein thrombosis Retinitis pigmentosa
 Rhinitis Sensory loss Sepsis Shock Sinusitis Skin
 burning sensation Skin exfoliation Skin necrosis Skin ulcer Smear
 cervix abnormal Soft tissue necrosis Somnolence Speech disorder
 Spinal cord disorder Stomatitis Subcutaneous nodule
 Sudden death Supraventricular tachycardia Swelling
 Syncope Tachycardia Telangiectasia Tenderness Tension
 Thrombocytopenia Thrombophlebitis superficial Thrombosis
 Tinnitus Tooth abscess Toxic epidermal necrolysis

Trismus Tumour lysis syndrome Ulcer Upper respiratory tract infection Ureteric obstruction Urethral disorder Urinary tract disorder Urine output increased Urticaria Uterine cancer Uterine cervical erosion Uterine leiomyoma Uterine spasm Vaginal discharge Vaginal haemorrhage Varicose vein Vasculitis Vasodilation procedure Venous thrombosis Vertigo Vision blurred Visual acuity reduced Visual impairment Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic infection Vulvovaginal pruritus Weight increased Wheezing Withdrawal bleed X-linked lymphoproliferative syndrome

membrane-associated glucocorticoid-binding protein LAGS - Group: Other

Treated with:

stanozolol: approved small molecule (0 associated side effects)

Stanozolol is a synthetic anabolic steroid with therapeutic uses in treating C1-inhibitor deficient hereditary angioedema. C1-inhibitor is a protease that inhibits the complement system (part of the innate immune system), a biochemical chain of reactions which assists the body in removing pathogens from the body. Stanozolol may help control attacks of hereditary angioedema. Stanozolol can be administered orally or intramuscularly.

known side effects mediated through drugs targeting this protein:

Oligopeptide ABC transporter, periplasmic oligopeptide-binding protein - Group: Transporter

Treated with:

formic acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Metabotropic glutamate receptor 3 - Group: Receptor

Treated with:

acamprosate: approved small molecule (212 associated side effects) For the maintenance of abstinence from alcohol in patients with alcohol dependence who are abstinent at treatment initiation

212 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Abscess
Acne Acute coronary syndrome Agitation Alanine
aminotransferase increased Alcoholism Alopecia Amblyopia
Amnesia Anaemia Angina pectoris Anxiety Apathy
Arterial occlusive disease Arthralgia Arthritis Ascites
Aspartate aminotransferase increased Asthenia Asthma
Back pain Blindness Blister Blood alkaline phosphatase
increased Blood creatinine increased Blood lactate dehydrogenase

increased Blood uric acid increased Body temperature increased
 Bronchitis Cardiac failure Cardiomyopathy Chest pain
 Chills Cholecystitis Colitis Completed suicide
 Confusional state Constipation Convulsion Cough Deafness
 Death Decreased appetite Deep vein thrombosis
 Depersonalisation Dermatitis Dermatitis bullous Dermatitis
 exfoliative Diabetes mellitus Diarrhoea Diplopia Discomfort
 Disturbance in sexual arousal Dizziness Dry mouth Dry
 skin Duodenal ulcer Dysgeusia Dyspepsia Dysphagia Dyspnoea
 Ecchymosis Eczema Ejaculation disorder Embolism
 Encephalopathy Endophthalmitis Eosinophilia Epistaxis
 Erectile dysfunction Eructation Face oedema Feeling abnormal
 Flat affect Flatulence Gastric disorder Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Goitre Gout Haematemesis
 Haematuria Haemoglobin Haemorrhage Hallucination Headache
 Hepatic cirrhosis Hepatic neoplasm malignant Hepatitis
 Hernia Hostility Hyperbilirubinaemia Hyperglycaemia
 Hyperhidrosis Hyperkinesia Hypersensitivity
 Hypertension Hyperuricaemia Hypoaesthesia
 Hyponatraemia Hypotension Hypothyroidism Hypovitaminosis
 Ill-defined disorder Incontinence Increased appetite
 Infarction Infection Influenza Insomnia Laryngospasm
 Leukopenia Libido decreased Libido increased Liver function
 test abnormal Loss of consciousness Lymphadenopathy
 Lymphocytosis Malaise Mania Melaena Menorrhagia
 Mental disability Mesenteric occlusion Metrorrhagia
 Micturition urgency Migraine Monocytosis Mouth ulceration
 Muscle spasms Muscle twitching Musculoskeletal discomfort
 Myalgia Myocardial infarction Myopathy Nausea Neck
 pain Neoplasm malignant Nephrolithiasis Nervousness Neuralgia
 Neurosis Nocturia Oedema Oedema peripheral
 Oesophagitis Orthostatic hypotension Pain
 Palpitations Pancreatitis Panophthalmitis
 Paraesthesia Paranoia Pharyngitis Phlebitis Photophobia
 Photosensitivity reaction Pneumonia Pollakiuria Polyuria
 Pruritus Psoriasis Psychotic disorder Pulmonary
 embolism Rash Rash maculo-papular Rash pustular Rectal
 haemorrhage Renal failure Renal failure acute Rheumatoid
 arthritis Rhinitis Salivary hypersecretion Sexual
 dysfunction Shock Somnolence Stomatitis Sudden death Suicidal
 ideation Suicide attempt Syncope Tachycardia Tension
 Thinking abnormal Thirst Thrombocytopenia Thrombophlebitis
 Tinnitus Torticollis Tremor Ulcer Urinary incontinence
 Urinary tract infection Urine output increased Urticaria
 Vaginal infection Vaginal inflammation Varicose vein
 Vasodilation procedure Vertigo Visual acuity reduced
 Visual impairment Vomiting Weight decreased Weight increased
 Withdrawal syndrome

Prostaglandin F2-alpha receptor - Group: Receptor

Treated with:

travoprost: approved small molecule (62 associated side effects)
 Ophthalmic solution used for the reduction of elevated

intraocular pressure in patients with open-angle glaucoma or ocular hypertension who are intolerant of other intraocular pressure lowering medications or insufficiently responsive (failed to achieve target IOP determined after multiple measurements over time) to another intraocular pressure lowering medication.

latanoprost: approved small molecule (54 associated side effects) For the reduction of elevated intraocular pressure in patients with open-angle glaucoma or ocular hypertension.

bimatoprost: approved small molecule (90 associated side effects) For the reduction of elevated intraocular pressure in patients with open angle glaucoma or ocular hypertension who are intolerant of other intraocular pressure lowering medications or insufficiently responsive (failed to achieve target IOP determined after multiple measurements over time) to another intraocular pressure lowering medication.

dinoprost tromethamine: approved small molecule (0 associated side effects) Used for aborting second-trimester pregnancy (between the twelfth to eighteenth week of gestation) and in incomplete abortion or for therapeutic abortion in cases of intrauterine fetal death and congenital abnormalities incompatible with life. Also used at low-doses for medically indicated induction of labor at term. Also injected intra-arterially for use as a vasodilator to assist in angiography.

tafluprost: approved small molecule (0 associated side effects) For the treatment of glaucoma (Open Angle) and intraocular hypertension.

135 known side effects mediated through drugs targeting this protein:

Angina pectoris Anxiety Arthritis Asthenia Asthenopia
Asthma Back pain Bladder pain Blepharitis
Blepharospasm Blindness Blister Bradycardia Bronchitis
Burning sensation Cataract Chalazion Chest pain
Conjunctival disorder Conjunctival haemorrhage
Conjunctival hyperaemia Conjunctival oedema
Conjunctivitis Conjunctivitis allergic Corneal erosion
Corneal oedema Corneal staining Cough Cystitis Cystitis
noninfective Cystoid macular oedema Dermatitis Dermatitis atopic
Dermatitis bullous Diabetic retinopathy Diplopia
Discomfort Dissociation Dizziness Dry eye Dry mouth
Dyspepsia Dyspnoea Embolism Erythema Erythema of
eyelid Eye discharge Eye disorder Eye inflammation Eye
irritation Eye naevus Eye oedema Eye pain Eye pruritus Eye
swelling Eyelid irritation Eyelid oedema Eyelid pain Eyelids
pruritus Fatigue Gastrointestinal disorder Growth of
eyelashes Haemoglobin Haemorrhage Hair growth abnormal Headache
Hepatic function abnormal Herpes virus infection Hirsutism
Hordeolum Hyperaemia Hypercholesterolaemia Hypersensitivity
Hypotension Incontinence Infection Inflammation
Influenza Insomnia Iritis Keratitis Keratitis
herpetic Keratopathy Lacrimation increased Lens disorder Liver
function test abnormal Macular oedema Madarosis Melanocytic
naevus Nasopharyngitis Nervousness Ocular hyperaemia Oedema
Oedema peripheral Pain Palpitations Pharyngitis Photophobia
Pigmentation disorder Prostatic disorder Pruritus

Punctate keratitis Rash Respiratory tract infection
Retinal artery embolism Retinal detachment Retinal
disorder Retinal haemorrhage Retinal pigmentation Rhinitis
Scab Scotoma Sensation of foreign body Sinusitis Skin
discolouration Skin hyperpigmentation Skin reaction Somnolence
Swelling Tenderness Tension Toxic epidermal necrolysis
Trichorrhexis Upper respiratory tract infection Urinary
incontinence Urinary tract infection Urine abnormalityUrine
analysis abnormalUveitis Vision blurred Visual acuity reduced
Visual impairmentVitreous detachment Vitreous floaters
Vitreous haemorrhage

High-affinity choline transporter 1 - Group: Transporter

Treated with:

choline: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Voltage-dependent N-type calcium channel subunit alpha-1B - Group:
Channel

Treated with:

amlodipine: approved small molecule (136 associated side
effects) For the treatment of hypertension and chronic stable
angina.

verapamil: approved small molecule (113 associated side
effects) For the treatment of hypertension, angina, and cluster
headache prophylaxis.

gabapentin: approved small molecule (456 associated side
effects) For the management of postherpetic neuralgia in adults
and as adjunctive therapy in the treatment of partial seizures with
and without secondary generalization in patients over 12 years of
age with epilepsy.

levetiracetam: approved small molecule (157 associated side
effects) Used as adjunctive therapy in the treatment of partial
onset seizures in adults and children 4 years of age and older with
epilepsy.

536 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Abdominal pain upper
Abnormal behaviour Abnormal dreams Abnormal faeces
Abscess Accommodation disorder Acne Acute coronary
syndrome Affect lability Ageusia Aggression Agitation
Albuminuria Alcohol intolerance Alopecia Altered state of
consciousness Amblyopia Amenorrhoea Amnesia Anaemia
Anaphylactic shock Angina pectoris Angioedema Angiopathy
Anorectal disorder Antisocial behaviour Antisocial
personality disorder Anuria Anxiety Aortic dissection
Apathy Aphasia Apnoea Apraxia Areflexia
Arrhythmia Arthralgia Arthritis Arthropathy Asocial behaviour

Aspiration Asthenia Asthma Ataxia Atrial
 fibrillation Atrioventricular block Atrioventricular block
 complete Atrioventricular dissociation Aura Back pain
 Balance disorder Bladder pain Bleeding time prolonged
 Blindness Blister Blood alkaline phosphatase increased
 Blood lactate dehydrogenase increased Blood pressure
 increased Blood prolactin increased Blood urea abnormal Body
 temperature increased Bone pain Bradycardia Breast cancer
 Breast enlargement Breast pain Bronchitis Bronchospasm
 Bursitis Candidiasis Capillary fragility increased
 Cardiac disorder Cardiac failure congestive Cardiac
 fibrillation Cardiomyopathy Cardiovascular disorder
 Cataract Cellulitis Central nervous system neoplasm
 Cerebellar syndrome Cerebrovascular accident Cheilitis
 Chest pain Chills Cholecystitis Cholelithiasis
 Cholestasis Choreoathetosis Chorioretinitis Chronic
 obstructive pulmonary disease Coagulopathy Cold sweat
 Colitis Coma Completed suicide Confusional state
 Conjunctival hyperaemia Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal disorder Costochondritis Cough
 Cushingoid Cystitis Cystitis noninfective Dandruff
 Deafness Decreased appetite Deep vein thrombosis
 Dehydration Dependence Depersonalisation Depressed level of
 consciousness Depressed mood Depressive symptom Dermatitis
 Dermatitis bullous Diabetes mellitus Diabetic ketoacidosis
 Diabetic retinopathy Diaphragmatic hernia Diarrhoea
 Diplopia Discomfort Dissociation Disturbance in
 attention Disturbance in sexual arousal Dizziness postural
 Drug abuse Drug level increased Drug withdrawal convulsions
 Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer
 Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dystonia Dysuria Ear infection Ear pain Ecchymosis
 Eczema Effusion Ejaculation disorder Electrocardiogram
 abnormal Embolism Encephalopathy Epididymitis Epistaxis
 Erectile dysfunction Eructation Erythema Erythema
 multiforme Euphoric mood Eustachian tube disorder Extensor
 plantar response Extrapylamidal disorder Extrasystoles Eye
 disorder Eye haemorrhage Eye pain Eye pruritus Eyelid
 ptosis Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Flat affect Flatulence Fluid retention
 Flushing Fungal infection Fungal skin infection Furuncle
 Gait disturbance Galactorrhoea Gamma-glutamyltransferase
 increased Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal pain Generalised oedema Genital discharge
 Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
 Glossitis Glycosuria Goitre Gout Grand mal convulsion
 Gynaecomastia Haematemesis Haematochezia Haematoma
 Haematuria Haemoglobin Haemoptysis Haemorrhage intracranial
 Haemorrhoids Hair disorder Hallucination Hangover
 Headache Hearing impaired Hemiplegia Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatitis
 Hepatitis cholestatic Hepatitis fulminant Hepatobiliary
 disease Hepatomegaly Hernia Herpes simplex Herpes

virus infection Herpes zoster Hiccups Hirsutism Hordeolum
Hostility Hot flush Hyperaemia Hyperaesthesia
Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
Hyperkeratosis Hyperkinesia Hyperlipidaemia Hyperplasia
Hyperprolactinaemia Hyperreflexia Hypersensitivity
Hypersomnia Hypertension Hypertonia Hypertrophic
cardiomyopathy Hypertrophy Hyperventilation Hypoaesthesia
Hypoglycaemia Hypokinesia Hyponatraemia Hyporeflexia
Hypotension Hypothyroidism Hypotonia Hypoventilation
Hypoxia Ileus paralytic Ill-defined disorder Immune
system disorder Incontinence Increased appetite Infarction
Infection Infectious mononucleosis Infestation Influenza
Inner ear disorder Insomnia Intentional self-injury
Intermittent claudication Interstitial lung disease
Intestinal functional disorder Intestinal obstruction
Intestinal ulcer Iritis Irritability Irritable bowel
syndrome Ischaemia Jaundice Joint stiffness Joint swelling
Ketoacidosis Labyrinthitis Lacrimation increased
Laryngitis Laryngospasm Lethargy Leukopenia Libido
decreased Libido increased Lip haemorrhage Liver function test
abnormal Loss of consciousness Loss of libido Lung disorder
Lymphadenopathy Lymphocytosis Lymphoma Macule Major
depression Malaise Mania Mass Mediastinal disorder Melaena
Melanosis Memory impairment Meningism Menopausal symptoms
Menorrhagia Menstrual disorder Mental disability Mental
disorder Micturition disorder Micturition urgency Migraine
Miosis Mood swings Mouth ulceration Movement disorder
Mucosal inflammation Mucous membrane disorder Muscle
contracture Muscle fatigue Muscle relaxant therapy Muscle
spasms Muscle twitching Muscular weakness Musculoskeletal
discomfort Musculoskeletal stiffness Myalgia Myocardial
infarction Myoclonus Nail disorder Nasal congestion Nasal
obstruction Nasopharyngitis Nausea Neck mass Neck pain
Necrosis Neoplasm Neoplasm malignant Nephrolithiasis
Nephrotic syndrome Nervous system disorder Nervousness
Neuropathy peripheral Neurosis Neutropenia Nocturia
Nodule Nystagmus Obstruction Obstructive airways disorder
Occipital neuralgia Oedema Oedema peripheral Oesophageal
disorder Oesophageal spasm Oesophagitis Oligomenorrhoea Oral
candidiasis Oropharyngeal pain Orthostatic hypotension
Osteoarthritis Osteoporosis Otitis externa Otitis
media Ovarian failure Pain Pain in extremity Palpitations
Pancreatitis Pancytopenia Papule Paraesthesia
Paraesthesia oral Paralysis Paranoia Paresis Parosmia
Partial seizures Pelvic pain Penile swelling Penis disorder
Peptic ulcer Pericardial effusion Pericardial rub
Pericarditis Peripheral ischaemia Peripheral vascular
disorder Personality disorder Pharyngitis Phlebitis Photophobia
Photosensitivity reaction Pneumonia aspiration Pollakiuria
Polyuria Proctitis Prothrombin level decreased Pruritus
Pruritus genital Pseudolymphoma Psoriasis Psychiatric
symptom Psychotic disorder Pulmonary embolism Pulmonary
function test decreased Pulmonary oedema Pulmonary thrombosis
Purpura Pyelonephritis Pyuria Quadriparesis Rash
Rash erythematous Rash maculo-papular Rash pustular

Rectal haemorrhage Renal failure acute Renal impairment
 Renal pain Respiratory depression Respiratory failure
 Respiratory tract infection Retinal degeneration Retinal
 disorder Retinal vein thrombosis Rhinitis Rhinitis seasonal
 Salivary gland enlargement Salivary hypersecretion
 Scotoma Scrotal disorder Scrotal swelling Seasonal allergy
 Seborrhoeic dermatitis Sedation Sensory loss Sepsis
 Sexual dysfunction Shock Sinus arrest Sinusitis Skin
 cancer Skin discolouration Skin disorder Skin exfoliation
 Skin hypertrophy Skin necrosis Skin odour abnormal Skin
 ulcer Sleep disorder Snoring Somnambulism Somnolence
 Speech disorder Status epilepticus Sticky skin Stomatitis
 Strabismus Stupor Subcutaneous nodule Subdural
 haematoma Suicidal behaviour Suicidal ideation Suicide attempt
 Supraventricular extrasystoles Swelling Syncope
 Tachycardia Tendon disorder Tendonitis Tension Testicular
 pain Thinking abnormal Thirst Thrombocytopenia Thrombophlebitis
 Thrombosis Tinnitus Tongue disorder Tooth abscess Tooth
 discolouration Tooth disorder Tremor Ulcer Upper respiratory
 tract infection Urethral disorder Urinary incontinence Urinary
 retention Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urticaria Uterovaginal prolapse VIIth nerve paralysis
 Vaginal haemorrhage Varicose vein Vascular purpura
 Vasculitis Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular tachycardia Vertigo Vestibular
 disorder Viral diarrhoea Viral infection Vision blurred
 Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Vulvovaginal pain Weight decreased Weight increased White blood
 cell count decreased Xerophthalmia

Macrophage mannose receptor 1-like protein 1 - Group: Receptor

Treated with:

o3-sulfonylgalactose: experimental small molecule (0
 associated side effects)
 acetylgalactosamine-4-sulfate: experimental small molecule
 (0 associated side effects)
 alpha-methyl-n-acetyl-d-glucosamine: experimental small
 molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Potassium channel subfamily K member 9 - Group: Channel

Treated with:

doxapram: approved small molecule (47 associated side effects)

For use as a temporary measure in hospitalized patients with acute respiratory insufficiency superimposed on chronic obstructive pulmonary disease.

halothane: approved small molecule (10 associated side effects)

For the induction and maintenance of general anesthesia

55 known side effects mediated through drugs targeting this protein:

Agitation Albuminuria Anxiety Arrhythmia Blood pressure
increased Body temperature increased Bronchospasm Cardiac
arrest Cardiac fibrillation Cardiovascular disorder Chest
discomfort Chest pain Chills Clonus Convulsion Cough
Diarrhoea Disorientation Dizziness Dyskinesia Dyspnoea
Feeling hot Flushing Haemolysis Hallucination Headache
Hepatic necrosis Hiccups Hyperhidrosis Hyperkinesia
Hyperpyrexia Hyperreflexia Hyperventilation Hypotension
Hypoventilation Hypoxia Laryngospasm Leukopenia
Muscle contractions involuntary Muscle spasticity Mydriasis
Nausea Necrosis Pain Paraesthesia Phlebitis
Pruritus Respiratory arrest Respiratory failure
Tachycardia Tachypnoea Urinary retention Ventricular
fibrillation Ventricular tachycardia Vomiting

Potassium channel subfamily K member 6 - Group: Channel

Treated with:

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or
atrial flutter of recent onset to sinus rhythm.

quinidine: approved small molecule (146 associated side
effects) For the treatment of ventricular pre-excitation and
cardiac dysrhythmias

172 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Agitation Agranulocytosis
Anaemia Angina pectoris Angioedema Anxiety Aphasia
Aplastic anaemia Arthralgia Asthenia Asthma Ataxia
Atrial fibrillation Atrioventricular block first degree
Atrioventricular block second degree Azotaemia Blindness
Blood creatine phosphokinase increased Blood creatinine
increased Blood urea increased Body temperature increased
Bradycardia Bronchospasm Bundle branch block Cardiac
arrest Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cerebral ischaemia Cerebrovascular accident
Chest pain Chills Coagulopathy Coma Completed suicide
Confusional state Constipation Convulsion Cutaneous
vasculitis Deafness Decreased appetite Delirium Dermatitis
bullous Dermatitis contact Dermatitis exfoliative Diarrhoea
Diplopia Disorientation Disseminated intravascular
coagulation Dizziness Drug eruption Drug interaction Dyspepsia
Dyspnoea Dystonia Ecchymosis Electrocardiogram abnormal
Electrocardiogram normal Erythema Erythema multiforme
Extrasystoles Fatigue Feeling abnormal Flushing
Gastrointestinal pain Granulomatous liver disease Haemoglobin
decreased Haemoglobinuria Haemolytic anaemia Haemolytic
uraemic syndrome Haemorrhage Headache Hearing impaired Hepatic
function abnormal Hepatitis Hyperhidrosis Hypersensitivity
Hypertension Hypocalcaemia Hypoglycaemia
Hypokalaemia Hypomagnesaemia Hypoprothrombinaemia
Hypotension Idiopathic thrombocytopenic purpura Ileus
Infection Insomnia Ischaemia Jaundice Leukocytosis

Leukopenia Liver function test abnormal Loss of consciousness
 Lymphadenopathy Mental disorder Muscle spasms Muscular
 weakness Musculoskeletal discomfort Myalgia Mydriasis
 Nausea Necrosis Nephritis Nervousness Neuritis
 Neuropathy peripheral Neutropenia Night blindness Nodal
 arrhythmia Nodule Oedema Oesophagitis Optic neuritis
 Orthostatic hypotension Pain Palpitations
 Pancytopenia Petechiae Photophobia Photosensitivity
 reaction Pigmentation disorder Plasmodium falciparum infection
 Platelet disorder Pneumonia Pruritus Pulmonary oedema
 Purpura Rash Renal failure Renal impairment Rhythm
 idioventricular Scotoma Shock Sicca syndrome Sinus bradycardia
 Sinus tachycardia Social avoidant behaviour Sudden visual
 loss Supraventricular extrasystoles Supraventricular tachycardia
 Syncope Systemic lupus erythematosus Tachyarrhythmia
 Tachycardia Tension Thought blocking Thrombocytopenia
 Thrombocytopenic purpura Thrombotic thrombocytopenic
 purpura Tinnitus Torsade de pointes Toxic epidermal
 necrolysis Tremor Tubulointerstitial nephritis Urinary tract
 infection Urticaria Uveitis Vascular purpura Vascular
 resistance systemic Vasculitis Vasodilation procedure Ventricular
 arrhythmia Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vision blurred
 Visual impairment Vomiting

Interleukin-2 receptor alpha chain - Group: Receptor

Treated with:

denileukin diftitox: approved biotech (0 associated side effects)
 For treatment of cutaneous T-cell lymphoma

aldesleukin: approved biotech (0 associated side effects)
 For treatment of adults with metastatic renal cell carcinoma.

basiliximab: approved biotech (0 associated side effects)
 For prophylactic treatment of kidney transplant rejection

daclizumab: approved biotech (0 associated side effects)

Zenapax is a humanized monoclonal antibody used for prevention
 of renal transplant rejection

known side effects mediated through drugs targeting this protein:

D(4) dopamine receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects)
 For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects)
 For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas).
 May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects)
 For the treatment of the signs and symptoms of idiopathic

Parkinson's disease. Also used for the treatment of restless legs syndrome.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar I disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

thiethylperazine: approved small molecule (0 associated side effects) For the treatment or relief of nausea and vomiting.

remoxipride: approved, withdrawn small molecule (0 associated side effects) Remoxipride is an atypical antipsychotic once used for the treatment of schizophrenia.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

promazine: approved small molecule (0 associated side effects)

Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

lisuride: approved small molecule (0 associated side effects)

For the management of Parkinson's Disease

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

dopamine: approved small molecule (23 associated side effects)

For the correction of hemodynamic imbalances present in the shock syndrome due to myocardial infarction, trauma, endotoxic septicemia, open-heart surgery, renal failure, and chronic cardiac decompensation as in congestive failure

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to

levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in

advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

rotigotine: approved small molecule (93 associated side effects) For use/treatment in neurologic disorders and parkinson's disease as well as moderate-to-severe primary Restless Legs Syndrome.

1248 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphthous stomatitis Apnoea Appendicitis Application site reaction Apraxia Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder

disorder Bladder pain Blepharitis Blepharospasm Blindness
 Blindness transient Blister Blood alkaline phosphatase
 increased Blood amylase increased Blood antidiuretic hormone
 abnormal Blood bilirubin increased Blood cholesterol increased
 Blood creatine phosphokinase increased Blood creatinine
 increased Blood disorder Blood electrolytes abnormal Blood
 glucose decreased Blood glucose increased Blood insulin
 increased Blood iron decreased Blood lactate dehydrogenase
 increased Blood phosphorus increased Blood potassium decreased
 Blood potassium increased Blood pressure abnormal Blood
 pressure diastolic decreased Blood pressure fluctuation Blood
 pressure increased Blood pressure systolic decreased Blood
 prolactin increased Blood testosterone decreased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bone sarcoma
 Bradycardia Bradykinesia Bradyphrenia Brain neoplasm
 Brain neoplasm benign Brain oedema Breast cancer
 Breast cyst Breast discharge Breast discomfort Breast disorder
 Breast disorder female Breast disorder male Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breast tenderness Breath odour
 Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic
 Cholelithiasis Cholestasis Chorea Choreoathetosis
 Chromaturia Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Coagulopathy Coccydynia
 Cognitive disorder Cogwheel rigidity Cold sweat Colitis
 Colitis ulcerative Colon cancer Colorectal cancer Coma
 Completed suicide Compulsions Condition aggravated Conduction
 disorder Confusional state Congenital anomaly Congenital eye
 disorder Congenital foot malformation Congenital genitourinary
 abnormality Conjunctival haemorrhage Conjunctivitis Connective
 tissue disorder Constipation Convulsion Coordination abnormal
 Corneal lesion Coronary artery disease Coronary artery
 occlusion Costochondritis Cough Crocodile tears syndrome
 Crying Cyanosis Cystitis Cystitis noninfective

Cytolytic hepatitis Dandruff Deafness Death Decreased
 appetite Decubitus ulcer Deep vein thrombosis Deficiency
 anaemia Dehydration Delirium Delusion Dementia Dementia
 with Lewy bodies Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 atopic Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Dermatitis infected Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic coma Diabetic hyperglycaemic coma
 Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug level increased Drug withdrawal syndrome Drug
 withdrawal syndrome neonatal Dry eye Dry mouth Dry skin Dry
 throat Duodenal ulcer Duodenal ulcer haemorrhage Duodenitis
 Dysarthria Dysentery Dysgeusia Dysgraphia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dyspnoea exertional Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Electrolyte imbalance
 Embolism Emotional distress Emphysema Encephalopathy
 Endocrine disorder Endometrial cancer Endometrial
 neoplasm Energy increased Enteritis Enuresis Enzyme
 abnormality Eosinophil count increased Eosinophilia
 Epicondylitis Epididymitis Epilepsy Epistaxis
 Erectile dysfunction Eructation Erythema Erythema
 multiforme Erythromelalgia Euphoric mood Exfoliative rash
 Exostosis Extrapyrarnidal disorder Extrasystoles Eye
 discharge Eye disorder Eye haemorrhage Eye infection Eye
 inflammation Eye irritation Eye movement disorder Eye pain
 Eye swelling Eyelid disorder Eyelid function disorder
 Eyelid oedema Eyelid ptosis Face oedema Facial pain
 Facial paresis Faecal incontinence Faecalith Faecaloma
 Faeces discoloured Faeces hard Fasciitis Fasting
 Fatigue Fear Feeling abnormal Feeling cold Feeling hot
 Feeling jittery Female sexual dysfunction Fibroadenoma of
 breast Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing
 Folliculitis Formication Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gallbladder
 cancer Gallbladder disorder Gamma-glutamyltransferase
 increased Gangrene Gastric cancer Gastric disorder Gastric
 haemorrhage Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal

haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Gestational hypertension Gingival bleedingGingival
 infection Gingival pain Gingivitis Glaucoma Glossitis
 Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increasedGoitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesis Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemolysis
 Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhoids Haemothorax Hallucination Hallucination,
 auditory Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemianopia Hemiparesis Hemiplegia
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic neoplasm malignant Hepatic steatosisHepatitis
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary disorder Hernia
 Herpes simplex Herpes virus infectionHerpes zoster
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hydrocephalus Hyperacusis Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hyperchloraemia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperinsulinism Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hyperlipidaemia Hypernatraemia
 Hyperparathyroidism Hyperphagia Hyperphosphataemia
 Hyperplasia Hyperprolactinaemia Hyperreflexia
 Hypersensitivity Hypersexuality Hypersomnia Hypertension
 Hypertensive crisis Hyperthermia Hyperthyroidism
 Hypertonia Hypertonic bladder Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperuricosuria Hyperventilation Hypoaesthesia
 Hypoaesthesia oral Hypocalcaemia Hypochloraemia
 Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
 Hypogonadism Hypohidrosis Hypokalaemia Hypokinesia
 Hypomagnesaemia Hypomania Hypomenorrhoea Hyponatraemia
 Hypophagia Hypoproteinaemia Hyporeflexia Hypotension
 Hypothermia Hypothyroidism Hypotonia Hypoventilation
 Hypovitaminosis Hypoxia Idiopathic thrombocytopenic
 purpura Ileus Ileus paralytic Ill-defined disorder Illusion
 Immune system disorder Impaired healing Inappropriate
 antidiuretic hormone secretion Incontinence Increased
 appetite Induration Infarction Infected cyst Infection
 Infestation Inflammation Influenza Influenza like illness
 Inguinal hernia Initial insomnia Injection site mass
 Injection site pain Injection site reaction Inner ear
 disorder Insomnia Intention tremor Intentional self-injury
 Intermittent claudication Interstitial lung disease
 Intervertebral disc degeneration Intervertebral disc disorder
 Intervertebral disc protrusion Intervertebral discitis
 Intestinal functional disorder Intestinal obstruction

Intestinal perforation Intracranial pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic hepatitis Ischaemic stroke
 Jaundice Jaundice cholestatic Joint contracture Joint
 effusion Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratoconjunctivitis
 sicca Ketoacidosis Ketosis Laboratory test abnormal
 Lacrimal disorder Lacrimation increased Lactose intolerance
 Laryngeal cancer Laryngeal disorder Laryngeal neoplasm
 Laryngeal oedema Laryngitis Laryngospasm Left ventricular
 failure Leiomyoma Lens disorder Lenticular opacities
 Lenticular pigmentation Lethargy Leukaemia
 Leukocytosis Leukoderma Leukopenia Leukoplakia oral
 Libido decreased Libido increased Lichenoid keratosis Lip
 and/or oral cavity cancer Lip dry Lip swelling Lipoma
 Livedo reticularis Liver disorder Liver function test
 abnormal Liver injury Lividity Lobar pneumonia Localised
 infection Localised oedema Logorrhoea Loss of consciousness Loss
 of libido Lower respiratory tract infection Lung cancer metastatic
 Lung disorder Lung infiltration Lung neoplasm malignant
 Lymphadenitis Lymphadenopathy Lymphatic disorder
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
 Lymphopenia Macular degeneration Macule Maculopathy Major
 depression Malaise Male sexual dysfunction Malignant
 melanoma Mania Masked facies Mastitis Mediastinal disorder
 Melaena Melanocytic naevus Memory impairment Meningitis
 Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Menstruation delayed Menstruation irregular Mental
 disability Mental disorder Mental retardation Mental status
 changes Metabolic alkalosis Metastasis Metastatic neoplasm
 Metrorrhagia Micturition disorder Micturition urgency
 Middle ear disorder Middle ear effusion Middle insomnia
 Migraine with aura Migraine without aura Miosis
 Mitral valve incompetence Mobility decreased
 Monarthrititis Monocytosis Mood swings Motion sickness Mouth
 ulceration Movement disorder Multiple myeloma Muscle atrophy
 Muscle contractions involuntary Muscle contracture
 Muscle enzyme increased Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle tightness Muscle
 twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenic syndrome Mydriasis Myelitis Myocardial
 infarction Myocardial ischaemia Myocarditis Myoclonus Myopathy
 Myopia Myositis Nail disorder Nail infection
 Narcolepsy Nasal congestion Nasal disorder Nasal dryness
 Nasal oedema Nasal polyps Nasopharyngitis Nausea
 Neck pain Necrosis Necrosis ischaemic Neoplasm
 malignant Neoplasm prostate Neoplasm recurrence Neoplasm skin
 Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
 lesion Nervous system disorder Nervousness Neuralgia
 Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
 malignant syndrome Neurological symptom Neuroma Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night sweats Nightmare

Nocturia Nodal arrhythmia Nodule Normochromic
 normocytic anaemia Nuchal rigidity Nystagmus Obesity
 Obsessive thoughts Obstruction Obstructive airways disorder
 Ocular hyperaemia Oculogyric crisis Oedema Oedema peripheral
 Oesophageal carcinoma Oesophageal disorder Oesophageal spasm
 Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oligomenorrhoea Oliguria Onychomycosis Opisthotonus
 Oral candidiasis Oral neoplasm benign Oral pain Orchitis
 noninfective Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media chronic
 Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pallor Palpitations Pancreatitis acute Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Papilloma Paraesthesia oral Paralysis Paranoia
 Parasomnia Paresis Parkinsonian gait Parkinsonism
 Paronychia Parosmia Pathological fracture Pathological
 gambling Pelvic pain Penis disorder Peptic ulcer Pericardial
 effusion Pericarditis constrictive Perineal pain
 Periodontitis Periorbital oedema Peripheral coldness
 Peripheral ischaemia Peripheral vascular disorder Peritoneal
 adhesions Personality disorder Petechiae Pharyngeal erythema
 Pharyngitis Phlebitis Phlebitis superficial Phobia
 Phonological disorder Photophobia Photopsia Photosensitivity
 allergic reaction Photosensitivity reaction Pigmentation disorder
 Piloerection Pituitary tumour benign Plasmacytoma
 Platelet count decreased Pleural disorder Pleural effusion
 Pleural fibrosis Pleurisy Pneumonia Pneumonia aspiration
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Postural orthostatic tachycardia syndrome Posture
 abnormal Pre-eclampsia Precocious puberty Premature
 ejaculation Premenstrual syndrome Presyncope Priapism Proctalgia
 Productive cough Prolactinoma Prostate cancer Prostatic
 adenoma Prostatic disorder Prostatitis Protein urine present
 Proteinuria Protrusion tongue Prurigo Pruritus Pruritus
 generalised Pruritus genital Pseudolymphoma Psoriasis Psychiatric
 symptom Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary fibrosis Pulmonary hypertension Pulmonary oedema
 Purpura Pyelonephritis Pyoderma Pyuria Rales Rash
 erythematous Rash generalised Rash maculo-papular Rash
 papular Rash pustular Rash vesicular Raynaud's phenomenon
 Rectal cancer Rectal haemorrhage Rectal tenesmus Red
 blood cell count decreased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory alkalosis Respiratory arrest Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Retinal artery

occlusion Retinal detachment Retinal disorder Retinal vascular
disorder Retinitis pigmentosa Retrograde ejaculation
Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
Saliva altered Salivary duct obstruction Salivary gland
disorder Salivary gland enlargement Salivary hypersecretion
Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
disorder Schizophrenia Schizophreniform disorder Sciatica
Scotoma Seasonal allergy Seborrhoeic dermatitis Seborrhoeic
keratosis Sedation Sensation of heaviness Sensory disturbance
Sensory loss Sepsis Septic shock Severe acute
respiratory syndrome Sexual dysfunction Shock Sialoadenitis
Sicca syndrome Sick sinus syndrome Sinus arrhythmia Sinus
bradycardia Sinus congestion Sinus disorder Sinus headache Sinus
tachycardia Sinusitis Skin burning sensation Skin cancer Skin
discolouration Skin disorder Skin exfoliation Skin
hyperpigmentation Skin hypertrophy Skin infection Skin irritation
Skin lesion Skin mass Skin odour abnormal Skin papilloma
Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
disorder Sleep talking Sluggishness Small intestinal
obstruction Sneezing Snoring Social avoidant behaviour
Somnambulism Somnolence Speech disorder Spinal
osteoarthritis Spine malformation Splenomegaly Spondylitis
Squamous cell carcinoma Status epilepticus Stevens-
Johnson syndrome Sticky skin Stomatitis Stress Stridor
Stupor Subarachnoid haemorrhage Subcutaneous abscess
Subcutaneous nodule Subdural haematoma Sudden death
Suicidal ideation Suicide attempt Superior sagittal sinus
thrombosis Supraventricular extrasystoles Supraventricular
tachycardia Surgery Suspiciousness Swelling Swelling face
Swollen tongue Syncope Synostosis Synovitis Systemic
lupus erythematosus Tachycardia Tachypnoea Tardive dyskinesia
Tenderness Tendonitis Tenosynovitis Tension Tension
headache Terminal insomnia Testicular disorder Testicular pain
Tetany Therapeutic response decreased Therapeutic
response increased Thinking abnormal Thirst Thought blocking
Throat irritation Throat tightness Thrombocytopenia
Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
Thrombosis Thrombotic thrombocytopenic purpura Thyroid
adenoma Thyroid cancer Thyroid neoplasm Thyroiditis Tic
Tinnitus Tongue discolouration Tongue disorder Tongue dry
Tongue oedema Tongue paralysis Tongue spasm Tongue
ulceration Tonsillar hypertrophy Tonsillitis Tooth abscess Tooth
disorder Tooth impacted Tooth infection Toothache Torsade de
pointes Torticollis Toxic epidermal necrolysis Tracheobronchitis
Transaminases increased Transient ischaemic attack
Tremor Trismus Tuberculin test positive
Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
hernia Unevaluable event Unintended pregnancy Unresponsive to
stimuli Upper respiratory tract infection Upper-airway cough
syndrome Urethral disorder Urethral pain Urethritis Urinary
hesitation Urinary incontinence Urinary retention Urinary tract
disorder Urinary tract infection Urine abnormality Urine
analysis abnormal Urine output increased Urosepsis Urticaria

Uterine disorder Uterine haemorrhage Uterine leiomyoma
 Uterine neoplasm Uterovaginal prolapse VIIIth nerve paralysis
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasculitis Vasoconstriction Vasodilation procedure Vasospasm
 Vein disorder Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular hypertrophy Ventricular
 tachycardia Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment
 Vitreous floaters Vocal cord paralysis Vomiting
 Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal bleed Withdrawal syndrome Wound
 infection Xerophthalmia Xerosis Yawning

Interferon-gamma receptor beta chain - Group: Receptor

Treated with:

interferon gamma-1b: approved biotech (0 associated side
 effects) Interferon gamma-1b is used for the treatment of Chronic
 granulomatous disease and Osteopetrosis.

known side effects mediated through drugs targeting this protein:

Thyroid hormone receptor beta-1 - Group: Receptor

Treated with:

liothyronine: approved small molecule (0 associated side
 effects) Used as replacement or supplemental therapy in patients
 with hypothyroidism of any etiology, except transient hypothyroidism
 during the recovery phase of subacute thyroiditis.

levothyroxine: approved small molecule (0 associated side
 effects) For use alone or in combination with antithyroid agents
 to treat hypothyroidism, goiter, chronic lymphocytic thyroiditis,
 myxedema coma, and stupor.

dextrothyroxine: approved small molecule (0 associated side
 effects) Used to lower high cholesterol levels in the blood.

liotrix: approved small molecule (0 associated side effects)

May be used to treat primary, secondary or tertiary
 hypothyroidism. May also be used to suppress thyroid stimulating
 hormone (TSH) secretion in patients with simple (nontoxic) goiter,
 subacute or chronic lymphocytic thyroiditis multinodular goiter, and
 in the management of thyroid cancer. May be used in conjunction with
 other antithyroid agents to treat thyrotoxicosis to prevent
 goitrogenesis and hypothyroidism. May also be used for differential
 diagnosis of suspected mild hyperthyroidism or thyroid gland
 autonomy.

[3,5-dibromo-4-(4-hydroxy-3-phenethylcarbamoyl-phenoxy)-phenyl]-acetic acid: experimental small molecule (0 associated side effects)

3,5-dichloro-4-[(4-hydroxy-3-isopropylphenoxy)phenyl]acetic acid: experimental small molecule (0 associated side effects)

2-[4-(4-hydroxy-3-isopropyl-phenoxy)-3,5-dimethyl-phenyl]-2h-[1,2,4]triazine-3,5-dione: experimental small molecule (0 associated side effects)

[4-(4-hydroxy-3-iodo-phenoxy)-3,5-diiodo-phenyl]-acetic acid: experimental small molecule (0 associated side effects)

gc-24: experimental small molecule (0 associated side effects)

{4-[4-hydroxy-3-(1-methylethyl)benzyl]-3,5-dimethylphenoxy}acetic acid: experimental small molecule (0 associated side effects)

1-(4-hexylphenyl)prop-2-en-1-one: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Substance-P receptor - Group: Receptor

Treated with:

aprepitant: approved small molecule (160 associated side effects) For the prevention of nausea and vomiting associated with highly emetogenic cancer chemotherapy, including high-dose cisplatin (in combination with other antiemetic agents).

ketamine: approved small molecule (35 associated side effects) For use as the sole anesthetic agent for diagnostic and surgical procedures that do not require skeletal muscle relaxation.

vapreotide: approved small molecule (0 associated side effects) For the treatment of esophageal variceal bleeding in patients with cirrhotic liver disease and has also shown efficacy in the treatment of patients with AIDS-related diarrhea.

fosaprepitant: approved small molecule (0 associated side effects) For the prevention of nausea and vomiting associated with highly emetogenic cancer chemotherapy.

183 known side effects mediated through drugs targeting this protein:

Abdominal pain upper Acne Acute coronary syndrome Alanine aminotransferase increased Alopecia Anaemia Anaphylactic shock Angioedema Angiopathy Anxiety Anxiety disorder Aortic dissection Apnoea Arrhythmia Arthralgia Aspartate aminotransferase increased Asthenia Back pain Blood albumin decreased Blood alkaline phosphatase increased Blood bilirubin increased Blood creatinine increased Blood glucose increased Blood potassium decreased Blood urea increased Blood urine Blood urine present Body temperature decreased Body temperature increased Bradycardia Breast disorder Candidiasis Cardiac disorder Chills Clonus Confusional state Conjunctivitis Connective tissue disorder Constipation Convulsion Cough Cyst Decreased appetite Deep vein thrombosis Dehydration Dependence Dermatitis Diabetes mellitus Diarrhoea Diplopia Discomfort Disorientation Dizziness

Drug abuse Dry mouth Duodenal ulcer Dysgeusia Dyspepsia
 Dysphagia Dysphoria Dyspnoea Dysuria Embolism
 Enterocolitis Epigastric discomfort Epilepsy Eructation
 Erythema Eye disorder Fatigue Febrile neutropenia
 Feeling abnormal Flashback Flatulence Flushing Gastritis
 Gastrointestinal disorder Gastrointestinal pain
 Gastroesophageal reflux disease Glaucoma Glycosuria
 Haematoma Haematuria Haemoglobin decreased Haemorrhage
 Hallucination Headache Herpes simplex Herpes virus
 infection Hiccups Hot flush Hyperglycaemia Hyperhidrosis
 Hypertension Hypoaesthesia Hypokalaemia
 Hyponatraemia Hypotension Hypothermia Hypovolaemia
 Hypoxia Ileus Ill-defined disorder Induration Infarction
 Infection Infestation Inflammation Insomnia
 Laryngospasm Loss of consciousness Lower respiratory
 tract infection Lung neoplasm malignant Malaise Mediastinal
 disorder Menopausal symptoms Mental disorder Mucosal
 inflammation Mucous membrane disorder Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 pain Myalgia Myocardial infarction Nausea Neoplasm
 Neoplasm malignant Nervous system disorder Neuropathy
 peripheral Neutropenia Neutropenic sepsis Nystagmus Obstruction
 Obstructive airways disorder Oedema Operative haemorrhage
 Oropharyngeal pain Pain Palpitations Pelvic pain
 Peripheral sensory neuropathy Pharyngitis Pneumonia Polyp
 Post procedural infection Procedural nausea Protein urine
 present Proteinuria Pulmonary embolism Pulmonary function
 test decreased Rash Rash morbilliform Renal failure Respiratory
 depression Respiratory failure Respiratory tract infection
 Salivary hypersecretion Sepsis Septic shock Shock
 Sinus tachycardia Small cell lung cancer stage unspecified
 Stomatitis Syncope Tachycardia Thrombocytopenia Thrombosis
 Tinnitus Tremor Ulcer Upper respiratory tract infection
 Urethral disorder Urinary tract disorder Urinary tract
 infection Urticaria Venous thrombosis Vision blurred Vomiting
 Weight decreased White blood cell count increased White blood
 cells urine positive Wound dehiscence

Low-density lipoprotein receptor-related protein 1 - Group: Receptor
 Treated with:
 antihemophilic factor: approved biotech (0 associated side
 effects) For the treatment of hemophilia A, von Willebrand disease
 and Factor XIII deficiency
 tenecteplase: approved biotech (0 associated side effects)
 For treatment of myocardial infarction and lysis of
 intracoronary emboli
 coagulation factor ix: approved biotech (0 associated side
 effects) For treatment of hemophilia (Christmas disease).

known side effects mediated through drugs targeting this protein:

Endothelial protein C receptor - Group: Receptor

Treated with:

drotrecogin alfa: approved biotech (0 associated side effects)
For reduction of mortality in patients with severe sepsis.
phosphatidylethanolamine: experimental small molecule (0
associated side effects)

known side effects mediated through drugs targeting this protein:

Ephrin type-B receptor 2 - Group: Enzyme

Treated with:

phosphoaminophosphonic acid-adenylate ester: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Aryl hydrocarbon receptor - Group: Receptor

Treated with:

mexiletine: approved small molecule (101 associated side
effects) For the treatment of ventricular tachycardia and
symptomatic premature ventricular beats, and prevention of
ventricular fibrillation.

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following
subarachnoid hemorrhage (SAH) from ruptured intracranial berry
aneurysms by reducing the incidence and severity of ischemic
deficits.

flutamide: approved small molecule (55 associated side effects)

For the management of locally confined Stage B2-C and Stage D2
metastatic carcinoma of the prostate

atorvastatin: approved small molecule (195 associated side
effects) May be used as primary prevention in individuals with
multiple risk factors for coronary heart disease (CHD) and as
secondary prevention in individuals with CHD to reduce the risk of
myocardial infarction (MI), stroke, angina, and revascularization
procedures. May be used to reduce the risk of cardiovascular events
in patients with acute coronary syndrome (ACS). May be used in the
treatment of primary hypercholesterolemia and mixed dyslipidemia,
homozygous familial hypercholesterolemia, primary
dysbetalipoproteinemia, and/or hypertriglyceridemia as an adjunct to
dietary therapy to decrease serum total and low-density lipoprotein
cholesterol (LDL-C), apolipoprotein B (apoB), and triglyceride
concentrations, while increasing high-density lipoprotein
cholesterol (HDL-C) levels.

leflunomide: approved small molecule (192 associated side
effects) For the management of the signs and symptoms of active
rheumatoid arthritis (RA) to improve physical function and to slow
the progression of structural damage associated with the disease.
Has also been used for the prevention of acute and chronic rejection
in recipients of solid organ transplants and is designated by the
FDA as an orphan drug for this use.

ginseng: approved, nutraceutical small molecule (0 associated side effects)

361 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Abscess
Acne Acute yellow liver atrophy Affect lability Ageusia
Aggression Agitation Agranulocytosis Alanine
aminotransferase increased Albuminuria Alopecia Amblyopia
Amnesia Anaemia Anaemia macrocytic Anaphylactic
shock Anaphylactoid reaction Angina pectoris Angioedema Anorectal
discomfort Anorectal disorder Antinuclear antibody positive
Anxiety Aortic dissection Aphthous stomatitis Arrhythmia
supraventricular Arthralgia Arthritis Arthropathy Aspartate
aminotransferase increased Asthenia Asthma Ataxia
Atrioventricular block Back pain Biliary colic Bladder
pain Blood alkaline phosphatase increased Blood creatine
phosphokinase increased Blood disorder Blood lactate
dehydrogenase increased Blood magnesium decreased Blood urea
increased Body temperature increased Bone pain Bradycardia
Breast disorder Breast enlargement Breast neoplasm
Bronchitis Bursitis Candidiasis Cardiac failure Cardiac
failure congestive Cardiogenic shock Cardiovascular disorder
Cataract Cells in urine Cerebral haemorrhage Cheilitis
Chest pain Cholelithiasis Cholestasis Chromaturia Colitis
Confusional state Conjunctivitis Connective tissue disorder
Constipation Convulsion Coordination abnormal Cough
Cystitis Cystitis noninfective Deafness Death Decreased
appetite Deep vein thrombosis Deficiency anaemia Dependence
Dermatitis Dermatitis bullous Dermatitis contact
Dermatitis exfoliative Diabetes mellitus Diarrhoea Discomfort
Disseminated intravascular coagulation Disturbance in sexual
arousal Dizziness Drug abuse Dry eye Dry mouth Dry skin
Duodenal ulcer Dysgeusia Dyspepsia Dysphagia Dyspnoea
Dysuria Ecchymosis Eczema Ejaculation disorder
Encephalitis Encephalopathy Endocrine disorder
Endometrial sarcoma Enteritis Eosinophilia
Epididymitis Epistaxis Erectile dysfunction Eructation
Erythema Erythema multiforme Eye disorder Eye
haemorrhage Face oedema Fasting Fatigue Feeling abnormal
Fibrocystic breast disease Fibrosis Flatulence Fluid
retention Flushing Foetor hepaticus Fungal skin infection
Gastric disorder Gastric ulcer Gastritis Gastroenteritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal pain Generalised oedema Gingival bleeding
Gingivitis Glaucoma Glossitis Gout Gynaecomastia
Haematoma Haematuria Haemoglobin Haemolytic anaemia
Haemorrhage Haemorrhagic stroke Hair colour changes
Hallucination Headache Hepatic encephalopathy Hepatic
enzyme abnormal Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatic necrosis Hepatitis
Hepatobiliary disease Hepatocellular injury Hernia
Herpes simplex Herpes virus infection Herpes zoster
Hiccups Hormone level abnormal Hot flush Hyperglycaemia
Hyperhidrosis Hyperkinesia Hyperlipidaemia

Hypersensitivity Hypertension Hyperthyroidism Hypertonia
 Hypoaesthesia Hypoglycaemia Hypokalaemia
 Hyponatraemia Hypotension Ill-defined disorder
 Incontinence Increased appetite Infection Infestation
 Influenza Insomnia Interstitial lung disease Iron
 deficiency Iron deficiency anaemia Ischaemic stroke Jaundice
 Jaundice cholestatic Joint swelling Juvenile arthritis
 Laboratory test abnormal Leukopenia Libido decreased Liver
 disorder Liver function test abnormal Loss of consciousness Loss
 of libido Lung disorder Lung infiltration Lymphadenopathy
 Lymphoproliferative disorder Malaise Mediastinal disorder
 Melaena Memory impairment Menopausal symptoms Menstrual
 disorder Methaemoglobinaemia Metrorrhagia Micturition
 urgency Migraine Mood swings Mouth ulceration Muscle
 contracture Muscle fatigue Muscle rigidity Muscle spasms
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 pain Musculoskeletal stiffness Myalgia Myelofibrosis
 Myeloid metaplasia Myopathy Myositis Nail disorder
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Nephritis Nephrolithiasis Nervous
 system disorder Nervousness Neuralgia Neuritis Neuropathy
 peripheral Neutropenia Nightmare Nocturia Nodule Nuchal
 rigidity Nystagmus Oedema Oedema peripheral Oesophageal
 disorder Oesophageal ulcer Oesophagitis Opportunistic
 infection Oral candidiasis Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Osteonecrosis Pain Pain in extremity
 Palpitations Pancreatitis Pancytopenia
 Paraesthesia Paralysis Parosmia Pelvic pain Peptic
 ulcer Petechiae Pharyngitis Phlebitis Photosensitivity reaction
 Platelet count decreased Pneumonia Pollakiuria Proctalgia
 Proctitis Prostatic disorder Pruritus Psychotic
 disorder Pulmonary fibrosis Pulmonary toxicity Rash Rash
 maculo-papular Rectal haemorrhage Rectal tenesmus Refraction
 disorder Renal vasculitis Respiratory tract infection
 Rhabdomyolysis Rhinitis Salivary gland enlargement
 Seborrhoeic dermatitis Sensory loss Sepsis Shock
 Sinusitis Skin discolouration Skin disorder Skin mass
 Skin ulcer Sleep disorder Somnolence Speech disorder
 Stomatitis Subcutaneous nodule Sulphaemoglobinaemia
 Swelling Syncope Synovitis Tachycardia Tendinous
 contracture Tenosynovitis Tension Thrombocytopenia Thrombosis
 Tinnitus Tooth disorder Torticollis Toxic epidermal
 necrolysis Transient ischaemic attack Tremor Ulcer Upper
 gastrointestinal haemorrhage Upper respiratory tract infection
 Urethral disorder Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine colour abnormal Urticaria Uterine haemorrhage
 VIIth nerve paralysis Vaginal haemorrhage Varicose vein
 Vasculitis Vasculitis necrotising Vasodilation procedure
 Vasospasm Venous thrombosis Ventricular arrhythmia Vertigo
 Vision blurred Visual impairment Vomiting Vulvovaginal
 candidiasis Vulvovaginal mycotic infection Weight decreased
 Weight increased Wheezing White blood cells urine positive
 X-linked lymphoproliferative syndrome

Interleukin-6 receptor alpha chain - Group: Receptor

Treated with:

alpha-d-mannose: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Voltage-dependent L-type calcium channel subunit beta-1 - Group: Channel

Treated with:

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or atrial flutter of recent onset to sinus rhythm.

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

magnesium sulfate: approved small molecule (0 associated side effects) Used for immediate control of life-threatening convulsions in the treatment of severe toxemias (pre-eclampsia and eclampsia) of pregnancy and in the treatment of acute nephritis in children. Also indicated for replacement therapy in magnesium deficiency, especially in acute hypomagnesemia accompanied by signs of tetany similar to those of hypocalcemia. Also used in uterine tetany as a myometrial relaxant.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

mibefradil: withdrawn small molecule (0 associated side effects) For the treatment of angina and high blood pressure.

161 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Acute coronary syndrome Alanine aminotransferase increased Alopecia Anaemia
Anaphylactic shock Angioedema Arthralgia Asthenia
Atrioventricular block complete Atrioventricular block first degree Atrioventricular block second degree Atrioventricular dissociation
Balance disorder Blindness Blood alkaline phosphatase increased Blood creatine phosphokinase increased Blood creatinine increased Blood lactate dehydrogenase increased Blood prolactin increased Blood urea increased Bradycardia
Bronchospasm Bundle branch block Cardiac arrest
Cardiac failure Cardiac failure congestive Cardiomyopathy
Cerebrovascular accident Chest pain Cholestasis Confusional state
Constipation Convulsion Deep vein thrombosis Depressive symptom
Dermatitis Diarrhoea Diplopia Discomfort
Disseminated intravascular coagulation Dissociation
Dizziness Dry mouth Dyspepsia Dyspnoea Ecchymosis
Electrocardiogram abnormal Erectile dysfunction Erythema

Erythema multiforme Extrapyrarnidal disorder
 Extrasystoles Fasting Fatigue Feeling abnormal
 Feeling cold Fluid retention Flushing Galactorrhoea
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gingival hyperplasia Gynaecomastia Haematoma Haemoglobin
 decreased Headache Hepatic enzyme increased Hepatic function
 abnormal Hepatitis Hyperhidrosis Hyperkeratosis Hyperplasia
 Hyperprolactinaemia Hypersensitivity Hypertension
 Hypertrophic cardiomyopathy Hypertrophy Hypoaesthesia
 Hyponatraemia Hypotension Ileus paralytic Infection
 Influenza Insomnia Intermittent claudication Jaundice
 Joint swelling Laryngospasm Lethargy Leukocytosis
 Liver function test abnormal Loss of consciousness Macule
 Muscle fatigue Muscle spasms Muscular weakness
 Musculoskeletal discomfort Myalgia Myocardial infarction
 Nausea Nodal arrhythmia Nystagmus Oedema Oedema
 peripheral Oligomenorrhoea Orthostatic hypotension Pain
 Palpitations Paraesthesia Paralysis Pharyngitis
 Platelet count decreased Platelet disorder Pollakiuria
 Pruritus Pulmonary oedema Purpura Quadripareisis Rash
 Rash maculo-papular Renal failure Respiratory failure
 Respiratory tract infection Rhinitis Rhythm idioventricular
 Sensory loss Shock Sinus arrest Sinus bradycardia Sinus
 tachycardia Sinusitis Sleep disorder Somnolence Supraventricular
 extrasystoles Supraventricular tachycardia Syncope
 Tachyarrhythmia Tachycardia Thrombocytopenia Thrombosis
 Tinnitus Tremor Upper respiratory tract infection
 Urinary tract infection Urticaria Vascular purpura
 Vasculitis Vasospasm Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vision blurred Visual acuity reduced Visual
 impairment Vomiting Wheezing

Sodium channel protein type 9 subunit alpha - Group: Channel
 Treated with:
 ranolazine: approved small molecule (63 associated side effects)
 For the treatment of chronic angina. It should be used in
 combination with amlodipine, beta-blockers or nitrates.
 lidocaine: approved small molecule (120 associated side
 effects) For production of local or regional anesthesia by
 infiltration techniques such as percutaneous injection and
 intravenous regional anesthesia by peripheral nerve block techniques
 such as brachial plexus and intercostal and by central neural
 techniques such as lumbar and caudal epidural blocks.
 zonisamide: approved small molecule (190 associated side
 effects) For use as adjunctive treatment of partial seizures in
 adults with epilepsy.

283 known side effects mediated through drugs targeting this
 protein:
 Abdominal pain Abnormal dreams Acidosis Acne Acute coronary
 syndrome Agitation Alanine aminotransferase increased Albuminuria
 Alopecia Amblyopia Amenorrhoea Anaemia Anaphylactic
 shock Anaphylactoid reaction Angioedema Angiopathy Anterior spinal

artery syndrome Anxiety Aortic dissection Apnoea
 Arachnoiditis Arthralgia Arthritis Aspartate
 aminotransferase increased Asthenia Ataxia Atrial
 fibrillation Atrial flutter Atrioventricular block Back pain
 Bladder pain Blister Blood creatinine increased Blood
 lactate dehydrogenase increased Blood urea increased Body
 temperature increased Bradycardia Bronchospasm Burning sensation
 Calculus bladder Cardiac arrest Cardiac disorder Cardiac
 failure Cardiac fibrillation Cardiac flutter Cardiac output
 decreased Cauda equina syndrome Cerebrovascular accident Chest
 pain Chills Cholangitis Cholecystitis Cholelithiasis
 Chromaturia Cognitive disorder Colitis Confusional state
 Conjunctival hyperaemia Conjunctivitis Constipation
 Convulsion Coordination abnormal Cough Cranial nerve
 paralysis Deafness Decreased appetite Dehydration Depressed
 level of consciousness Dermatitis Dermatitis bullous Diabetes
 mellitus Diarrhoea Diplegia Diplopia Discomfort Disease
 progression Disorientation Disturbance in sexual arousal
 Dizziness Dry mouth Dry skin Duodenal ulcer Duodenitis
 Dysarthria Dysgeusia Dyskinesia Dyspepsia Dysphagia
 Dyspnoea Dystonia Dysuria Ecchymosis Eczema
 Embolism Encephalopathy Enuresis Eosinophilia
 Erectile dysfunction Erythema Euphoric mood
 Extrasystoles Extravasation Eye disorder Face oedema
 Faecal incontinence Fatigue Feeling abnormal Feeling hot
 Fibrosis Flank pain Flatulence Fluid overload Flushing
 Gait disturbance Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal pain Gingival bleeding Gingival
 hyperplasia Gingivitis Glaucoma Glossitis Gynaecomastia
 Haematemesis Haematuria Haemoglobin Haemoptysis Haemorrhage
 Hallucination Headache Hirsutism Hyperacusis Hyperaemia
 Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension
 Hyperthermia Hypertonia Hypoaesthesia Hypoaesthesia
 oral Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
 Hypotonia Hypoxia Ill-defined disorder Immune system
 disorder Immunodeficiency Incontinence Infection Influenza
 Insomnia Iritis Irritability Jaundice Jaundice
 cholestatic Laryngeal oedema Laryngospasm Leukoderma Leukopenia
 Libido decreased Local reaction Loss of consciousness
 Lymphadenopathy Maculopathy Malaise Mastitis Mediastinal
 disorder Melaena Meningism Meningitis Menorrhagia Mental
 disorder Methaemoglobinaemia Microcytic anaemia Micturition
 urgency Miosis Monoplegia Mouth ulceration Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Myocardial depression
 Myoclonus Nausea Nephropathy toxic Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Nocturia
 Nuchal rigidity Nystagmus Oculogyric crisis Oedema
 Oedema peripheral Oesophagitis Optic nerve disorder
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Pain Palpitations Pancytopenia
 Papule Paraesthesia Paraesthesia oral Paralysis
 Paraplegia Parosmia Petechiae Pharyngitis Phlebitis

Photophobia	Pollakiuria	Polyuria	Pruritus	Psychotic
disorder	Pulmonary embolism		Pulmonary fibrosis	Pulmonary
function test decreased	Rash	Rash maculo-papular	Rash	
pustular	Rectal haemorrhage	Renal failure	Renal tubular	
disorder	Respiratory arrest	Respiratory depression	Respiratory	
disorder	Respiratory paralysis	Retinitis pigmentosa	Rhinitis	
Scotoma	Sensory loss	Shock	Skin exfoliation	Sneezing
Somnolence	Speech disorder	Stomatitis	Syncope	Systemic
lupus erythematosus	Tachycardia	Tension	Thirst	
Thrombocytopenia	Thrombophlebitis	Thrombosis	Tinnitus	
Tremor	Ulcer	Urethral disorder	Urinary incontinence	
Urinary retention	Urinary tract disorder	Urine output increased		
Urticaria	VIIIth nerve paralysis	Vascular insufficiency		
Venous thrombosis	Ventricular extrasystoles	Ventricular		
fibrillation	Vertical talus	Vertigo	Vision blurred	
Visual impairment	Vomiting	Weight decreased	Weight increased	

5-hydroxytryptamine 2C receptor - Group: Receptor

Treated with:

tramadol: approved small molecule (490 associated side effects) Indicated in the treatment of moderate to severe pain. Consider for those prone to constipation or respiratory depression. Tramadol is used to treat postoperative, dental, cancer, and acute musculoskeletal pain and as an adjuvant to NSAID therapy in patients with osteoarthritis.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

methysergide: approved small molecule (69 associated side effects) For the treatment of vascular headache

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

mirtazapine: approved small molecule (272 associated side effects) For the treatment of major depressive disorder.

loxapine: approved small molecule (74 associated side effects)

For the management of the manifestations of psychotic disorders such as schizophrenia

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

promazine: approved small molecule (0 associated side effects)
Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

cyproheptadine: approved small molecule (63 associated side effects) For treatment of perennial and seasonal allergic rhinitis, vasomotor rhinitis, allergic conjunctivitis due to inhalant allergens and foods, mild uncomplicated allergic skin manifestations of urticaria and angioedema, amelioration of allergic reactions to blood or plasma, cold urticaria, dermatographism, and as therapy for anaphylactic reactions adjunctive to epinephrine.

fenfluramine: illicit,withdrawn small molecule (0 associated side effects) For the management of exogenous obesity as a short-term (a few weeks) adjunct in a regimen of weight reduction based on caloric restriction.

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

minaprine: approved small molecule (0 associated side effects)
For the treatment of depression

tegaserod: withdrawn small molecule (125 associated side effects) Provides relief from the symptoms of irritable bowel syndrome including chronic idiopathic constipation.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved,withdrawn small molecule (246 associated side effects) For the treatment of depression.

pergolide: approved,withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

dexfenfluramine: illicit,approved,withdrawn small molecule (0 associated side effects) For the management of obesity including

weight loss and maintenance of weight loss in patients on a reduced calorie diet

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

clomipramine: approved small molecule (349 associated side effects)

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

yohimbine: approved small molecule (0 associated side effects)

Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

3,4-methylenedioxymethamphetamine: illicit, experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

sertindole: approved, withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

mianserin: approved small molecule (0 associated side effects) For the treatment of depression.

agomelatine: approved small molecule (0 associated side effects) Agomelatine is indicated for the treatment of major depressive episodes in adults.

1376 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abasia
Abdominal adhesions
Abdominal discomfort
Abdominal distension
Abdominal neoplasm
Abdominal pain lower
Abdominal pain upper
Abdominal tenderness
Abnormal behaviour
Abnormal dreams
Abnormal faeces
Abortion spontaneous
Abscess
Accommodation disorder
Acidosis
Acne
Actinic keratosis
Acute abdomen
Acute coronary syndrome
Acute lymphocytic leukaemia
Acute myocardial infarction
Acute psychosis
Acute tonsillitis
Adenocarcinoma
Adenoma benign
Adhesion

Adjustment disorder Affect lability Affective disorder
 Ageusia Aggression Agitation Agoraphobia Agranulocytosis
 Akathisia Akinesia Alanine aminotransferase decreased
 Alanine aminotransferase increased Albright's disease
 Albuminuria Alcohol intolerance Alkalosis Alopecia
 Altered state of consciousness Amaurosis fugax Amblyopia
 Amenorrhoea Amnesia Amyotrophic lateral sclerosis
 Anaemia Anaemia macrocytic Anaemia megaloblastic
 Anaphylactic shock Anaphylactoid reaction Aneurysm Anger
 Angina pectoris Angina unstable Angioedema Angiomyolipoma
 Angiopathy Angle closure glaucoma Anorectal discomfort
 Anorectal disorder Anorgasmia Anosmia Antidiuretic
 hormone abnormality Antisocial behaviour Antisocial personality
 disorder Anxiety Aortic aneurysm Aortic dissection Aortic
 embolus Apathy Aphasia Aphthous stomatitis Aplastic
 anaemia Apnoea Appendicitis Application site reaction
 Apraxia Arrhythmia Arrhythmia supraventricular Arterial
 disorder Arterial occlusive disease Arterial stenosis
 Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy
 Ascites Asocial behaviour Aspartate aminotransferase
 increased Asphyxia Aspiration Asthenia Asthma Ataxia
 Atelectasis Athetosis Atrial fibrillation Atrial flutter
 Atrial septal defect Atrioventricular block first degree
 Atrioventricular block second degree Atrophy Aura
 Automatism Azotaemia Back disorder Back pain Bacterial
 infection Balance disorder Balanoposthitis Basal cell carcinoma
 Basophilia Benign breast neoplasm Benign intracranial
 hypertension Benign neoplasm Benign neoplasm of skin
 Benign prostatic hyperplasia Biliary colic Biliary tract
 disorder Binge eating Bipolar I disorder Bipolar disorder
 Bladder cancer Bladder disorder Bladder pain Blepharitis
 Blepharospasm Blindness Blindness transient Blister
 Blood acid phosphatase increased Blood alkaline phosphatase
 increased Blood amylase increased Blood antidiuretic hormone
 abnormal Blood bilirubin increased Blood cholesterol increased
 Blood creatine phosphokinase increased Blood creatinine
 increased Blood electrolytes abnormal Blood glucose abnormal Blood
 glucose decreased Blood glucose increased Blood insulin
 increased Blood iron decreased Blood lactate dehydrogenase
 increased Blood phosphorus increased Blood potassium abnormal
 Blood potassium decreased Blood potassium increased Blood
 pressure abnormal Blood pressure diastolic decreased Blood pressure
 fluctuation Blood pressure increased Blood pressure systolic
 decreased Blood prolactin increased Blood sodium increased Blood
 testosterone decreased Blood triglycerides increased Blood
 triglycerides normal Blood urea increased Blood uric acid
 increased Blood urine Blood urine present Blunted affect Body
 temperature decreased Body temperature increased Bone disorder
 Bone pain Bone sarcoma Bradycardia Bradykinesia
 Bradyphrenia Brain neoplasm Brain neoplasm benign Brain
 oedema Breast cancer Breast cyst Breast discharge Breast
 discomfort Breast disorder Breast disorder female Breast disorder
 male Breast engorgement Breast enlargement Breast feeding
 Breast neoplasm Breast pain Breast swelling Breast tenderness
 Breath odour Bronchiolitis Bronchitis Bronchopneumonia

Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cerumen impaction Cervical
 dysplasia Cervicitis Cervix carcinoma Change of bowel habit
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Chloasma Choking Cholecystitis
 Cholecystitis chronic Cholelithiasis Cholestasis Chorea
 Choreoathetosis Chromatopsia Chromaturia Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Clonus Coagulopathy Coccydynia Cognitive disorder
 Cogwheel rigidity Cold sweat Colitis Colitis ischaemic
 Colitis ulcerative Colon cancer Colorectal cancer Coma
 Completed suicide Compulsions Condition aggravated Confusional
 state Congenital anomaly Congenital eye disorder Congenital
 foot malformation Congenital genitourinary abnormality
 Conjunctival haemorrhage Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal lesion Coronary artery
 disease Coronary artery occlusion Costochondritis Cough
 Crocodile tears syndrome Crying Crystal urine
 Crystalluria Cyanosis Cystitis Cystitis noninfective
 Cytolytic hepatitis Dandruff Deafness Deafness
 transitory Death Decreased appetite Decubitus ulcer Deep vein
 thrombosis Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dementia with Lewy bodies Dental caries
 Dependence Depersonalisation Depressed level of consciousness
 Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Diabetes mellitus
 Diabetic coma Diabetic hyperglycaemic coma Diabetic
 hyperosmolar coma Diabetic ketoacidosis Diaphragmatic hernia
 Diarrhoea Diplopia Discomfort Disease progression
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Diverticulum Dizziness
 Dizziness exertional Dizziness postural Drooling Drug
 abuse Drug dependence Drug eruption Drug hypersensitivity Drug
 ineffective Drug interaction Drug level increased Drug withdrawal
 syndrome Drug withdrawal syndrome neonatal Dry eye Dry mouth
 Dry skin Dry throat Duodenal ulcer Duodenal ulcer
 haemorrhage Duodenitis Dysarthria Dysentery Dysgeusia Dysgraphia

Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dysplasia Dyspnoea Dyspnoea
 exertional Dystonia Dysuria Ear congestion Ear discomfort
 Ear disorder Ear infection Ear pain Ecchymosis
 Eclampsia Eczema Effusion Ejaculation delayed
 Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional disorder Emotional
 distress Emphysema Encephalopathy Endocrine disorder
 Endometrial cancer Endometrial hyperplasia Endometrial
 neoplasm Endometriosis Energy increased Enteritis Enuresis
 Enzyme abnormality Eosinophil count increased
 Eosinophilia Epicondylitis Epididymitis Epilepsy
 Epistaxis Erectile dysfunction Eructation Erysipelas
 Erythema Erythema multiforme Erythromelalgia Euphoric
 mood Eustachian tube disorder Exfoliative rash Exophthalmos
 Exostosis Extrapyrarnidal disorder Extrasystoles Eye
 allergy Eye discharge Eye disorder Eye haemorrhage Eye
 infection Eye inflammation Eye irritation Eye movement disorder
 Eye pain Eye pruritus Eye swelling Eyelid disorder
 Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Faeces hard
 Fasciitis Fasting Fat intolerance Fatigue Fear
 Feeling abnormal Feeling cold Feeling hot Feeling jittery
 Female sexual dysfunction Fibroadenoma of breast Fibrocystic
 breast disease Fibrosis Flank pain Flat affect Flatulence Fluid
 overload Fluid retention Flushing Folliculitis Formication
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gallbladder cancer Gallbladder
 disorder Gamma-glutamyltransferase increased Gangrene
 Gastric cancer Gastric dilatation Gastric disorder
 Gastric haemorrhage Gastric pH decreased Gastric polyps
 Gastric ulcer Gastric ulcer haemorrhage Gastritis
 Gastritis haemorrhagic Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal neoplasm Gastrointestinal obstruction
 Gastrointestinal pain Gastrointestinal stromal tumour
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease General symptom Generalised oedema Genital
 candidiasis Genital discharge Gestational hypertension Gingival
 bleeding Gingival infection Gingival pain Gingival
 recession Gingivitis Glaucoma Glossitis Glossodynia Glucose
 tolerance decreased Glucose tolerance impaired Glycosuria
 Glycosylated haemoglobin increased Goitre Gout Grand mal
 convulsion Gravitational oedema Groin pain Gynaecomastia
 Haemangioma Haematemesis Haematochezia Haematocrit
 decreased Haematocrit increased Haematoma Haematuria Haemoglobin
 decreased Haemoglobin increased Haemoglobinuria Haemolysis
 Haemolytic anaemia Haemoptysis Haemorrhage Haemorrhage
 intracranial Haemorrhagic disorder Haemorrhoids Haemothorax

Hair disorder Hallucination Hallucination, auditory
 Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Helicobacter infection Hemianopia
 Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic neoplasm malignant Hepatic steatosis Hepatitis
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary disorder Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups High density lipoprotein decreased Hirsutism
 Homicidal ideation Hordeolum Hormone level abnormal
 Hostility Hot flush Hunger Hydrocephalus Hyperacusis
 Hyperaemia Hyperaesthesia Hyperbilirubinaemia
 Hypercalcaemia Hypercalciuria Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperphagia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersexuality Hypersomnia Hypertension
 Hypertensive crisis Hyperthermia Hyperthyroidism
 Hypertonia Hypertonic bladder Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperuricosuria Hyperventilation Hypnagogic hallucination
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloraemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovitaminosis
 Hypovolaemia Hypoxia IIIrd nerve paralysis Idiopathic
 thrombocytopenic purpura Ileus Ileus paralytic Ill-defined
 disorder Illusion Immune system disorder Impaired healing
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Induration Infarction Infected cyst
 Infection Infection susceptibility increased Infestation
 Inflammation Influenza Influenza like illness Ingrowing
 nail Inguinal hernia Initial insomnia Injection site mass
 Injection site pain Injection site reaction Inner ear
 disorder Insomnia Intention tremor Intentional self-injury
 Intermittent claudication Interstitial lung disease
 Intervertebral disc degeneration Intervertebral disc disorder
 Intervertebral disc protrusion Intervertebral discitis
 Intestinal functional disorder Intestinal ischaemia
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic hepatitis Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint crepitation Joint effusion Joint
 range of motion decreased Joint stiffness Joint swelling
 Judgement impaired Keratitis Keratoconjunctivitis sicca
 Ketoacidosis Ketosis Laboratory test abnormal

Labyrinthitis Lacrimal disorder Lacrimation decreased
 Lacrimation increased Lactose intolerance Laryngeal cancer
 Laryngeal disorder Laryngeal neoplasm Laryngeal oedema
 Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Leriche syndrome Lethargy Leukaemia Leukaemoid
 reaction Leukocytoclastic vasculitis Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichenoid keratosis Lip and/or oral cavity cancer Lip
 blister Lip dry Lip swelling Lipoma Livedo
 reticularis Liver disorder Liver function test abnormal Liver
 injury Lividity Lobar pneumonia Localised infection
 Localised oedema Logorrhoea Loss of consciousness Loss of
 libido Low density lipoprotein increased Lower respiratory
 tract infection Lung adenocarcinoma stage I Lung cancer metastatic
 Lung disorder Lung infiltration Lung neoplasm malignant
 Lymphadenitis Lymphadenopathy Lymphatic disorder
 Lymphocyte count decreased Lymphocyte count increased
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
 Lymphopenia Macular degeneration Macule Maculopathy Major
 depression Malaise Male sexual dysfunction Malignant
 melanoma Mammogram abnormal Mania Masked facies Mastitis
 Mediastinal disorder Melaena Melanocytic naevus
 Memory impairment Meningitis Menometrorrhagia Menopausal
 symptoms Menopause Menorrhagia Menstrual disorder
 Menstruation delayed Menstruation irregular Mental disability
 Mental disorder Mental retardation Mental status changes
 Metabolic alkalosis Metastasis Metastatic neoplasm
 Methaemoglobinaemia Metrorrhagia Micturition disorder
 Micturition urgency Middle ear disorder Middle ear
 effusion Middle insomnia Migraine Migraine with aura
 Migraine without aura Miosis Mitral valve incompetence
 Mobility decreased Monarthritits Monocyte count
 increased Monocytosis Mood swings Motion sickness Mouth ulceration
 Movement disorder Multiple myeloma Muscle atrophy Muscle
 contractions involuntary Muscle contracture Muscle enzyme
 increased Muscle relaxant therapy Muscle rigidity Muscle
 spasms Muscle spasticity Muscle tightness Muscle twitching
 Muscular weakness Musculoskeletal chest pain Musculoskeletal
 discomfort Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Mutism Myalgia Myasthenic
 syndrome Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
 Nail discolouration Nail disorder Nail infection
 Narcolepsy Nasal congestion Nasal disorder Nasal dryness
 Nasal oedema Nasal polyps Nasopharyngitis Nausea
 Neck pain Necrosis Necrosis ischaemic Neoplasm
 Neoplasm malignant Neoplasm prostate Neoplasm recurrence
 Neoplasm skin Nephritis Nephrolithiasis Nephrotic
 syndrome Nerve root lesion Nervous system disorder Nervousness
 Neuralgia Neuritis Neurodermatitis Neurogenic bladder
 Neuroleptic malignant syndrome Neurological symptom
 Neuroma Neuropathy peripheral Neurosis Neutropenia
 Neutrophil count decreased Neutrophil count increased Night
 blindness Night sweats Nightmare Nocturia Nodal arrhythmia

Nodule Normochromic normocytic anaemia Nuchal rigidity
 Nystagmus Obesity Obsessive thoughts Obstruction
 Obstructive airways disorder Ocular hyperaemia Oculogyric crisis
 Oedema peripheral Oesophageal achalasia Oesophageal carcinoma
 Oesophageal disorder Oesophageal spasm Oesophageal stenosis
 Oesophageal ulcer Oesophagitis Oligomenorrhoea Oliguria
 Onychomycosis Opisthotonus Oral candidiasis Oral
 neoplasm benign Oral pain Orchitis noninfective Orgasm abnormal
 Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Osteoporotic fracture Otitis externa Otitis media
 Otitis media chronic Ovarian cancer Ovarian cyst Pain
 in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Papilloma Paraesthesia Paraesthesia oral Paralysis
 Paranoia Parasomnia Paresis Parkinsonian gait
 Parkinsonism Paronychia Parosmia Pathological fracture
 Pathological gambling Pelvic pain Penis disorder Peptic
 ulcer Pericardial effusion Pericarditis constrictive Perineal
 pain Periodontitis Periorbital oedema Peripheral coldness
 adhesions Peripheral ischaemia Peripheral vascular disorder Peritoneal
 Personality disorder Petechiae Pharyngeal disorder
 Pharyngeal erythema Pharyngeal oedema Pharyngitis Phlebitis
 Phlebitis superficial Phobia Phonological disorder
 Photophobia Photopsia Photosensitivity allergic reaction
 Photosensitivity reaction Pigmentation disorder
 Piloerection Pituitary tumour benign Plantar fasciitis
 Plasmacytoma Platelet count decreased Pleural disorder
 Pleural effusion Pleural fibrosis Pleurisy Pneumonia
 Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polyarteritis nodosa
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Poor peripheral circulation Post procedural
 infection Postmenopausal haemorrhage Postural orthostatic
 tachycardia syndrome Posture abnormal Pre-eclampsia Precocious
 puberty Premature ejaculation Premenstrual syndrome Presyncope
 Priapism Proctalgia Productive cough Prolactinoma
 Prostate cancer Prostatic adenoma Prostatic disorder
 Prostatitis Prostatomegaly Protein total decreased
 Protein urine present Proteinuria Protrusion tongue Prurigo
 Pruritus Pruritus generalised Pruritus genital
 Pseudolymphoma Psoriasis Psychiatric symptom Psychomotor
 retardation Psychosomatic disease Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary function test decreased Pulmonary hypertension
 Pulmonary oedema Pupils unequal Purpura Pyelonephritis
 Pyoderma Pyuria Rales Rash Rash erythematous Rash
 generalised Rash maculo-papular Rash papular Rash pustular
 Rash vesicular Raynaud's phenomenon Rectal cancer
 Rectal haemorrhage Rectal prolapse Rectal tenesmus Red
 blood cell count decreased Red blood cell count increased Red
 blood cell sedimentation rate increased Reflux oesophagitis

Regressive behaviour Regurgitation Renal artery stenosis
 Renal colic Renal cyst Renal failure acute Renal impairment
 Renal neoplasm Renal pain Respiratory alkalosis Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal artery occlusion Retinal detachment
 Retinal disorder Retinal vascular disorder Retinitis
 pigmentosa Retrograde ejaculation Retroperitoneal fibrosis
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Rotator cuff syndrome Sacroiliitis Saliva altered
 Salivary duct obstruction Salivary gland disorder
 Salivary gland enlargement Salivary hypersecretion
 Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
 disorder Schizophrenia Schizophreniform disorder Sciatica
 Scleral haemorrhage Scleritis Scotoma Seasonal allergy
 Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of foreign body Sensation of heaviness Sensory
 disturbance Sensory loss Sepsis Septic shock Severe
 acute respiratory syndrome Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sick sinus syndrome Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus disorder Sinus
 headache Sinus tachycardia Sinusitis Skin burning sensation Skin
 cancer Skin discolouration Skin disorder Skin exfoliation
 Skin hyperpigmentation Skin hypertrophy Skin infection Skin
 irritation Skin lesion Skin mass Skin odour abnormal Skin
 papilloma Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep paralysis Sleep talking Sluggishness Small
 intestinal obstruction Sneezing Snoring Social avoidant
 behaviour Somnambulism Somnolence Speech disorder Sphincter
 of Oddi dysfunction Spinal osteoarthritis Spine malformation
 Splenomegaly Spondylitis Squamous cell carcinoma
 Status epilepticus Stevens-Johnson syndrome Sticky skin
 Stomach dilation procedure Stomatitis Strabismus Stress
 Stridor Stupor Subarachnoid haemorrhage
 Subcutaneous abscess Subcutaneous nodule Subdural
 haematoma Subileus Sudden death Suicidal ideation Suicide
 attempt Superior sagittal sinus thrombosis Supraventricular
 extrasystoles Supraventricular tachycardia Surgery
 Suspiciousness Swelling Swelling face Swollen tongue
 Syncope Synostosis Synovial cyst Synovitis Systemic
 lupus erythematosus Tachycardia Tachypnoea Tardive dyskinesia
 Telangiectasia Tenderness Tendinous contracture Tendon
 disorder Tendonitis Tenosynovitis Tension Tension headache
 Terminal insomnia Testicular disorder Testicular pain
 Testicular swelling Tetany Therapeutic response
 decreased Therapeutic response increased Thinking abnormal
 Thirst Thought blocking Throat irritation Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid adenoma Thyroid cancer Thyroid neoplasm
 Thyroiditis Tic Tinea pedis Tinnitus Tongue discolouration
 Tongue disorder Tongue dry Tongue oedema Tongue paralysis
 Tongue spasm Tongue ulceration Tonsillar hypertrophy

Tonsillitis Tooth abscess Tooth disorder Tooth impacted
 Tooth infection Toothache Torsade de pointes Torticollis
 Toxic epidermal necrolysis Tracheitis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
 hernia Unevaluable event Unintended pregnancy Unresponsive to
 stimuli Upper respiratory tract infection Upper-airway cough
 syndrome Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urinary tract obstruction
 Urine abnormality Urine analysis abnormal Urine output
 increased Urogenital disorder Urosepsis Urticaria Uterine
 disorder Uterine haemorrhage Uterine inflammation Uterine
 leiomyoma Uterine neoplasm Uterovaginal prolapse VIIth nerve
 paralysis Vaginal cyst Vaginal discharge Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Varicose vein
 Vascular headache Vascular insufficiency Vascular purpura
 Vasculitis Vasoconstriction Vasodilation procedure Vasospasm
 Vein disorder Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular hypertrophy Ventricular
 tachycardia Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment
 Vitreous floaters Vocal cord paralysis Vomiting Vulval
 disorder Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Waxy flexibility
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cells urine positive Withdrawal bleed
 Withdrawal syndrome Wound haemorrhage Wound infection
 Xerophthalmia Xerosis Yawning

Interleukin-1 receptor-associated kinase 4 - Group: Enzyme

Treated with:

1-(3-hydroxypropyl)-2-[(3-nitrobenzoyl)amino]-1h-benzimidazol-5-yl
 pivalate: experimental small molecule (0 associated side
 effects)

known side effects mediated through drugs targeting this protein:

Vitamin D3 receptor - Group: Receptor

Treated with:

calcitriol: approved, nutraceutical small molecule (0 associated
 side effects) Used to treat vitamin D deficiency or
 insufficiency, refractory rickets (vitamin D resistant rickets),
 familial hypophosphatemia and hypoparathyroidism, and in the
 management of hypocalcemia and renal osteodystrophy in patients with
 chronic renal failure undergoing dialysis. Also used in conjunction

with calcium in the management and prevention of primary or corticosteroid-induced osteoporosis.

calcidiol: approved, nutraceutical small molecule (0 associated side effects) Used to treat vitamin D deficiency or insufficiency, refractory rickets (vitamin D resistant rickets), familial hypophosphatemia and hypoparathyroidism, and in the management of hypocalcemia and renal osteodystrophy in patients with chronic renal failure undergoing dialysis. Also used in conjunction with calcium in the management and prevention of primary or corticosteroid-induced osteoporosis.

ergocalciferol: approved, nutraceutical small molecule (0 associated side effects) For use in the management of hypocalcemia and its clinical manifestations in patients with hypoparathyroidism, as well as for the treatment of familial hypophosphatemia (vitamin D resistant rickets). This drug has also been used in the treatment of nutritional rickets or osteomalacia, vitamin D dependent rickets, rickets or osteomalacia secondary to long-term high dose anticonvulsant therapy, early renal osteodystrophy, osteoporosis (in conjunction with calcium), and hypophosphatemia associated with Fanconi syndrome (with treatment of acidosis).

cholecalciferol: approved, nutraceutical small molecule (0 associated side effects) For the treatment of vitamin D deficiency or insufficiency, refractory rickets (vitamin D resistant rickets), familial hypophosphatemia and hypoparathyroidism, and in the management of hypocalcemia and renal osteodystrophy in patients with chronic renal failure undergoing dialysis. Also used in conjunction with calcium in the management and prevention of primary or corticosteroid-induced osteoporosis.

paricalcitol: approved small molecule (166 associated side effects) For treatment of secondary hyperparathyroidism associated with chronic kidney disease (CKD) Stage 3 and 4

dihydroxycholesterol: approved small molecule (0 associated side effects) Used for the prevention and treatment of rickets or osteomalacia, and to manage hypocalcemia associated with hypoparathyroidism or pseudohypoparathyroidism. Also used for the treatment of vitamin D dependent rickets, rickets or osteomalacia secondary to long-term high dose anticonvulsant therapy, early renal osteodystrophy, osteoporosis (in conjunction with calcium), and hypophosphatemia associated with Fanconi syndrome (with treatment of acidosis).

alfacalcidol: approved, nutraceutical small molecule (0 associated side effects) Alfacalcidol is an active metabolite of Vitamin D, which performs important functions in regulation of the calcium balance and the bone metabolism.

calcipotriol: approved, nutraceutical small molecule (15 associated side effects) For the treatment of moderate plaque psoriasis in adults.

1 α ,25-dihydroxy-20-epi-22-oxa-24,26,27-trihomovitamin d3:

experimental small molecule (0 associated side effects)
seocalcitol: experimental small molecule (0 associated side effects)

inecalcitol: experimental small molecule (0 associated side effects) Investigated for use/treatment in prostate cancer, psoriasis and hyperparathyroidism.

(1r,3r)-5-[(2e)-3-[(1s,3r)-2,2,3-trimethyl-3-[6,6,6-trifluoro-5-hydroxy-5-(trifluoromethyl)hex-3-yn-1-yl]cyclopentyl}prop-2-en-1-ylidene]cyclohexane-1,3-diol: experimental small molecule
(0 associated side effects)

5-{2-[1-(1-methyl-propyl)-7a-methyl-octahydro-inden-4-ylidene]-ethylidene}-2-methylene-cyclohexane-1,3-diol: experimental small molecule
(0 associated side effects)

1,3-cyclohexanediol, 4-methylene-5-[(2e)-[(1s,3as,7as)-octahydro-1-(5-hydroxy-5-methyl-1,3-hexadiynyl)-7a-methyl-4h-inden-4-ylidene]ethylidene]-, (1r,3s,5z): experimental small molecule
(0 associated side effects)

176 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Adverse reaction
Ageusia Agitation Alopecia Anaemia Angioedema
Angiopathy Aortic dissection Arrhythmia Arthralgia Arthropathy
Aspartate aminotransferase increased Asthenia Asthma
Atrial flutter Atrophy Back pain Bleeding time
prolonged Blister Blood urea increased Body temperature
increased Bone pain Breast cancer Breast disorder Breast pain
Burning sensation Calcinosis Cardiac arrest Cardiac disorder
Cardiac flutter Cerebral ischaemia Cerebrovascular
accident Chest discomfort Chest pain Chills Colitis
Condition aggravated Confusional state Conjunctivitis
Connective tissue disorder Constipation Cough Death
Decreased appetite Delirium Depersonalisation Depressed
level of consciousness Dermatitis Dermatitis bullous Diarrhoea
Discomfort Disturbance in sexual arousal Dizziness Dry
mouth Dry skin Dysgeusia Dyspepsia Dysphagia Dyspnoea Ear
discomfort Ear disorder Endocrine disorder Epistaxis
Erectile dysfunction Eructation Erythema Extravasation
Eye disorder Eye inflammation Fatigue Feeling abnormal
Folliculitis Gait disturbance Gastritis Gastrointestinal
disorder Gastrointestinal haemorrhage Gastrointestinal pain
Glaucoma Haemoglobin Haemorrhage Headache Heart rate
irregular Hirsutism Hormone level abnormal Hyperaemia
Hypercalcaemia Hypercholesterolaemia Hyperhidrosis
Hyperkalaemia Hypersensitivity Hypertension
Hyperthermia Hypoaesthesia Hypocalcaemia
Hypoparathyroidism Hypotension Ill-defined disorder
Infection Infestation Influenza Injection site pain
Insomnia Intestinal ischaemia Ischaemia Joint stiffness
Laboratory test abnormal Laryngeal oedema Leukopenia
Libido decreased Loss of consciousness Lymphadenopathy
Malaise Mediastinal disorder Mental disorder Mesenteric
vascular insufficiency Muscle twitching Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myoclonus
Nasopharyngitis Nausea Neoplasm malignant Nervous
system disorder Nervousness Night sweats Ocular hyperaemia
Oedema Oedema mouth Oedema peripheral Orthopnoea
Osteoarthritis Pain Palpitations Pancreatitis
Paraesthesia Pharyngitis Photophobia Pneumonia Poisoning
Prurigo Pruritus Psoriasis Psychotic disorder
Pulmonary oedema Rash Rash pustular Rectal haemorrhage

Respiratory tract infection Rhinorrhoea Sepsis Shock Skin
atrophy Skin burning sensation Skin disorder Skin exfoliation
Skin hyperpigmentation Skin irritation Somnolence Stupor
Swelling Syncope Tension Thirst Unresponsive to
stimuli Upper respiratory tract infection Urticaria Vaginal
infection Vaginal inflammation Vasodilation procedure Vomiting
Weight decreased Wheezing

Growth factor receptor-bound protein 2 - Group: Other

Treated with:

pegademase bovine: approved biotech (0 associated side
effects) For treatment of adenosine deaminase deficiency
4-[(10s,14s,18s)-18-(2-amino-2-oxoethyl)-14-(1-naphthylmethyl)-
8,17,20-trioxo-7,16,19-triazaspiro[5.14]icos-11-en-10-
yl]benzylphosphonic acid: experimental small molecule (0
associated side effects)

known side effects mediated through drugs targeting this protein:

Thyrotropin receptor - Group: Receptor

Treated with:

thyrotropin alfa: approved biotech (0 associated side effects)
For detection of residueal or recurrent thyroid cancer

known side effects mediated through drugs targeting this protein:

Mitochondrial ornithine transporter 1 - Group: Transporter

Treated with:

l-ornithine: approved, nutraceutical small molecule (0
associated side effects) Used for nutritional supplementation,
also for treating dietary shortage or imbalance. It has been claimed
that ornithine improves athletic performance, has anabolic effects,
has wound-healing effects, and is immuno-enhancing.

known side effects mediated through drugs targeting this protein:

Potassium voltage-gated channel subfamily C member 4 - Group:

Channel

Treated with:

phosphoserine: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

Ephrin type-A receptor 7 - Group: Enzyme

Treated with:

5-[(2-methyl-5-[[3-(trifluoromethyl)phenyl]carbamoyl]phenyl)amino]pyridine-3-carboxamide: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Transient receptor potential cation channel subfamily A member 1 - Group: Channel

Treated with:

menthol: approved small molecule (0 associated side effects)

Used to treat occasional minor irritation, pain, sore mouth, and sore throat as well as cough associated with a cold or inhaled irritants.

known side effects mediated through drugs targeting this protein:

Muscarinic acetylcholine receptor M2 - Group: Receptor

Treated with:

succinylcholine: approved small molecule (27 associated side effects) Used in surgical procedures where a rapid onset and brief duration of muscle relaxation is needed (includes intubation, endoscopies, and ECT)

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

disopyramide: approved small molecule (85 associated side effects) For the treatment of documented ventricular arrhythmias, such as sustained ventricular tachycardia, ventricular pre-excitation and cardiac dysrhythmias. It is a Class Ia antiarrhythmic drug.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

ipratropium bromide: approved small molecule (116 associated side effects) For maintenance treatment of bronchospasm associated with chronic obstructive pulmonary disease, including chronic bronchitis and emphysema.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

metixene: approved small molecule (0 associated side effects)

Used for the symptomatic treatment of parkinsonism.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

trihexyphenidyl: approved small molecule (43 associated side effects) Indicated for the treatment of parkinson's disease and extrapyramidal reactions caused by drugs.

oxyphencyclimine: approved small molecule (0 associated side effects) For the treatment of peptic ulcer disease and the relief of smooth muscle spasms in gastrointestinal disorders.

procyclidine: approved small molecule (0 associated side effects) For the treatment of all forms of Parkinson's Disease, as well as control of extrapyramidal reactions induced by antipsychotic agents.

ethopropazine: approved small molecule (0 associated side effects) For use in the treatment of Parkinson's disease and also used to control severe reactions to certain medicines such as reserpine.

carbachol: approved small molecule (12 associated side effects) Primarily used in the treatment of glaucoma, but is also used during ophthalmic surgery.

promazine: approved small molecule (0 associated side effects) Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

hyoscyamine: approved small molecule (0 associated side effects) For treatment of bladder spasms, peptic ulcer disease, diverticulitis, colic, irritable bowel syndrome, cystitis, and pancreatitis. Also used to treat certain heart conditions, to control the symptoms of Parkinson's disease and rhinitis.

cyproheptadine: approved small molecule (63 associated side effects) For treatment of perennial and seasonal allergic rhinitis, vasomotor rhinitis, allergic conjunctivitis due to inhalant allergens and foods, mild uncomplicated allergic skin manifestations of urticaria and angioedema, amelioration of allergic reactions to blood or plasma, cold urticaria, dermatographism, and as therapy for anaphylactic reactions adjunctive to epinephrine.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

methylscopolamine: approved small molecule (29 associated side effects) Used as adjunctive therapy for the treatment of peptic ulcer. Also used to treat nausea and vomiting due to motion sickness.

gallamine triethiodide: approved small molecule (0 associated side effects) For use as adjuncts to anesthesia to induce skeletal muscle relaxation and to facilitate the management of patients undergoing mechanical ventilation

darifenacin: approved small molecule (69 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency.

tridihexethyl: approved small molecule (0 associated side effects) Used as an adjunct in the treatment of peptic ulcer disease and in Acquired nystagmus

triflupromazine: approved small molecule (0 associated side effects) Used mainly in the management of psychoses. Also used to control nausea and vomiting.

anisotropine methylbromide: approved small molecule (0 associated side effects) For use in conjunction with antacids or histamine H₂-receptor antagonists in the treatment of peptic ulcer, to reduce further gastric acid secretion and delay gastric emptying.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

atropine: approved small molecule (161 associated side effects) For the treatment of poisoning by susceptible organophosphorous nerve agents having cholinesterase activity as well as organophosphorous or carbamate insecticides.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

homatropine methylbromide: approved small molecule (0 associated side effects) Used in conjunction with antacids or histamine H₂-receptor antagonists in the treatment of peptic ulcers, gastric ulcers and duodenal ulcers, to reduce further gastric acid secretion and delay gastric emptying.

rocuronium: approved small molecule (25 associated side effects) For inpatients and outpatients as an adjunct to general anesthesia to facilitate both rapid sequence and routine tracheal intubation, and to provide skeletal muscle relaxation during surgery or mechanical ventilation.

benzquinamide: approved small molecule (0 associated side effects) Used to prevent and treat nausea and vomiting associated with anesthesia and surgery, administered intramuscularly or intravenously.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

cryptenamine: approved small molecule (0 associated side effects) For the treatment of hypertension.

dicyclomine: approved small molecule (85 associated side effects)

tropicamide: approved small molecule (14 associated side effects) Indicated to induce mydriasis (dilation of the pupil) and cycloplegia (paralysis of the ciliary muscle of the eye) in diagnostic procedures, such as measurement of refractive errors and examination of the fundus of the eye.

brompheniramine: approved small molecule (27 associated side effects) For the treatment of the symptoms of the common cold and allergic rhinitis, such as runny nose, itchy eyes, watery eyes, and sneezing.

cocaine: illicit, approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

bethanechol: approved small molecule (25 associated side effects) For the treatment of acute postoperative and postpartum nonobstructive (functional) urinary retention and for neurogenic atony of the urinary bladder with retention.

tolterodine: approved small molecule (51 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

oxybutynin: approved small molecule (163 associated side effects) For the treatment of overactive bladder.

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

pilocarpine: approved small molecule (207 associated side effects) For the treatment of radiation-induced dry mouth (xerostomia) and symptoms of dry mouth in patients with Sjögrens syndrome.

doxacurium chloride: approved small molecule (0 associated side effects) Used to provide skeletal muscle relaxation as an adjunct to general anesthesia, for endotracheal intubation or to facilitate mechanical ventilation.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

flavoxate: approved small molecule (18 associated side effects) For symptomatic relief of dysuria, urgency, nocturia, suprapubic pain, frequency and incontinence as may occur in cystitis, prostatitis, urethritis, urethrocystitis/urethrotrigonitis.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

mivacurium: approved small molecule (18 associated side effects) For inpatients and outpatients, as an adjunct to general

anesthesia, to facilitate tracheal intubation and to provide skeletal muscle relaxation during surgery or mechanical ventilation.
diphenidol: approved small molecule (0 associated side effects)

For use in the prevention and symptomatic treatment of peripheral (labyrinthine) vertigo and associated nausea and vomiting that occur in such conditions as Meniere's disease and surgery of the middle and inner ear. Also for the control of nausea and vomiting associated with postoperative states, malignant neoplasms, labyrinthine disturbances, antineoplastic agent therapy, radiation sickness, and infectious diseases.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

metocurine: approved small molecule (0 associated side effects)
Metocurine is a muscle relaxant.

pancuronium: approved small molecule (18 associated side effects) Used as a muscle relaxant during anesthesia and surgical procedures.

pipecuronium: approved small molecule (0 associated side effects) Used as a muscle relaxant during anesthesia and surgical procedures.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

tiotropium: approved small molecule (60 associated side effects)
Used in the management of chronic obstructive pulmonary disease (COPD).

solifenacin: approved small molecule (56 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency.

fesoterodine: approved small molecule (50 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

dimethindene: approved small molecule (0 associated side effects) Indicated as symptomatic treatment of allergic reactions: urticaria, allergies of the upper respiratory tract such as hay fever and perennial rhinitis, food and drug allergies; pruritus of various origins, except pruritus due to cholestasis; insect bites. Dimethindene is also indicated for pruritus in eruptive skin diseases such as chicken-pox. Dimethindene can also be used as an adjuvant in eczema and other pruriginous dermatoses of allergic origin.

1079 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abdominal tenderness
Abnormal dreams Abnormal faeces Abscess
Accommodation disorder Acidosis Acne Acute coronary syndrome
Acute psychosis Adenocarcinoma Adjustment disorder
Affect lability Ageusia Aggression Agitation Agoraphobia
Agranulocytosis Akathisia Akinesia Alanine

aminotransferase increased Albuminuria Alcohol abuse Alcohol
 intolerance Alkalosis Alopecia Altered state of consciousness
 Alveolitis allergic Amblyopia Amenorrhoea Amnesia
 Anaemia Anaemia macrocytic Anaphylactic shock
 Anaphylactoid reaction Anger Angina pectoris Angioedema
 Angiopathy Angle closure glaucoma Anhidrosis Anisocytosis
 Anorectal disorder Anorgasmia Antinuclear antibody
 positive Antisocial behaviour Antisocial personality disorder
 Anxiety Aortic dissection Apathy Aphasia Aphthous
 stomatitis Aplasia Aplastic anaemia Apnoea Appendicitis
 Application site reaction Arrhythmia Arrhythmia
 supraventricular Arteriosclerosis Arteritis Arthralgia Arthritis
 Arthropathy Asocial behaviour Aspartate aminotransferase
 increased Asphyxia Aspiration Assisted fertilisation Asthenia
 Asthma Ataxia Atelectasis Athetosis Atrial
 fibrillation Atrial flutter Atrioventricular block first
 degree Atrioventricular dissociation Atrophy Azospermia
 Azotaemia Back pain Balance disorder Basophilia Benign
 prostatic hyperplasia Bladder dilatation Bladder neck
 obstruction Bladder pain Bleeding time prolonged Blepharitis
 Blepharospasm Blindness Blister Blood alkaline
 phosphatase increased Blood bilirubin increased Blood cholesterol
 increased Blood creatine phosphokinase increased Blood creatinine
 increased Blood disorder Blood glucose decreased Blood
 glucose increased Blood insulin increased Blood lactate
 dehydrogenase increased Blood potassium decreased Blood
 potassium increased Blood pressure abnormal Blood pressure
 diastolic decreased Blood pressure fluctuation Blood pressure
 increased Blood pressure systolic decreased Blood prolactin
 increased Blood triglycerides increased Blood triglycerides
 normal Blood urea increased Blood uric acid increased Blood
 urine Blood urine present Blunted affect Body temperature
 decreased Body temperature increased Bone disorder Bone pain
 Bradycardia Bradykinesia Bradyphrenia Brain oedema
 Breast atrophy Breast cancer Breast cyst Breast disorder
 Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breath odour Bronchitis Bronchopneumopathy
 Bronchospasm paradoxical Bruxism Buccoglossal syndrome
 Bulimia nervosa Bundle branch block Burning sensation
 Bursitis Cachexia Calculus urinary Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac output
 decreased Cardio-respiratory arrest Cardiomegaly
 Cardiomyopathy Cardiopulmonary failure Cardiovascular
 disorder Carpal tunnel syndrome Cataplexy Cataract Catatonia
 Cells in urine Cellulitis Cerebellar syndrome Cerebral
 haemorrhage Cerebral infarction Cerebral ischaemia
 Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cervix disorder Chapped lips Cheilitis Chest
 discomfort Chest pain Chills Cholecystitis Cholelithiasis
 Cholestasis Cholinergic syndrome Chondropathy Chorea
 Choreoathetosis Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Ciliary muscle spasm Clonus
 Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat

Colitis Colonic obstruction Coma Completed suicide
 Condition aggravated Conduction disorder Confusional state
 Conjunctival disorder Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal degeneration Corneal lesion
 Corneal oedema Corneal opacity Costochondritis Cough
 Crying Cyanosis Cycloplegia Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Decubitus
 ulcer Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Diabetes mellitus Diabetic coma
 Diabetic hyperglycaemic coma Diabetic hyperosmolar coma
 Diabetic ketoacidosis Diarrhoea Diarrhoea haemorrhagic
 Diplopia Discomfort Disease progression Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug withdrawal syndrome Dry eye Dry mouth Dry
 skin Dry throat Duodenal ulcer Duodenitis Dysarthria Dysgeusia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dyspnoea Dystonia Dysuria Ear
 disorder Ear infection Ear pain Ecchymosis Eclampsia
 Eczema Effusion Ejaculation delayed Ejaculation
 disorder Elastosis perforans Elderly Electrocardiogram QRS
 complex Electrocardiogram QT prolonged Electrocardiogram ST
 segment Electrocardiogram ST segment depression Electrocardiogram
 ST segment elevation Electrocardiogram T wave inversion
 Electrocardiogram abnormal Electrocardiogram change
 Electroencephalogram abnormal Elevated mood Embolism
 Emphysema Encephalopathy Endocrine disorder Endometrial
 disorder Energy increased Enteritis Enuresis Eosinophilia
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Euphoric mood Exfoliative rash Exophthalmos Exostosis
 Extensor plantar response Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye discharge Eye
 disorder Eye haemorrhage Eye infection Eye inflammation Eye
 irritation Eye pain Eyelid disorder Eyelid function disorder
 Eyelid oedema Eyelid ptosis Face oedema Facial pain
 Facial paresis Faecal incontinence Faecalith Faecaloma
 Faeces hard Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Female sexual
 dysfunction Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid retention Flushing Folliculitis
 Food interaction Formication Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gangrene Gastric disorder
 Gastric pH decreased Gastric ulcer Gastric ulcer
 haemorrhage Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal motility disorder

Gastrointestinal pain Gastrointestinal sounds abnormal
 Gastrooesophageal reflux disease Generalised oedema
 Genital discharge Genital disorder female Genital disorder
 male Gigantism Gingival bleeding Gingival hyperplasia Gingival
 pain Gingival recession Gingivitis Glaucoma Globulins
 increased Glomerulonephritis membranous Glossitis Glossodynia
 Glucose tolerance decreased Glucose tolerance impaired
 Glycosuria Glycosylated haemoglobin increased Goitre Gout
 Grand mal convulsion Groin pain Gynaecomastia
 Haematemesis Haematochezia Haematocrit decreased
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhagic disorder Haemorrhoids Hair disorder
 Hallucination Hallucination, auditory Hallucination,
 visual Halo vision Hangover Head and neck cancer Head
 discomfort Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemiparesis Hemiplegia Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic steatosis Hepatitis Hepatobiliary disease
 Hepatomegaly Hepatosplenomegaly Hernia Herpes
 simplex Herpes virus infection Herpes zoster Hiccups
 Hirsutism Homicidal ideation Hormone level abnormal
 Hostility Hot flush Hyperacusis Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperpathia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersomnia Hypertension Hyperthermia
 Hyperthermia malignant Hyperthyroidism Hypertonia Hypertonic
 bladder Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypoxia
 Idiopathic thrombocytopenic purpura Ileitis Ileus
 paralytic Ill-defined disorder Immune system disorder
 Immunoglobulins increased Impaired gastric emptying
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infertility female
 Infestation Inflammation Influenza Inguinal hernia
 Injection site mass Injection site pain Injection site
 phlebitis Injection site reaction Insomnia Intention tremor
 Intentional self-injury Interstitial lung disease
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intraocular pressure increased
 Iritis Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia

Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratoconjunctivitis
 sicca Keratopathy Ketoacidosis Ketosis Laboratory test
 abnormal Labyrinthitis Lacrimal disorder Lacrimation decreased
 Lacrimation increased Laryngeal disorder Laryngitis
 Laryngospasm Left ventricular failure Leiomyoma Lens
 disorder Lenticular opacities Lenticular pigmentation
 Lethargy Leukaemia Leukocytosis Leukoderma Leukopenia
 Leukoplakia oral Libido decreased Libido increased Light
 anaesthesia Lip blister Lip dry Liver disorder Liver function
 test abnormal Logorrhoea Loss of consciousness Loss of libido
 Lower respiratory tract infection Lung adenocarcinoma stage I
 Lung disorder Lymphadenitis Lymphadenopathy Lymphocyte
 count abnormal Lymphocytic leukaemia Lymphocytosis Lymphoedema
 Lymphopenia Macular hole Macule Major depression
 Malaise Male sexual dysfunction Malignant melanoma
 Mania Masked facies Mass Mastitis Mediastinal disorder
 Megacolon Melaena Memory impairment Meningitis Menopausal
 symptoms Menorrhagia Menstrual disorder Menstruation irregular
 Mental disability Mental disorder Mental retardation
 Mental status changes Metrorrhagia Microcytic anaemia
 Micturition disorder Micturition urgency Middle ear
 disorder Migraine Miosis Mitral valve incompetence
 Mobility decreased Monocytosis Mood swings Motion sickness
 Mouth ulceration Movement disorder Mucosal inflammation
 Mucosal ulceration Mucous membrane disorder Muscle
 contractions involuntary Muscle contracture Muscle enzyme
 increased Muscle relaxant therapy Muscle rigidity Muscle
 spasms Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
 Nail disorder Nasal congestion Nasal discomfort Nasal
 disorder Nasal dryness Nasal oedema Nasal polyps
 Nasopharyngitis Nausea Neck pain Necrosis Negativism
 Neoplasm Neoplasm malignant Nephritis Nephrolithiasis
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neurodermatitis Neuroleptic malignant syndrome
 Neurological symptom Neuropathy peripheral Neurosis
 Neutropenia Neutrophil count decreased Neutrophil count
 increased Night blindness Night sweats Nightmare Nocturia
 Nodal arrhythmia Nodal rhythm Normochromic normocytic
 anaemia Nuchal rigidity Nystagmus Obesity Obsessive
 thoughts Obstruction Obstructive airways disorder Ocular hyperaemia
 Oculogyric crisis Oedema Oedema mouth Oedema peripheral
 Oesophageal achalasia Oesophageal disorder Oesophageal ulcer
 Oesophagitis Oliguria Onychomycosis Open angle
 glaucoma Opisthotonus Optic neuritis Oral candidiasis Oral
 disorder Oral pain Orchitis noninfective Orgasm abnormal
 Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteopenia Osteoporosis

Otitis externa	Otitis media	Ovarian cyst	Ovarian
disorder	Pain	Pain in extremity	Pain in jaw
Palpitations	Pancreatitis	Pancreatitis acute	
Pancytopenia	Panic attack	Panic disorder	Panic
disorder with agoraphobia	Panic reaction	Papule	
Paraesthesia oral	Paralysis	Paranoia	Parity
Parkinsonian gait	Parosmia	Parotid gland enlargement	
Parotitis	Pathological fracture	Pelvic pain	Peptic ulcer
Pericardial effusion	Pericardial haemorrhage		
Pericarditis	Periodontitis	Periorbital oedema	
Peripheral vascular disorder	Peritonitis	Personality disorder	
Petechiae	Pharyngeal disorder	Pharyngeal erythema	
Pharyngeal oedema	Pharyngitis	Phlebitis	Phobia
Phonological disorder	Photophobia	Photopsia	Photosensitivity
reaction	Platelet count decreased	Platelet disorder	Pleural
disorder	Pleural effusion	Pneumonia	Pneumonia aspiration
Poisoning	Pollakiuria	Polycythaemia	Polydipsia
Polyuria	Porphyria	Postpartum disorder	Pregnancy
Premature baby	Premature delivery	Premature ejaculation	
Premenstrual syndrome	Pressure of speech	Presyncope	
Priapism	Productive cough	Prostate cancer	Prostatic
disorder	Prostatitis	Protein urine present	Proteinuria
Protrusion	Pruritus	Pruritus genital	Psoriasis
tongue	Psychomotor retardation	Psychotic disorder	Psychiatric
symptom	Pulmonary congestion	Pulmonary embolism	Pulmonary
fibrosis	Pulmonary function test decreased	Pulmonary hypertension	
Pulmonary oedema	Punctate keratitis	Pupils unequal	
Purpura	Pyelonephritis	Pyuria	Rales
Rash	Rash generalised	Rash macular	Rash maculo-
erythematous	Rash morbilliform	Rash papular	Rash pustular
papular	Rash vesicular	Rectal haemorrhage	Red blood
scarlatiniform	Red blood cell count decreased	Red blood cell	sedimentation rate increased
behaviour	Reflux oesophagitis	Regressive	
Renal failure acute	Renal impairment	Renal pain	
Reproductive tract disorder	Respiratory alkalosis	Respiratory	Respiratory
arrest	Respiratory depression	Respiratory disorder	Respiratory
distress	Respiratory failure	Respiratory tract congestion	
Respiratory tract infection	Respiratory tract infection viral		
Restless legs syndrome	Retching	Retinal detachment	
Retinal disorder	Retinal haemorrhage	Rhabdomyolysis	
Rheumatoid arthritis	Rhinitis	Rhinitis allergic	Rhinitis
seasonal	Rhinorrhoea	Rhonchi	Rosacea
enlargement	Salivary gland	Salivary gland	Salivary gland
Salivary hypersecretion	Salpingitis	Sarcosinaemia	
Scab	Schizoaffective disorder	Schizophreniform disorder	
Sciatica	Scotoma	Seasonal allergy	Seborrhoeic dermatitis
Sedation	Sensation of heaviness	Sensitisation	Sensory
loss	Sepsis	Septic shock	Sexual dysfunction
Sialoadenitis	Sicca syndrome	Sinus arrest	Sinus
arrhythmia	Sinus bradycardia	Sinus congestion	Sinus disorder
headache	Sinus tachycardia	Sinusitis	Skin discolouration
disorder	Skin exfoliation	Skin hypertrophy	Skin irritation
odour abnormal	Skin ulcer	Skin warm	Sleep apnoea syndrome
disorder	Sleep paralysis	Sleep talking	Sluggishness
Sneezing	Social avoidant behaviour	Somnambulism	
Somnolence	Speech disorder	Sputum increased	Status

asthmaticus Status epilepticus Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Subarachnoid
 haemorrhage Subdural haematoma Sudden death Suicidal ideation
 Suicide attempt Suppressed lactation Supraventricular
 extrasystoles Supraventricular tachycardia Surgery
 Suspiciousness Swelling Swelling face Swollen tongue
 Syncope Systemic lupus erythematosus Tachyarrhythmia
 Tachycardia Tachypnoea Tardive dyskinesia Tearfulness
 Temperature intolerance Tenderness Tendon disorder
 Tendonitis Tenosynovitis Tension Tension headache
 Teratogenicity Testicular disorder Testicular pain
 Testicular swelling Tetany Thinking abnormal Thirst
 Thought blocking Throat irritation Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thyroiditis Tic Tinnitus
 Tongue coated Tongue discolouration Tongue disorder
 Tongue dry Tongue oedema Tongue paralysis Tongue spasm
 Tonsillar hypertrophy Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Tooth malformation Toothache
 Torsade de pointes Torticollis Toxic epidermal necrolysis
 Tracheal disorder Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Type I hypersensitivity Ulcer
 Ulcer haemorrhage Ulcerative keratitis Unintended pregnancy
 Upper respiratory tract infection Urethral disorder Urethral
 pain Urethritis Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterine neoplasm Uterine spasm
 Uterovaginal prolapse VIIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicose vein Vascular headache Vascular purpura Vascular
 resistance pulmonary increased Vascular resistance systemic
 Vasculitis Vasoconstriction Vasodilation procedure Venous
 thrombosis Ventricular arrhythmia Ventricular extrasystoles
 Ventricular failure Ventricular fibrillation Ventricular
 flutter Ventricular tachycardia Vertigo Viral diarrhoea
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vomiting Vulvovaginal candidiasis
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cell disorder White blood cells urine positive Withdrawal
 syndrome Xerophthalmia Xerosis Yawning

Calcium-activated potassium channel subunit beta-3 - Group: Channel
 Treated with:
 miconazole: approved small molecule (33 associated side effects)
 For topical application in the treatment of tinea pedis
 (athlete’s foot), tinea cruris, and tinea corporis caused
 by <i>Trichophyton rubrum</i>, <i>Trichophyton
 mentagrophytes</i>, and <i>Epidermophyton

floccosum</i>;, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.

33 known side effects mediated through drugs targeting this protein:
Abdominal pain Anaphylactic shock Anaphylactoid reaction
Angioedema Breast disorder Burning sensation Cardiac disorder
Dermatitis Dermatitis contact Erythema Gastrointestinal
pain Genital burning sensation Genital discharge Headache
Immune system disorder Muscle spasms Nausea Nervous
system disorder Oedema Pain Pelvic pain Pruritus genital Rash
Respiratory disorder Respiratory tract infection Upper
respiratory tract infection Urethral disorder Urinary tract disorder
Urinary tract infection Urticaria Vaginal discharge
Vulvovaginal discomfort Vulvovaginal erythema

Secretin receptor - Group: Receptor

Treated with:

secretin: approved biotech (0 associated side effects) For
diagnosis of pancreatic exocrine dysfunction and gastrinoma

known side effects mediated through drugs targeting this protein:

Oxysterols receptor LXR-alpha - Group: Receptor

Treated with:

n-(2,2,2-trifluoroethyl)-n-{4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl}benzenesulfonamide: experimental
small molecule (0 associated side effects)
n-(tert-butyl)-3,5-dimethyl-n'-[(5-methyl-2,3-dihydro-1,4-benzodioxin-6-yl)carbonyl]benzohydrazide: experimental small
molecule (0 associated side effects)
1-benzyl-3-(4-methoxyphenylamino)-4-phenylpyrrole-2,5-dione:
experimental small molecule (0 associated side effects)
(2e,4e)-11-methoxy-3,7,11-trimethyldodeca-2,4-dienoic acid:
experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Small conductance calcium-activated potassium channel protein 1 -
Group: Channel

Treated with:

miconazole: approved small molecule (33 associated side effects)
For topical application in the treatment of tinea pedis
(athlete’s foot), tinea cruris, and tinea corporis caused
by <i>Trichophyton rubrum</i>, <i>Trichophyton
mentagrophytes</i>, and <i>Epidermophyton
floccosum</i>;, in the treatment of cutaneous candidiasis
(moniliasis), and in the treatment of tinea versicolor.

33 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Anaphylactoid reaction
 Angioedema Breast disorder Burning sensation Cardiac disorder
 Dermatitis Dermatitis contact Erythema Gastrointestinal
 pain Genital burning sensation Genital discharge Headache
 Immune system disorder Muscle spasms Nausea Nervous
 system disorder Oedema Pain Pelvic pain Pruritus genital Rash
 Respiratory disorder Respiratory tract infection Upper
 respiratory tract infection Urethral disorder Urinary tract disorder
 Urinary tract infection Urticaria Vaginal discharge
 Vulvovaginal discomfort Vulvovaginal erythema

Low affinity immunoglobulin gamma Fc region receptor II-c - Group:
 Receptor

Treated with:

cetuximab: approved biotech (0 associated side effects) For
 treatment of EGFR-expressing metastatic colorectal cancer in
 patients who are refractory to other irinotecan-based chemotherapy
 regimens. Cetuximab is also indicated for treatment of squamous cell
 carcinoma of the head and neck in conjunction with radiation
 therapy.

etanercept: approved biotech (0 associated side effects) For
 treatment of severe active rheumatoid arthritis in adults, severe
 juvenile idiopathic arthritis, ankylosing spondylitis, and severe
 plaque psoriasis.

intravenous immunoglobulin: approved biotech (0 associated
 side effects) IVIg is used in the treatment of
 immunodeficiencies, as well as autoimmune and inflammatory
 disorders. These indications includes idiopathic thrombocytopenic
 purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic
 lymphocytic leukemia, bone marrow transplant complications,
 Guillain-Barré syndrome, chronic inflammatory demyelinating
 polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis,
 myasthenia gravis, Wiskott-Aldrich syndrome and inflammatory
 skin diseases.

adalimumab: approved biotech (0 associated side effects) For
 treatment of rheumatoid arthritis, psoriatic arthritis, ankylosing
 spondylitis, and Crohn's disease.

abciximab: approved biotech (0 associated side effects)

gemtuzumab ozogamicin: approved biotech (0 associated side
 effects) For treatment of CD33-positive acute myeloid leukemia in
 patients 60 and over who are not candidates for other chemotherapy.

trastuzumab: approved biotech (0 associated side effects)

For treatment of early stage HER2-positive breast cancer, or
 metastatic breast cancer that substantially overexpress HER2.

rituximab: approved biotech (0 associated side effects) For
 treatment of CD20-positive non-Hodgkins lymphoma, chronic
 lymphocytic leukemia, and rheumatoid arthritis.

basiliximab: approved biotech (0 associated side effects)

For prophylactic treatment of kidney transplant rejection

muromonab: approved biotech (0 associated side effects) For
 treatment of organ transplant recipients, prevention of organ
 rejection

ibrutinomab: approved biotech (0 associated side effects)

For treatment of non-Hodgkin's lymphoma

tositumomab: approved biotech (0 associated side effects)
 For treatment of non-Hodgkin's lymphoma (CD20 positive, follicular)

alemtuzumab: approved biotech (0 associated side effects)
 Alemtuzumab (Campath) is a monoclonal antibody therapy used for treatment of B-cell chronic lymphocytic leukemia.

alefacept: approved biotech (0 associated side effects) As an immunosuppressive drug, Alefacept can be used for treatment of moderate to severe chronic plaque psoriasis

efalizumab: approved biotech (0 associated side effects) For the treatment of adult patients with moderate to severe chronic plaque psoriasis, who are candidates for phototherapy or systemic therapy.

natalizumab: approved biotech (0 associated side effects)
 For treatment of multiple sclerosis.

palivizumab: approved biotech (0 associated side effects)
 For prophylaxis of respiratory diseases caused by respiratory syncytial virus.

daclizumab: approved biotech (0 associated side effects)
 Zenapax is a humanized monoclonal antibody used for prevention of renal transplant rejection

bevacizumab: approved biotech (0 associated side effects)
 As part of combination therapy for metastatic colorectal cancer and HER2-negative metastatic breast cancer.

known side effects mediated through drugs targeting this protein:

Excitatory amino acid transporter 4 - Group: Transporter
 Treated with:
 l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Receptor activity-modifying protein 3 - Group: Other
 Treated with:
 pramlintide: approved biotech (17 associated side effects)
 For the treatment of type 1 and type 2 diabetes mellitus as an adjunct to preprandial insulin therapy in patients without adequate glycemic control of insulin therapy.

17 known side effects mediated through drugs targeting this protein:
 Abdominal pain Arthralgia Asthenia Cough Decreased appetite
 Dizziness Fatigue Gastrointestinal pain Headache
 Hypersensitivity Hypoglycaemia Injection site reaction
 Musculoskeletal discomfort Nausea Pain Pharyngitis
 Vomiting

Mannose-6-phosphate receptor-binding protein 1 - Group: Other

Treated with:

idursulfase: approved biotech (0 associated side effects)

For the treatment of Hunter syndrome in adults and children ages 5 and older.

galsulfase: approved biotech (0 associated side effects) For the treatment of adults and children with Mucopolysaccharidosis VI.

known side effects mediated through drugs targeting this protein:

Monocarboxylate transporter 10 - Group: Transporter

Treated with:

l-histidine: approved, nutraceutical small molecule (0 associated side effects) The actions of supplemental L-histidine are entirely unclear. It may have some immunomodulatory as well as antioxidant activity. L-histidine may be indicated for use in some with rheumatoid arthritis. It is not indicated for treatment of anemia or uremia or for lowering serum cholesterol.

pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

l-phenylalanine: approved, nutraceutical small molecule (0 associated side effects) L-phenylalanine may be helpful in some with depression. It may also be useful in the treatment of vitiligo. There is some evidence that L-phenylalanine may exacerbate tardive dyskinesia in some schizophrenic patients and in some who have used neuroleptic drugs.

l-lysine: approved, nutraceutical small molecule (0 associated side effects) Supplemental L-lysine has putative anti-herpes simplex virus activity. There is preliminary research suggesting that it may have some anti-osteoporotic activity.

l-arginine: approved, nutraceutical small molecule (20 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

l-aspartic acid: approved, nutraceutical small molecule (0 associated side effects) There is no support for the claim that aspartates are exercise performance enhancers, i.e. ergogenic aids.

l-glutamine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

l-serine: approved, nutraceutical small molecule (0 associated side effects) Used as a natural moisturizing agent in some cosmetics and skin care products.

l-methionine: approved, nutraceutical small molecule (0 associated side effects) Used for protein synthesis including the formation of SAME, L-homocysteine, L-cysteine, taurine, and sulfate.

l-tyrosine: approved, nutraceutical small molecule (0 associated side effects) Tyrosine is claimed to act as an effective antidepressant, however results are mixed. Tyrosine has also been

claimed to reduce stress and combat narcolepsy and chronic fatigue, however these claims have been refuted by some studies.

l-cystine: approved, nutraceutical small molecule (0 associated side effects) It has been claimed that L-cysteine has anti-inflammatory properties, that it can protect against various toxins, and that it might be helpful in osteoarthritis and rheumatoid arthritis. More research will have to be done before L-cysteine can be indicated for any of these conditions. Research to date has mostly been in animal models.

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

l-leucine: approved, nutraceutical small molecule (0 associated side effects) Indicated to assist in the prevention of the breakdown of muscle proteins that sometimes occur after trauma or severe stress.

l-tryptophan: approved, nutraceutical small molecule (11 associated side effects) Tryptophan may be useful in increasing serotonin production, promoting healthy sleep, managing depression by enhancing mental and emotional well-being, managing pain tolerance, and managing weight.

l-cysteine: approved, nutraceutical small molecule (0 associated side effects) For the prevention of liver damage and kidney damage associated with overdoses of acetaminophen

l-threonine: approved, nutraceutical small molecule (0 associated side effects) L-Threonine makes up collagen, elastin, and enamel protein. It aids proper fat metabolism in the liver, helps the digestive and intestinal tracts function more smoothly, and assists in metabolism and assimilation.

l-alanine: approved, nutraceutical small molecule (0 associated side effects) Used for protein synthesis.

l-valine: approved, nutraceutical small molecule (0 associated side effects) Promotes mental vigor, muscle coordination, and calm emotions. May also be of use in a minority of patients with hepatic encephalopathy and in some with phenylketonuria.

l-isoleucine: approved, nutraceutical small molecule (0 associated side effects) The branched-chain amino acids may have antihepatic encephalopathy activity in some. They may also have anticatabolic and antitardive dyskinesia activity.

l-proline: approved, nutraceutical small molecule (0 associated side effects) L-Proline is extremely important for the proper functioning of joints and tendons and also helps maintain and strengthen heart muscles.

l-asparagine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

liothyronine: approved small molecule (0 associated side effects) Used as replacement or supplemental therapy in patients

with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

levodopa: approved small molecule (0 associated side effects)

For the treatment of idiopathic Parkinson's disease (Paralysis Agitans), postencephalitic parkinsonism, symptomatic parkinsonism which may follow injury to the nervous system by carbon monoxide intoxication, and manganese intoxication.

liotrix: approved small molecule (0 associated side effects)

May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

d-leucine: experimental small molecule (0 associated side effects)

d-alanine: experimental small molecule (0 associated side effects)

d-phenylalanine: experimental small molecule (0 associated side effects)

alpha-aminoisobutyric acid: experimental small molecule (0 associated side effects)

beta-alanine: experimental small molecule (0 associated side effects)

d-tryptophan: experimental small molecule (0 associated side effects)

d-tyrosine: experimental small molecule (0 associated side effects)

d-serine: experimental small molecule (0 associated side effects)

lactic acid: experimental small molecule (0 associated side effects)

droxidopa: approved small molecule (0 associated side effects)

For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

60 known side effects mediated through drugs targeting this protein:

Acidosis	Agitation	Alopecia	Anaphylactic shock	Angina
pectoris	Back pain	Blindness	Blindness transient	Chills
	Coma	Convulsion	Cyanosis	Decreased appetite
				Dehydration
	Dermatitis	Diarrhoea	Disinhibition	Dizziness
				Dry mouth
	Electrolyte imbalance	Encephalopathy	Extravasation	Fluid
overload	Flushing	Haematuria	Headache	Hyperammonaemia
	Hyperkinesia	Hypersensitivity	Hypoaesthesia	
	Hyponatraemia	Hypotension	Lung disorder	Nausea
	Necrosis	Oedema	Pain	Platelet count decreased
	Polyuria	Psoriasis	Pulmonary congestion	Rash
macular	Respiratory tract congestion	Rhinitis	Salivary	

hypersecretion Sensory loss Skin exfoliation Skin necrosis
Somnolence Surgery Swelling Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Alpha-2B adrenergic receptor - Group: Receptor

Treated with:

bethanidine: approved small molecule (0 associated side effects) For the treatment of hypertension.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

etomidate: approved small molecule (27 associated side effects) Used in the induction of general anesthesia.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

brimonidine: approved small molecule (109 associated side effects) For the lowering of intraocular pressure in patients with open-angle glaucoma or ocular hypertension.

clonidine: approved small molecule (161 associated side effects) May be used as an adjunct in the treatment of hypertension, as an epidural infusion as an adjunct treatment in the management of severe cancer pain that is not relieved by opiate analgesics alone, for differential diagnosis of pheochromocytoma in hypertensive patients, prophylaxis of vascular migraine headaches, treatment of severe dysmenorrhea, management of vasomotor symptoms associated with menopause, rapid detoxification in the management of opiate withdrawal, treatment of alcohol withdrawal used in conjunction with benzodiazepines, management of nicotine dependence, topical use to reduce intraocular pressure in the treatment of open-

angle and secondary glaucoma and hemorrhagic glaucoma associated with hypertension, and in the treatment of attention-deficit hyperactivity disorder (ADHD).

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

ergotamine: approved small molecule (15 associated side effects)
For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

tizanidine: approved small molecule (230 associated side effects)
For the management of increased muscle tone associated with spasticity

apomorphine: approved small molecule (45 associated side effects)
For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

trimipramine: approved small molecule (0 associated side effects)
For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects)
For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

fenoldopam: approved small molecule (51 associated side effects)
For the in-hospital, short-term (up to 48 hours) management of severe hypertension when rapid, but quickly reversible, emergency reduction of blood pressure is clinically indicated, including malignant hypertension with deteriorating end-organ function.

phenoxybenzamine: approved small molecule (9 associated side effects)
For the treatment of pheochromocytoma (malignant), benign prostatic hypertrophy and malignant essential hypertension.

doxepin: approved small molecule (210 associated side effects)
Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

pergolide: approved, withdrawn small molecule (354 associated side effects)
Indicated as adjunctive treatment to

levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects)
For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy is special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

ephedra: approved,withdrawn,nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

yohimbine: approved small molecule (0 associated side effects) Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

methamphetamine: illicit,approved small molecule (30 associated side effects) For the treatment of Attention Deficit Disorder with Hyperactivity (ADHD) and exogenous obesity.

droxidopa: approved small molecule (0 associated side effects) For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

xylometazoline: approved small molecule (0 associated side effects) It is used for treating nasal congestion and minor inflammation due to allergies or colds.

1313 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Adjustment disorder Adrenal insufficiency Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Analgesic therapy Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antisocial behaviour Antisocial personality disorder Anxiety Aortic

dissection Apathy Aphasia Aphthous stomatitis Apnoea
 Appendicitis Application site reaction Apraxia
 Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arterial occlusive disease Arterial stenosis Arteriosclerosis
 Arteritis Arthralgia Arthritis Arthropathy Ascites
 Asocial behaviour Aspartate aminotransferase increased
 Asphyxia Aspiration Asthenia Asthma Ataxia
 Atelectasis Atrial fibrillation Atrial flutter Atrial
 septal defect Atrioventricular block first degree
 Atrioventricular block second degree Atrophy Aura
 Automatism Autonomic nervous system imbalance Azotaemia Back
 pain Bacterial infection Balance disorder Balanoposthitis Basal
 cell carcinoma Basophilia Benign intracranial hypertension
 Benign neoplasm Benign neoplasm of skin Benign prostatic
 hyperplasia Biliary colic Binge eating Bladder cancer
 Bladder disorder Bladder pain Blepharitis Blepharospasm
 Blindness Blindness transient Blister Blood alkaline
 phosphatase increased Blood amylase increased Blood
 antidiuretic hormone abnormal Blood bilirubin increased Blood
 cholesterol increased Blood creatine phosphokinase increased Blood
 creatinine increased Blood electrolytes abnormal Blood glucose
 decreased Blood glucose increased Blood insulin increased
 Blood iron decreased Blood lactate dehydrogenase increased
 Blood phosphorus increased Blood potassium decreased Blood
 potassium increased Blood pressure abnormal Blood pressure
 diastolic decreased Blood pressure fluctuation Blood pressure
 increased Blood pressure systolic decreased Blood prolactin
 increased Blood testosterone decreased Blood triglycerides
 increased Blood triglycerides normal Blood urea increased Blood
 uric acid increased Blood urine Blood urine present Blunted
 affect Body temperature decreased Body temperature increased
 Bone disorder Bone pain Bone sarcoma Bradycardia
 Bradykinesia Bradyphrenia Brain neoplasm Brain
 neoplasm benign Brain oedema Breast cancer Breast cyst
 Breast discharge Breast discomfort Breast disorder Breast
 disorder female Breast disorder male Breast engorgement
 Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breast tenderness Breath odour
 Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma

Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic
 Cholelithiasis Cholestasis Chorea Choreoathetosis
 Chromaturia Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Coagulopathy Coccydynia
 Cognitive disorder Cogwheel rigidity Cold sweat Colitis
 Colitis ulcerative Colon cancer Colonic pseudo-
 obstruction Colorectal cancer Coma Completed suicide Compulsions
 Condition aggravated Confusional state Congenital anomaly
 Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival follicles
 Conjunctival haemorrhage Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis Conjunctivitis
 allergic Connective tissue disorder Constipation Convulsion
 Coombs test positive Coordination abnormal Corneal erosion
 Corneal lesion Corneal staining Coronary artery disease
 Coronary artery occlusion Costochondritis Cough Crocodile
 tears syndrome Crying Cyanosis Cystitis Cystitis
 noninfective Cytolytic hepatitis Dandruff Deafness Death
 Decreased appetite Decubitus ulcer Deep vein thrombosis
 Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dementia with Lewy bodies Dental caries
 Dependence Depersonalisation Depressed level of consciousness
 Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Device related
 infection Diabetes mellitus Diabetic coma Diabetic
 hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
 ketoacidosis Diaphragmatic hernia Diarrhoea Diplopia
 Discomfort Disinhibition Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Dizziness exertional Dizziness postural
 Drooling Drug abuse Drug dependence Drug eruption Drug
 hypersensitivity Drug ineffective Drug interaction Drug level
 increased Drug withdrawal syndrome Drug withdrawal syndrome
 neonatal Dry eye Dry mouth Dry skin Dry throat Duodenal
 ulcer Duodenal ulcer haemorrhage Duodenitis Dysarthria Dysentery
 Dysgeusia Dysgraphia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphemia Dysphonia Dysphoria Dyspnoea
 Dyspnoea exertional Dystonia Dysuria Ear disorder
 Ear infection Ear pain Ecchymosis Eclampsia Eczema
 Effusion Ejaculation delayed Ejaculation disorder
 Ejaculation failure Elastosis perforans Elderly
 Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Electrocardiogram ST segment depression Electrocardiogram
 ST segment elevation Electrocardiogram T wave inversion
 Electrocardiogram abnormal Electrocardiogram change
 Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional disorder Emotional
 distress Emphysema Encephalopathy Endocrine disorder
 Endometrial cancer Endometrial neoplasm Energy increased
 Enteritis Enuresis Enzyme abnormality Eosinophil count
 increased Eosinophilia Epicondylitis Epididymitis

Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythema of eyelid
 Erythromelalgia Euphoric mood Exfoliative rash Exostosis
 Extradural abscess Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye discharge Eye
 disorder Eye haemorrhage Eye infection Eye inflammation Eye
 irritation Eye movement disorder Eye pain Eye pruritus Eye
 swelling Eyelid disorder Eyelid function disorder Eyelid
 oedema Eyelid ptosis Eyelids pruritus Face oedema Facial pain
 Facial paresis Faecal incontinence Faecalith Faecaloma
 Faeces discoloured Faeces hard Fasciitis Fasting
 Fatigue Fear Feeling abnormal Feeling cold Feeling hot
 Feeling jittery Female sexual dysfunction Fibroadenoma of
 breast Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing
 Foetor hepaticus Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gallbladder cancer Gallbladder disorder
 Gamma-glutamyltransferase increased Gangrene Gastric
 cancer Gastric disorder Gastric haemorrhage Gastric pH
 decreased Gastric polyps Gastric ulcer Gastric ulcer
 haemorrhage Gastritis Gastritis haemorrhagic Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrointestinal tract
 irritation Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Genital discharge Gestational
 hypertension Gingival bleeding Gingival infection Gingival
 pain Gingival recession Gingivitis Glaucoma Glossitis
 Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesi Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemoglobinuria
 Haemolysis Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhoids Haemothorax Hallucination Hallucination,
 auditory Hallucination, visual Hallucinations, mixed Hangover
 Head discomfort Head titubation Headache Hearing impaired
 Heart disease congenital Heart rate irregular Hemianopia
 Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic fibrosis Hepatic function
 abnormal Hepatic necrosis Hepatic neoplasm malignant Hepatic
 steatosis Hepatitis Hepatitis cholestatic Hepatitis fulminant
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hereditary disorder Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hydrocephalus Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism

Hyperphagia Hyperphosphataemia Hyperplasia
Hyperprolactinaemia Hyperpyrexia Hyperreflexia
Hypersensitivity Hypersexuality Hypersomnia Hypertension
Hypertensive crisis Hyperthermia Hyperthyroidism
Hypertonia Hypertonic bladder Hypertrichosis
Hypertriglyceridaemia Hypertrophy Hyperuricaemia
Hyperuricosuria Hyperventilation Hypoaesthesia
Hypoaesthesia oral Hypocalcaemia Hypochloraemia
Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
Hypogonadism Hypohidrosis Hypokalaemia Hypokinesia
Hypomagnesaemia Hypomania Hypomenorrhoea Hyponatraemia
Hypophagia Hypoproteinaemia Hyporeflexia Hypotension
Hypothermia Hypothyroidism Hypotonia Hypoventilation
Hypovitaminosis Hypovolaemia Hypoxia Idiopathic
thrombocytopenic purpura Ileus Ileus paralytic Ill-defined
disorder Illusion Immune system disorder Impaired healing
Inappropriate antidiuretic hormone secretion Incontinence
Increased appetite Induration Infarction Infected cyst
Infection Infestation Inflammation Influenza Influenza
like illness Inguinal hernia Initial insomnia Injection site
mass Injection site pain Injection site reaction Inner ear
disorder Insomnia Intention tremor Intentional self-injury
Intermittent claudication Interstitial lung disease
Intervertebral disc degeneration Intervertebral disc disorder
Intervertebral disc protrusion Intervertebral discitis
Intestinal functional disorder Intestinal obstruction
Intestinal perforation Intracranial pressure increased
Iritis Iron deficiency Iron deficiency anaemia
Irritability Irritable bowel syndrome Ischaemia
Ischaemic hepatitis Ischaemic stroke Jaundice Jaundice
cholestatic Joint contracture Joint effusion Joint range of motion
decreased Joint stiffness Joint swelling Judgement impaired
Keratitis Keratoconjunctivitis sicca Keratopathy
Ketoacidosis Ketosis Laboratory test abnormal
Lacrimal disorder Lacrimation decreased Lacrimation increased
Lactic acidosis Lactose intolerance Laryngeal cancer
Laryngeal disorder Laryngeal neoplasm Laryngeal oedema
Laryngitis Laryngospasm Left ventricular failure
Leiomyoma Lens disorder Lenticular opacities Lenticular
pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
Leukopenia Leukoplakia oral Libido decreased Libido increased
Lichenoid keratosis Lip and/or oral cavity cancer Lip
blister Lip dry Lip swelling Lipoma Livedo
reticularis Liver disorder Liver function test abnormal Liver
injury Lividity Lobar pneumonia Local reaction Localised
infection Localised oedema Logorrhoea Loss of consciousness Loss
of libido Lower respiratory tract infection Lung adenocarcinoma
stage I Lung cancer metastatic Lung disorder Lung infiltration
Lung neoplasm malignant Lymphadenitis Lymphadenopathy
Lymphatic disorder Lymphocytic leukaemia Lymphocytosis
Lymphoedema Lymphoma Lymphopenia Macular degeneration
Macule Maculopathy Major depression Malaise Male sexual
dysfunction Malignant melanoma Mania Masked facies Mastitis
Mediastinal disorder Melaena Melanocytic naevus
Memory impairment Meningitis Menopausal symptoms Menopause

Menorrhagia Menstrual disorder Menstruation delayed
Menstruation irregular Mental disability Mental disorder
Mental retardation Mental status changes Metabolic
alkalosis Metastasis Metastatic neoplasm Metrorrhagia
Micturition disorder Micturition urgency Middle ear
disorder Middle ear effusion Middle insomnia Migraine with
aura Migraine without aura Miosis Mitral valve incompetence
Mobility decreased Monarthrititis Monocytosis Mood swings
Motion sickness Mouth ulceration Movement disorder Multiple
hereditary exostosis Multiple myeloma Muscle atrophy Muscle
contractions involuntary Muscle contracture Muscle enzyme
increased Muscle relaxant therapy Muscle rigidity Muscle
spasms Muscle tightness Muscle twitching Muscular weakness
Musculoskeletal chest pain Musculoskeletal discomfort
Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenic syndrome
Mydriasis Myelitis Myocardial infarction Myocardial
ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
Nail disorder Nail infection Narcolepsy Nasal congestion
Nasal disorder Nasal dryness Nasal oedema Nasal
polyps Nasopharyngitis Nausea Neck pain Necrosis
Necrosis ischaemic Neoplasm malignant Neoplasm prostate
Neoplasm recurrence Neoplasm skin Nephritis
Nephrolithiasis Nephrotic syndrome Nerve root lesion
Nervous system disorder Nervousness Neuralgia Neuritis
Neurodermatitis Neurogenic bladder Neuroleptic malignant
syndrome Neurological symptom Neuroma Neuropathy peripheral
Neurosis Neutropenia Neutrophil count decreased Neutrophil
count increased Night sweats Nightmare Nocturia Nodal
arrhythmia Nodule Normochromic normocytic anaemia Nuchal
rigidity Nystagmus Obesity Obsessive thoughts Obstruction
Obstructive airways disorder Ocular hyperaemia Oculogyric crisis
Oedema Oedema peripheral Oesophageal carcinoma Oesophageal
disorder Oesophageal spasm Oesophageal stenosis Oesophageal ulcer
Oesophagitis Oligomenorrhoea Oliguria Onychomycosis
Opisthotonus Optic atrophy Optic neuritis Oral
candidiasis Oral neoplasm benign Oral pain Orchitis noninfective
Oropharyngeal discomfort Oropharyngeal pain
Oropharyngeal spasm Orthostatic hypotension
Osteoarthritis Osteoarthropathy Osteodystrophy
Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
Otitis externa Otitis media Otitis media acute
Otitis media chronic Ovarian cancer Ovarian cyst Pain
Pain in extremity Pain in jaw Pallor Palpitations
Pancreatitis acute Pancytopenia Panic attack Panic
disorder Panic disorder with agoraphobia Panic reaction
Papilloma Papule Paraesthesia oral Paralysis Paranoia
Parasomnia Paresis Parkinsonian gait Parkinsonism
Paronychia Parosmia Parotitis Pathological fracture
Pathological gambling Pelvic pain Penis disorder Peptic
ulcer Pericardial effusion Pericarditis constrictive Perineal
pain Periodontitis Periorbital oedema Peripheral coldness
Peripheral ischaemia Peripheral vascular disorder Peritoneal
adhesions Personality change Personality disorder Petechiae
Pharyngeal disorder Pharyngeal erythema Pharyngitis

Phlebitis Phlebitis superficial Phobia Phonological
 disorder Photophobia Photopsia Photosensitivity allergic reaction
 Photosensitivity reaction Pigmentation disorder Pituitary
 tumour benign Plasmacytoma Platelet count decreased
 Pleural disorder Pleural effusion Pleural fibrosis Pleurisy
 Pneumonia Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polyarteritis nodosa
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Postural orthostatic tachycardia syndrome Posture
 abnormal Pre-eclampsia Precocious puberty Premature
 ejaculation Premenstrual syndrome Presyncope Priapism Procedural
 nausea Proctalgia Productive cough Prolactinoma Prostate
 cancer Prostatic adenoma Prostatic disorder Prostatitis
 Protein urine present Proteinuria Protrusion tongue Prurigo
 Pruritus Pruritus generalised Pruritus genital
 Pseudolymphoma Psoriasis Psychiatric symptom Psychomotor
 retardation Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary hypertension Pulmonary oedema
 Pulse absent Punctate keratitis Purpura
 Pyelonephritis Pyoderma Pyuria Rales Rash erythematous
 Rash generalised Rash macular Rash maculo-papular Rash
 papular Rash pustular Rash vesicular Raynaud's phenomenon
 Rectal cancer Rectal haemorrhage Rectal tenesmus Red
 blood cell count decreased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory acidosis Respiratory alkalosis Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection Respiratory tract infection viral
 Restless legs syndrome Retching Retinal artery occlusion
 Retinal detachment Retinal disorder Retinal haemorrhage
 Retinal vascular disorder Retinitis pigmentosa Retrograde
 ejaculation Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
 Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
 Saliva altered Salivary duct obstruction Salivary gland
 disorder Salivary gland enlargement Salivary gland pain
 Salivary hypersecretion Salpingitis Sarcoidosis Sarcoma
 Scab Schizoaffective disorder Schizophrenia
 Schizophreniform disorder Sciatica Scotoma Seasonal
 allergy Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of foreign body Sensation of heaviness
 Sensitisation Sensory disturbance Sensory loss
 Sepsis Septic shock Severe acute respiratory syndrome
 Sexual dysfunction Shock Sialoadenitis Sicca syndrome
 Sick sinus syndrome Sinus arrhythmia Sinus bradycardia Sinus
 congestion Sinus disorder Sinus headache Sinus tachycardia
 Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma

Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep paralysis Sleep talking Sleep terror
 Sluggishness Small intestinal obstruction Sneezing
 Snoring Social avoidant behaviour Somnambulism
 Somnolence Speech disorder Spinal osteoarthritis Spine
 malformation Splenomegaly Spondylitis Squamous cell
 carcinoma Status epilepticus Stevens-Johnson syndrome
 Sticky skin Stomatitis Stress Stridor Stupor
 Subarachnoid haemorrhage Subcutaneous abscess
 Subcutaneous nodule Subdural haematoma Sudden death
 Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Synovitis Systemic
 lupus erythematosus Tachycardia Tachypnoea Tardive dyskinesia
 Tearfulness Tenderness Tendonitis Tenosynovitis Tension
 Tension headache Terminal insomnia Testicular disorder
 Testicular pain Testicular swelling Tetany Therapeutic
 response decreased Therapeutic response increased Thinking
 abnormal Thirst Thought blocking Throat irritation Throat
 tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thrombotic
 thrombocytopenic purpura Thyroid adenoma Thyroid cancer
 Thyroid neoplasm Thyroiditis Tic Tinnitus Tongue
 discolouration Tongue disorder Tongue dry Tongue oedema
 Tongue paralysis Tongue spasm Tongue ulceration Tonsillar
 hypertrophy Tonsillitis Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Toothache Torsade de pointes
 Torticollis Toxic epidermal necrolysis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
 hernia Unevaluable event Unintended pregnancy Unresponsive to
 stimuli Upper airway obstruction Upper respiratory tract
 infection Upper-airway cough syndrome Urethral disorder Urethral
 pain Urethritis Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterine neoplasm Uterovaginal prolapse
 VIIth nerve paralysis Vaginal discharge Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Varicose vein
 Vascular purpura Vasculitis Vasoconstriction Vasodilation
 procedure Vasospasm Vein disorder Vein pain Venous thrombosis
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular hypertrophy Ventricular
 tachycardia Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment
 Vitreous disorder Vitreous floaters Vocal cord paralysis
 Vomiting Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood

cells urine positive Withdrawal bleed Withdrawal hypertension
Withdrawal syndrome Wound infection Xerophthalmia
Xerosis Yawning

Outer membrane protein tolC - Group: Transporter

Treated with:

cobalt hexammine ion: experimental small molecule (0
associated side effects)

known side effects mediated through drugs targeting this protein:

Neuronal acetylcholine receptor subunit alpha-4 - Group: Channel

Treated with:

nicotine: approved small molecule (98 associated side effects)

For the relief of nicotine withdrawal symptoms and as an aid
to smoking cessation.

butabarbital: illicit,approved small molecule (0 associated
side effects) For short-term treatment of insomnia and anxiety
disorders

butalbital:illicit,approved small molecule (0 associated side
effects) Used in combination with acetaminophen or aspirin and
caffeine for its sedative and relaxant effects in the treatment of
tension headaches, migraines, and pain.

talbutal: illicit,approved small molecule (0 associated side
effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side
effects) For the short-term treatment of insomnia.

secobarbital: approved small molecule (38 associated side
effects) For the Short-term treatment of intractable insomnia for
patients habituated to barbiturates

metharbital: approved small molecule (0 associated side
effects) Metharbital is used for the treatment of epilepsy.

thiopental:approved small molecule (0 associated side effects)

For use as the sole anesthetic agent for brief (15 minute)
procedures, for induction of anesthesia prior to administration of
other anesthetic agents, to supplement regional anesthesia, to
provide hypnosis during balanced anesthesia with other agents for
analgesia or muscle relaxation, for the control of convulsive states
during or following inhalation anesthesia or local anesthesia, in
neurosurgical patients with increased intracranial pressure, and for
narcoanalysis and narcosynthesis in psychiatric disorders.

galantamine: approved small molecule (160 associated side
effects) For the treatment of mild to moderate dementia of the
Alzheimer's type. Has also been investigated in patients with mild
cognitive impairment who did not meet the diagnostic criteria for
Alzheimer's disease.

primidone: approved small molecule (16 associated side effects)

For the treatment of epilepsy

methylphenobarbital: approved small molecule (37 associated
side effects) For the relief of anxiety, tension, and
apprehension, also used as an anticonvulsant for the treatment of
epilepsy.

varenicline: approved small molecule (285 associated side effects) For use as an aid in smoking cessation.
 amobarbital: illicit,approved small molecule (0 associated side effects)
 aprobarbital: illicit,approved small molecule (0 associated side effects)
 butethal: illicit,approved small molecule (0 associated side effects) For the treatment of insomnia.
 heptabarbital: approved small molecule (0 associated side effects) Used mainly for sedation and hypnosis.
 hexobarbital: approved small molecule (0 associated side effects) For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.
 barbituric acid derivative: illicit,experimental small molecule (0 associated side effects)

392 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Abnormal faeces Acne Acute coronary syndrome Affect lability Aggression Agitation Agranulocytosis Amnesia Anaemia Anaemia megaloblastic Anger Angina pectoris Angioedema Angiopathy Anxiety Aortic dissectionApathy Aphasia Aphthous stomatitis Aplasia Apnoea Apraxia Arrhythmia Arrhythmia supraventricular Arterial disorder Arthralgia Arthritis Asthenia Asthma Ataxia Atrial fibrillation Atrioventricular block Back pain Balance disorder Bladder disorder Bladder pain Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood pressure increased Blood urea increased Body temperature increased Bone pain BradycardiaBradyphrenia Breast disorder Bronchitis Bronchospasm Bundle branch block Cardiac disorder Cardiac failure Cardiac fibrillation Cardiac flutter Cardiovascular disorder Cataract Cataract subcapsular Cerebrovascular accident Cerebrovascular disorder Change of bowel habit Chest discomfort Chest pain Chills Chronic obstructive pulmonary disease Circadian rhythm sleep disorder Coagulopathy Completed suicideConfusional stateConjunctivitis Connective tissue disorder Constipation Convulsion Coordination abnormal Cor pulmonale Coronary artery disease Costochondritis Cough Cystitis Cystitis noninfective Cytolytic hepatitis Deafness Death Decreased appetite DehydrationDelirium Delusion Dependence Depressed level of consciousness Depressed mood Depression Dermatitis Dermatitis bullous Dermatitis exfoliative Diabetes mellitusDiarrhoea Diplopia Discomfort Disorientation Dissociation Disturbance in attention Disturbance in sexual arousal Diverticulitis Dizziness Drug abuse Drug dependence Drug hypersensitivity Dry eye Dry mouth Dry skin Dysarthria Dysgeusia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria Dyspnoea Ear pain Eczema Electrocardiogram QT prolonged Electrocardiogram ST segment Electrocardiogram ST segment

depression Electrocardiogram T wave amplitude decreased
Electrocardiogram T wave inversion Electrocardiogram abnormal
Embolism Emotional disorder Endocrine disorder
Enterocolitis Epistaxis Erectile dysfunction Eructation
Erythema Erythema multiforme Euphoric mood
Extrasystoles Eye disorder Eye irritation Eye pain
Fatigue Feeling abnormal Feeling cold Flat affect
Flatulence Flushing Frustration Fungal infection Gallbladder
disorder Gastric disorder Gastric ulcer Gastritis
Gastroenteritis Gastrointestinal disorder Gastrointestinal
haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
Gingival pain Gingivitis Glycosuria Gravitational oedema
Haematemesis Haematochezia Haematuria Haemoglobin
Haemorrhage Hallucination Hangover Headache Hepatic
enzyme increased Hepatitis Hepatobiliary disease Hepatocellular
injury Hiccups Homicidal ideation Hormone level abnormal
Hostility Hot flush Hyperglycaemia Hyperhidrosis
Hyperkalaemia Hyperkinesia Hyperlipidaemia
Hypersensitivity Hypersomnia Hypertension Hypertonia
Hypoaesthesia Hypocalcaemia Hypogeusia Hypoglycaemia
Hypokalaemia Hypokinesia Hypotension Hypoventilation
Hypoxia Ill-defined disorder Immune system disorder
Incontinence Increased appetite Increased bronchial
secretion Infarction Infection Infestation Influenza Influenza
like illness Initial insomnia Injection site reaction
Insomnia Intestinal obstruction Irritability Ischaemia
Joint stiffness Lacrimation increased Lethargy
Leukocytosis Libido decreased Libido increased Liver
disorder Liver function test abnormal Liver injury Loss of
consciousness Lower gastrointestinal haemorrhage Lung disorder
Lymphadenopathy Malaise Mania Mediastinal disorder
Melaena Menopausal symptoms Menorrhagia Menstrual
disorder Mental disability Mental disorder Mental retardation
Middle insomnia Migraine Mood swings Mouth ulceration
Multiple sclerosis Muscle contractions involuntary
Muscle enzyme increased Muscle spasms Musculoskeletal
chest pain Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal pain Musculoskeletal stiffness Myalgia
Mydriasis Myocardial infarction Myocardial ischaemia
Myopia Myositis Nasal congestion Nasal discomfort Nasal
ulcer Nasopharyngitis Nausea Nephrolithiasis Nervous system
disorder Nervousness Neuropathy peripheral Night blindness Night
sweats Nightmare Nocturia Nystagmus Obstruction Obstructive
airways disorder Ocular vascular disorder Oedema Oedema
peripheral Oesophageal disorder Oesophageal perforation
Oesophagitis Oropharyngeal pain Orthostatic
hypotension Osteoarthritis Osteomalacia Osteoporosis Pain
Pain in extremity Pain in jaw Palpitations Pancreatitis
acute Panic reaction Paraesthesia Paralysis Paranoia
Parosmia Peripheral ischaemia Peripheral vascular disorder
Pharyngitis Phobia Photophobia Photosensitivity reaction
Platelet count decreased Pleurisy Pneumonia Pollakiuria
Polydipsia Polyuria Pruritus Psoriasis Psychomotor
skills impaired Psychotic disorder Pulmonary embolism
Pulmonary function test decreased Purpura Rash Rash

generalised Rectal haemorrhage Renal failure Renal failure
 acute Respiratory depression Respiratory disorder Respiratory
 failure Respiratory tract infection Restless legs syndrome
 Rhinitis Rhinorrhoea Salivary hypersecretion Scotoma
 Semen analysis abnormal Sensory disturbance Sensory
 loss Sexual dysfunction Shock Sinus congestion Sinusitis Sleep
 disorder Sneezing Snoring Somnolence Splenomegaly
 Sputum increased Stomatitis Suicidal ideation Suicide attempt
 Supraventricular tachycardia Swelling Syncope Tachycardia
 Tenderness Tension Terminal insomnia Thinking abnormal
 Thirst Throat irritation Thrombocytopenia Thrombocytosis
 Thrombosis Thyroid disorder Tinnitus Tobacco user
 Tongue coated Tooth disorder Toxic epidermal necrolysis
 Transient ischaemic attack Tremor Ulcer Upper respiratory
 tract infection Upper-airway cough syndrome Urethral disorder
 Urethral syndrome Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urticaria VIIIth nerve paralysis Vaginal discharge Vascular
 dementia Vascular purpura Ventricular extrasystoles Ventricular
 tachycardia Vertigo Viral infection Vision blurred Visual
 acuity reduced Visual impairment Vitreous floaters Vomiting
 Weight decreased Weight increased Withdrawal syndrome

Transient receptor potential cation channel subfamily V member 3 -
 Group: Channel

Treated with:

menthol: approved small molecule (0 associated side effects)
 Used to treat occasional minor irritation, pain, sore mouth,
 and sore throat as well as cough associated with a cold or inhaled
 irritants.

known side effects mediated through drugs targeting this protein:

Cystine/glutamate transporter - Group: Transporter

Treated with:

l-cystine: approved, nutraceutical small molecule (0 associated
 side effects) It has been claimed that L-cysteine has anti-
 inflammatory properties, that it can protect against various toxins,
 and that it might be helpful in osteoarthritis and rheumatoid
 arthritis. More research will have to be done before L-cysteine can
 be indicated for any of these conditions. Research to date has
 mostly been in animal models.

l-glutamic acid: approved, nutraceutical small molecule (0
 associated side effects) Considered to be nature's "Brain food"
 by improving mental capacities; helps speed the healing of ulcers;
 gives a "lift" from fatigue; helps control alcoholism, schizophrenia
 and the craving for sugar.

riluzole: approved small molecule (437 associated side
 effects) For the treatment of amyotrophic lateral sclerosis (ALS,
 Lou Gehrig's Disease)

sulfasalazine: approved small molecule (114 associated side effects) For the treatment of Crohn's disease and rheumatoid arthritis as a second-line agent.

485 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
Abdominal pain upper Abnormal dreams Abscess Acidosis
Acute coronary syndrome Acute interstitial pneumonitis
Adverse reaction Affect lability Ageusia Agitation
Agranulocytosis Alanine aminotransferase increased Alopecia
Altered state of consciousness Alveolitis allergic
Alveolitis fibrosing Amblyopia Amenorrhoea Amnesia
Anaemia Anaemia megaloblastic Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angioedema Angiopathy
Anorectal discomfort Anuria Anxiety Aortic dissection
Apathy Aplastic anaemia Apnoea Arterial occlusive
disease Arthralgia Arthritis Arthropathy Aspiration Asthenia
Asthma Ataxia Atrial fibrillation Azoospermia
Azotaemia Back pain Biliary colic Blepharitis Blindness
Blood alkaline phosphatase increased Blood bilirubin
abnormal Blood creatinine increased Blood disorder Blood
lactate dehydrogenase increased Blood potassium decreased Blood
pressure increased Body temperature decreased Body temperature
increased Bone neoplasm Bradycardia Breast abscess Breast
disorder Breast pain Bronchitis Bundle branch block Candidiasis
Cardiac arrest Cardiac disorder Cardiac failure Cardiac
failure congestive Cardiac fibrillation Cardiac murmur
Cardiomyopathy Cataract Cauda equina syndrome Cellulitis
Cerebral artery embolism Cerebral haematoma Cerebral
haemorrhage Cerebral ischaemia Cheilitis Chest pain Chills
Choking Cholecystitis Cholestasis Chromaturia Coma
Completed suicide Condition aggravated Confusional state
Congenital anomaly Congenital central nervous system
anomaly Congenital foot malformation Congestive cardiomyopathy
Connective tissue disorder Constipation Convulsion
Coombs direct test positive Coordination abnormal Cor
pulmonale Cough Crystal urine Crystalluria Cyanosis Cyst
Cytolytic hepatitis Deafness Decreased appetite
Deficiency anaemia Dehydration Delirium Delusion
Dementia Dental caries Depersonalisation Depressed level
of consciousness Depression Dermatitis contact Dermatitis
exfoliative Developmental delay Diabetes insipidus Diabetes
mellitus Diabetic ketoacidosis Diarrhoea Diarrhoea haemorrhagic
Diplopia Discomfort Disease progression Disseminated
intravascular coagulation Disturbance in attention Disturbance
in sexual arousal Dizziness Drug eruption Drug interaction Drug
level increased Dry mouth Dysarthria Dysgeusia Dyspepsia
Dysphagia Dysplasia Dyspnoea Dystonia Dysuria Ear
pain Ecchymosis Eczema Effusion Embolism Encephalopathy
Endocrine disorder Endophthalmitis Enterocolitis
Eosinophilia Eosinophilic myocarditis Eosinophilic
pneumonia Epistaxis Erectile dysfunction Erythema multiforme
Euphoric mood Exomphalos Extrapyrarnidal disorder
Extrasystoles Eye disorder Face oedema Faecal

incontinence Faecalith Faecaloma Fatigue Feeling abnormal
 Flat affect Flatulence Fluid retention Flushing Fungal skin
 infection Furuncle Gait disturbance Gamma-glutamyltransferase
 increased Gastric cancer Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal dysplasia
 Gastrointestinal haemorrhage Gastrointestinal pain Generalised
 oedema Gingival bleeding Glaucoma Glossitis Goitre Gout
 Granuloma skin Haematemesis Haematoma Haematuria
 Haemoglobin Haemolytic anaemia Haemoptysis Haemorrhage
 Hallucination Headache Hearing impaired Hemiplegia
 Hepatic cirrhosis Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatitis B Hepatitis cholestatic Hepatitis
 fulminant Hepatobiliary disease Hepatocellular injury Hereditary
 disorder Hernia Herpes virus infection Herpes zoster
 Hiccups Hormone level abnormal Hostility Hyperacusis
 Hyperamylasaemia Hypercalcaemia Hypercholesterolaemia
 Hyperhidrosis Hyperlipidaemia Hypersensitivity
 Hypertension Hypertonia Hyperventilation Hypoaesthesia
 oral Hypochromic anaemia Hypoglycaemia Hypokalaemia
 Hypokinesia Hyponatraemia Hypoproteinaemia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Idiopathic
 pulmonary fibrosis Ileus Ill-defined disorder Immune system
 disorder Incontinence Increased appetite Infantile genetic
 agranulocytosis Infarction Infection Infestation Inflammation
 Influenza like illness Injection site reaction Insomnia
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intracranial pressure increased Iron
 deficiency Iron deficiency anaemia Ischaemia Jaundice
 Jaundice cholestatic Ketoacidosis Lactic acidosis
 Laryngitis Leiomyoma Lethargy Leukocytosis Leukopenia
 Libido decreased Libido increased Liver function test abnormal
 Liver injury Lobar pneumonia Loss of consciousness Lung
 disorder Lung neoplasm malignant Lymphadenopathy Lymphoma
 Lymphopenia Major depression Malaise Mania Mediastinal
 disorder Melaena Meningitis Mental disability Mental disorder
 Mesenteric occlusion Methaemoglobinaemia Metrorrhagia
 Micturition urgency Migraine Mood swings Mouth ulceration
 Muscle atrophy Muscle relaxant therapy Muscle rigidity
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Musculoskeletal pain Myalgia Myasthenia gravis Myelitis
 Myelitis transverse Myelodysplastic syndrome Myocardial
 infarction Myocardial ischaemia Myocarditis Myoclonus Nasal
 congestion Nausea Necrosis Neoplasm Neoplasm malignant
 Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
 lesion Nervous system disorder Neuralgia Neuritis
 Neuropathy peripheral Neutropenia Neutropenic colitis
 Nocturia Nodule Normochromic normocytic anaemia
 Obstruction Oedema peripheral Oesophageal disorder Oesophageal
 stenosis Oesophagitis Oliguria Oral candidiasis Orthostatic
 hypotension Osteoarthritis Osteonecrosis Osteoporosis Pain
 Pain in extremity Palpitations Pancreatitis acute
 Pancytopenia Panophthalmitis Paraesthesia oral Paralysis
 Paranoia Parapsoriasis Parathyroid disorder Pemphigoid
 Pericarditis Periorbital oedema Peripheral vascular
 disorder Peritonitis Personality disorder Petechiae Phlebitis

Phobia Photophobia Photosensitivity reaction Pityriasis
 lichenoides et varioliformis acuta Platelet count decreased
 Pleural disorder Pleural effusion Pleurisy Pneumonia
 Pneumothorax Pollakiuria Polyarteritis nodosa Polyp
 Polyuria Postmenopausal haemorrhage Priapism Proctalgia
 Proctitis Prostate cancer Prostatic disorder Protein
 urine present Proteinuria Prothrombin time shortened Pruritus
 Pseudomembranous colitis Psoriasis Psychiatric symptom
 Psychotic disorder Pulmonary embolism Pulmonary
 function test decreased Pulmonary oedema Pulmonary toxicity
 Purpura Pyelonephritis Radial nerve palsy
 Radiculopathy Rash Rectal tenesmus Red blood cell count
 decreased Renal failure acute Renal impairment Renal pain
 Respiratory acidosis Respiratory depression Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 moniliasis Rhabdomyolysis Rheumatoid arthritis Rhinitis
 Schizophreniform disorder Scleral hyperaemia Seborrhoeic
 dermatitis Sedation Sensory disturbance Sepsis Serum
 sickness Shock Sinusitis Skin candida Skin discolouration
 Skin disorder Skin exfoliation Skin mass Skin ulcer
 Somnolence Stomatitis Stridor Stupor Subarachnoid
 haemorrhage Subdural haematoma Sudden death Suicide attempt
 Supraventricular tachycardia Syncope Systemic lupus
 erythematosus Tachycardia Talipes Tetany Thinking abnormal
 Thirst Thrombocytopenia Thrombocytopenic purpura
 Thrombosis Thyroid neoplasm Tinnitus Tongue discolouration
 Tooth disorder Tooth impacted Toxic epidermal necrolysis
 Tremor Trismus Ulcer Urethral disorder Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine analysis abnormal Urine
 colour abnormal Urticaria Uterine haemorrhage Uterine leiomyoma
 VIIth nerve paralysis Vascular purpura Vasculitis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Vestibular disorder Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Weight decreased Weight increased White blood cell count
 decreased White blood cell count increased Yawning

Glutamate receptor, ionotropic kainate 5 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
 associated side effects) Considered to be nature's "Brain food"
 by improving mental capacities; helps speed the healing of ulcers;
 gives a "lift" from fatigue; helps control alcoholism, schizophrenia
 and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Interferon-alpha/beta receptor beta chain - Group: Receptor

Treated with:

peginterferon alfa-2a: approved biotech (0 associated side effects) For treatment of hairy cell leukemia, malignant melanoma, and AIDS-related Kaposi's sarcoma.

interferon alfa-n1: approved biotech (0 associated side effects) For treatment of venereal or genital warts caused by the Human Papiloma Virus

interferon alfa-n3: approved biotech (0 associated side effects) For the intralesional treatment of refractory or recurring external condylomata acuminata.

peginterferon alfa-2b: approved biotech (0 associated side effects) For the treatment of chronic hepatitis C in patients not previously treated with interferon alpha who have compensated liver disease and are at least 18 years of age.

interferon alfa-2a, recombinant: approved biotech (0 associated side effects) For the treatment of chronic hepatitis C, hairy cell leukemia, AIDS-related Kaposi's sarcoma, and chronic myelogenous leukemia. Also for the treatment of oral warts arising from HIV infection.

interferon beta-1a: approved biotech (0 associated side effects) For treatment of relapsing/remitting multiple sclerosis, also for condyloma acuminatum

interferon beta-1b: approved biotech (0 associated side effects) Interferon beta-1b is a drug used for the treatment of relapsing/remitting multiple sclerosis. It has been shown to slow the advance of the disease as well as to decrease the frequency of attacks.

interferon alfacon-1: approved biotech (0 associated side effects) For the treatment of hairy cell leukemia, malignant melanoma, and AIDS-related Kaposi's sarcoma

interferon alfa-2b, recombinant: approved biotech (0 associated side effects) For the treatment of hairy cell leukemia, malignant melanoma, and AIDS-related Kaposi's sarcoma.

known side effects mediated through drugs targeting this protein:

Orphan nuclear receptor PXR - Group: Receptor

Treated with:

vitamin e: approved, nutraceutical small molecule (0 associated side effects) Vitamin E, known for its antioxidant activities, is protective against cardiovascular disease and some forms of cancer and has also demonstrated immune-enhancing effects. It may be of limited benefit in some with asthma and rheumatoid arthritis. It may be helpful in some neurological diseases including Alzheimer's, some eye disorders including cataracts, and diabetes and premenstrual syndrome. It may also help protect skin from ultraviolet irradiation although claims that it reverses skin aging, enhances male fertility and exercise performance are poorly supported. It may help relieve some muscle cramps.

erlotinib: approved small molecule (118 associated side effects) For the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of at least one prior chemotherapy regimen. Also for use, in combination with

gemcitabine, as the first-line treatment of patients with locally advanced, unresectable or metastatic pancreatic cancer.

estradiol: approved small molecule (315 associated side effects) For the treatment of urogenital symptoms associated with post-menopausal atrophy of the vagina (such as dryness, burning, pruritus and dyspareunia) and/or the lower urinary tract (urinary urgency and dysuria).

ethinyl estradiol: approved small molecule (0 associated side effects) For treatment of moderate to severe vasomotor symptoms associated with the menopause, female hypogonadism, prostatic carcinoma-palliative therapy of advanced disease, breast cancer, as an oral contraceptive, and as emergency contraceptive.

rifampin: approved small molecule (0 associated side effects) For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

rifaximin: approved small molecule (101 associated side effects) For the treatment of patients (>12 years of age) with travelers' diarrhea caused by noninvasive strains of *Escherichia coli*. Rifaximin is also designated an orphan drug by the Food and Drug Administration for the adjunctive treatment of hepatic encephalopathy to reduce blood ammonia concentrations and decrease severity of neurological manifestations.

hyperforin: nutraceutical small molecule (0 associated side effects)

srl2813: experimental small molecule (0 associated side effects)

n-(2,2,2-trifluoroethyl)-n-{4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl}benzenesulfonamide: experimental small molecule (0 associated side effects)

411 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain upper Abnormal dreams Abscess Acne Acute
 coronary syndrome Acute respiratory distress syndrome Affect
 lability Ageusia Agitation Alanine aminotransferase increased
 Alopecia Amenorrhoea Amnesia Anaemia Anal pruritus
 Anaphylactic shock Anaphylactoid reaction Angioedema
 Angiopathy Anorectal discomfort Anxiety Aortic dissection
 Application site reaction Arrhythmia Arthralgia Arthritis
 Arthropathy Artificial menopause Aspartate aminotransferase
 increased Asthenia Asthma Back pain Bacterial infection
 Basal cell carcinoma Benign neoplasm Benign vaginal
 neoplasm Bladder disorder Bladder pain Blepharitis Blindness
 Blood alkaline phosphatase increased Blood cholesterol
 increased Blood glucose decreased Blood glucose increased
 Blood pressure increased Blood triglycerides increased
 Blood urine Blood urine present Body temperature increased
 Bone disorder Bone pain Breast cancer in situ Breast
 cancer stage IV Breast discharge Breast discomfort Breast disorder
 Breast engorgement Breast enlargement Breast feeding
 Breast malformation Breast mass Breast neoplasm Breast pain
 Breast swelling Breast tenderness Bronchiolitis Bronchitis
 Bronchospasm Candidiasis Carbohydrate tolerance decreased
 Carpal tunnel syndrome Cerebral haemorrhage Cerebrovascular

accident Cerebrovascular disorder Cervix carcinoma Chest pain
 Chills Chloasma Cholecystitis Cholelithiasis
 Choluria Chorea Cold sweat Colitis Colorectal cancer
 Conjunctivitis Connective tissue disorder Constipation
 Contact lens intolerance Convulsion Coronary artery
 thrombosis Cough Cystitis Cystitis noninfective Decreased
 appetite Deep vein thrombosis Defaecation urgency Dehydration
 Depression Dermatitis Dermatitis atopic Dermatitis contact
 Dermatitis exfoliative Diarrhoea Discomfort Disease
 progression Disturbance in sexual arousal Diverticulitis
 Dizziness Drug interaction Dry skin Dry throat Dysentery
 Dysmenorrhoea Dyspepsia Dysphagia Dyspnoea Dysuria
 Ear disorder Ear infection Ear pain Ectropion of
 cervix Elderly Emotional disorder Endocrine disorder
 Endometrial disorder Endometriosis Epilepsy Epistaxis
 Erythema Erythema multiforme Erythema nodosum Eye
 disorder Eye infection Eyelid oedema Family stress
 Fatigue Feeling abnormal Fibrocystic breast disease
 Fibrosis Flatulence Fluid retention Flushing Foetal
 disorder Foetor hepaticus Fungal infection Galactorrhoea
 Gallbladder disorder Gastric disorder Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
 Genital candidiasis Genital discharge Genital disorder
 female Gingival disorder Glucose tolerance decreased Glucose
 tolerance impaired Goitre Haemangioma Haematemesis
 Haematochezia Haematoma Haematuria Haemoglobin Haemolytic
 anaemia Haemorrhage Haemorrhoids Headache Heart rate
 irregular Hemiparesis Hepatic cancer metastatic Hepatic failure
 Hepatic function abnormal Hepatitis Hepatobiliary disease
 Hepatocellular injury Hereditary angioedema Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hirsutism Hormone level abnormal Hot flush Hyperaemia
 Hyperaesthesia Hypercalcaemia Hyperglycaemia
 Hyperhidrosis Hypernatraemia Hypersensitivity Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypoaesthesia
 Hypocalcaemia Hypokalaemia Ileus Ill-defined disorder
 Immune system disorder Incontinence Increased appetite
 Infarction Infection Infestation Inflammation Influenza
 Influenza like illness Inguinal hernia Insomnia
 Interstitial lung disease Intestinal obstruction
 Irritability Ischaemia Ischaemic stroke Jaundice
 Jaundice cholestatic Keratitis Keratoconjunctivitis sicca
 Laryngitis Leiomyoma Lens disorder Libido decreased
 Libido increased Lip dry Liver disorder Liver function
 test abnormal Loss of consciousness Lung disorder Lung
 infection Lung infiltration Lymphadenopathy Lymphocytosis
 Malaise Mammogram abnormal Mantle cell lymphoma Mass
 Mediastinal disorder Medical device complication Melaena
 Menopausal symptoms Menopause Menorrhagia Menstruation
 irregular Mental disorder Metastases to liver Metastasis
 Metrorrhagia Microangiopathic haemolytic anaemia
 Migraine Monocytosis Mood swings Motion sickness Muscle
 contractions involuntary Muscle rigidity Muscle spasms
 Musculoskeletal discomfort Musculoskeletal pain

Musculoskeletal stiffness Myalgia Myocardial infarction
 Nail disorder Nasal congestion Nasopharyngitis Nausea
 Neck pain Neoplasm Neoplasm malignant Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Neutropenia
 Nipple pain Nuchal rigidity Obliterative bronchiolitis
 Obstruction Oedema Oedema genital Oedema peripheral
 Oestrogenic effect Optic neuritis Oropharyngeal pain
 Osteoarthritis Otitis media Ovarian cancer Ovarian
 cyst Pain Pain in extremity Palpitations Pancreatic carcinoma
 Pancreatitis Paraesthesia Paronychia Pathological
 fracture Pelvic pain Peptic ulcer Peptic ulcer haemorrhage
 Perineal pain Pharyngitis Pigmentation disorder Pleural
 disorder Pleural infection Pneumonia Pollakiuria Polyuria
 Porphyria non-acute Postmenopausal haemorrhage Proctalgia
 Protein urine present Proteinuria Prurigo Pruritus
 Pruritus generalised Pruritus genital Pulmonary fibrosis
 Purpura Rash Rash erythematous Rash pustular Rectal
 tenesmus Renal cancer Renal failure Renal failure acute
 Reproductive tract disorder Respiratory disorder Respiratory
 distress Respiratory tract infection Rhinitis Rhinorrhoea
 Rosacea Shock Sicca syndrome Sinus congestion Sinus
 headache Sinusitis Skin disorder Skin exfoliation Skin
 fissures Skin hyperpigmentation Skin hypertrophy Skin irritation
 Skin ulcer Somnolence Sticky skin Stomatitis Swelling
 Swelling face Syncope Tenderness Tension Tension
 headache Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombophlebitis superficial Thrombosis Tinnitus Tooth
 abscess Tooth disorder Toothache Toxic shock syndrome Ulcer
 haemorrhage Ulcerative keratitis Upper respiratory tract infection
 Urethral disorder Urinary incontinence Urinary tract disorder
 Urinary tract infection Urine output increased Urticaria
 Uterine cancer Uterine cervical erosion Uterine
 enlargement Uterine haemorrhage Uterine leiomyoma Uterine pain
 Vaginal discharge Vaginal disorder Vaginal haemorrhage
 Vaginal infection Vaginal neoplasm Vaginal ulceration
 Vaginismus Varicose vein Vascular purpura Vasodilation
 procedure Venous thrombosis Vertigo Viral infection Visual
 acuity reduced Visual impairment Vomiting Vulval disorder
 Vulvovaginal candidiasis Vulvovaginal discomfort
 Vulvovaginal mycotic infection Vulvovaginal pain
 Vulvovaginal pruritus Vulvovaginitis Weight decreased
 Weight increased Wheezing Withdrawal bleed

Vascular endothelial growth factor receptor 3 - Group: Enzyme

Treated with:

sorafenib: approved small molecule (130 associated side effects) For the treatment of patients with advanced renal cell carcinoma.

sunitinib: approved small molecule (198 associated side effects) For the treatment of advanced renal cell carcinoma as well as the treatment of gastrointestinal stromal tumor after disease progression on or intolerance to imatinib mesylate.

251 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain upper Acne
Acute coronary syndrome Adrenal insufficiency Ageusia
Alanine aminotransferase increased Alopecia Anaemia
Angioedema Angiopathy Aortic dissection Aphthous stomatitis
Apoptosis Arrhythmia Arthralgia Ascites Aspartate
aminotransferase increased Asthenia Back pain Blindness
Blindness cortical Blister Blood albumin decreased
Blood alkaline phosphatase increased Blood amylase
increased Blood bilirubin increased Blood creatinine increased
Blood glucose decreased Blood glucose increased Blood
magnesium decreased Blood phosphorus decreased Blood potassium
decreased Blood potassium increased Blood sodium increased Blood
thyroid stimulating hormone increased Blood uric acid increased
Body temperature increased Bradycardia Breast disorder
Cardiac disorder Cardiac failure Cardiac failure congestive
Cell death Cerebral haemorrhage Cerebral infarction
Cerebrovascular accident Chest pain Chills Cholangitis
Cholecystitis Completed suicide Congenital skin disorder
Connective tissue disorder Constipation Convulsion Cough
Decreased appetite Deep vein thrombosis Dehydration
Depressed mood Dermatitis Dermatitis bullous Dermatitis
exfoliative Dermatitis psoriasiform Diarrhoea Discomfort
Dizziness Dry mouth Dry skin Dysgeusia Dyspepsia
Dysphagia Dysphonia Dyspnoea Eczema Effusion
Ejection fraction Ejection fraction decreased Electrocardiogram
PR interval Embolism Embolism venous Endocrine disorder
Epistaxis Erectile dysfunction Erythema Erythema
multiforme Eye disorder Fatigue Febrile neutropenia
Fistula Flank pain Flatulence Flushing Folliculitis
Gastric haemorrhage Gastritis Gastrointestinal disorder
Gastrointestinal pain Gastroesophageal reflux disease
Gingival pain Gingivitis Glossitis Glossodynia
Gynaecomastia Haematemesis Haematochezia Haematoma
Haemoglobin decreased Haemoptysis Haemorrhage Haemorrhoids
Hair colour changes Headache Hepatic failure Hepatic
function abnormal Hepatic neoplasm malignant Hepatobiliary disease
Hormone level abnormal Hypercalcaemia Hyperglycaemia
Hyperkalaemia Hyponatraemia Hypersensitivity
Hypertension Hypertensive crisis Hyperthyroidism
Hyperuricaemia Hypoalbuminaemia Hypocalcaemia Hypogeusia
Hypoglycaemia Hypokalaemia Hyponatraemia
Hypophosphataemia Hypothyroidism Immune system disorder
Infarction Infection Infestation Inflammation Influenza
Influenza like illness Insomnia Ischaemia Jaundice
Keratoacanthoma Lacrimation increased Left ventricular
dysfunction Leukoderma Leukoencephalopathy Leukopenia Lipase
increased Loss of consciousness Lung neoplasm malignant
Lymphopenia Malaise Mediastinal disorder Melaena
Mental disorder Metastasis Metastatic renal cell carcinoma
Metrorrhagia Microangiopathy Mood swings Mouth ulceration
Mucosal dryness Mucosal inflammation Musculoskeletal
discomfort Myalgia Myocardial ischaemia Myopathy
Nasopharyngitis Nausea Necrosis Neoplasm malignant

Nephritis Nephrotic syndrome Nervous system disorder
 Neuropathy peripheral Neutropenia Oedema Oedema peripheral
 Oesophageal disorder Oesophagitis Oral pain Pain Pain
 in extremity Palmar-plantar erythrodysesthesia syndrome
 Pancreatic disorder Pancreatitis Periorbital oedema
 Peripheral sensory neuropathy Platelet count decreased
 Pleural disorder Pleural effusion Posterior reversible
 encephalopathy syndrome Primary hypothyroidism Protein urine
 present Proteinuria Prurigo Pruritus Pulmonary embolism
 Pulmonary haemorrhage Rash Rash erythematous Rash follicular
 Rash papular Reflux oesophagitis Regressive behaviour
 Renal failure Renal failure acute Renal impairment
 Respiratory tract infection Rhabdomyolysis Rhinorrhoea Shock
 Skin cancer Skin discolouration Skin exfoliation Social
 avoidant behaviour Splinter haemorrhages Squamous cell
 carcinoma Stomatitis Syncope Thrombocytopenia Thrombosis
 Thrombotic microangiopathy Thyroid disorder Thyroiditis
 Tinnitus Tongue ulceration Transient ischaemic attack
 Tubulointerstitial nephritis Tumour lysis syndrome Tumour
 necrosis Tumour pain Ulcer Upper respiratory tract infection
 Urticaria Varices oesophageal Varicose vein Venous
 thrombosis Ventricular dysfunction Visual acuity reduced
 Visual impairment Vomiting Weight decreased Wound haemorrhage
 Yellow skin

Estrogen receptor beta - Group: Receptor

Treated with:

diethylstilbestrol: approved small molecule (0 associated
 side effects) Used in the treatment of prostate cancer.
 Previously used in the prevention of miscarriage or premature
 delivery in pregnant women prone to miscarriage or premature
 delivery.

raloxifene: approved small molecule (83 associated side effects)

For the prevention and treatment of osteoporosis in post-
 menopausal women, as well as prevention and treatment of
 corticosteroid-induced bone loss. Also for the reduction in the
 incidence of invasive breast cancer in postmenopausal women with
 osteoporosis or have a high risk for developing breast cancer.

tamoxifen: approved small molecule (181 associated side effects)

For the treatment of breast cancer.
 estradiol: approved small molecule (315 associated side effects)
 For the treatment of urogenital symptoms associated with
 post-menopausal atrophy of the vagina (such as dryness, burning,
 pruritus and dyspareunia) and/or the lower urinary tract (urinary
 urgency and dysuria).

trilostane: approved, withdrawn small molecule (0 associated
 side effects) Used in the treatment of Cushing's syndrome. It is
 normally used in short-term treatment until permanent therapy is
 possible.

estramustine: approved small molecule (71 associated side
 effects) For the palliative treatment of patients with metastatic
 and/or progressive carcinoma of the prostate

genistein: experimental small molecule (0 associated side
 effects)

para-mercury-benzenesulfonic acid:experimental small molecule
(0 associated side effects)

n-butyl-11-[(7r,8r,9s,13s,14s,17s)-3,17-dihydroxy-13-methyl-
7,8,9,11,12,13,14,15,16,17-decahydro-6h-cyclopenta[a]phenanthren-7-
yl]-n-methylundecanamide: experimental small molecule (0
associated side effects)

5-alpha-androstane-3-beta,17beta-diol: experimental small
molecule (0 associated side effects)

4-(2-{{4-{{3-(4-chlorophenyl)propyl}sulfanyl}-6-(1-piperazinyl)-
1,3,5-triazin-2-yl}amino}ethyl)phenol: experimental small
molecule (0 associated side effects)

estriol: approved small molecule (0 associated side effects)
Used as a test to determine the general health of an unborn
fetus.

estropipate: approved small molecule (0 associated side
effects) Estropipate is used for the treatment of moderate to
severe vasomotor symptoms associated with the monopause, and
moderate to severe symptoms of vulval and vaginal atrophy associated
with the menopause. It is also used to treat hypoestrogenism due to
hypogonadism, castration or primary ovarian failure, and prevent
postmenopausal osteoporosis.

2-(3-fluoro-4-hydroxyphenyl)-7-vinyl-1,3-benzoxazol-5-ol:
experimental small molecule (0 associated side effects)

3-(3-fluoro-4-hydroxyphenyl)-7-hydroxy-1-naphthonitrile:
experimental small molecule (0 associated side effects)

[5-hydroxy-2-(4-hydroxyphenyl)-1-benzofuran-7-yl]acetonitrile:
experimental small molecule (0 associated side effects)

4-(6-hydroxy-benzo[d]isoxazol-3-yl)benzene-1,3-diol:
experimental small molecule (0 associated side effects)

2-(5-hydroxy-naphthalen-1-yl)-1,3-benzooxazol-6-ol: experimental
small molecule (0 associated side effects)

2-(4-hydroxy-phenyl)benzofuran-5-ol: experimental small
molecule (0 associated side effects)

(3as,4r,9br)-2,2-difluoro-4-(4-hydroxyphenyl)-6-(methoxymethyl)-
1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-8-ol: experimental
small molecule (0 associated side effects)

1-chloro-6-(4-hydroxyphenyl)-2-naphthol: experimental small
molecule (0 associated side effects)

4-(4-hydroxyphenyl)-1-naphthaldehyde oxime: experimental small
molecule (0 associated side effects)

5-hydroxy-2-(4-hydroxyphenyl)-1-benzofuran-7-carbonitrile:
experimental small molecule (0 associated side effects)

3-bromo-6-hydroxy-2-(4-hydroxyphenyl)-1h-inden-1-one:
experimental small molecule (0 associated side effects)

3-(6-hydroxy-naphthalen-2-yl)-benzo[d]isoxazol-6-ol:
experimental small molecule (0 associated side effects)

(3as,4r,9br)-2,2-difluoro-4-(4-hydroxyphenyl)-1,2,3,3a,4,9b-
hexahydrocyclopenta[c]chromen-8-ol: experimental small
molecule (0 associated side effects)

(16alpha,17alpha)-estra-1,3,5(10)-triene-3,16,17-triol:
experimental small molecule (0 associated side effects)

(9as)-4-bromo-9a-butyl-7-hydroxy-1,2,9,9a-tetrahydro-3h-fluoren-3-
one: experimental small molecule (0 associated side effects)

(3as,4r,9br)-4-(4-hydroxyphenyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-8-ol: experimental small molecule (0 associated side effects)
 (3as,4r,9br)-4-(4-hydroxyphenyl)-6-(methoxymethyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromen-8-ol: experimental small molecule (0 associated side effects)

430 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain upper Abscess Acne Acute coronary
 syndrome Adenocarcinoma Affect lability Agitation Alanine
 aminotransferase increased Albright's disease Alopecia
 Amenorrhoea Amnesia Anaemia Anal pruritus
 Anaphylactic shock Anaphylactoid reaction Angina pectoris
 Angioedema Angiopathy Anorectal discomfort Anxiety
 Aortic dissection Application site reaction Arrhythmia
 Arthralgia Arthritis Arthropathy Artificial menopause
 Aspartate aminotransferase increased Asthenia Asthma
 Back pain Bacterial infection Balance disorder Basal cell
 carcinoma Becker's muscular dystrophy Benign neoplasm Benign
 vaginal neoplasm Bladder cancer Bladder disorder Bladder pain
 Blepharitis Blindness Blood alkaline phosphatase increased
 Blood bilirubin increased Blood cholesterol increased Blood
 creatinine increased Blood glucose decreased Blood glucose
 increased Blood pressure increased Blood triglycerides
 increased Body temperature increased Bone cancer metastatic Bone
 disorder Bone pain Breast cancer in situ Breast cancer male
 Breast cancer stage IV Breast discharge Breast discomfort
 Breast disorder male Breast engorgement Breast
 enlargement Breast feeding Breast malformation Breast mass
 Breast neoplasm Breast pain Breast swelling Breast tenderness
 Bronchitis Bronchospasm Candidiasis Carbohydrate tolerance
 decreased Cardiac arrest Cardiac disorder Cardiac failure
 Cardiac failure congestive Cardiovascular disorder
 Carpal tunnel syndrome Cataract Cerebrovascular accident
 Cerebrovascular disorder Cervix carcinoma Chest pain
 Chills Chloasma Cholecystitis Cholelithiasis
 Cholestasis Chorea Cold sweat Colorectal cancer Confusional
 state Conjunctivitis Connective tissue disorder Constipation
 Contact lens intolerance Convulsion Corneal opacity
 Coronary artery disease Coronary artery thrombosis Cough
 Cutaneous lupus erythematosus Cystitis Cystitis
 noninfective Death Decreased appetite Deep vein thrombosis
 Depression Dermatitis Dermatitis contact Diabetes mellitus
 Diarrhoea Discomfort Disease progression Disturbance in
 sexual arousal Diverticulitis Dizziness Drug interaction Dry
 mouth Dry skin Dysmenorrhoea Dyspepsia Dysphonia Dyspnoea
 Ear disorder Ear infection Ear pain Ectropion of
 cervix Embolism venous Emotional disorder Emotional
 distress Endocrine disorder Endometrial cancer Endometrial
 disorder Endometriosis Epilepsy Erectile dysfunction
 Erythema Erythema multiforme Erythema nodosum Eye
 disorder Eye infection Eye pain Eyelid oedema Family
 stress Fasting Fatigue Febrile neutropenia Feeling

abnormal Fibrocystic breast disease Flatulence Fluid retention
 Flushing Foetal disorder Fungal infection Galactorrhoea
 Gallbladder disorder Gastric disorder Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Genital candidiasis
 Genital discharge Genital disorder female Glucose tolerance
 decreased Glucose tolerance impaired Goitre Gynaecomastia
 Haemangioma Haematoma Haematuria Haemoglobin Haemorrhage
 Haemorrhoids Headache Heart rate irregular Hemiparesis
 Hepatic cyst Hepatic function abnormal Hepatic steatosis
 Hepatitis Hepatobiliary disease Hereditary angioedema
 Herpes simplex Herpes virus infection Herpes zoster High
 density lipoprotein decreased Hirsutism Hormone level abnormal
 Hot flush Hyperaemia Hyperaesthesia Hypercalcaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperlipidaemia Hypernatraemia Hypersensitivity
 Hypertension Hypertonia Hypertriglyceridaemia Hypertrophy
 Hypoaesthesia Hypocalcaemia Ichthyosis acquired Ill-
 defined disorder Immune system disorder Incontinence Increased
 appetite Increased tendency to bruise Infarction Infection
 Infestation Influenza Influenza like illness Insomnia
 Interstitial lung disease Intestinal obstruction
 Irritability Ischaemic stroke Jaundice Jaundice
 cholestatic Lacrimation increased Laryngitis Leiomyoma Lens
 disorder Lethargy Leukopenia Libido decreased Libido increased
 Liver function test abnormal Loss of consciousness Loss of
 libido Lymphadenopathy Lymphoedema Macular degeneration
 Macular oedema Malaise Mammogram abnormal Mantle cell
 lymphoma Mass Mediastinal disorder Medical device complication
 Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Menstruation irregular Mental disorder Metastasis
 Metastatic neoplasm Metrorrhagia Migraine Mood swings
 Muscle contractions involuntary Muscle rigidity Muscle
 spasms Muscular weakness Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myocardial infarction Myocardial ischaemia Nail disorder
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Neoplasm malignant Nervous system disorder Nervousness
 Neuralgia Neuritis Neuropathy peripheral Neutropenia Night
 sweats Nipple pain Nuchal rigidity Obstruction Oedema
 Oedema genital Oedema peripheral Oestrogenic effect
 Oligomenorrhoea Optic nerve disorder Optic neuritis
 Oropharyngeal pain Osteoarthritis Osteoporosis
 Otitis media Ovarian cancer Ovarian cyst Pain Pain
 in extremity Palpitations Pancreatic disorder
 Pancreatitis Pancytopenia Paraesthesia
 Pathological fracture Peliosis hepatis Pelvic pain Pemphigoid
 Perineal pain Pharyngitis Phlebitis superficial
 Pigmentation disorder Platelet count decreased Pleural
 disorder Pleural infection Pneumonia Pollakiuria Polyp Polyuria
 Porphyria Porphyria non-acute Postmenopausal haemorrhage
 Precocious puberty Priapism Prurigo Pruritus
 Pruritus generalised Pruritus genital Puberty Pulmonary
 embolism Purpura Rash Rash erythematous Renal cancer

Reproductive tract disorder Respiratory disorder Respiratory tract infection Retinal disorder Retinal vein occlusion Retinal vein thrombosis Rhinitis Sarcoma uterus Sepsis Shock Sinus congestion Sinus headache Sinusitis Skin disorder Skin exfoliation Skin hypertrophy Skin irritation Skin ulcer Soft tissue disorder Somnolence Sticky skin Swelling Syncope Systemic lupus erythematosus Tenderness Tendon disorder Tension Tension headache Thirst Throat irritation Thrombocytopenia Thrombocytosis Thrombophlebitis Thrombophlebitis superficial Thrombosis Tinnitus Tooth abscess Tooth disorder Toothache Toxic shock syndrome Transaminases increased Tumour flare Tumour pain Ulcer Upper respiratory tract infection Urethral disorder Urinary incontinence Urinary tract disorder Urinary tract infection Urine output increased Urticaria Uterine cancer Uterine cervical erosion Uterine disorder Uterine enlargement Uterine haemorrhage Uterine leiomyoma Uterine pain Uterine polyp Vaginal discharge Vaginal disorder Vaginal haemorrhage Vaginal infection Vaginal inflammation Vaginal neoplasm Vaginal ulceration Vaginismus Varicose vein Vascular purpura Vasculitis Vasodilation procedure Venous occlusion Venous thrombosis Vertigo Viral infection Visual acuity reduced Visual impairment Vomiting Vulval disorder Vulvovaginal candidiasis Vulvovaginal discomfort Vulvovaginal dryness Vulvovaginal mycotic infection Vulvovaginal pain Vulvovaginal pruritus Vulvovaginitis Weight decreased Weight increased Wheezing Withdrawal bleed

Monocarboxylate transporter 4 - Group: Transporter

Treated with:

- pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance
- gamma hydroxybutyric acid: illicit, approved small molecule (0 associated side effects) Used as a general anesthetic, to treat conditions such as insomnia, clinical depression, narcolepsy, and alcoholism, and to improve athletic performance.
- acetoacetic acid: experimental small molecule (0 associated side effects)
- formic acid: experimental small molecule (0 associated side effects)
- d-lactic acid: experimental small molecule (0 associated side effects)
- 3-phenylpyruvic acid: experimental small molecule (0 associated side effects)
- oxamic acid: experimental small molecule (0 associated side effects)
- alpha-ketoisovalerate: experimental small molecule (0 associated side effects)
- glyoxalate, glyoxylate: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Sodium channel subunit beta-4 - Group: Channel

Treated with:

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

190 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Acne Agitation Alanine
aminotransferase increased Albuminuria Alopecia Amblyopia
Amenorrhoea Anaemia Anxiety Apnoea Arthralgia
Arthritis Aspartate aminotransferase increased Asthenia
Ataxia Atrial fibrillation Bladder pain Blood
lactate dehydrogenase increased Bradycardia Calculus bladder
Cardiac failure Cardiac fibrillation Cerebrovascular
accident Chest pain Cholangitis Cholecystitis Cholelithiasis
Cognitive disorder Colitis Confusional state
Conjunctivitis Constipation Convulsion Coordination
abnormal Cough Deafness Decreased appetite Dehydration
Depressed level of consciousness Dermatitis Dermatitis
bullous Diarrhoea Diplopia Discomfort Disturbance in sexual
arousal Dizziness Dry mouth Dry skin Duodenal ulcer
Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia
Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis
Eczema Embolism Encephalopathy Enuresis Erectile
dysfunction Euphoric mood Extrasystoles Face oedema Faecal
incontinence Fatigue Feeling abnormal Flank pain Flatulence
Gait disturbance Gastritis Gastroenteritis Gastrointestinal
pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
Glossitis Gynaecomastia Haematemesis Haematuria
Haemoglobin Haemoptysis Haemorrhage Headache Hirsutism
Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
Hyperreflexia Hypersensitivity Hypertension Hypertonia
Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
Hypotonia Ill-defined disorder Immunodeficiency
Incontinence Influenza Insomnia Iritis
Irritability Jaundice Jaundice cholestatic Leukopenia
Libido decreased Loss of consciousness Lymphadenopathy
Malaise Mastitis Melaena Menorrhagia Microcytic
anaemia Micturition urgency Mouth ulceration Movement disorder
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myoclonus Nausea
Nervousness Neuritis Neuropathy peripheral Nocturia
Nuchal rigidity Nystagmus Oculogyric crisis Oedema
Oedema peripheral Oesophagitis Osteoarthritis Pain
Palpitations Paraesthesia oral Paralysis Parosmia
Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
Pruritus Psychotic disorder Pulmonary embolism Rash
Rash maculo-papular Rash pustular Rectal haemorrhage
Rhinitis Scotoma Shock Somnolence Speech disorder
Stomatitis Syncope Systemic lupus erythematosus Tachycardia
Tension Thirst Thrombocytopenia Thrombophlebitis

Tinnitus Tremor Ulcer Urinary incontinence Urinary
retention Urine output increased Urticaria VIIth nerve paralysis
Vascular insufficiency Ventricular extrasystoles Vertigo
Vomiting Weight decreased Weight increased

Potassium voltage-gated channel subfamily D member 3 - Group:
Channel

Treated with:

disopyramide: approved small molecule (85 associated side effects) For the treatment of documented ventricular arrhythmias, such as sustained ventricular tachycardia, ventricular pre-excitation and cardiac dysrhythmias. It is a Class Ia antiarrhythmic drug.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

160 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain upper Accommodation disorder
Acute coronary syndrome Acute psychosis Affect lability
Ageusia Agitation Agranulocytosis Alopecia Angioedema
Antinuclear antibody positive Anxiety Arrhythmia
Arthritis Asthenia Ataxia Atrioventricular block Blood
creatinine increased Blood urea increased Body temperature
increased Bradycardia Breast enlargement Cardiac arrest
Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cardiomyopathy Cerebrovascular accident Chest
pain Coma Conduction disorder Confusional state Constipation
Convulsion Coordination abnormal Cyanosis Decreased
appetite Delusion Dependence Dermatitis Dermatitis atopic
Diarrhoea Diplopia Discomfort Disorientation
Dissociation Disturbance in attention Disturbance in
sexual arousal Dizziness Drug dependence Dry eye Dry mouth
Dysarthria Dysgeusia Dyskinesia Dyspepsia Dyspnoea
Dysuria Eosinophilia Erectile dysfunction
Extrapyramidal disorder Face oedema Fatigue Feeling
abnormal Feeling hot Flatulence Flushing Galactorrhoea
Gynaecomastia Haemoglobin decreased Hallucination
Headache Hepatic enzyme increased Hepatic failure
Hepatitis Hypercholesterolaemia Hyperhidrosis
Hyperpyrexia Hypertension Hypertrophy Hypoaesthesia
Hypoglycaemia Hypokalaemia Hypomania Hypotension Ileus
paralytic Ill-defined disorder Inappropriate antidiuretic hormone
secretion Infarction Insomnia Intraocular pressure increased

Irritability Jaundice Jaundice cholestatic Leukopenia
 Libido decreased Loss of consciousness Lymphadenitis
 Malaise Mania Mental disability Mental disorder Mental
 status changes Mood swings Muscle rigidity Muscle spasms
 Muscular weakness Mydriasis Myocardial infarction Nasal
 dryness Nausea Nervousness Neuroleptic malignant syndrome
 Neuropathy peripheral Neutropenia Nightmare Nodal rhythm
 Oedema Orthostatic hypotension Osteoarthritis Pain
 Pallor Palpitations Pancytopenia Paraesthesia
 Parotid gland enlargement Petechiae Pollakiuria Pruritus
 Psychotic disorder Purpura Rash generalised Rash
 morbilliform Sensory loss Shock Sinus arrest Skin
 disorder Sleep disorder Somnolence Stomatitis Swelling
 Syncope Systemic lupus erythematosus Tachycardia Tardive
 dyskinesia Tension Testicular swelling Thrombocytopenia
 Tinnitus Tongue discolouration Tremor Urinary
 hesitation Urinary retention Urticaria Vascular purpura Vertigo
 Vision blurred Vomiting Weight increased

Atrial natriuretic peptide clearance receptor - Group: Receptor

Treated with:

alpha-d-mannose: experimental small molecule (0 associated side effects)

nesiritide: approved biotech (0 associated side effects) For the intravenous treatment of patients with acutely decompensated congestive heart failure who have dyspnea at rest or with minimal activity.

known side effects mediated through drugs targeting this protein:

Glutamate receptor, ionotropic kainate 2 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

butabarbital: illicit, approved small molecule (0 associated side effects) For short-term treatment of insomnia and anxiety disorders

butalbital: illicit, approved small molecule (0 associated side effects) Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.

talbutal: illicit, approved small molecule (0 associated side effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

thiopental: approved small molecule (0 associated side effects)
 For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

primidone: approved small molecule (16 associated side effects)
 For the treatment of epilepsy

methylphenobarbital: approved small molecule (37 associated side effects) For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

amobarbital: illicit, approved small molecule (0 associated side effects)

aprobarbital: illicit, approved small molecule (0 associated side effects)

butethal: illicit, approved small molecule (0 associated side effects) For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects) Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects) For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit, experimental small molecule (0 associated side effects)

domoic acid: experimental small molecule (0 associated side effects)

quisqualate: experimental small molecule (0 associated side effects)

2s,4r-4-methylglutamate: experimental small molecule (0 associated side effects)

64 known side effects mediated through drugs targeting this protein:

Agitation Agranulocytosis Anaemia Anaemia megaloblastic
 Angioedema Anxiety Aplasia Apnoea Arthralgia
 Asthenia Asthma Ataxia Body temperature increased
 Bradycardia Confusional state Constipation Cytolytic
 hepatitis Decreased appetite Delirium Depressed level of
 consciousness Dermatitis Dermatitis exfoliative Diplopia
 Dizziness Emotional disorder Fatigue Feeling abnormal
 Hallucination Hangover Headache Hepatocellular injury
 Hyperkinesia Hypersensitivity Hypotension Hypoventilation
 Hypoxia Injection site reaction Insomnia
 Irritability Lethargy Liver injury Loss of
 consciousness Musculoskeletal discomfort Myalgia Nausea
 Nervousness Nightmare Nystagmus Osteomalacia Pain
 Phobia Pulmonary function test decreased Rash Respiratory
 depression Respiratory failure Shock Somnolence Swelling

Syncope Tension Toxic epidermal necrolysis Urticaria
Vertigo Vomiting

Voltage-dependent L-type calcium channel subunit beta-3 - Group:
Channel

Treated with:

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

mibefradil: withdrawn small molecule (0 associated side effects)
For the treatment of angina and high blood pressure.

139 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Acne Acute coronary syndrome Alanine aminotransferase increased Alopecia Anaemia Anaphylactic shock Angioedema Arthralgia Asthenia Atrioventricular block Atrioventricular block complete Atrioventricular dissociation Balance disorder Blindness Blood alkaline phosphatase increased Blood lactate dehydrogenase increased Blood prolactin increased Blood urea increased Bradycardia Bronchospasm Cardiac failure Cardiac failure congestive Cardiomyopathy Cerebrovascular accident Chest pain Cholestasis Confusional state Constipation Convulsion Deep vein thrombosis Depressive symptom Dermatitis Diarrhoea Diplopia Discomfort Disseminated intravascular coagulation Dissociation Dizziness Dry mouth Dyspepsia Dyspnoea Ecchymosis Electrocardiogram abnormal Erectile dysfunction Erythema Erythema multiforme Extrapyrmidal disorder Fasting Fatigue Feeling abnormal Feeling cold Fluid retention Flushing Galactorrhoea Gastrointestinal disorder Gastrointestinal haemorrhage Gingival hyperplasia Gynaecomastia Haematoma Headache Hepatic enzyme increased Hepatic function abnormal Hepatitis Hyperhidrosis Hyperkeratosis Hyperplasia Hyperprolactinaemia Hypersensitivity Hypertension Hypertrophic cardiomyopathy Hypertrophy Hypoaesthesia Hyponatraemia Hypotension Ileus paralytic Infection Influenza Insomnia Intermittent claudication Jaundice Joint swelling Laryngospasm Lethargy Liver function test abnormal Loss of consciousness Macule Muscle fatigue Muscle spasms Muscular weakness Musculoskeletal discomfort Myalgia Myocardial infarction Nausea Nystagmus Oedema Oedema peripheral Oligomenorrhoea Orthostatic hypotension Pain Palpitations Paraesthesia Paralysis Pharyngitis Platelet count decreased Pollakiuria Pruritus Pulmonary oedema Purpura Quadriparesis Rash Rash maculo-papular Respiratory failure Respiratory tract infection Rhinitis Sensory loss Shock Sinus arrest Sinusitis Sleep

disorder Somnolence Syncope Tachycardia Thrombocytopenia
Thrombosis Tinnitus Tremor Upper respiratory tract
infection Urticaria Vascular purpura Vasculitis Vasospasm
Venous thrombosis Vertigo Vision blurred Visual acuity
reduced Visual impairment Vomiting Wheezing

Antigen peptide transporter 1 - Group: Transporter

Treated with:

lapatinib: approved small molecule (0 associated side effects)

Indicated in combination with capecitabine for the treatment of patients with advanced or metastatic breast cancer whose tumors overexpress the human epidermal receptor type 2 (HER2) protein and who have received prior therapy including an anthracycline, a taxane, and trastuzuma.

adenosine-5'-diphosphate: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Probable N-acetylneuraminic acid outer membrane channel protein nanC - Group: Channel

Treated with:

lauryl dimethylamine-n-oxide: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

BDNF/NT-3 growth factors receptor - Group: Enzyme

Treated with:

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

109 known side effects mediated through drugs targeting this protein:

Acute coronary syndrome Ageusia Agitation Agranulocytosis
Alopecia Antinuclear antibody positive Anxiety
Arrhythmia Arthritis Asthenia Ataxia Atrioventricular
block Body temperature increased Breast enlargement
Cardiomyopathy Cerebrovascular accident Coma Confusional
state Constipation Convulsion Coordination abnormal Decreased
appetite Delusion Dependence Dermatitis atopic Diarrhoea
Discomfort Disorientation Disturbance in attention
Disturbance in sexual arousal Dizziness Drug dependence
Dry mouth Dysarthria Dysgeusia Dyskinesia Dyspepsia
Eosinophilia Erectile dysfunction Extrapyrmidal
disorder Face oedema Fatigue Feeling abnormal Galactorrhoea
Gynaecomastia Hallucination Headache Hepatic failure
Hepatitis Hyperhidrosis Hyperpyrexia Hypertension

Hypertrophy Hypoaesthesia Hypomania Hypotension Ileus
 paralytic Ill-defined disorder Inappropriate antidiuretic hormone
 secretion Infarction Insomnia Intraocular pressure increased
 Irritability Jaundice Leukopenia Libido decreased Loss
 of consciousness Malaise Mania Mental disability Mental status
 changes Muscle rigidity Mydriasis Myocardial infarction
 Nausea Neuroleptic malignant syndrome Neuropathy
 peripheral Nightmare Oedema Orthostatic hypotension
 Osteoarthritis Palpitations Pancytopenia
 Paraesthesia Parotid gland enlargement Pollakiuria
 Purpura Rash Sensory loss Shock Sleep disorder
 Somnolence Stomatitis Swelling Syncope Systemic lupus
 erythematosus Tachycardia Tardive dyskinesia Testicular
 swelling Thrombocytopenia Tinnitus Tongue discolouration
 Tremor Urinary retention Urticaria Vascular purpura
 Vision blurred Vomiting Weight increased

Estrogen-related receptor gamma - Group: Receptor

Treated with:

troglitazone: withdrawn small molecule (32 associated side effects)
 For the treatment of Type II diabetes mellitus. It is used alone or in combination with a sulfonylurea, metformin, or insulin as an adjunct to diet and exercise.

diethylstilbestrol: approved small molecule (0 associated side effects)
 Used in the treatment of prostate cancer.

Previously used in the prevention of miscarriage or premature delivery in pregnant women prone to miscarriage or premature delivery.

cholic acid: experimental small molecule (0 associated side effects)

4-hydroxy-n'-(4-isopropylbenzyl)benzohydrazide: experimental
 small molecule (0 associated side effects)

4-(1-methyl-1-phenylethyl)phenol: experimental small molecule
 (0 associated side effects)

4,4'-propane-2,2-diylidiphenol: experimental small molecule
 (0 associated side effects)

4,4'-cyclohexane-1,1-diylidiphenol: experimental small molecule
 (0 associated side effects)

31 known side effects mediated through drugs targeting this protein:

Abdominal pain Alanine aminotransferase increased Anaemia
 Asthenia Blood creatine phosphokinase increased Body
 temperature increased Cardiac failure Cardiac failure congestive
 Decreased appetite Discomfort Dizziness Fatigue
 Feeling abnormal Gastrointestinal pain Hepatic function
 abnormal Hepatitis Hyperglycaemia Ill-defined disorder
 Jaundice Laboratory test abnormal Liver function test
 abnormal Loss of consciousness Malaise Nausea Oedema
 Pain Shock Syncope Volume blood increased Vomiting
 Weight increased

Voltage-dependent calcium channel subunit alpha-2/delta-3 - Group:
 Channel

Treated with:

amlodipine: approved small molecule (136 associated side effects) For the treatment of hypertension and chronic stable angina.

nilvadipine: approved small molecule (0 associated side effects) For the management of vasospastic angina, chronic stable angina and hypertension.

136 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Accommodation disorder Acute coronary syndrome Agitation Alopecia Amnesia Angioedema
Angiopathy Anxiety Apathy Arrhythmia Arthralgia
Arthropathy Asthenia Ataxia Atrial fibrillation Back pain
Blindness Bradycardia Cardiac failure congestive Cardiac fibrillation
Chest pain Chills Cholestasis Chronic obstructive pulmonary disease
Cold sweat Conjunctivitis Constipation Cough Decreased appetite
Depersonalisation Dermatitis Diabetes mellitus Diarrhoea Diplopia Discomfort
Dizziness postural Dry mouth Dry skin Dysgeusia Dyspepsia
Dysphagia Dyspnoea Dysuria Epistaxis Erythema
Erythema multiforme Extrasystoles Eye pain Fatigue
Feeling abnormal Flat affect Flatulence Flushing Gastritis
Gastrointestinal pain Gingival hyperplasia Gynaecomastia
Headache Hepatitis Hot flush Hyperglycaemia Hyperhidrosis
Hyperplasia Hypersensitivity Hypertension Hypertonia
Hypoaesthesia Ill-defined disorder Increased appetite
Infarction Insomnia Ischaemia Jaundice Leukopenia
Loss of consciousness Lung disorder Malaise Menopausal symptoms
Micturition disorder Migraine Muscle spasms Muscle twitching
Muscular weakness Musculoskeletal discomfort Myalgia
Myocardial infarction Nausea Nervousness Neuropathy peripheral
Nocturia Obstructive airways disorder Oedema Oedema peripheral
Orthostatic hypotension Osteoarthritis Pain Palpitations
Pancreatitis Paraesthesia Parosmia Peripheral ischaemia
Peripheral vascular disorder Pollakiuria Polyuria Pruritus
Purpura Rash Rash erythematous Rash maculo-papular
Rhinitis Sexual dysfunction Shock Skin discoloration
Somnolence Sticky skin Syncope Tachycardia Tension
Thirst Thrombocytopenia Tinnitus Tremor Urine output increased
Urticaria Vascular purpura Vasculitis Ventricular tachycardia
Vertigo Visual acuity reduced Visual impairment Vomiting
Weight decreased Weight increased Xerophthalmia

Neuronal acetylcholine receptor subunit beta-4 - Group: Channel

Treated with:

nicotine: approved small molecule (98 associated side effects) For the relief of nicotine withdrawal symptoms and as an aid to smoking cessation.

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild

cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

pentolinium: approved small molecule (0 associated side effects) Used to produce controlled hypotension during surgical procedures and in hypertensive crises.

levomethadyl acetate: approved small molecule (0 associated side effects) For the treatment and management of opiate dependence. It is sometimes used to treat severe pain in terminal patients.

213 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Affect lability
Aggression Agitation Amnesia Anaemia Anxiety
Apathy Aphasia Apraxia Arrhythmia Arrhythmia
supraventricular Arthralgia Arthritis Asthenia Ataxia
Atrial fibrillation Atrioventricular block Back pain
Bladder pain Blindness Blister Blood alkaline
phosphatase increased Blood urea increased Body temperature
increased Bone pain Bradycardia Bronchitis Bronchospasm
Bundle branch block Cardiac failure Cardiac fibrillation
Cardiovascular disorder Cataract Cerebrovascular
accident Cerebrovascular disorder Chest discomfort Chest pain
Coagulopathy Completed suicide Confusional state
Constipation Convulsion Coordination abnormal Cough
Cystitis Cystitis noninfective Decreased appetite
Dehydration Delirium Dependence Depression Dermatitis
Dermatitis bullous Diarrhoea Discomfort Disturbance in
attention Disturbance in sexual arousal Diverticulitis
Dizziness Drug abuse Drug dependence Dry mouth Dysgeusia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
Ear pain Electrocardiogram QT prolonged Electrocardiogram
T wave inversion Epistaxis Eye disorder Eye irritation
Fatigue Feeling abnormal Flat affect Flatulence Flushing
Gastric disorder Gastritis Gastroenteritis Gastrointestinal
haemorrhage Gastrointestinal pain Gravitational oedema Haematuria
Haemoglobin Haemorrhage Hallucination Headache Hepatic
enzyme increased Hepatitis Hepatobiliary disease Hiccups
Hyperglycaemia Hyperhidrosis Hyperkinesia
Hypersensitivity Hypersomnia Hypertension Hypertonia
Hypoaesthesia Hypokalaemia Hypokinesia Hypotension Ill-
defined disorder Immune system disorder Incontinence Increased
appetite Increased bronchial secretion Infarction Infection
Influenza Insomnia Irritability Ischaemia Lacrimation
increased Lethargy Libido increased Liver disorder Loss of
consciousness Lower gastrointestinal haemorrhage Malaise
Melaena Menstrual disorder Mental disability Mental
disorder Migraine Mood swings Muscle contractions involuntary
Muscle spasms Musculoskeletal discomfort Musculoskeletal
disorder Myalgia Myocardial ischaemia Nasal congestion Nasal
discomfort Nasal ulcer Nasopharyngitis Nausea Nephrolithiasis
Nervous system disorder Nervousness Neuropathy peripheral
Nightmare Nocturia Oedema Oedema peripheral Oesophageal
disorder Oesophageal perforation Orthostatic hypotension
Pain Pain in extremity Pain in jaw Palpitations

Paraesthesia Paranoia Pharyngitis Pneumonia Pollakiuria
 Pruritus Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Rhinorrhoea Salivary hypersecretion Sensory
 loss Shock Sinusitis Sleep disorder Sneezing Somnolence
 Sputum increased Stomatitis Suicidal ideation Suicide attempt
 Supraventricular tachycardia Syncope Tachycardia Tension
 Throat irritation Thrombocytopenia Thrombocytosis Tinnitus
 Tobacco user Tooth disorder Transient ischaemic attack
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Vascular dementia Vascular
 purpura Ventricular tachycardia Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased Withdrawal syndrome

Alpha-1A adrenergic receptor - Group: Receptor

Treated with:

midodrine: approved small molecule (44 associated side effects)

For the treatment of symptomatic orthostatic hypotension (OH).
 ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

dapiprazole: approved small molecule (0 associated side effects) Used in the treatment of iatrogenically induced mydriasis produced by adrenergic (phenylephrine) or parasympatholytic (tropicamide) agents used in certain eye examinations.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

alfuzosin: approved small molecule (92 associated side effects)

For the reduction of urinary obstruction and relief of associated manifestations (eg. sensation of incomplete bladder emptying or straining, urgency, interrupted or weak stream) in patients with symptomatic benign prostatic hyperplasia.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

phenylpropanolamine: approved, withdrawn small molecule (0 associated side effects) For the treatment of nasal congestion, control of urinary incontinence, priapism and obesity.

promazine: approved small molecule (0 associated side effects)
 Used as an adjunct for short term treatment of moderate and

severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

dipivefrin: approved small molecule (12 associated side effects)

Dipivefrin is a prodrug which is used as initial therapy for the control of intraocular pressure in chronic open-angle glaucoma.

droperidol: approved small molecule (29 associated side effects)

Droperidol is used to produce tranquilization and to reduce the incidence of nausea and vomiting in surgical and diagnostic procedures.

prazosin: approved small molecule (93 associated side effects)

For treatment of hypertension, symptomatic benign prostatic hyperplasia, and severe congestive heart failure. May also be used alone or in combination with β -blockers in the preoperative management of signs and symptoms of pheochromocytoma.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

doxazosin: approved small molecule (243 associated side effects) For treatment and management of mild to moderate hypertension and urinary obstruction symptoms caused by BPH.

labetalol: approved small molecule (103 associated side effects) For the management of hypertension (alone or in combination with other classes of antihypertensive agents), as well as chronic stable angina pectoris and sympathetic overactivity syndrome associated with severe tetanus. Labetalol is used parenterally for immediate reduction in blood pressure in severe hypertension or in hypertensive crises when considered an emergency, for the control of blood pressure in patients with pheochromocytoma and pregnant women with preeclampsia, and to produce controlled hypotension during anesthesia to reduce bleeding resulting from surgical procedures.

metaraminol: approved small molecule (0 associated side effects) For the treatment and prevention of hypotension due to hemorrhage, spinal anesthesia, and shock associated with brain damage

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

thioridazine: approved small molecule (92 associated side effects) For the treatment of schizophrenia and generalized anxiety disorder.

phentolamine: approved small molecule (28 associated side effects) Used as an aid for the diagnosis of pheochromocytoma, and may be administered immediately prior to or during pheochromocytectomy to prevent or control paroxysmal hypertension resulting from anesthesia, stress, or operative manipulation of the tumor. Phentolamine has also been used to treat hypertensive crisis caused by sympathomimetic amines or catecholamine excess by certain foods or drugs in patients taking MAO inhibitors, or by clonidine withdrawal syndrome. Other indications include the prevention of dermal necrosis and sloughing following IV administration or extravasation of norepinephrine, decrease in impedance to left ventricular ejection and the infarct size in patients with MI associated with left ventricular failure, treatment of erectile dysfunction through self-injection of small doses combined with papaverine hydrochloride into the corpus cavernosum, and as an adjunct to the management of cocaine overdose to reverse coronary vasoconstriction following use of oxygen, benzodiazepines, and nitroglycerin.

ergotamine: approved small molecule (15 associated side effects) For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

nicergoline: approved small molecule (0 associated side effects) For the treatment of senile dementia, migraines of vascular origin, transient ischemia, platelet hyper-aggregability, and macular degeneration.

tamsulosin: approved small molecule (79 associated side effects) Used in the treatment of signs and symptoms of benign prostatic hyperplasia (reduction in urinary obstruction and relief of associated manifestations such as hesitancy, terminal dribbling of urine, interrupted or weak stream...etc.)

methoxamine: approved small molecule (0 associated side effects) Indicated for the treatment and management of hypotension.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

epinastine: approved small molecule (12 associated side effects) For the prevention of itching associated with allergic conjunctivitis.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

tolazoline: approved small molecule (0 associated side effects)
For the treatment of pulmonary artery anomalies

trifluoperazine: approved small molecule (111 associated side effects) For the treatment of anxiety disorders, depressive symptoms secondary to anxiety and agitation.

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic rhinitis, croup, sinusitis, otitis media, and tracheobronchitis. Also used as first-line therapy of priapism.

benzphetamine: illicit, approved small molecule (0 associated side effects) For the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction

flupenthixol: approved small molecule (0 associated side effects) For use in the treatment of schizophrenia and depression

phenoxybenzamine: approved small molecule (9 associated side effects) For the treatment of pheochromocytoma (malignant), benign prostatic hypertrophy and malignant essential hypertension.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

oxymetazoline: approved small molecule (0 associated side effects) For treatment of nasal congestion and redness associated with minor irritations of the eye

apraclonidine: approved small molecule (85 associated side effects) For prevention or reduction of intraoperative and postoperative increases in intraocular pressure (IOP) before and after ocular laser surgery when used prophylactically. Also used as a short-term adjunctive therapy in patients with open-angle glaucoma who are on maximally tolerated medical therapy requiring additional IOP reduction.

ergoloid mesylate: approved small molecule (0 associated side effects) For use as an adjunct therapy for patients with dementia

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

carvedilol: approved small molecule (198 associated side effects) For the treatment of mild or moderate (NYHA class II or III) heart failure of ischemic or cardiomyopathic origin.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved, withdrawn small molecule (246 associated side effects) For the treatment of depression.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes,

especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

terazosin: approved small molecule (115 associated side effects) For the treatment of symptomatic BPH and mild to moderate hypertension.

escitalopram: approved small molecule (0 associated side effects) Labeled indications include major depressive disorder (MDD) and generalized anxiety disorder (GAD). Unlabeled indications include treatment of mild dementia-associated agitation in nonpsychotic patients.

pergolide: approved,withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

ergonovine: approved small molecule (0 associated side effects) Used to treat postpartum haemorrhage and postabortion haemorrhage in patients with uterine atony.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

dihydroergotoxine: approved small molecule (0 associated side effects) For potential use in the treatment of Alzheimer's disease.

bevantolol: approved small molecule (0 associated side effects) For the treatment of angina pectoris and hypertension.

mephentermine: approved small molecule (0 associated side effects) Used to maintain blood pressure in hypotensive states.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

4-methoxyamphetamine: illicit,experimental small molecule (0 associated side effects)

dextroamphetamine: illicit,approved small molecule (0 associated side effects) Used to treat attention deficit hyperactivity disorder (ADHD).

phendimetrazine: illicit, approved small molecule (0 associated side effects) Used in the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction.

acepromazine: approved small molecule (0 associated side effects) Acepromazine was first used in humans in the 1950s as an antipsychotic agent. It is now rarely used in humans. Acepromazine is frequently used in animals as a sedative and antiemetic. Its principal value is in quietening and calming anxious animals.

thiopropazine: approved small molecule (0 associated side effects) For the treatment of all types of acute and chronic schizophrenia, including those which did not respond to the usual neuroleptics; manic syndromes.

zuclopenthixol: approved small molecule (0 associated side effects) For the management of the manifestations of schizophrenia.

sertindole: approved, withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

droxidopa: approved small molecule (0 associated side effects)

For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

xylometazoline: approved small molecule (0 associated side effects) It is used for treating nasal congestion and minor inflammation due to allergies or colds.

isometheptene: approved small molecule (0 associated side effects) Isometheptene is a sympathomimetic drug which causes vasoconstriction. It is used for treating migraines and tension headaches.

levonordefrin: approved small molecule (0 associated side effects) Used as a topical nasal decongestant and vasoconstrictor in dentistry.

naphazoline: approved small molecule (18 associated side effects) Naphazoline is primarily indicated in conditions like Corneal vascularity, Hyperaemia, Itching, Nasal congestion, and can also be given in adjunctive therapy as an alternative drug of choice in Sinusitis

1155 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Acute abdomen Acute coronary syndrome Acute psychosis Adenocarcinoma Adenoma benign infarction Acute psychosis Affect lability Affective disorder Adjustment disorder Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amblyopia Amenorrhoea Amnesia Anaemia Anaemia

macrocytic Anaemia megaloblastic Anaphylactic shock
 Anaphylactoid reaction Aneurysm Anger Angina pectoris
 Angina unstable Angioedema Angiopathy Angle closure glaucoma
 Anorectal discomfort Anorgasmia Anoxia Antidiuretic
 hormone abnormality Antinuclear antibody positive Antisocial
 behaviour Antisocial personality disorder Anxiety Aortic
 dissection Apathy Aphasia Aphthous stomatitis Aplastic
 anaemia Apnoea Appendicitis Application site reaction
 Apraxia Arrhythmia Arrhythmia supraventricular Arterial
 disorder Arterial occlusive disease Arterial stenosis
 Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy
 Ascites Asocial behaviour Aspartate aminotransferase
 increased Asphyxia Aspiration Asthenia Asthma Ataxia
 Atelectasis Athetosis Atrial fibrillation Atrial flutter
 Atrioventricular block complete Atrioventricular block first
 degree Atrophy Automatism Autonomic nervous system imbalance
 Azotaemia Back pain Balance disorder Basophilia Benign
 neoplasm Benign neoplasm of skin Benign prostatic hyperplasia
 Bladder cancer Bladder dilatation Bladder pain
 Blepharitis Blepharospasm Blindness Blister Blood
 alkaline phosphatase increased Blood amylase increased Blood
 antidiuretic hormone abnormal Blood bilirubin increased Blood
 cholesterol increased Blood creatine phosphokinase increased Blood
 creatinine increased Blood disorder Blood glucose decreased
 Blood glucose increased Blood insulin increased Blood
 iron decreased Blood lactate dehydrogenase increased Blood
 potassium decreased Blood potassium increased Blood pressure
 abnormal Blood pressure diastolic decreased Blood pressure
 fluctuation Blood pressure increased Blood pressure systolic
 decreased Blood prolactin increased Blood testosterone decreased
 Blood triglycerides increased Blood triglycerides normal
 Blood urea increased Blood uric acid increased Blood urine
 Blood urine present Blunted affect Body temperature
 decreased Body temperature increased Bone disorder Bone pain
 Bone sarcoma Bradycardia Bradykinesia Bradyphrenia
 Brain oedema Breast cancer Breast cyst Breast discharge
 Breast discomfort Breast disorder Breast disorder female
 Breast disorder male Breast engorgement Breast
 enlargement Breast feeding Breast neoplasm Breast pain Breast
 swelling Breast tenderness Breath odour Bronchitis
 Bronchopneumonia Bronchopneumopathy Bronchospasm
 Bruxism Buccoglossal syndrome Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus urinary
 Cancer in remission Candidiasis Carbohydrate tolerance
 decreased Cardiac arrest Cardiac disorder Cardiac failure
 Cardiac failure congestive Cardiac fibrillation Cardiac
 flutter Cardiac murmur Cardiac valve disease Cardio-
 respiratory arrest Cardioactive drug level Cardiomegaly
 Cardiomyopathy Cardiopulmonary failure Cardiovascular
 disorder Carpal tunnel syndrome Cataplexy Cataract Catatonia
 Cells in urine Cellulitis Cerebral haemorrhage Cerebral
 infarction Cerebral ischaemia Cerebrospinal fluid rhinorrhoea
 Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cervix carcinoma Chapped lips Cheilitis Chest

discomfort Chest pain Chills Choking Cholecystitis
Cholelithiasis Cholestasis Cholinergic syndrome Chorea
Choreoathetosis Chronic obstructive pulmonary disease
Coagulopathy Coccydynia Cognitive disorder Cogwheel
rigidity Cold sweat Colitis ischaemic Colitis ulcerative
Collagen disorder Coma Completed suicide Condition aggravated
Confusional state Congenital eye disorder Conjunctival
disorder Conjunctival follicles Conjunctival oedema
Conjunctivitis Connective tissue disorder Constipation
Conversion disorder Convulsion Coordination abnormal
Corneal deposits Corneal erosion Corneal infiltrates
Corneal lesion Corneal staining Coronary artery disease
Costochondritis Cough Crocodile tears syndrome Crying
Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Dandruff Deafness Death Decreased appetite
Decubitus ulcer Deep vein thrombosis Deficiency anaemia
Dehydration Delirium Delusion Dementia Dementia with
Lewy bodies Dental caries Dependence Depersonalisation Depressed
level of consciousness Depression Depressive symptom
Derealisation Dermal cyst Dermatitis Dermatitis atopic
Dermatitis bullous Dermatitis contact Dermatitis
exfoliative Dermatitis psoriasiform Diabetes mellitus Diabetic
coma Diabetic hyperglycaemic coma Diabetic hyperosmolar coma
Diabetic ketoacidosis Diarrhoea Diplopia Discomfort
Disease progression Disorientation Disseminated
intravascular coagulation Dissociation Disturbance in
attention Disturbance in sexual arousal Diverticulitis
Dizziness Dizziness exertional Dizziness postural
Drooling Drug abuse Drug dependence Drug eruption Drug
hypersensitivity Drug interaction Drug level increased Drug
withdrawal syndrome Drug withdrawal syndrome neonatal Dry eye
Dry mouth Dry skin Dry throat Duodenal ulcer Duodenitis
Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
Dysphagia Dysphemia Dysphonia Dysphoria Dyspnoea
Dystonia Dysuria Ear disorder Ear infection Ear
pain Ecchymosis Eclampsia Eczema Effusion Ejaculation
delayed Ejaculation disorder Ejaculation failure Elastosis
perforans Elderly Electrocardiogram QRS complex
Electrocardiogram QT prolonged Electrocardiogram ST segment
Electrocardiogram ST segment depression Electrocardiogram ST
segment elevation Electrocardiogram T wave inversion Electrocardiogram
abnormal Electrocardiogram change Electrocardiogram normal
Electroencephalogram abnormal Electrolyte imbalance
Elevated mood Embolism Emphysema Encephalopathy
Endocrine disorder Energy increased Enteritis Enuresis
Eosinophil count increased Eosinophilia Epididymitis
Epilepsy Epistaxis Erectile dysfunction Eructation
Erythema Erythema multiforme Erythromelalgia Euphoric
mood Exfoliative rash Exostosis Extensor plantar response
Extrapyramidal disorder Extrasystoles Extravasation
Eye discharge Eye disorder Eye haemorrhage Eye
infection Eye inflammation Eye irritation Eye movement disorder
Eye pain Eye pruritus Eye swelling Eyelid disorder
Eyelid function disorder Eyelid oedema Eyelid ptosis
Eyelid retraction Face oedema Facial pain Facial paresis

Faecal incontinence Faecalith Faecaloma Faeces
 discoloured Faeces hard Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Female sexual
 dysfunction Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Floppy iris syndrome Fluid overload Fluid
 retention Flushing Foetor hepaticus Folliculitis Formication
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric disorder Gastric pH decreased Gastric
 ulcer Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital discharge Gestational
 hypertension Gingival bleeding Gingival pain Gingival
 recession Gingivitis Glaucoma Glossitis Glossodynia Glucose
 tolerance decreased Glucose tolerance impaired Glycosuria
 Glycosylated haemoglobin increased Goitre Gout Grand mal
 convulsion Gravitational oedema Groin pain Gynaecomastia
 Haematemesis Haematochezia Haematocrit decreased
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhagic disorder Haemorrhoids Haemothorax Hair
 disorder Hallucination Hallucination, auditory
 Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemiparesis Hemiplegia Hepatic cirrhosis
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatic steatosis Hepatitis Hepatitis A
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups High density
 lipoprotein decreased Hirsutism Homicidal ideation Hormone
 level abnormal Hostility Hot flush Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hyperthermia Hyperthyroidism Hypertonia
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloraemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovolaemia
 Hypoxia Idiopathic thrombocytopenic purpura Ileus
 paralytic Ill-defined disorder Immune system disorder
 Inappropriate antidiuretic hormone secretion Incontinence

Increased appetite Induration Infarction Infection
 Infestation Inflammation Influenza Influenza like illness
 Inguinal hernia Initial insomnia Injection site mass
 Injection site pain Injection site phlebitis Injection
 site reaction Insomnia Intention tremor Intentional self-
 injury Intermittent claudication Interstitial lung disease
 Intervertebral disc disorder Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Intraocular pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic cardiomyopathy Ischaemic
 stroke Jaundice Jaundice cholestatic Joint contracture Joint
 range of motion decreased Joint stiffness Joint swelling
 Judgement impaired Keratitis Keratopathy Ketoacidosis
 Ketosis Laboratory test abnormal Lacrimation decreased
 Lacrimation increased Lactic acidosis Laryngeal disorder
 Laryngeal oedema Laryngitis Laryngospasm Leiomyoma Lens
 disorder Lenticular opacities Lenticular pigmentation
 Lethargy Leukaemia Leukocytoclastic vasculitis
 Leukocytosis Leukoderma Leukopenia Leukoplakia oral
 Libido decreased Libido increased Lichen planus Lichenoid
 keratosis Light anaesthesia Lip blister Lip dry Lip swelling
 Liver disorder Liver function test abnormal Liver injury
 Local reaction Localised infection Localised oedema
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung adenocarcinoma stage I Lung
 disorder Lung infiltration Lung neoplasm malignant
 Lymphadenitis Lymphadenopathy Lymphocytosis Lymphoedema
 Lymphopenia Maculopathy Major depression Malaise Male sexual
 dysfunction Malignant melanoma Mania Masked facies Mastitis
 Mediastinal disorder Megacolon Melaena Memory impairment
 Meningitis Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation delayed Menstruation
 irregular Mental disability Mental disorder Mental retardation
 Mental status changes Mesenteric artery thrombosis Metabolic
 disorder Methaemoglobinaemia Metrorrhagia Micturition
 disorder Micturition urgency Middle insomnia Migraine
 Miosis Mitral valve incompetence Mobility decreased
 Monocytosis Mood swings Motion sickness Mouth ulceration
 Movement disorder Muscle atrophy Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myopathy toxic
 Myopia Myositis Nail discolouration Nail disorder
 Narcolepsy Nasal congestion Nasal discomfort Nasal disorder
 Nasal dryness Nasal obstruction Nasal oedema
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Neoplasm recurrence Nephritis
 Nephrolithiasis Nephrotic syndrome Nervous system
 disorder Nervousness Neuralgia Neuritis Neurodermatitis

Neuroleptic malignant syndrome Neurological symptom
 Neuropathy peripheral Neurosis Neutropenia Neutrophil count
 decreased Neutrophil count increased Night blindness Night
 sweats Nightmare Nocturia Nodal arrhythmia Nodule
 Normochromic normocytic anaemia Nuchal rigidity Nystagmus
 Obesity Obsessive thoughts Obstruction Ocular hyperaemia
 Oculogyric crisis Oculomucocutaneous syndrome Oedema
 Oedema peripheral Oesophageal achalasia Oesophageal disorder
 Oesophageal ulcer Oesophagitis Oligomenorrhoea Oliguria
 Onychomycosis Opisthotonus Oral candidiasis Oral pain
 Orchitis noninfective Orgasm abnormal Oropharyngeal
 discomfort Oropharyngeal pain Oropharyngeal spasm Orthostatic
 hypotension Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteopenia Osteoporosis Otitis externa
 Otitis media Otitis media chronic Ovarian cyst Pain
 Pain in extremity Pain in jaw Pain of skin Pallor
 Palpitations Pancreatitis Pancreatitis acute
 Pancytopenia Panic attack Panic disorder Panic
 disorder with agoraphobia Panic reaction Paraesthesia
 Paraesthesia oral Paralysis Paranoia Paresis
 Parkinsonian gait Parkinsonism Parosmia Parotid gland
 enlargement Pathological fracture Pathological gambling Pelvic pain
 Peptic ulcer Pericardial effusion Pericardial
 haemorrhage Pericarditis Pericarditis constrictive Perineal
 pain Periodontitis Periorbital oedema Peripheral coldness
 Peripheral ischaemia Peripheral vascular disorder Personality
 disorder Petechiae Petit mal epilepsy Phaeochromocytoma
 Pharyngeal disorder Pharyngeal erythema Pharyngitis
 Phlebitis Phlebitis superficial Phobia Phonological
 disorder Photophobia Photopsia Photosensitivity reaction
 Pigmentation disorder Piloerection Pituitary tumour
 benign Platelet count decreased Pleural disorder Pleural
 effusion Pleural fibrosis Pneumonia Pneumonia aspiration
 Pneumothorax Poisoning Pollakiuria Polycythaemia
 Polydipsia Polymyalgia rheumatica Polyp Polyuria Postural
 orthostatic tachycardia syndrome Posture abnormal Pre-eclampsia
 Precocious puberty Pregnancy Pregnancy test false
 positive Pregnancy test positive Premature ejaculation
 Premenstrual syndrome Pressure of speech Presyncope
 Priapism Procedural pain Proctalgia Productive cough
 Prolactinoma Prostatic disorder Prostatism Prostatitis
 Protein urine present Proteinuria Prothrombin level decreased
 Protrusion tongue Pruritus Pruritus generalised Pruritus
 genital Psoriasis Psychiatric symptom Psychomotor
 retardation Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary hypertension Pulmonary oedema
 Pulse absent Punctate keratitis Purpura Purpura
 non-thrombocytopenic Pyelonephritis Pyuria Rales Rash Rash
 erythematous Rash generalised Rash maculo-papular Rash
 papular Rash pustular Rash vesicular Raynaud's phenomenon
 Rectal haemorrhage Rectal tenesmus Red blood cell count
 decreased Red blood cell sedimentation rate increased Reflux
 oesophagitis Regressive behaviour Renal artery stenosis Renal
 failure Renal failure acute Renal impairment Renal pain

Respiratory alkalosis Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal artery occlusion Retinal detachment
 Retinal disorder Retinal vascular disorder Retinal vein
 occlusion Retinitis pigmentosa Retrograde ejaculation
 Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
 Rhonchi Rosacea Salivary gland disorder Salivary
 gland enlargement Salivary hypersecretion Salpingitis Sarcoidosis
 Sarcoma Scab Schizoaffective disorder Schizophrenia
 Schizophreniform disorder Sciatica Scleral disorder
 Scotoma Seasonal allergy Seborrhoeic dermatitis Sedation
 Semen analysis abnormal Sensation of foreign body
 Sensation of heaviness Sensory loss Sepsis Septic
 shock Severe acute respiratory syndrome Sexual dysfunction Shock
 Sialoadenitis Sinus arrhythmia Sinus bradycardia Sinus
 congestion Sinus disorder Sinus headache Sinus tachycardia
 Sinusitis Skin cancer Skin discoloration Skin disorder
 Skin exfoliation Skin hypertrophy Skin irritation Skin lesion
 Skin mass Skin papilloma Skin ulcer Sleep apnoea syndrome
 Sleep disorder Sleep paralysis Sleep talking
 Sluggishness Small intestinal obstruction Sneezing
 Social avoidant behaviour Somnambulism Somnolence
 Speech disorder Splenomegaly Status epilepticus
 Stevens-Johnson syndrome Sticky skin Stomatitis Stridor
 Stupor Subarachnoid haemorrhage Subcutaneous abscess
 Subcutaneous nodule Subdural haematoma Sudden death
 Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Systemic lupus
 erythematosus Tachycardia Tardive dyskinesia Tenderness
 Tendinous contracture Tendon disorder Tendonitis
 Tenosynovitis Tension Tension headache Teratogenicity
 Testicular pain Testicular swelling Tetany Thinking
 abnormal Thirst Thought blocking Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid adenoma Thyroiditis Tic Tinnitus Tongue
 discoloration Tongue disorder Tongue dry Tongue oedema
 Tongue paralysis Tongue spasm Tonsillar hypertrophy
 Tonsillitis Tooth abscess Tooth disorder Tooth hypoplasia
 Tooth impacted Tooth infection Toothache Torsade de
 pointes Torticollis Toxic epidermal necrolysis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Unintended
 pregnancy Unresponsive to stimuli Upper respiratory tract
 infection Urethral disorder Urethral pain Urinary hesitation
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Urine abnormality Urine analysis
 abnormal Urine output increased Urosepsis Urticaria Uterine
 disorder Uterine haemorrhage Uterine leiomyoma Uterovaginal

prolapse VIIth nerve paralysis Vaginal discharge Vaginal
 haemorrhage Vaginal infection Vaginal inflammation Varicose vein
 Vascular purpura Vasculitis Vasoconstriction Vasodilation
 procedure Vasospasm Venous occlusion Venous thrombosis Ventricular
 arrhythmia Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Viral diarrhoea Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vomiting Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal bleed Withdrawal syndrome
 Xerophthalmia Xerosis Yawning

B(0,+)-type amino acid transporter 1 - Group: Transporter
 Treated with:

l-cystine: approved, nutraceutical small molecule (0 associated
 side effects) It has been claimed that L-cysteine has anti-
 inflammatory properties, that it can protect against various toxins,
 and that it might be helpful in osteoarthritis and rheumatoid
 arthritis. More research will have to be done before L-cysteine can
 be indicated for any of these conditions. Research to date has
 mostly been in animal models.

known side effects mediated through drugs targeting this protein:

Interleukin-2 receptor subunit beta - Group: Receptor
 Treated with:

denileukin diftotox: approved biotech (0 associated side
 effects) For treatment of cutaneous T-cell lymphoma
 aldesleukin: approved biotech (0 associated side effects)
 For treatment of adults with metastatic renal cell carcinoma.
 basiliximab: approved biotech (0 associated side effects)
 For prophylactic treatment of kidney transplant rejection
 daclizumab: approved biotech (0 associated side effects)
 Zenapax is a humanized monoclonal antibody used for prevention
 of renal transplant rejection

known side effects mediated through drugs targeting this protein:

Intermediate conductance calcium-activated potassium channel protein
 4 - Group: Channel
 Treated with:

clotrimazole: approved small molecule (28 associated side
 effects) For the local treatment of oropharyngeal candidiasis and
 vaginal yeast infections, also used in fungal infections of the skin
 such as ringworm, athlete's foot, and jock itch.
 quinine: approved small molecule (0 associated side effects)
 For the treatment of malaria and leg cramps

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis (athlete’s foot), tinea cruris, and tinea corporis caused by <i>Trichophyton rubrum</i>, <i>Trichophyton mentagrophytes</i>, and <i>Epidermophyton floccosum</i>, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.

halothane: approved small molecule (10 associated side effects)

For the induction and maintenance of general anesthesia

59 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Anaphylactic shock
Anaphylactoid reaction Angioedema Arrhythmia Aspartate
aminotransferase increased Bladder pain Blister Breast
disorder Burning sensation Cardiac arrest Cardiac disorder
Chills Cystitis Cystitis noninfective Dermatitis
Dermatitis bullous Dermatitis contact Erythema
Flatulence Gastrointestinal pain Genital burning sensation
Genital discharge Haemoglobin Haemorrhage Headache Hepatic
function abnormal Hepatic necrosis Hyperpyrexia Hypotension
Immune system disorder Liver function test abnormal Muscle
spasms Nausea Necrosis Nervous system disorder
Oedema Pain Pelvic pain Pollakiuria Pruritus Pruritus
genital Rash Respiratory arrest Respiratory disorder
Respiratory tract infection Skin exfoliation Skin irritation
Upper respiratory tract infection Urethral disorder Urinary
tract disorder Urinary tract infection Urticaria Vaginal
discharge Vomiting Vulvovaginal burning sensation
Vulvovaginal discomfort Vulvovaginal erythema

Sodium- and chloride-dependent creatine transporter 1 - Group:
Transporter

Treated with:

creatine: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Membrane cofactor protein - Group: Receptor

Treated with:

alpha-d-mannose: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

High affinity immunoglobulin gamma Fc receptor IB - Group: Receptor

Treated with:

intravenous immunoglobulin: approved biotech (0 associated
side effects) IVIg is used in the treatment of

immunodeficiencies, as well as autoimmune and inflammatory disorders. These indications includes idiopathic thrombocytopenic purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic lymphocytic leukemia, bone marrow transplant complications, Guillain-Barré syndrome, chronic inflammatory demyelinating polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis, myesthesia gravis, Wiskott-Aldrich syndrome and inflammatory skin diseases.

known side effects mediated through drugs targeting this protein:

Metabotropic glutamate receptor 2 - Group: Receptor

Treated with:

acamprosate: approved small molecule (212 associated side effects) For the maintenance of abstinence from alcohol in patients with alcohol dependence who are abstinent at treatment initiation

212 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Abscess
Acne Acute coronary syndrome Agitation Alanine
aminotransferase increased Alcoholism Alopecia Amblyopia
Amnesia Anaemia Angina pectoris Anxiety Apathy
Arterial occlusive disease Arthralgia Arthritis Ascites
Aspartate aminotransferase increased Asthenia Asthma
Back pain Blindness Blister Blood alkaline phosphatase
increased Blood creatinine increased Blood lactate dehydrogenase
increased Blood uric acid increased Body temperature increased
Bronchitis Cardiac failure Cardiomyopathy Chest pain
Chills Cholecystitis Colitis Completed suicide
Confusional stateConstipation Convulsion Cough Deafness
Death Decreased appetite Deep vein thrombosis
DepersonalisationDermatitis Dermatitis bullous Dermatitis
exfoliativeDiabetes mellitusDiarrhoea Diplopia Discomfort
Disturbance in sexual arousal Dizziness Dry mouth Dry
skin Duodenal ulcer Dysgeusia Dyspepsia Dysphagia Dyspnoea
Ecchymosis Eczema Ejaculation disorder Embolism
Encephalopathy Endophthalmitis Eosinophilia Epistaxis
Erectile dysfunction Eructation Face oedemaFeeling abnormal
Flat affectFlatulence Gastric disorder Gastric ulcer
Gastritis Gastroenteritis Gastrointestinal haemorrhage
Gastrointestinal pain Goitre Gout Haematemesis
Haematuria Haemoglobin Haemorrhage Hallucination Headache
Hepatic cirrhosisHepatic neoplasm malignant Hepatitis
Hernia Hostility Hyperbilirubinaemia Hyperglycaemia
Hyperhidrosis Hyperkinesia Hypersensitivity
Hypertension Hyperuricaemia Hypoaesthesia
Hyponatraemia HypotensionHypothyroidism Hypovitaminosis
Ill-defined disorder Incontinence Increased appetite
Infarction Infection Influenza Insomnia Laryngospasm
Leukopenia Libido decreased Libido increased Liver function
test abnormal Loss of consciousness Lymphadenopathy

Lymphocytosis Malaise Mania Melaena Menorrhagia
 Mental disability Mesenteric occlusion Metrorrhagia
 Micturition urgency Migraine Monocytosis Mouth ulceration
 Muscle spasms Muscle twitching Musculoskeletal discomfort
 Myalgia Myocardial infarction Myopathy Nausea Neck
 pain Neoplasm malignant Nephrolithiasis Nervousness Neuralgia
 Neurosis Nocturia Oedema Oedema peripheral
 Oesophagitis Orthostatic hypotension Pain
 Palpitations Pancreatitis Panophthalmitis
 Paraesthesia Paranoia Pharyngitis Phlebitis Photophobia
 Photosensitivity reaction Pneumonia Pollakiuria Polyuria
 Pruritus Psoriasis Psychotic disorder Pulmonary
 embolism Rash Rash maculo-papular Rash pustular Rectal
 haemorrhage Renal failure Renal failure acute Rheumatoid
 arthritis Rhinitis Salivary hypersecretion Sexual
 dysfunction Shock Somnolence Stomatitis Sudden death Suicidal
 ideation Suicide attempt Syncope Tachycardia Tension
 Thinking abnormal Thirst Thrombocytopenia Thrombophlebitis
 Tinnitus Torticollis Tremor Ulcer Urinary incontinence
 Urinary tract infection Urine output increased Urticaria
 Vaginal infection Vaginal inflammation Varicose vein
 Vasodilation procedure Vertigo Visual acuity reduced
 Visual impairment Vomiting Weight decreased Weight increased
 Withdrawal syndrome

Somatostatin receptor type 2 - Group: Receptor

Treated with:

octreotide: approved small molecule (0 associated side effects)
 For treatment of acromegaly and reduction of side effects from
 cancer chemotherapy

vapreotide: approved small molecule (0 associated side effects)
 For the treatment of esophageal variceal bleeding in patients
 with cirrhotic liver disease and has also shown efficacy in the
 treatment of patients with AIDS-related diarrhea.

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric-acid receptor subunit rho-1 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side
 effects) For the management of anxiety disorders, and for
 treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects)
 For the short-term treatment of insomnia (generally 7-10
 days).

clobazam: illicit, approved small molecule (58 associated side
 effects) For treatment and management of epilepsy and anxiety
 disorder.

alprazolam: illicit, approved small molecule (178 associated side
 effects) For the management of anxiety disorder or the short-term
 relief of symptoms of anxiety and for the treatment of panic
 disorder, with or without agoraphobia.

picROTOXIN: approved small molecule (0 associated side effects)
Used internally for relieving respiratory distress. Also for use as an antidote in poisoning by CNS depressants, especially barbiturates.

chlORDIAZEPoxide: illicit, approved small molecule (20 associated side effects)
For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinAZOLAM: approved small molecule (0 associated side effects)
For the treatment of anxiety and status epilepticus.

clORAZEPate: illicit, approved small molecule (0 associated side effects)
For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midAZOLAM: illicit, approved small molecule (119 associated side effects)
For use as a sedative perioperatively.

flURAZEPAM: illicit, approved small molecule (62 associated side effects)
For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halAZEPAM: illicit, approved small molecule (0 associated side effects)
Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diAZEPAM: illicit, approved small molecule (149 associated side effects)
Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxAZEPAM: approved small molecule (36 associated side effects)
For the treatment of anxiety disorders and alcohol withdrawal.

triAZOLAM: illicit, approved, withdrawn small molecule (66 associated side effects)
For the short-term treatment of insomnia.

clONAZEPAM: illicit, approved small molecule (228 associated side effects)
Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estAZOLAM: illicit, approved small molecule (131 associated side effects)
For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromAZEPAM: illicit, approved small molecule (47 associated side effects)
For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clOTIAZEPAM: illicit, approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

flUDIAZEPAM: illicit, approved small molecule (0 associated side effects)
Used for the short-term treatment of anxiety disorders.

prAZEPAM: illicit, approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

quAZEPAM: illicit, approved small molecule (0 associated side effects)
Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects)
Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Acidosis Acne Affect
labiality Ageusia Aggression Agitation Agranulocytosis
Akathisia Akinesia Alcohol poisoning Alopecia Altered
state of consciousness Amblyopia Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anger Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anterograde amnesia Anxiety Aortic dissection Apathy
Aphonia Apnoea Appetite disorder Arrhythmia Arterial
spasm Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrioventricular block Back pain Balance disorder Bladder
dysfunction Bladder pain Blindness Blood alkaline phosphatase
increased Blood bilirubin increased Blood disorder Blood
glucose decreased Blood thromboplastin decreased Body temperature
decreased Body temperature increased Borderline personality
disorder Bradycardia Bradyphrenia Brain oedema Breast
disorder Breast pain Breast swelling Bronchitis Bronchospasm
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chromaturia Clonic convulsion Clonus Clumsiness
Coagulopathy Cognitive disorder Coma Completed suicide
Confusional state Connective tissue disorder Constipation
Conversion disorder Convulsion Coordination abnormal Cough
Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Deafness Death Decreased appetite Dehydration
Delirium Delirium tremens Delusion Dependence
Depersonalisation Depressed level of consciousness Depressed
mood Depression Depressive symptom Derealisation Dermatitis
Dermatitis contact Dermatitis exfoliative Diarrhoea
Diplopia Discomfort Disinhibition Disorientation
Disturbance in attention Disturbance in sexual arousal
Dizziness Drooling Drug abuse Drug dependence Drug
eruption Drug intolerance Drug withdrawal convulsions Dry mouth
Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
infection Ear pain Ecchymosis Effusion Ejaculation delayed
Ejaculation failure Emotional disorder Emotional
distress Emotional poverty Encephalopathy Encopresis Endometrial
sarcoma Energy increased Enterocolitis Enuresis
Eosinophilia Epilepsy Epistaxis Erectile dysfunction

Erythema Erythema multiforme Euphoric mood
Extrapyramidal disorder Extrasystoles Eye disorder
Eye irritation Eye movement disorder Eye pain Eye
swelling Face oedema Faecal incontinence Fatigue Feeling
abnormal Feeling cold Feeling drunk Feeling hot Feeling
jittery Feeling of body temperature change Flat affect Flatulence
Floppy infant Flushing Fungal infection Gait disturbance
Galactorrhoea Gangrene Gastric disorder Gastritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal pain Gingival pain Glossitis Glossodynia
Gout Grand mal convulsion Gynaecomastia Haematoma
Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
Haemorrhage urinary tract Haemorrhoids Hallucination
Hangover Headache Hearing impaired Heart rate irregular
Hemiparesis Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatitis Hepatocellular injury
Hepatomegaly Herpes simplex Herpes virus infection
Hiccups Hirsutism Homicidal ideation Hordeolum
Hostility Hunger Hypercapnia Hyperhidrosis
Hyperkinesia Hyperprolactinaemia Hypersensitivity
Hypersomnia Hypertension Hypertonia Hyperventilation
Hypoesthesia Hypochromic anaemia Hypokinesia Hypomania
Hyponatraemia Hypopnoea Hyporeflexia Hypotension
Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
disorder Illusion Inappropriate antidiuretic hormone secretion
Incontinence Increased appetite Induration Infection
Infectious mononucleosis Infestation Inflammation
Influenza Injection site pain Injection site reaction
Insomnia Intraocular pressure increased Irritability
Jaundice Joint swelling Laryngitis Laryngospasm
Lethargy Leukocytosis Leukopenia Libido decreased
Libido increased Liver function test abnormal Liver injury
Local reaction Logorrhoea Loss of consciousness Loss of
libido Lung disorder Lymphadenopathy Major depression
Malaise Mania Mean arterial pressure Mediastinal disorder
Melaena Memory impairment Menstrual disorder
Menstruation irregular Mental disability Mental disorder
Mental retardation Micturition urgency Migraine
Miosis Mood swings Motion sickness Movement disorder
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle spasticity Muscle twitching Muscular weakness
Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
Nasal congestion Nasopharyngitis Nausea Neck pain
Necrosis Nervous system disorder Nervousness Neuritis
Neuroleptic malignant syndrome Neuropathy peripheral
Neutropenia Nightmare Nocturia Nodal rhythm Nodule
Nystagmus Obstruction Obstructive airways disorder Oedema
Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
hypotension Osteoarthritis Otitis media Pain Pain in extremity
Pain in jaw Pallor Palpitations Pancytopenia
Paraesthesia Paraesthesia oral Paralysis Paresis
Pelvic pain Penile discharge Pericardial effusion Periorbital
oedema Personality disorder Phaeochromocytoma Pharyngitis
Phlebitis Photophobia Photosensitivity reaction

Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Neutral amino acid transporter B(0) - Group: Transporter

Treated with:

- l-glutamine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.
- l-asparagine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

known side effects mediated through drugs targeting this protein:

Alpha-1B adrenergic receptor - Group: Receptor

Treated with:

midodrine: approved small molecule (44 associated side effects)

For the treatment of symptomatic orthostatic hypotension (OH).

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

dapiprazole: approved small molecule (0 associated side effects) Used in the treatment of iatrogenically induced mydriasis produced by adrenergic (phenylephrine) or parasympatholytic (tropicamide) agents used in certain eye examinations.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

alfuzosin: approved small molecule (92 associated side effects)

For the reduction of urinary obstruction and relief of associated manifestations (eg. sensation of incomplete bladder emptying or straining, urgency, interrupted or weak stream) in patients with symptomatic benign prostatic hyperplasia.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

promazine: approved small molecule (0 associated side effects)

Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

prazosin: approved small molecule (93 associated side effects)

For treatment of hypertension, symptomatic benign prostatic hyperplasia, and severe congestive heart failure. May also be used alone or in combination with β -blockers in the preoperative management of signs and symptoms of pheochromocytoma.

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

doxazosin: approved small molecule (243 associated side effects) For treatment and management of mild to moderate hypertension and urinary obstruction symptoms caused by BPH.

labetalol: approved small molecule (103 associated side effects) For the management of hypertension (alone or in combination with other classes of antihypertensive agents), as well as chronic stable angina pectoris and sympathetic overactivity syndrome associated with severe tetanus. Labetalol is used parenterally for immediate reduction in blood pressure in severe hypertension or in hypertensive crises when considered an emergency, for the control of blood pressure in patients with pheochromocytoma and pregnant women with preeclampsia, and to produce controlled hypotension during anesthesia to reduce bleeding resulting from surgical procedures.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

thioridazine: approved small molecule (92 associated side effects) For the treatment of schizophrenia and generalized anxiety disorder.

ergotamine: approved small molecule (15 associated side effects) For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

tamsulosin: approved small molecule (79 associated side effects) Used in the treatment of signs and symptoms of benign prostatic hyperplasia (reduction in urinary obstruction and relief of associated manifestations such as hesitancy, terminal dribbling of urine, interrupted or weak stream...etc.)

methoxamine: approved small molecule (0 associated side effects) Indicated for the treatment and management of hypotension.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

modafinil: approved small molecule (170 associated side effects) To improve wakefulness in patients with excessive daytime sleepiness (EDS) associated with narcolepsy.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved, withdrawn small molecule (246 associated side effects) For the treatment of depression.

terazosin: approved small molecule (115 associated side effects) For the treatment of symptomatic BPH and mild to moderate hypertension.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in

advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

lisdexamfetamine: approved small molecule (0 associated side effects) For the treatment of Attention Deficit/Hyperactivity Disorder (ADHD) in pediatric populations aged 6 to 12 years.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

dextroamphetamine: illicit, approved small molecule (0 associated side effects) Used to treat attention deficit hyperactivity disorder (ADHD).

phendimetrazine: illicit, approved small molecule (0 associated side effects) Used in the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction.

propericiazine: approved small molecule (0 associated side effects) For use as adjunctive medication in some psychotic patients. Propericiazine (Pericyazine) is used for the control of residual prevailing hostility, impulsiveness and aggressiveness.

acepromazine: approved small molecule (0 associated side effects) Acepromazine was first used in humans in the 1950s as an antipsychotic agent. It is now rarely used in humans. Acepromazine is frequently used in animals as a sedative and antiemetic. Its principal value is in quietening and calming anxious animals.

thiopropazine: approved small molecule (0 associated side effects) For the treatment of all types of acute and chronic schizophrenia, including those which did not respond to the usual neuroleptics; manic syndromes.

sertindole: approved, withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

droxidopa: approved small molecule (0 associated side effects)

For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

xylometazoline: approved small molecule (0 associated side effects) It is used for treating nasal congestion and minor inflammation due to allergies or colds.

1109 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abdominal tenderness
Abnormal dreams Abnormal faeces Abscess

Accommodation disorder Acidosis Acne Acute abdomen Acute
 coronary syndrome Acute lymphocytic leukaemia Acute psychosis
 Adenocarcinoma Adenoma benign Adjustment disorder
 Affect lability Affective disorder Ageusia Aggression
 Agitation Agoraphobia Agranulocytosis Akathisia Akinesia
 Alanine aminotransferase increased Albright's disease
 Albuminuria Alcohol intolerance Alkalosis Alopecia
 Altered state of consciousness Amblyopia Amenorrhoea
 Amnesia Anaemia Anaemia macrocytic Anaemia
 megaloblastic Anaphylactic shock Anaphylactoid reaction
 Aneurysm Anger Angina pectoris Angioedema Angiopathy Angle
 closure glaucoma Anorectal discomfort Anorgasmia Anoxia
 Antidiuretic hormone abnormality Antinuclear antibody
 positive Antisocial behaviour Antisocial personality disorder
 Anxiety Aortic dissection Apathy Aphasia Aphthous
 stomatitis Aplastic anaemia Apnoea Appendicitis Application
 site reaction Apraxia Arrhythmia Arterial disorder Arterial
 occlusive disease Arteriosclerosis Arteritis Arthralgia Arthritis
 Arthropathy Ascites Asocial behaviour Aspartate
 aminotransferase increased Asphyxia Aspiration Asthenia
 Asthma Ataxia Atelectasis Atrial fibrillation
 Atrial flutter Atrioventricular block first degree
 Atrophy Automatism Autonomic nervous system imbalance
 Azotaemia Back pain Balance disorder Basophilia Benign
 neoplasm Benign neoplasm of skin Benign prostatic hyperplasia
 Bladder cancer Bladder pain Blepharitis Blepharospasm
 Blindness Blister Blood alkaline phosphatase increased
 Blood antidiuretic hormone abnormal Blood bilirubin
 increased Blood cholesterol increased Blood creatine phosphokinase
 increased Blood creatinine increased Blood disorder Blood
 glucose decreased Blood glucose increased Blood insulin
 increased Blood iron decreased Blood lactate dehydrogenase
 increased Blood potassium decreased Blood potassium increased
 Blood pressure abnormal Blood pressure diastolic decreased
 Blood pressure fluctuation Blood pressure increased Blood
 pressure systolic decreased Blood prolactin increased Blood
 testosterone decreased Blood triglycerides increased Blood
 triglycerides normal Blood urea increased Blood uric acid
 increased Blood urine Blood urine present Blunted affect Body
 temperature decreased Body temperature increased Bone disorder
 Bone pain Bone sarcoma Bradycardia Bradykinesia
 Bradyphrenia Brain oedema Breast cancer Breast cyst
 Breast discharge Breast discomfort Breast disorder Breast
 disorder female Breast disorder male Breast engorgement
 Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breast tenderness Breath odour
 Bronchitis Bronchopneumonia Bronchopneumopathy
 Bronchospasm Bruxism Buccoglossal syndrome Bundle
 branch block Bundle branch block left Bundle branch block
 right Burning sensation Bursitis Cachexia Calculus urinary
 Cancer in remission Candidiasis Carbohydrate tolerance
 decreased Cardiac arrest Cardiac disorder Cardiac failure
 Cardiac failure congestive Cardiac fibrillation Cardiac
 flutter Cardiac murmur Cardiac valve disease Cardio-
 respiratory arrest Cardiomegaly Cardiomyopathy

Cardiopulmonary failure Cardiovascular disorder
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral haemorrhage Cerebral infarction
 Cerebral ischaemia Cerebrospinal fluid rhinorrhoea
 Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cervix carcinoma Chapped lips Cheilitis Chest
 discomfort Chest pain Chills Choking Cholecystitis
 Cholelithiasis Cholestasis Chorea Choreoathetosis
 Chronic obstructive pulmonary disease Coagulopathy
 Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat
 Colitis ischaemic Colitis ulcerative Collagen disorder Coma
 Completed suicide Condition aggravated Confusional state
 Congenital eye disorder Conjunctival disorder
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coordination abnormal Corneal lesion Coronary
 artery disease Costochondritis Cough Crocodile tears syndrome
 Crying Cyanosis Cystitis Cystitis noninfective
 Cytolytic hepatitis Dandruff Deafness Death Decreased
 appetite Decubitus ulcer Deep vein thrombosis Deficiency
 anaemia Dehydration Delirium Delusion Dementia Dementia
 with Lewy bodies Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Diabetes mellitus Diabetic coma
 Diabetic hyperglycaemic coma Diabetic hyperosmolar coma
 Diabetic ketoacidosis Diarrhoea Diplopia Discomfort
 Disease progression Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Dizziness exertional Dizziness postural
 Drooling Drug abuse Drug dependence Drug eruption Drug
 hypersensitivity Drug interaction Drug withdrawal syndrome Drug
 withdrawal syndrome neonatal Dry eye Dry mouth Dry skin Dry
 throat Duodenal ulcer Duodenitis Dysarthria Dysgeusia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dyspnoea Dystonia Dysuria Ear
 disorder Ear infection Ear pain Ecchymosis Eclampsia
 Eczema Effusion Ejaculation delayed Ejaculation
 disorder Ejaculation failure Elastosis perforans Elderly
 Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electrocardiogram normal Electroencephalogram
 abnormal Electrolyte imbalance Elevated mood Embolism
 Emphysema Encephalopathy Endocrine disorder Energy
 increased Enteritis Enuresis Eosinophil count increased
 Eosinophilia Epididymitis Epilepsy Epistaxis
 Erectile dysfunction Eructation Erythema Erythema
 multiforme Erythromelalgia Euphoric mood Exfoliative rash
 Exostosis Extrapyrarnidal disorder Extrasystoles
 Extravasation Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 movement disorder Eye pain Eye swelling Eyelid disorder

Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Faeces hard
 Fasting Fatigue Fear Feeling abnormal Feeling cold
 Feeling hot Feeling jittery Female sexual dysfunction
 Fibrocystic breast disease Fibrosis Flank pain Flat affect
 Flatulence Floppy iris syndrome Fluid retention Flushing
 Foetor hepaticus Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric disorder Gastric pH decreased Gastric
 ulcer Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital discharge Gestational
 hypertension Gingival bleeding Gingival pain Gingival
 recession Gingivitis Glaucoma Glossitis Glossodynia Glucose
 tolerance decreased Glucose tolerance impaired Glycosuria
 Glycosylated haemoglobin increased Goitre Gout Grand mal
 convulsion Groin pain Gynaecomastia Haematemesis
 Haematochezia Haematocrit decreased Haematoma Haematuria
 Haemoglobin Haemoglobin decreased Haemoglobin increased
 Haemoglobinuria Haemolysis Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhage intracranial Haemorrhoids
 Haemothorax Hair disorder Hallucination Hallucination,
 auditory Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemiparesis Hemiplegia Hepatic cirrhosis
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatic steatosis Hepatitis Hepatitis A
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hormone level abnormal Hostility Hot flush Hyperacusis
 Hyperaemia Hyperaesthesia Hyperbilirubinaemia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hypernatraemia
 Hyperparathyroidism Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersomnia Hypertension Hyperthermia
 Hyperthyroidism Hypertonia Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperuricosuria Hyperventilation Hypoaesthesia
 Hypoaesthesia oral Hypocalcaemia Hypochloraemia
 Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
 Hypogonadism Hypohidrosis Hypokalaemia Hypokinesia
 Hypomagnesaemia Hypomania Hypomenorrhoea Hyponatraemia
 Hypophagia Hypophosphataemia Hypoproteinaemia Hyporeflexia
 Hypotension Hypothermia Hypothyroidism Hypotonia
 Hypoventilation Hypovolaemia Hypoxia Idiopathic
 thrombocytopenic purpura Ileus Ileus paralytic Ill-defined
 disorder Immune system disorder Inappropriate antidiuretic hormone

secretion Incontinence Increased appetite Induration
Infarction Infection Infestation Inflammation Influenza
Influenza like illness Inguinal hernia Initial insomnia
Injection site mass Injection site pain Injection site
reaction Insomnia Intention tremor Intentional self-injury
Intermittent claudication Interstitial lung disease
Intervertebral disc disorder Intestinal functional disorder
Intestinal obstruction Intestinal perforation Intracranial
pressure increased Iron deficiency Iron deficiency anaemia
Irritability Irritable bowel syndrome Ischaemia
Ischaemic stroke Jaundice Jaundice cholestatic Joint
contracture Joint range of motion decreased Joint stiffness Joint
swelling Judgement impaired Keratitis Keratopathy
Ketoacidosis Ketosis Laboratory test abnormal
Lacrimation decreased Lacrimation increased Lactic acidosis
Laryngeal disorder Laryngeal oedema Laryngitis
Laryngospasm Leiomyoma Lens disorder Lenticular
opacities Lenticular pigmentation Lethargy Leukaemia
Leukocytosis Leukoderma Leukopenia Leukoplakia oral
Libido decreased Libido increased Lichen planus Lichenoid
keratosis Lip blister Lip dry Lip swelling Liver disorder
Liver function test abnormal Liver injury Local reaction
Localised infection Localised oedema Logorrhoea Loss of
consciousness Loss of libido Lower respiratory tract infection
Lung adenocarcinoma stage I Lung disorder Lung infiltration
Lung neoplasm malignant Lymphadenopathy Lymphocytosis
Lymphoedema Lymphopenia Maculopathy Major depression Malaise
Male sexual dysfunction Malignant melanoma Mania
Masked facies Mastitis Mediastinal disorder Megacolon
Melaena Memory impairment Meningitis Menopausal symptoms
Menopause Menorrhagia Menstrual disorder Menstruation
delayed Menstruation irregular Mental disability Mental disorder
Mental retardation Mental status changes Mesenteric artery
thrombosis Metabolic disorder Metrorrhagia Micturition
disorder Micturition urgency Middle insomnia Migraine
Miosis Mitral valve incompetence Mobility decreased
Monocytosis Mood swings Motion sickness Mouth ulceration
Movement disorder Muscle atrophy Muscle contractions
involuntary Muscle contracture Muscle enzyme increased
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle tightness Muscle twitching Muscular weakness
Musculoskeletal chest pain Musculoskeletal discomfort
Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenic syndrome
Mydriasis Myelitis Myocardial infarction Myocardial
ischaemia Myocarditis Myoclonus Myopathy Myopathy toxic
Myopia Myositis Nail disorder Narcolepsy Nasal
congestion Nasal disorder Nasal dryness Nasal obstruction Nasal
oedema Nasopharyngitis Nausea Neck pain Necrosis
Neoplasm Neoplasm malignant Neoplasm recurrence
Nephritis Nephrolithiasis Nephrotic syndrome Nervous
system disorder Nervousness Neuralgia Neuritis Neurodermatitis
Neuroleptic malignant syndrome Neurological symptom
Neuropathy peripheral Neurosis Neutropenia Neutrophil count
decreased Neutrophil count increased Night blindness Night

sweats Nightmare Nocturia Nodule Normochromic
normocytic anaemia Nuchal rigidity Nystagmus Obesity
Obsessive thoughts Obstruction Ocular hyperaemia Oculogyric
crisis Oculomucocutaneous syndrome Oedema Oedema peripheral
Oesophageal disorder Oesophageal ulcer Oesophagitis
Oligomenorrhoea Oliguria Onychomycosis Opisthotonus
Oral candidiasis Oral pain Orchitis noninfective
Oropharyngeal discomfort Oropharyngeal pain
Oropharyngeal spasm Orthostatic hypotension
Osteoarthritis Osteoarthropathy Osteodystrophy
Osteomyelitis Osteopenia Osteoporosis Otitis externa
Otitis media Otitis media chronic Ovarian cyst Pain
Pain in extremity Pain in jaw Pain of skin Pallor
Palpitations Pancreatitis Pancreatitis acute
Pancytopenia Panic attack Panic disorder Panic
disorder with agoraphobia Panic reaction Paraesthesia
Paraesthesia oral Paralysis Paranoia Paresis
Parkinsonian gait Parkinsonism Parosmia Parotid gland
enlargement Pathological fracture Pathological gambling Pelvic pain
Peptic ulcer Pericardial effusion Pericardial
haemorrhage Pericarditis Pericarditis constrictive Perineal
pain Periodontitis Periorbital oedema Peripheral coldness
Peripheral ischaemia Peripheral vascular disorder Personality
disorder Petechiae Petit mal epilepsy Phaeochromocytoma
Pharyngeal disorder Pharyngeal erythema Pharyngitis
Phlebitis Phlebitis superficial Phobia Phonological
disorder Photophobia Photopsia Photosensitivity reaction
Pigmentation disorder Piloerection Pituitary tumour
benign Platelet count decreased Pleural disorder Pleural
effusion Pleural fibrosis Pneumonia Pneumonia aspiration
Pneumothorax Poisoning Pollakiuria Polycythaemia
Polydipsia Polymyalgia rheumatica Polyp Polyuria Postural
orthostatic tachycardia syndrome Posture abnormal Pre-eclampsia
Precocious puberty Pregnancy Pregnancy test false
positive Pregnancy test positive Premature ejaculation
Premenstrual syndrome Presyncope Priapism Proctalgia
Productive cough Prolactinoma Prostatic disorder
Prostatitis Protein urine present Proteinuria Protrusion tongue
Pruritus Pruritus generalised Pruritus genital Psoriasis
Psychiatric symptom Psychomotor retardation Psychotic
disorder Puberty Pulmonary congestion Pulmonary embolism
Pulmonary fibrosis Pulmonary hypertension Pulmonary oedema
Pulse absent Purpura Purpura non-thrombocytopenic
Pyelonephritis Pyuria Rales Rash Rash erythematous Rash
generalised Rash maculo-papular Rash papular Rash pustular
Rash vesicular Raynaud's phenomenon Rectal haemorrhage
Rectal tenesmus Red blood cell count decreased Red blood
cell sedimentation rate increased Reflux oesophagitis Regressive
behaviour Renal failure Renal failure acute Renal impairment
Renal pain Respiratory alkalosis Respiratory arrest
Respiratory disorder Respiratory distress Respiratory
failure Respiratory tract congestion Respiratory tract infection
Respiratory tract infection viral Restless legs syndrome
Retching Retinal artery occlusion Retinal detachment
Retinal disorder Retinal vascular disorder Retinal vein

occlusion Retinitis pigmentosa Retrograde ejaculation
Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
Rhonchi Rosacea Salivary gland disorder Salivary
gland enlargement Salivary hypersecretion Salpingitis Sarcoidosis
Sarcoma Scab Schizoaffective disorder Schizophrenia
Schizophreniform disorder Sciatica Scleral disorder
Scotoma Seasonal allergy Seborrhoeic dermatitis Sedation
Semen analysis abnormal Sensation of heaviness Sensory
loss Sepsis Septic shock Severe acute respiratory syndrome
Sexual dysfunction Shock Sialoadenitis Sinus arrhythmia
Sinus bradycardia Sinus congestion Sinus disorder Sinus
headache Sinus tachycardia Sinusitis Skin cancer Skin
discolouration Skin disorder Skin exfoliation Skin hypertrophy
Skin irritation Skin lesion Skin mass Skin papilloma Skin
ulcer Sleep apnoea syndrome Sleep disorder Sleep paralysis Sleep
talking Sluggishness Small intestinal obstruction Sneezing
Social avoidant behaviour Somnambulism Somnolence
Speech disorder Splenomegaly Status epilepticus
Stevens-Johnson syndrome Stomatitis Stridor Stupor
Subarachnoid haemorrhage Subcutaneous abscess
Subcutaneous nodule Subdural haematoma Sudden death
Suicidal ideation Suicide attempt Superior sagittal sinus
thrombosis Supraventricular extrasystoles Supraventricular
tachycardia Surgery Suspiciousness Swelling Swelling face
Swollen tongue Syncope Synostosis Systemic lupus
erythematosus Tachycardia Tardive dyskinesia Tenderness
Tendinous contracture Tendon disorder Tendonitis
Tenosynovitis Tension Tension headache Teratogenicity
Testicular pain Testicular swelling Tetany Thinking
abnormal Thirst Thought blocking Throat tightness
Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
purpura Thyroid adenoma Thyroiditis Tic Tinnitus Tongue
discolouration Tongue disorder Tongue dry Tongue oedema
Tongue paralysis Tongue spasm Tonsillar hypertrophy
Tonsillitis Tooth abscess Tooth disorder Tooth hypoplasia
Tooth impacted Tooth infection Toothache Torsade de
pointes Torticollis Toxic epidermal necrolysis Tracheobronchitis
Transaminases increased Transient ischaemic attack
Tremor Trismus Tuberculin test positive
Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Unintended
pregnancy Unresponsive to stimuli Upper respiratory tract
infection Urethral disorder Urethral pain Urinary hesitation
Urinary incontinence Urinary retention Urinary tract disorder
Urinary tract infection Urine abnormality Urine analysis
abnormal Urine output increased Urosepsis Urticaria Uterine
disorder Uterine haemorrhage Uterine leiomyoma Uterovaginal
prolapse VIIIth nerve paralysis Vaginal discharge Vaginal
haemorrhage Vaginal infection Vaginal inflammation Varicose vein
Vascular purpura Vasculitis Vasoconstriction Vasodilation
procedure Vasospasm Venous occlusion Venous thrombosis Ventricular
arrhythmia Ventricular extrasystoles Ventricular fibrillation
Ventricular tachycardia Vertigo Viral diarrhoea Viral
infection Vision blurred Visual acuity reduced Visual impairment

Vomiting Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal bleed Withdrawal syndrome
 Xerophthalmia Xerosis Yawning

Potassium voltage-gated channel subfamily H member 6 - Group:
 Channel

Treated with:

ibutilide: approved small molecule (53 associated side effects)
 Indicated for the rapid conversion of atrial fibrillation or
 atrial flutter of recent onset to sinus rhythm.
 prazosin: approved small molecule (93 associated side effects)
 For treatment of hypertension, symptomatic benign prostatic
 hyperplasia, and severe congestive heart failure. May also be used
 alone or in combination with β-blockers in the preoperative
 management of signs and symptoms of pheochromocytoma.
 doxazosin: approved small molecule (243 associated side
 effects) For treatment and management of mild to moderate
 hypertension and urinary obstruction symptoms caused by BPH.
 miconazole: approved small molecule (33 associated side effects)
 For topical application in the treatment of tinea pedis
 (athlete's foot), tinea cruris, and tinea corporis caused
 by *Trichophyton rubrum*, *Trichophyton*
mentagrophytes, and *Epidermophyton*
floccosum, in the treatment of cutaneous candidiasis
 (moniliasis), and in the treatment of tinea versicolor.
 terazosin: approved small molecule (115 associated side
 effects) For the treatment of symptomatic BPH and mild to moderate
 hypertension.

311 known side effects mediated through drugs targeting this
 protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal dreams Acute coronary syndrome Affect lability
 Agitation Alopecia Amblyopia Amnesia Anaphylactic
 shock Anaphylactoid reaction Aneurysm Angina pectoris Angioedema
 Anorectal discomfort Anoxia Antinuclear antibody
 positive Anxiety Apathy Arrhythmia Arthralgia Arthritis
 Arthropathy Asthenia Asthma Ataxia Atrial
 fibrillation Atrioventricular block first degree
 Atrioventricular block second degree Back pain Bladder
 pain Blindness Blood creatine phosphokinase increased Blood
 creatinine increased Blood urea increased Blood uric acid
 increased Body temperature increased Bradycardia Breast disorder
 Breast neoplasm Breast pain Bronchitis Bronchospasm
 Bundle branch block Burning sensation Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cataract Cerebrovascular accident
 Cerebrovascular disorder Chest pain Chills
 Cholelithiasis Cholestasis Confusional state Congenital eye
 disorder Conjunctivitis Constipation Convulsion

Coordination abnormal Cough Crocodile tears syndrome
 Cystitis Cystitis noninfective Deafness Death Decreased
 appetite Dehydration Depersonalisation Dermatitis Dermatitis
 contact Diarrhoea Diplopia Discomfort Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Dizziness postural Dry mouth Dry skin
 Dysgeusia Dyskinesia Dyspepsia Dysphagia Dyspnoea
 Dysuria Ear infection Ear pain Eczema Ejaculation
 failure Electrocardiogram abnormal Encephalopathy
 Epididymitis Epistaxis Erectile dysfunction Erythema
 Extrasystoles Eye disorder Eye pain Face oedema
 Faecal incontinence Fatigue Feeling abnormal Flat affect
 Flatulence Floppy iris syndrome Flushing Fungal infection
 Gastric ulcer Gastritis Gastroenteritis Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrointestinal tract irritation
 Genital burning sensation Genital discharge Gingivitis Gout
 Gynaecomastia Haematocrit decreased Haematuria Haemoglobin
 decreased Haemorrhage Hallucination Headache Hepatic function
 abnormal Hepatitis cholestatic Hernia Herpes simplex
 Herpes virus infection Herpes zoster Hot flush
 Hyperglycaemia Hyperhidrosis Hypersensitivity
 Hypertension Hypertonia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypokalaemia Hypokinesia Hypophosphataemia
 Hypotension Hypotonia Ill-defined disorder Immune system
 disorder Incontinence Increased appetite Infarction
 Infection Influenza Influenza like illness Insomnia
 Intermittent claudication Ischaemia Jaundice Lacrimation
 increased Laryngospasm Leukocytosis Leukopenia Libido
 decreased Lichen planus Liver function test abnormal Loss of
 consciousness Lung neoplasm malignant Lymphadenopathy
 Malaise Melaena Menopausal symptoms Menopause
 Mental disability Mental disorder Micturition disorder
 Migraine Miosis Mood swings Movement disorder Muscle
 spasms Muscle twitching Muscular weakness Musculoskeletal
 discomfort Musculoskeletal pain Myalgia Myocardial infarction
 Myocardial ischaemia Myopia Nail disorder Narcolepsy
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Neoplasm Neoplasm malignant Nephrolithiasis Nervous
 system disorder Nervousness Neutropenia Nightmare Nodal arrhythmia
 Oedema Oedema peripheral Oesophagitis Oliguria
 Orthostatic hypotension Osteoarthritis Otitis media
 Pain Pain of skin Pallor Palpitations
 Pancreatitis Paraesthesia Paresis Parosmia
 Pelvic pain Perineal pain Peripheral ischaemia Pharyngitis
 Photophobia Photosensitivity reaction Platelet disorder
 Pneumonia Pollakiuria Polymyalgia rheumatica Polyuria
 Priapism Proctalgia Prostatic disorder Pruritus
 Pruritus genital Psoriasis Purpura Rash erythematous Rash
 maculo-papular Rash papular Rectal haemorrhage Rectal
 tenesmus Renal failure Renal pain Respiratory disorder
 Respiratory tract infection Retinal disorder Retrograde
 ejaculation Rhinitis Rhythm idioventricular Scleral disorder
 Scotoma Seborrhoeic dermatitis Semen analysis abnormal
 Sepsis Sexual dysfunction Shock Sinus bradycardia Sinus
 tachycardia Sinusitis Skin disorder Skin hypertrophy Somnolence

Speech disorder Subarachnoid haemorrhage Sudden death
 Supraventricular extrasystoles Supraventricular tachycardia
 Syncope Tachyarrhythmia Tachycardia Tendon disorder
 Tension Thinking abnormal Thirst Thrombocytopenia
 Tinnitus Tongue disorder Tooth disorder Tooth hypoplasia
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urticaria Vaginal discharge
 Vascular purpura Vasculitis Vasodilation procedure Ventricular
 arrhythmia Ventricular extrasystoles Ventricular tachycardia
 Vertigo Viral infection Vision blurred Visual acuity
 reduced Visual impairment Vomiting Vulvovaginal discomfort
 Vulvovaginal erythema Weight decreased Weight increased

Granulocyte-macrophage colony-stimulating factor receptor alpha
 chain - Group: Receptor

Treated with:

sargramostim: approved biotech (0 associated side effects)
 For the treatment of cancer and bone marrow transplant

known side effects mediated through drugs targeting this protein:

Calcium-activated potassium channel subunit alpha 1 - Group: Channel
 Treated with:

enflurane: approved small molecule (15 associated side effects)

Used for the induction and maintenance of general anaesthesia
 during surgery and cesarean section and also used for analgesia
 during vaginal delivery.

chlorzoxazone: approved small molecule (18 associated side
 effects) For the relief of discomfort associated with acute
 painful musculoskeletal conditions.

bendroflumethiazide: approved small molecule (0 associated
 side effects) For the treatment of high blood pressure and
 management of edema related to heart failure.

hydroflumethiazide: approved small molecule (38 associated
 side effects) Used as adjunctive therapy in edema associated with
 congestive heart failure, hepatic cirrhosis, and corticosteroid and
 estrogen therapy. Also used in the management of hypertension either
 as the sole therapeutic agent or to enhance the effect of other
 antihypertensive drugs in the more severe forms of hypertension.

hydrochlorothiazide: approved small molecule (226 associated
 side effects) For the treatment of high blood pressure and
 management of edema.

cromoglicic acid: approved small molecule (0 associated side
 effects) For the management of patients with bronchial asthma.
 Also used in the treatment of vernal keratoconjunctivitis, vernal
 conjunctivitis, and vernal keratitis.

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis
 (athlete's foot), tinea cruris, and tinea corporis caused
 by “Trichophyton rubrum“, “Trichophyton

mentagrophytes</i>, and <i>Epidermophyton floccosum</i>, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.
 diazoxide: approved small molecule (124 associated side effects) Used parentally to treat hypertensive emergencies. Also used to treat hypoglycemia secondary to insulinoma.
 halothane: approved small molecule (10 associated side effects)
 For the induction and maintenance of general anesthesia

320 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain Acute coronary syndrome
 Ageusia Agitation Agranulocytosis Albuminuria
 Alopecia Anaemia Anaphylactic shock Anaphylactoid reaction
 Angina pectoris Angioedema Antinuclear antibody positive
 Anuria Anxiety Aplastic anaemia Arrhythmia
 Arterial stenosis Arthralgia Arthritis Aspartate aminotransferase increased
 Assisted fertilisation Asthenia
 Asthma Ataxia Atrial fibrillation Atrial tachycardia
 Azotaemia Back pain Blindness Blood creatinine decreased
 Blood creatinine increased Blood immunoglobulin G decreased
 Blood pressure increased Blood urea increased Blood uric acid increased
 Body temperature increased Bradycardia
 Breast disorder Breast mass Breast pain Breath sounds abnormal
 Bronchospasm Burning sensation Bursitis Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac murmur Cataract Cellulitis
 Cerebral ischaemia Cerebrovascular accident Chest discomfort
 Chest pain Chills Choking sensation Chromaturia
 Colitis Coma Conduction disorder Confusional state
 Conjunctival haemorrhage Conjunctivitis Constipation
 Convulsion Coombs test positive Cough Cutaneous vasculitis
 Cytogenetic abnormality Deafness Decreased appetite
 Dehydration Dermatitis Dermatitis contact Dermatitis
 exfoliative Diabetes mellitus Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diarrhoea Diplopia Discomfort Disease progression
 Disturbance in sexual arousal Dizziness Drug interaction
 Dry mouth Dysaesthesia Dysgeusia Dyspepsia
 Dyspnoea paroxysmal nocturnal Dysuria Ear infection
 Ear pain Ecchymosis Effusion Electrocardiogram change
 Electrolyte depletion Electrolyte imbalance Embolism
 Emotional disorder Eosinophilia Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Essential hypertension
 Euphoric mood Extrapyrasidal disorder Extravasation
 Face oedema Fatigue Feeling abnormal Flank pain Flatulence
 Fluid retention Flushing Galactorrhoea Gastritis
 Gastroenteritis Gastrointestinal haemorrhage Gastrointestinal pain
 Genital burning sensation Genital discharge Glycosuria Gout
 Haematuria Haemoglobin Haemoglobin decreased Haemolytic anaemia
 Haemoptysis Haemorrhage Headache Hearing impaired
 Hepatic enzyme increased Hepatic failure Hepatic necrosis
 Hepatitis Herpes virus infection Herpes zoster Hirsutism
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperprolactinaemia Hyperpyrexia
 Hypersensitivity Hypertensive crisis Hyperthermia malignant

Hypertrophy Hyperuricaemia Hypoaesthesia Hypocapnia
 Hypochloroemia Hypokalaemia Hyponatraemia Hypotension
 Hypovolaemia Hypoxia Ileus Ill-defined disorder
 Immune system disorder Infarction Infection Infection
 susceptibility increased Influenza Injection site phlebitis
 Insomnia Irritability Ischaemia Jaundice Jaundice
 cholestatic Joint stiffness Ketoacidosis Lacrimation increased
 Laryngitis Lethargy Leukocytosis Leukopenia Libido
 decreased Loss of consciousness Lung infiltration Lung neoplasm
 Lymphadenopathy Malaise Mass Memory impairment Muscle
 spasms Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myocardial ischaemia Nasopharyngitis Nausea Neck pain
 Necrosis Neoplasm Nephritis Nephrotic syndrome
 Nervous system disorder Nervousness Neuropathy peripheral
 Neutropenia Nocturia Nocturnal dyspnoea Oedema
 Oedema peripheral Oliguria Optic nerve disorder Optic nerve
 infarction Optic neuritis Oropharyngeal discomfort
 Oropharyngeal pain Orthopnoea Orthostatic hypotension
 Ovarian disorder Pain Pain in extremity Painful respiration
 Palpitations Pancreatic necrosis Pancreatitis
 Pancreatitis acute Pancytopenia Papilloedema
 Paraesthesia Paralysis Parotid gland enlargement
 Pelvic pain Pemphigus Petechiae Pharyngitis Phlebitis
 Photophobia Photosensitivity reaction Pleural disorder
 Pleural effusion Pneumonia Polyneuropathy Polyuria
 Prostatic disorder Pruritus Pruritus genital Pulmonary
 congestion Pulmonary embolism Pulmonary eosinophilia Pulmonary
 function test decreased Pulmonary oedema Purpura
 Pyelonephritis Rash Red blood cell sedimentation rate
 increased Renal artery stenosis Renal failure acute Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory tract congestion Respiratory tract infection
 Rhabdomyolysis Rhinitis Rhinorrhoea Salivary
 hypersecretion Salmonellosis Scotoma Sedation Sensory
 loss Sexual dysfunction Shock Sialoadenitis Sinusitis Skin
 infection Sleep disorder Social avoidant behaviour Somnolence
 Supraventricular tachycardia Swelling face Syncope
 Tachycardia Tenderness Tension Thrombocytopenia Toxic
 epidermal necrolysis Tracheobronchitis Transient ischaemic attack
 Tremor Tubulointerstitial nephritis Upper respiratory
 tract infection Urethral disorder Urinary tract disorder Urinary
 tract infection Urine colour abnormal Urticaria Vaginal discharge
 Vascular purpura Vasculitis Vasculitis necrotising Ventricular
 extrasystoles Ventricular tachycardia Vertigo Vision
 blurred Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal discomfort Vulvovaginal erythema Weight
 decreased Weight increased Wheezing Xanthopsia

bacterial outer membrane - Group: Other

Treated with:

polymyxin b sulfate: approved small molecule (18 associated
 side effects) For treatment of infections of the urinary tract,

meninges, and blood stream, caused by susceptible strains of
<i>Pseudomonas aeruginosa&/i>.
colistin: approved small molecule (0 associated side effects)
For the treatment of acute or chronic infections due to
sensitive strains of certain gram-negative bacilli, particularly
<i>Pseudomonas aeruginosa&/i>.
colistimethate: approved small molecule (0 associated side
effects) For the treatment of acute or chronic infections due to
sensitive strains of certain gram-negative bacilli, particularly
<i>Pseudomonas aeruginosa&/i>.

18 known side effects mediated through drugs targeting this protein:
Albuminuria Apnoea Ataxia Azotaemia Body temperature
increased Dermatitis Dizziness Flushing Headache Meningism
Musculoskeletal stiffness Nuchal rigidity Pain
Paraesthesia Rash Somnolence Thrombophlebitis Urticaria

5-hydroxytryptamine 1D receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side
effects) For the acute treatment of migraine with or without aura
in adults.

ziprasidone: approved small molecule (251 associated side
effects) For the treatment of schizophrenia and related psychotic
disorders.

cabergoline: approved small molecule (96 associated side
effects) For the treatment of hyperprolactinemic disorders, either
idiopathic or due to prolactinoma (prolactin-secreting adenomas).
May also be used to manage symptoms of Parkinsonian Syndrome as
monotherapy during initial symptomatic management or as an adjunct
to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side
effects) For the treatment of the signs and symptoms of idiopathic
Parkinson's disease. Also used for the treatment of restless legs
syndrome.

zolmitriptan: approved small molecule (241 associated side
effects) For the acute treatment of adult migraine with or without
auras.

dihydroergotamine: approved small molecule (128 associated
side effects) For the acute treatment of migraine headaches with
or without aura and the acute treatment of cluster headache
episodes.

olanzapine: approved small molecule (393 associated side
effects) For the acute and maintenance treatment of schizophrenia
and related psychotic disorders, as well as acute treatment of manic
or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is
indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side
effects) For use in patients with treatment-resistant
schizophrenia.

pramipexole: approved small molecule (620 associated side
effects) For the treatment of signs and symptoms of idiopathic
Parkinson's disease

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

sumatriptan: approved small molecule (317 associated side effects)
For the treatment of migraine attacks with or without aura.

apomorphine: approved small molecule (45 associated side effects)
For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

risperidone: approved small molecule (532 associated side effects)
For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

almotriptan: approved small molecule (135 associated side effects)
For the treatment of acute migraine headache in adults

naratriptan: approved small molecule (185 associated side effects)
For the acute treatment of migraine attacks with or without aura in adults.

rizatriptan: approved small molecule (170 associated side effects)
For treatment of acute migraine attacks with or without aura.

frovatriptan: approved small molecule (148 associated side effects)
For the acute treatment of migraine attacks with or without aura in adults.

pergolide: approved, withdrawn small molecule (354 associated side effects)
Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects)
For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects)
For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects)
For the treatment of schizophrenia and related psychotic disorders.

paliperidone: approved small molecule (216 associated side effects)
For the treatment of schizophrenia.

yohimbine: approved small molecule (0 associated side effects)
Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

1333 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abortion spontaneous Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute myocardial infarction Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Adverse reaction Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antisocial behaviour Antisocial personality disorder Anxiety Aortic aneurysm Aortic dissection Apathy Aphasia Aphonia Aphthous stomatitis Apnoea Appendicitis Application site reaction Apraxia Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteriospasm coronary Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder disorder Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood electrolytes abnormal Blood glucose decreased Blood glucose increased Blood insulin increased Blood iron decreased Blood lactate dehydrogenase increased Blood phosphorus increased Blood potassium decreased Blood potassium increased Blood pressure abnormal Blood pressure diastolic decreased Blood pressure fluctuation Blood pressure increased Blood pressure systolic decreased Blood prolactin increased Blood testosterone decreased Blood triglycerides increased Blood triglycerides normal Blood urea increased Blood uric acid increased Blood urine Blood urine present Blunted affect Body temperature decreased Body temperature increased Bone disorder Bone neoplasm Bone pain Bone sarcoma Bradycardia

Bradykinesia Bradyphrenia Brain neoplasm Brain
 neoplasm benign Brain oedema Breast cancer Breast cyst
 Breast discharge Breast discomfort Breast disorder Breast
 disorder female Breast disorder male Breast engorgement
 Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breast tenderness Breath odour
 Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma
 Change of bowel habit Chapped lips Cheilitis Chest
 discomfort Chest pain Chills Choking Choking sensation
 Cholecystitis Cholecystitis chronic Cholelithiasis
 Cholestasis Chorea Choreoathetosis Chromaturia Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Coagulopathy Coccydynia Cognitive disorder Cogwheel
 rigidity Cold sweat Colitis ischaemic Colitis ulcerative Colon
 cancer Colorectal cancer Coma Completed suicide Compulsions
 Condition aggravated Confusional state Congenital anomaly
 Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival
 haemorrhage Conjunctivitis Connective tissue disorder
 Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal lesion Coronary artery
 disease Coronary artery occlusion Costochondritis Cough
 Crocodile tears syndrome Crying Cyanosis Cystitis
 Cystitis noninfective Cytolytic hepatitis Dandruff
 Deafness Death Decreased appetite Decubitus ulcer Deep
 vein thrombosis Deficiency anaemia Deformity Dehydration
 Delirium Delusion Dementia Dementia with Lewy bodies
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Dermatitis infected Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic coma Diabetic hyperglycaemic coma
 Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diarrhoea haemorrhagic
 Diplegia Diplopia Discomfort Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulitis Dizziness Dizziness exertional Dizziness

postural Drooling Drug abuse Drug dependence Drug eruption
 Drug hypersensitivity Drug ineffective Drug interaction Drug
 level increased Drug withdrawal syndrome Drug withdrawal
 syndrome neonatal Dry eye Dry mouth Dry skin Dry throat
 Duodenal ulcer Duodenal ulcer haemorrhage Duodenitis
 Dysaesthesia Dysarthria Dysentery Dysgeusia Dysgraphia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dyspnoea Dyspnoea exertional
 Dysthymic disorder Dystonia Dysuria Ear disorder
 Ear infection Ear pain Ecchymosis Eclampsia Eczema
 Effusion Ejaculation delayed Ejaculation disorder
 Ejaculation failure Elastosis perforans Elderly
 Electrocardiogram PR prolongation Electrocardiogram QT
 prolonged Electrocardiogram ST segment depression Electrocardiogram
 ST segment elevation Electrocardiogram T wave inversion
 Electrocardiogram abnormal Electrocardiogram change
 Electroencephalogram abnormal Electrolyte imbalance
 Embolism Emotional distress Emphysema Encephalopathy
 Endocrine disorder Endometrial cancer Endometrial
 neoplasm Endometriosis Energy increased Enteritis Enuresis
 Enzyme abnormality Eosinophil count increased
 Eosinophilia Epicondylitis Epididymitis Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythromelalgia Euphoric mood
 Exfoliative rash Exostosis Extrapyrarnidal disorder
 Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 movement disorder Eye oedema Eye pain Eye pruritus Eye
 swelling Eyelid disorder Eyelid function disorder Eyelid
 oedema Eyelid ptosis Face oedema Facial pain Facial paresis
 Faecal incontinence Faecalith Faecaloma Faeces
 discoloured Faeces hard Fallopiian tube disorder Fasciitis
 Fasting Fatigue Fear Feeling abnormal Feeling cold
 Feeling hot Feeling jittery Feeling of body temperature change
 Female sexual dysfunction Fibroadenoma of breast Fibrocystic
 breast disease Fibrosis Flank pain Flat affect Flatulence Fluid
 overload Fluid retention Flushing Foetor hepaticus
 Folliculitis Formication Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gallbladder
 cancer Gallbladder disorder Gamma-glutamyltransferase
 increased Gangrene Gastric cancer Gastric disorder Gastric
 haemorrhage Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal carcinoma Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal neoplasm Gastrointestinal obstruction
 Gastrointestinal pain Gastrointestinal stromal tumour
 Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Genital discharge Genitourinary tract
 neoplasm Gestational hypertension Gingival bleeding Gingival
 infection Gingival pain Gingivitis Glaucoma Glossitis
 Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia Haemangioma Haematemesis Haematochezia

Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemolysis
 Haemolytic anaemia Haemoptysis Haemorrhage Haemorrhage
 intracranial Haemorrhage urinary tract Haemorrhoids
 Haemothorax Hair disorder Hallucination Hallucination,
 auditory Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemianopia Hemiparesis Hemiplegia
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic neoplasm Hepatic neoplasm malignant Hepatic
 steatosis Hepatitis Hepatitis cholestatic Hepatobiliary disease
 Hepatocellular injury Hepatomegaly Hereditary disorder
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hydrocephalus Hyperacusis Hyperaemia Hyperaesthesia
 Hyperbilirubinaemia Hyperchloraemia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperinsulinism Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hyperlipidaemia Hypernatraemia
 Hyperparathyroidism Hyperpathia Hyperphagia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperreflexia Hypersensitivity Hypersexuality Hypersomnia
 Hypertension Hypertensive crisis Hyperthermia
 Hyperthyroidism Hypertonia Hypertonic bladder
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypervigilance Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypogonadism
 Hypohidrosis Hypokalaemia Hypokinesia Hypomagnesaemia
 Hypomania Hypomenorrhoea Hyponatraemia Hypophagia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovitaminosis
 Hypoxia Idiopathic thrombocytopenic purpura Ileus Ileus
 paralytic Ill-defined disorder Illusion Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Induration Infarction Infected cyst Infection
 Infestation Inflammation Influenza Influenza like illness
 Inguinal hernia Initial insomnia Injection site mass
 Injection site pain Injection site reaction Inner ear
 disorder Insomnia Intention tremor Intentional self-injury
 Intermittent claudication Interstitial lung disease
 Intervertebral disc degeneration Intervertebral disc disorder
 Intervertebral disc protrusion Intervertebral discitis
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intracranial pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic hepatitis Ischaemic stroke
 Jaundice Jaundice cholestatic Joint contracture Joint
 effusion Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratoconjunctivitis
 sicca Ketoacidosis Ketonuria Ketosis Laboratory test
 abnormal Labyrinthitis Lacrimal disorder Lacrimation increased

Lactose intolerance Laryngeal cancer Laryngeal disorder
 Laryngeal neoplasm Laryngeal oedema Laryngitis
 Laryngospasm Left ventricular failure Leiomyoma Lens
 disorder Lenticular opacities Lenticular pigmentation
 Lethargy Leukaemia Leukocytoclastic vasculitis
 Leukocytosis Leukoderma Leukopenia Leukoplakia oral
 Libido decreased Libido increased Lichenoid keratosis Lip
 and/or oral cavity cancer Lip dry Lip swelling Lipoatrophy
 Lipohypertrophy Lipoma Livedo reticularis Liver
 disorder Liver function test abnormal Liver injury Lividity
 Lobar pneumonia Localised infection Localised oedema
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung cancer metastatic Lung disorder
 Lung infiltration Lung neoplasm malignant Lymphadenitis
 Lymphadenopathy Lymphatic disorder Lymphocytic leukaemia
 Lymphocytosis Lymphoedema Lymphoma Lymphopenia Macular
 degeneration Macule Maculopathy Major depression Malaise
 Male sexual dysfunction Malignant melanoma Mania
 Masked facies Mass Mastitis Mediastinal disorder
 Melaena Melanocytic naevus Memory impairment Meniere's
 disease Meningitis Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation delayed Menstruation
 irregular Mental disability Mental disorder Mental retardation
 Mental status changes Metabolic alkalosis Metastasis
 Metastatic neoplasm Metrorrhagia Micturition disorder
 Micturition urgency Middle ear disorder Middle ear
 effusion Middle insomnia Migraine with aura Migraine without
 aura Miosis Mitral valve incompetence Mobility decreased
 Monarthrititis Monocytosis Monoplegia Mood swings Motion
 sickness Motor dysfunction Mouth ulceration Movement disorder
 Multiple myeloma Muscle atrophy Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle fatigue Muscle relaxant therapy Muscle rigidity
 Muscle spasms Muscle tightness Muscle twitching Muscular
 weakness Musculoskeletal chest pain Musculoskeletal deformity
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenic syndrome Mydriasis Myelitis Myocardial
 infarction Myocardial ischaemia Myocarditis Myoclonus Myopathy
 Myopia Myositis Nail disorder Nail infection
 Narcolepsy Nasal congestion Nasal disorder Nasal dryness
 Nasal inflammation Nasal oedema Nasal polyps
 Nasopharyngitis Nausea Neck pain Necrosis Necrosis
 ischaemic Neoplasm Neoplasm malignant Neoplasm prostate
 Neoplasm recurrence Neoplasm skin Nephritis
 Nephrolithiasis Nephrotic syndrome Nerve root lesion
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neurodermatitis Neurogenic bladder Neuroleptic malignant
 syndrome Neurological symptom Neuroma Neuropathy peripheral
 Neurosis Neutropenia Neutrophil count decreased Neutrophil
 count increased Night sweats Nightmare Nocturia Nodal
 arrhythmia Nodule Normochromic normocytic anaemia Nuchal
 rigidity Nystagmus Obesity Obsessive thoughts Obstruction
 Obstructive airways disorder Ocular hyperaemia Oculogyric crisis
 Oedema Oedema mouth Oedema peripheral Oesophageal

carcinoma Oesophageal disorder Oesophageal spasm Oesophageal
 stenosis Oesophageal ulcer Oesophagitis Oligomenorrhoea
 Oliguria Onychomycosis Opisthotonus Optic ischaemic
 neuropathy Optic nerve disorder Oral candidiasis Oral neoplasm
 benign Oral pain Oral pruritus Orchitis noninfective
 Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media chronic
 Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pain of skin Pallor Palpitations
 Pancreatitis acute Pancytopenia Panic attack Panic
 disorder Panic disorder with agoraphobia Panic reaction
 Papilloma Paraesthesia Paraesthesia oral Paralysis
 Paranoia Parasomnia Parathyroid disorder Parathyroid
 tumour Paresis Parkinsonian gait Parkinsonism Paronychia
 Parosmia Pathological fracture Pathological gambling
 Pelvic inflammatory disease Pelvic pain Penis disorder
 Peptic ulcer Pericardial effusion Pericarditis
 constrictive Perineal pain Periodontitis Periorbital
 oedema Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Peritoneal adhesions Personality change
 Personality disorder Petechiae Pharyngeal disorder
 Pharyngeal erythema Pharyngeal haemorrhage Pharyngeal oedema
 Pharyngitis Phlebitis Phlebitis superficial Phobia
 Phonological disorder Phonophobia Photophobia Photopsia
 Photosensitivity allergic reaction Photosensitivity reaction
 Pigmentation disorder Pituitary tumour Pituitary tumour
 benign Plasmacytoma Platelet count decreased Pleural
 disorder Pleural effusion Pleural fibrosis Pleurisy Pleuritic
 pain Pneumonia Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polycythaemia Polydipsia
 Polymyalgia rheumatica Polyp Polyuria Post procedural
 infection Postmenopausal haemorrhage Postural orthostatic
 tachycardia syndrome Posture abnormal Pre-eclampsia Precocious
 puberty Premature ejaculation Premenstrual syndrome Presyncope
 Priapism Prinzmetal angina Proctalgia Productive cough
 Prolactinoma Prostate cancer Prostatic adenoma Prostatic
 disorder Prostatitis Protein urine present Proteinuria Protrusion
 tongue Prurigo Pruritus Pruritus generalised Pruritus
 genital Pseudolymphoma Psoriasis Psychiatric symptom
 Psychomotor retardation Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary hypertension Pulmonary oedema Pulse abnormal
 Pulse absent Purpura Pyelonephritis Pyoderma
 Pyuria Radiculopathy Rales Rash Rash erythematous Rash
 generalised Rash maculo-papular Rash papular Rash pustular
 Rash vesicular Raynaud's phenomenon Rectal cancer
 Rectal haemorrhage Rectal tenesmus Red blood cell count
 decreased Red blood cell sedimentation rate increased Reflexes
 abnormal Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiration abnormal Respiratory alkalosis Respiratory

arrest Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal artery occlusion Retinal detachment
 Retinal disorder Retinal vascular disorder Retinal vascular
 occlusion Retinal vein thrombosis Retinitis pigmentosa
 Retrograde ejaculation Retroperitoneal fibrosis
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Rotator cuff syndrome Sacroiliitis Saliva altered
 Salivary duct obstruction Salivary gland disorder
 Salivary gland enlargement Salivary gland pain Salivary
 hypersecretion Salpingitis Sarcoidosis Sarcoma Scab
 Schizoaffective disorder Schizophrenia Schizophreniform
 disorder Sciatica Scleral disorder Scotoma Seasonal allergy
 Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of heaviness Sensation of pressure Sensory
 disturbance Sensory loss Sepsis Septic shock Severe
 acute respiratory syndrome Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sick sinus syndrome Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus disorder Sinus
 headache Sinus tachycardia Sinusitis Skin burning sensation Skin
 cancer Skin discolouration Skin disorder Skin exfoliation
 Skin hyperpigmentation Skin hypertrophy Skin infection Skin
 irritation Skin lesion Skin mass Skin odour abnormal Skin
 papilloma Skin tightness Skin ulcer Skin wrinkling Sleep
 apnoea syndrome Sleep attacks Sleep disorder Sleep talking
 Sluggishness Small intestinal obstruction Sneezing
 Snoring Social avoidant behaviour Somnambulism
 Somnolence Speech disorder Spinal osteoarthritis Spine
 malformation Splenic infarction Splenomegaly Spondylitis
 Sputum increased Squamous cell carcinoma Status
 epilepticus Stevens-Johnson syndrome Sticky skin Stomatitis
 Stress Stridor Stupor Subarachnoid haemorrhage
 Subcutaneous abscess Subcutaneous nodule Subdural
 haematoma Substance abuse Sudden death Suicidal ideation
 Suicide attempt Superior sagittal sinus thrombosis
 Supraventricular extrasystoles Supraventricular tachycardia
 Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Synovitis Systemic
 lupus erythematosus Tachyarrhythmia Tachycardia Tachypnoea
 Tardive dyskinesia Temperature intolerance Temporal
 arteritis Tenderness Tendonitis Tenosynovitis Tension
 Tension headache Terminal insomnia Testicular disorder
 Testicular pain Tetany Therapeutic response decreased
 Therapeutic response increased Thinking abnormal Thirst
 Thought blocking Throat irritation Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid adenoma Thyroid cancer Thyroid neoplasm
 Thyroiditis Tic Tinnitus Tongue discolouration Tongue
 disorder Tongue dry Tongue oedema Tongue paralysis Tongue
 spasm Tongue ulceration Tonsillar hypertrophy Tonsillitis Tooth
 abscess Tooth disorder Tooth impacted Tooth infection
 Toothache Torsade de pointes Torticollis Toxic epidermal

necrosis Tracheitis Tracheobronchitis Transaminases increased
Transient ischaemic attack Tremor Trismus Tuberculin
test positive Tubulointerstitial nephritis Ulcer Ulcer haemorrhage
Umbilical hernia Unevaluable event Unintended pregnancy
Unresponsive to stimuli Upper respiratory tract infection
Upper-airway cough syndrome Urethral disorder Urethral pain
Urethritis Urinary hesitation Urinary incontinence
Urinary retention Urinary tract disorder Urinary tract
infection Urine abnormality Urine analysis abnormal Urine
output increased Urogenital disorder Urosepsis Urticaria
Uterine disorder Uterine haemorrhage Uterine leiomyoma
Uterine neoplasm Uterovaginal prolapse VIIIth nerve paralysis
Vaginal discharge Vaginal haemorrhage Vaginal infection
Vaginal inflammation Varicose vein Vascular headache
Vascular occlusion Vascular purpura Vasculitis
Vasoconstriction Vasodilation procedure Vasospasm Vein
disorder Venous thrombosis Ventricular arrhythmia Ventricular
extrasystoles Ventricular failure Ventricular fibrillation
Ventricular hypertrophy Ventricular tachycardia
Vertigo Vestibular ataxia Vestibular disorder Viral
diarrhoea Viral infection Vision blurred Visual acuity reduced
Visual impairment Vitamin B12 deficiency Vitreous detachment
Vitreous floaters Vocal cord paralysis Vomiting
Vulvovaginal candidiasis Vulvovaginal dryness
Vulvovaginal mycotic infection Vulvovaginal pruritus
Vulvovaginitis Water intoxication Weight decreased
Weight fluctuation Weight increased Wheezing White blood
cell count decreased White blood cell count increased White blood
cells urine positive Withdrawal bleed Withdrawal syndrome Wound
infection Xerophthalmia Xerosis Yawning

Acetylcholine receptor subunit epsilon - Group: Channel

Treated with:

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

160 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Aggression Agitation
Anaemia Anxiety Apathy Aphasia Apraxia
Arrhythmia Arrhythmia supraventricular Arthralgia Arthritis
Asthenia Ataxia Atrial fibrillation Atrioventricular
block Back pain Bladder pain Blood alkaline phosphatase
increased Blood urea increased Body temperature increased Bone
pain Bradycardia Bronchitis Bundle branch block Cardiac failure
Cardiac fibrillation Cardiovascular disorder Cataract
Cerebrovascular accident Cerebrovascular disorder Chest
pain Coagulopathy Completed suicide Confusional state
Constipation Convulsion Cough Cystitis Cystitis
noninfective Decreased appetite Dehydration Delirium
Depression Dermatitis Diarrhoea Discomfort Disturbance in

sexual arousal Diverticulitis Dizziness Dry mouth Dysgeusia
 Dyspepsia Dysphagia Electrocardiogram QT prolonged
 Electrocardiogram T wave inversion Epistaxis Eye disorder
 Fatigue Feeling abnormal Flat affect Flatulence Gastric
 disorder Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperkinesia Hypersensitivity Hypersomnia
 Hypertension Hypertonia Hypokalaemia Hypokinesia
 Hypotension Ill-defined disorder Immune system disorder
 Incontinence Infarction Infection Insomnia Ischaemia
 Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Mental disorder Muscle contractions involuntary
 disorder Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nausea
 Nephrolithiasis Nervous system disorder Nervousness
 Neuropathy peripheral Nightmare Nocturia Oedema
 Oedema peripheral Oesophageal disorder Oesophageal
 perforation Orthostatic hypotension Pain in extremity
 Palpitations Paraesthesia Paranoia Pneumonia
 Pollakiuria Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Salivary hypersecretion Shock Somnolence
 Suicidal ideation Suicide attempt Supraventricular tachycardia
 Syncope Tachycardia Tension Thrombocytopenia
 Thrombocytosis Tinnitus Transient ischaemic attack
 Tremor Upper respiratory tract infection Urethral disorder
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Vascular dementia Vascular purpura
 Ventricular tachycardia Vertigo Vision blurred
 Vomiting Weight decreased

Potassium channel subfamily K member 3 - Group: Channel

Treated with:

doxapram: approved small molecule (47 associated side effects)

For use as a temporary measure in hospitalized patients with acute respiratory insufficiency superimposed on chronic obstructive pulmonary disease.

halothane: approved small molecule (10 associated side effects)

For the induction and maintenance of general anesthesia

55 known side effects mediated through drugs targeting this protein:

Agitation Albuminuria Anxiety Arrhythmia Blood pressure
 increased Body temperature increased Bronchospasm Cardiac
 arrest Cardiac fibrillation Cardiovascular disorder Chest
 discomfort Chest pain Chills Clonus Convulsion Cough
 Diarrhoea Disorientation Dizziness Dyskinesia Dyspnoea
 Feeling hot Flushing Haemolysis Hallucination Headache
 Hepatic necrosis Hiccups Hyperhidrosis Hyperkinesia
 Hyperpyrexia Hyperreflexia Hyperventilation Hypotension
 Hypoventilation Hypoxia Laryngospasm Leukopenia
 Muscle contractions involuntary Muscle spasticity Mydriasis

Nausea Necrosis Pain Paraesthesia Phlebitis
Pruritus Respiratory arrest Respiratory failure
Tachycardia Tachypnoea Urinary retention Ventricular
fibrillation Ventricular tachycardia Vomiting

Nucleoside-specific channel-forming protein tsx precursor - Group: Channel

Treated with:

uridine: experimental small molecule (0 associated side effects)
deoxythymidine: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Glucagon-like peptide 2 receptor - Group: Receptor

Treated with:

glucagon recombinant: approved biotech (0 associated side effects) For treatment of severe hypoglycemia, also used in gastrointestinal imaging

known side effects mediated through drugs targeting this protein:

Serine/threonine-protein kinase receptor R3 - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Sodium-dependent proline transporter - Group: Transporter

Treated with:

l-proline: approved, nutraceutical small molecule (0 associated side effects) L-Proline is extremely important for the proper functioning of joints and tendons and also helps maintain and strengthen heart muscles.

known side effects mediated through drugs targeting this protein:

Beta-2 adrenergic receptor - Group: Receptor

Treated with:

betaxolol: approved small molecule (211 associated side effects) For the management of hypertension.
metoprolol: approved small molecule (132 associated side effects) For the management of acute myocardial infarction, angina

pectoris, heart failure and mild to moderate hypertension. May be used to treat supraventricular and tachyarrhythmias and as prophylaxis for migraine headaches.

norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.

timolol: approved small molecule (149 associated side effects) In its oral form it is used to treat high blood pressure and prevent heart attacks, and occasionally to prevent migraine headaches. In its ophthalmic form it is used to treat open-angle and occasionally secondary glaucoma.

dipivefrin: approved small molecule (12 associated side effects)

Dipivefrin is a prodrug which is used as initial therapy for the control of intraocular pressure in chronic open-angle glaucoma.

sotalol: approved small molecule (99 associated side effects)

For the maintenance of normal sinus rhythm [delay in time to recurrence of atrial fibrillation/atrial flutter (AFIB/AFL)] in patients with symptomatic AFIB/AFL who are currently in sinus rhythm. Also for the treatment of documented life-threatening ventricular arrhythmias.

carteolol: approved small molecule (43 associated side effects)

For the treatment of intraocular hypertension and chronic open-angle glaucoma

propranolol: approved small molecule (96 associated side effects) For the prophylaxis of migraine.

labetalol: approved small molecule (103 associated side effects) For the management of hypertension (alone or in combination with other classes of antihypertensive agents), as well as chronic stable angina pectoris and sympathetic overactivity syndrome associated with severe tetanus. Labetalol is used parenterally for immediate reduction in blood pressure in severe hypertension or in hypertensive crises when considered an emergency, for the control of blood pressure in patients with pheochromocytoma and pregnant women with preeclampsia, and to produce controlled hypotension during anesthesia to reduce bleeding resulting from surgical procedures.

bisoprolol: approved small molecule (172 associated side effects) For management of heart failure, angina pectoris, and mild to moderate hypertension and for secondary prevention of myocardial infarction (MI).

orciprenaline: approved small molecule (14 associated side effects) For the treatment of bronchospasm, chronic bronchitis, asthma, and emphysema.

dobutamine: approved small molecule (18 associated side effects)

For inotropic support in the short-term treatment of patients with cardiac decompensation due to depressed contractility resulting either from organic heart disease or from cardiac surgical procedures

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic

rhinitis, croup, sinusitis, otitis media, and tracheobronchitis.
Also used as first-line therapy of priapism.

alprenolol: approved small molecule (0 associated side effects)

For the treatment of hypertension, angina, and arrhythmia

ritodrine: approved small molecule (0 associated side effects)

For the treatment and prophylaxis of premature labour

terbutaline: approved small molecule (33 associated side effects)
For the prevention and reversal of bronchospasm in patients 12 years of age and older with reversible, obstructive airway disease, as well as symptomatic management of reversible bronchospasm associated with bronchitis and emphysema. Also used acute IV and sub-Q therapy in selected women to inhibit uterine contractions in preterm labor (tocolysis) and prolong gestation when beneficial.

bitolterol: withdrawn small molecule (0 associated side effects)

Used to dilate air passages in the lungs that have become narrowed as a result of disease or inflammation. It is used in the treatment of asthma and chronic obstructive pulmonary disease (COPD).

phenoxybenzamine: approved small molecule (9 associated side effects)
For the treatment of pheochromocytoma (malignant), benign prostatic hypertrophy and malignant essential hypertension.

salmeterol: approved small molecule (113 associated side effects)
For the treatment of asthma and chronic obstructive pulmonary disease (COPD).

pindolol: approved small molecule (95 associated side effects)

For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

formoterol: approved small molecule (151 associated side effects)
For use as long-term maintenance treatment of asthma in patients 6 years of age and older with reversible obstructive airways disease, including patients with symptoms of nocturnal asthma, who are using optimal corticosteroid treatment and experiencing regular or frequent breakthrough symptoms requiring use of a short-acting bronchodilator. Not indicated for asthma that can be successfully managed with occasional use of an inhaled, short-acting beta2-adrenergic agonist. Also used for the prevention of exercise-induced bronchospasm, as well as long-term treatment of bronchospasm associated with COPD.

salbutamol: approved small molecule (153 associated side effects)
For symptomatic relief and prevention of bronchospasm due to bronchial asthma, chronic bronchitis, and other chronic bronchopulmonary disorders such as COPD.

isoproterenol: approved small molecule (26 associated side effects)
For the treatment of mild or transient episodes of heart block that do not require electric shock or pacemaker therapy also used in management of asthma and chronic bronchitis

arbutamine: approved small molecule (0 associated side effects)

Used to elicit acute cardiovascular responses (cardiac stimulant), similar to those produced by exercise, in order to aid in diagnosing the presence or absence of coronary artery disease (CAD) in patients who cannot exercise adequately.

carvedilol: approved small molecule (198 associated side effects)
For the treatment of mild or moderate (NYHA class II or III) heart failure of ischemic or cardiomyopathic origin.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

acebutolol: approved small molecule (113 associated side effects) For the management of hypertension and ventricular premature beats in adults.

nadolol: approved small molecule (71 associated side effects) Used in cardiovascular disease to treat arrhythmias, angina pectoris, and hypertension.

levobunolol: approved small molecule (49 associated side effects) For lowering intraocular pressure (IOP) and may be used in patients with chronic open-angle glaucoma or ocular hypertension.

metipranolol: approved small molecule (38 associated side effects) Indicated in the treatment of elevated intraocular pressure in patients with ocular hypertension or open angle glaucoma.

arformoterol: approved small molecule (0 associated side effects) A bronchodilator used for the long term, symptomatic treatment of reversible bronchoconstriction in patients with chronic obstructive pulmonary disease (COPD), including chronic bronchitis and emphysema.

fenoterol: approved small molecule (0 associated side effects) Fenoterol is used for the treatment of asthma.

pirbuterol: approved small molecule (53 associated side effects) For the prevention and reversal of bronchospasm in patients 12 years of age and older with reversible bronchospasm including asthma.

bevantolol: approved small molecule (0 associated side effects) For the treatment of angina pectoris and hypertension.

penbutolol: approved small molecule (0 associated side effects) Used in the treatment of high blood pressure.

ephedra: approved, withdrawn, nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

procaterol: approved small molecule (0 associated side effects) For the treatment of asthma and chronic obstructive pulmonary disease (COPD).

clenbuterol: approved small molecule (0 associated side effects) Used as a bronchodilator in the treatment of asthma patients.

bambuterol: approved small molecule (0 associated side effects) For the prevention and reversal of bronchospasm in patients 12 years of age and older with asthma and reversible bronchospasm associated with bronchitis and emphysema.

oxprenolol: approved small molecule (0 associated side effects) Used in the treatment of hypertension, angina pectoris, arrhythmias, and anxiety.

nebivolol: approved small molecule (54 associated side effects) For the treatment of essential hypertension.

indacaterol: approved small molecule (0 associated side effects)

droxidopa: approved small molecule (0 associated side effects)
 For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

(2s)-1-(9h-carbazol-4-yloxy)-3-(isopropylamino)propan-2-ol:
 experimental small molecule (0 associated side effects)

bopindolol: approved small molecule (0 associated side effects)
 For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

bupranolol: approved small molecule (0 associated side effects)
 Used to manage hypertension and tachycardia. Also used to treat glaucoma.

590 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain upper Abnormal dreams Abscess Acidosis
 Acne Acute coronary syndrome Acute myocardial infarction
 Acute pulmonary oedema Affect lability Ageusia Aggression
 Agitation Agranulocytosis Alanine aminotransferase increased
 Albuminuria Alkalosis Alopecia Altered state of
 consciousness Amnesia Anaemia Anaphylactic shock
 Anaphylactoid reaction Angina pectoris Angina unstable
 Angioedema Angiopathy Anosmia Antibody test positive
 Anxiety Aortic dissection Aphasia Aplastic anaemia
 Appetite disorder Arrhythmia Arterial disorder Arterial
 insufficiency Arterial stenosis Arterial thrombosis
 Arteriosclerosis Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asthenia Asthma Ataxia
 Atrial fibrillation Atrial flutter Atrial tachycardia
 Atrioventricular block Atrioventricular block complete
 Atrioventricular block second degree Back pain Balance
 disorder Bladder dilatation Bladder pain Blepharitis
 Blindness Blood alkaline phosphatase increased Blood
 bilirubin increased Blood creatinine increased Blood glucose
 increased Blood insulin increased Blood lactate dehydrogenase
 increased Blood pressure increased Blood pressure systolic
 increased Blood triglycerides increased Blood urea increased
 Blood uric acid increased Body temperature increased Bone
 disorder Bone pain Bradycardia Breast abscess Breast
 enlargement Breast neoplasm Breast pain Bronchial obstruction
 Bronchitis Bronchospasm Bronchospasm paradoxical
 Bundle branch block Candidiasis Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure acute Cardiac failure
 congestive Cardiac fibrillation Cardiac flutter Cardiac output
 decreased Cardioactive drug level Cardiomegaly
 Cardiomyopathy Cardiovascular disorder Cataract
 Catatonia Cerebral haemorrhage Cerebral infarction
 Cerebral ischaemia Cerebrovascular accident
 Cerebrovascular disorder Chest discomfort Chest pain

Chills Choking Cholinergic syndrome Choreoathetosis
 Choroidal detachment Colitis Colitis ischaemic Collagen
 disorder Coma Confusional state Congenital eye disorder
 Conjunctival disorder Conjunctival hyperaemia
 Conjunctivitis Constipation Convulsion Coordination
 abnormal Corneal staining Coronary artery disease Coronary
 artery insufficiency Cough Crocodile tears syndrome Crystal
 urine Crystalluria Cutaneous vasculitis Cyanosis Cystitis
 Cystitis noninfective Cystoid macular oedema Deafness Death
 Decreased appetite Dehydration Delusion Dependence
 Depressed level of consciousness Depression Dermatitis
 Dermatitis contact Dermatitis exfoliative Dermatitis
 psoriasiform Device capturing issue Diabetes mellitus Diarrhoea
 Diplopia Discomfort Disorientation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drug abuse Drug dependence Drug eruption Drug
 interaction Drug level increased Dry eye Dry mouth Dry skin
 Dry throat Dysarthria Dysgeusia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphonia Dyspnoea Dyspnoea exertional
 Dysuria Ear disorder Ear infection Ear pain
 Eclampsia Eczema Ejaculation failure Electrocardiogram
 PR interval Electrocardiogram QT prolonged Electrocardiogram ST
 segment Electrocardiogram ST segment depression Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Embolism Emotional distress Encephalopathy
 Eosinophilia Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythema of eyelid
 Extrapyrarnidal disorder Extrasystoles Extravasation
 Eye disorder Eye haemorrhage Eye infection Eye
 irritation Eye pain Eye pruritus Eyelid ptosis Fasting
 Fatigue Fear Feeling abnormal Feeling cold
 Fibroadenoma of breast Fibrosis Flatulence Fluid overload
 Fluid retention Flushing Food allergy Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric disorder Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal infection Gastrointestinal pain
 Gastrointestinal tract irritation Generalised oedema
 Glaucoma Glossitis Glucose tolerance decreased Glycosuria
 Gout Grand mal convulsion Gravitational oedema Growth
 hormone deficiency Gynaecomastia Haematuria Haemoglobin
 Haemorrhage Hallucination Headache Hearing impaired
 Hemiplegia Hepatic enzyme increased Hepatic function
 abnormal Hepatic necrosis Hepatitis Hepatomegaly Hernia
 Herpes simplex Herpes virus infection Herpes zoster High
 density lipoprotein decreased Hot flush Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hypercalciuria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperinsulinism Hyperkalaemia Hyperkinesia
 Hyperlipidaemia Hypersensitivity Hypertension
 Hyperthyroidism Hypertonia Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypoglycaemia Hypokalaemia Hypokinesia
 Hypomania Hyponatraemia Hypotension Hypothyroidism
 Hypotonia Hypovolaemia Hypoxia Ileus paralytic Ill-

defined disorder Immune system disorder Inappropriate antidiuretic
 hormone secretion Incontinence Increased appetite Increased
 bronchial secretion Infarction Infection Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intermittent claudication Interstitial lung
 disease Intraocular pressure increased Iridocyclitis
 Iritis Irritability Ischaemia Ischaemic
 cardiomyopathy Jaundice Jaundice cholestatic Keratitis
 Lacrimation increased Lactic acidosis Laryngitis
 Laryngospasm Left ventricular failure Lethargy
 Leukaemia Leukocytoclastic vasculitis Leukocytosis
 Leukopenia Libido decreased Lichen planus Liver disorder
 Liver function test abnormal Local reaction Loss of
 consciousness Loss of libido Lower respiratory tract infection
 Lung disorder Lung neoplasm malignant Lymphadenitis
 Lymphadenopathy Macular oedema Malaise Mediastinal
 disorder Melaena Memory impairment Menopausal symptoms
 Menstrual disorder Mental disability Mental disorder
 Mesenteric artery thrombosis Metabolic acidosis Metabolic
 disorder Micturition disorder Migraine Miosis Mood swings
 Mouth ulceration Multiple pregnancy Muscle contracture
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenia gravis Mydriasis Myocardial infarction Myocardial
 ischaemia Myoclonus Myopathy toxic Myositis Nasal congestion
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Nephrolithiasis Nervous system
 disorder Nervousness Neuralgia Neuroleptic malignant syndrome
 Neuropathy peripheral Nightmare Nocturia Nodal arrhythmia
 Nuchal rigidity Obstruction Oculomucocutaneous syndrome
 Oedema Oedema peripheral Oliguria Oral candidiasis
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pallor Palpitations Pancytopenia Paraesthesia
 Paraesthesia oral Paralysis Paresis Parotid gland
 enlargement Pelvic pain Pemphigoid Peptic ulcer Periodontitis
 Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Personality disorder Petechiae Phaeochromocytoma
 Pharyngitis Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Pleuritic pain Pneumonia Poisoning
 Pollakiuria Polyuria Pressure of speech Presyncope
 Productive cough Prostatitis Protein urine present Proteinuria
 Prothrombin level decreased Pruritus Psoriasis Psychotic
 disorder Pulmonary congestion Pulmonary oedema Punctate
 keratitis Pupils unequal Purpura Purpura non-thrombocytopenic
 Pyuria Rales Rash Rash erythematous Rash generalised Rash
 maculo-papular Rash papular Raynaud's phenomenon Rectal
 haemorrhage Renal artery stenosis Renal colic Renal failure Renal
 failure acute Renal impairment Renal pain Respiratory alkalosis
 Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retching Retinal vascular disorder Retroperitoneal
 fibrosis Retroperitoneal haemorrhage Rheumatoid arthritis
 Rhinitis Rhinitis allergic Rhinorrhoea Salivary

hypersecretion Scab Scleroderma Scotoma Sedation Sensation
of foreign body Sensory loss Serositis Sexual dysfunction
Shock Sicca syndrome Sinoatrial block Sinus arrest Sinus
bradycardia Sinus congestion Sinus headache Sinus rhythm Sinus
tachycardia Sinusitis Skin discolouration Skin disorder Skin
exfoliation Skin hyperpigmentation Skin hypertrophy Skin irritation
Skin lesion Skin necrosis Skin ulcer Sleep disorder
Sneezing Social avoidant behaviour Somnolence Speech
disorder Sputum increased Status asthmaticus Stomatitis
Stridor Stupor Subarachnoid haemorrhage Sudden
death Supraventricular tachycardia Swelling Swelling face
Syncope Systemic lupus erythematosus Tachyarrhythmia
Tachycardia Talipes Tenderness Tendinous contracture
Tendonitis Tension Testicular swelling Thinking abnormal
Thirst Thought blocking Throat irritation Thrombocytopenia
Thrombocytopenic purpura Thrombophlebitis Thrombosis
Tinnitus Tongue discolouration Tongue ulceration Tooth
abscess Toothache Toxic epidermal necrolysis Toxicity to
various agents Tracheitis Tracheobronchitis Transaminases
increased Tremor Type I hypersensitivity Ulcer Upper
respiratory tract infection Urethral disorder Urinary incontinence
Urinary retention Urinary tract disorder Urinary tract
infection Urine abnormality Urine analysis abnormal Urine
output increased Urogenital disorder Urticaria Uterovaginal
prolapse Uveitis Varicella Vascular anomaly Vascular
insufficiency Vascular purpura Vascular resistance systemic
Vasculitis Vasoconstriction Vasodilation procedure Ventricular
arrhythmia Ventricular extrasystoles Ventricular fibrillation
Ventricular tachycardia Vertigo Viral diarrhoea Viral
infection Vision blurred Visual acuity reduced Visual impairment
Vitreous disorder Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Weight decreased Weight
increased Wheezing Yawning

Membrane protein involved in aromatic hydrocarbon degradation -
Group: Other
Treated with:
(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Muscarinic acetylcholine receptor M5 - Group: Receptor
Treated with:
ziprasidone: approved small molecule (251 associated side
effects) For the treatment of schizophrenia and related psychotic
disorders.
amitriptyline: approved small molecule (109 associated side
effects) For the treatment of depression, chronic pain, irritable
bowel syndrome, sleep disorders, diabetic neuropathy, agitation and
insomnia, and migraine prophylaxis.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

metixene: approved small molecule (0 associated side effects)
Used for the symptomatic treatment of parkinsonism.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

trihexyphenidyl: approved small molecule (43 associated side effects) Indicated for the treatment of parkinson's disease and extrapyramidal reactions caused by drugs.

promazine: approved small molecule (0 associated side effects)
Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

darifenacin: approved small molecule (69 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

atropine: approved small molecule (161 associated side effects) For the treatment of poisoning by susceptible organophosphorous nerve agents having cholinesterase activity as well as organophosphorous or carbamate insecticides.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

homatropine methylbromide: approved small molecule (0 associated side effects) Used in conjunction with antacids or histamine H2-receptor antagonists in the treatment of peptic ulcers, gastric ulcers and duodenal ulcers, to reduce further gastric acid secretion and delay gastric emptying.

scopolamine: approved small molecule (22 associated side effects) For the treatment of excessive salivation, colicky abdominal pain, bradycardia, sialorrhoea, diverticulitis, irritable bowel syndrome and motion sickness.

benzquinamide: approved small molecule (0 associated side effects) Used to prevent and treat nausea and vomiting associated with anesthesia and surgery, administered intramuscularly or intravenously.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

cryptenamine: approved small molecule (0 associated side effects) For the treatment of hypertension.

brompheniramine: approved small molecule (27 associated side effects) For the treatment of the symptoms of the common cold and allergic rhinitis, such as runny nose, itchy eyes, watery eyes, and sneezing.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntal melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

tolterodine: approved small molecule (51 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

solifenacin: approved small molecule (56 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency.

fesoterodine: approved small molecule (50 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

1016 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abdominal tenderness
Abnormal dreams Abnormal faeces Abscess Accommodation disorder
Acidosis Acne Acute coronary syndrome Acute psychosis
Adenocarcinoma Adjustment disorder Affect lability Ageusia
Aggression Agitation Agoraphobia Agranulocytosis Akathisia
Akinesia Alanine aminotransferase increased Albuminuria
Alcohol abuse Alcohol intolerance Alkalosis Alopecia
Altered state of consciousness Alveolitis allergic Amblyopia
Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaphylactic shock
Anaphylactoid reaction Anger Angina pectoris Angioedema
Angiopathy Angle closure glaucoma Anhidrosis Anisocytosis Anorectal disorder
Anorgasmia Antinuclear antibody positive Antisocial behaviour
Antisocial personality disorder Anxiety Aortic dissection
Apathy Aphasia Aphthous stomatitis Aplasia Aplastic anaemia
Apnoea Appendicitis Application site reaction Arrhythmia
Arrhythmia supraventricular Arteriosclerosis Arteritis Arthralgia
Arthritis Arthropathy Asocial behaviour Aspartate aminotransferase
increased Asphyxia Aspiration Assisted fertilisation Asthenia
Asthma Ataxia Atelectasis Athetosis Atrial fibrillation
Atrial flutter Atrioventricular block first degree
Atrioventricular dissociation Atrophy Azoospermia Azotaemia
Back pain Balance disorder Basophilia Benign prostatic hyperplasia
Bladder dilatation Bladder pain Bleeding time prolonged
Blepharitis Blepharospasm Blindness Blister Blood alkaline phosphatase increased
Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased
Blood creatinine increased Blood glucose decreased
Blood glucose increased Blood insulin increased Blood lactate dehydrogenase increased
Blood potassium decreased Blood potassium increased Blood pressure abnormal
Blood pressure diastolic decreased Blood pressure fluctuation
Blood pressure increased Blood pressure systolic decreased
Blood prolactin increased Blood triglycerides increased
Blood triglycerides normal Blood urea increased Blood uric acid increased
Blood urine Blood urine present Blunted affect Body temperature decreased
Body temperature increased Bone disorder Bone pain
Bradycardia Bradykinesia Bradyphrenia Brain oedema
Breast atrophy Breast cancer Breast cyst Breast disorder
Breast enlargement Breast feeding Breast neoplasm
Breast pain Bronchitis Bronchopneumopathy Bronchospasm
Bruxism Buccoglossal syndrome Bulimia nervosa
Bundle branch block Burning sensation Bursitis Cachexia
Calculus urinary Candidiasis Carbohydrate tolerance decreased
Cardiac arrest Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiac flutter Cardiac murmur
Cardiac output decreased Cardio-

respiratory arrest Cardiomegaly Cardiomyopathy
 Cardiopulmonary failure Cardiovascular disorder
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebellar syndrome Cerebral haemorrhage
 Cerebral infarction Cerebral ischaemia Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix disorder
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Cholecystitis Cholelithiasis Cholestasis
 Cholinergic syndrome Chondropathy Chorea
 Choreoathetosis Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Clonus Coccydynia Cognitive
 disorder Cogwheel rigidity Cold sweat Colitis Colonic
 obstruction Coma Completed suicide Condition aggravated Confusional
 state Conjunctival disorder Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal lesion Costochondritis Cough
 Crying Cyanosis Cycloplegia Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Decubitus
 ulcer Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 atopic Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diabetes mellitus Diabetic coma Diabetic
 hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
 ketoacidosis Diarrhoea Diarrhoea haemorrhagic Diplopia
 Discomfort Disease progression Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug interaction Drug withdrawal syndrome
 Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer
 Duodenitis Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspepsia Dysphagia Dysphemia Dysphonia Dysphoria
 Dyspnoea Dystonia Dysuria Ear disorder Ear
 infection Ear pain Ecchymosis Eclampsia Eczema Effusion
 Ejaculation delayed Ejaculation disorder Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram ST
 segment elevation Electrocardiogram T wave inversion Electrocardiogram
 abnormal Electrocardiogram change Electroencephalogram
 abnormal Elevated mood Embolism Emphysema Encephalopathy
 Endocrine disorder Endometrial disorder Energy increased
 Enteritis Enuresis Eosinophilia Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythema nodosum Euphoric
 mood Exfoliative rash Exophthalmos Exostosis Extensor plantar
 response Extrapyloric disorder Extrasystoles
 Extravasation Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 pain Eyelid disorder Eyelid function disorder Eyelid oedema
 Eyelid ptosis Face oedema Facial pain Facial paresis
 Faecal incontinence Faecalith Faecaloma Faeces hard

Fasting Fatigue Fear Feeling abnormal Feeling cold
 Feeling hot Feeling jittery Female sexual dysfunction
 Fibrocystic breast disease Fibrosis Flank pain Flat affect
 Flatulence Fluid retention Flushing Folliculitis Food
 interaction Formication Fungal infection Fungal skin infection
 Furuncle Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gangrene Gastric disorder
 Gastric pH decreased Gastric ulcer Gastric ulcer
 haemorrhage Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrointestinal sounds abnormal Gastrooesophageal reflux
 disease Generalised oedema Genital discharge Genital disorder
 female Genital disorder male Gingival bleeding Gingival
 hyperplasia Gingival pain Gingival recession Gingivitis
 Glaucoma Globulins increased Glomerulonephritis
 membranous Glossitis Glossodynia Glucose tolerance decreased
 Glucose tolerance impaired Glycosuria Glycosylated
 haemoglobin increased Goitre Gout Grand mal convulsion Groin
 pain Gynaecomastia Haematemesis Haematochezia Haematocrit
 decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhagic disorder Haemorrhoids Hallucination
 Hallucination, auditory Hallucination, visual Hangover
 Head discomfort Headache Hearing impaired Heart disease
 congenital Heart rate irregular Hemiparesis Hemiplegia Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatic steatosis Hepatitis Hepatobiliary
 disease Hepatomegaly Hepatosplenomegaly Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups Hirsutism Homicidal ideation Hormone level
 abnormal Hostility Hot flush Hyperacusis Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperpathia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersomnia Hypertension Hyperthermia
 Hyperthyroidism Hypertonia Hypertonic bladder
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypoxia
 Idiopathic thrombocytopenic purpura Ileitis Ileus
 paralytic Ill-defined disorder Immune system disorder
 Immunoglobulins increased Impaired gastric emptying
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infertility female

Infestation Inflammation Influenza Inguinal hernia
 Injection site mass Injection site pain Injection site
 phlebitis Injection site reaction Insomnia Intention tremor
 Intentional self-injury Interstitial lung disease
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intraocular pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint range of motion decreased Joint
 stiffness Joint swelling Judgement impaired Keratitis
 Keratoconjunctivitis sicca Ketoacidosis Ketosis
 Lacrimation decreased Lacrimation increased Laryngeal
 disorder Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lip blister Lip dry Liver disorder Liver function test
 abnormal Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung adenocarcinoma stage I
 Lymphadenitis Lymphadenopathy Lymphocyte count abnormal
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphopenia
 Major depression Malaise Male sexual dysfunction
 Malignant melanoma Mania Masked facies Mass Mastitis
 Mediastinal disorder Megacolon Melaena Memory impairment
 Meningitis Menopausal symptoms Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metrorrhagia
 Microcytic anaemia Micturition disorder Micturition
 urgency Migraine Miosis Mitral valve incompetence
 Mobility decreased Monocytosis Mood swings Motion sickness
 Mouth ulceration Movement disorder Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
 Nasal congestion Nasal disorder Nasal dryness
 Nasopharyngitis Nausea Neck pain Necrosis Negativism
 Neoplasm Neoplasm malignant Nephritis Nephrolithiasis
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neurodermatitis Neuroleptic malignant syndrome Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night blindness Night sweats
 Nightmare Nocturia Nodal arrhythmia Nodal rhythm
 Normochromic normocytic anaemia Nuchal rigidity Nystagmus
 Obesity Obsessive thoughts Obstruction Obstructive
 airways disorder Ocular hyperaemia Oculogyric crisis Oedema
 Oedema peripheral Oesophageal achalasia Oesophageal disorder
 Oesophageal ulcer Oesophagitis Oliguria Onychomycosis
 Open angle glaucoma Opisthotonus Optic neuritis Oral
 candidiasis Oral disorder Oral pain Orchitis noninfective
 Orgasm abnormal Oropharyngeal discomfort Oropharyngeal

pain Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteopenia Osteoporosis Otitis externa
 Otitis media Ovarian cyst Ovarian disorder Pain Pain
 in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Paraesthesia oral Paralysis Paranoia Parity
 Parkinsonian gait Parosmia Parotid gland enlargement
 Parotitis Pathological fracture Pelvic pain Peptic ulcer
 Pericardial effusion Pericardial haemorrhage
 Pericarditis Periodontitis Periorbital oedema
 Peripheral vascular disorder Peritonitis Personality disorder
 Petechiae Pharyngeal disorder Pharyngeal erythema
 Pharyngitis Phlebitis Phobia Phonological disorder
 Photophobia Photopsia Photosensitivity reaction Platelet
 count decreased Pleural disorder Pleural effusion Pneumonia
 Pneumonia aspiration Poisoning Pollakiuria Polycythaemia
 Polydipsia Polyp Polyuria Porphyria Postpartum disorder
 Pregnancy Premature baby Premature delivery Premature
 ejaculation Premenstrual syndrome Pressure of speech Presyncope
 Priapism Productive cough Prostate cancer Prostatic
 disorder Prostatitis Protein urine present Proteinuria Protrusion
 tongue Pruritus Pruritus genital Psoriasis Psychiatric
 symptom Psychomotor retardation Psychotic disorder
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary function test decreased Pulmonary hypertension
 Pulmonary oedema Pupils unequal Purpura Pyelonephritis
 Pyuria Rales Rash erythematous Rash macular Rash
 maculo-papular Rash papular Rash pustular Rash
 scarlatiniform Rash vesicular Rectal haemorrhage Red blood
 cell abnormality Red blood cell count decreased Red blood cell
 sedimentation rate increased Reflux oesophagitis Regressive
 behaviour Renal failure acute Renal impairment Renal pain
 Reproductive tract disorder Respiratory alkalosis Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection Respiratory tract infection viral
 Restless legs syndrome Retching Retinal haemorrhage
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Salivary gland enlargement Salivary hypersecretion
 Salpingitis Scab Schizoaffective disorder Schizophreniform
 disorder Sciatica Scotoma Seasonal allergy Seborrhoeic
 dermatitis Sedation Sensation of heaviness Sensory loss
 Sepsis Septic shock Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sinus arrhythmia Sinus
 bradycardia Sinus congestion Sinus disorder Sinus headache Sinus
 tachycardia Sinusitis Skin discolouration Skin disorder Skin
 exfoliation Skin hypertrophy Skin irritation Skin ulcer Skin warm
 Sleep apnoea syndrome Sleep disorder Sleep paralysis Sleep
 talking Sluggishness Sneezing Social avoidant behaviour
 Somnambulism Somnolence Speech disorder Sputum increased
 Status epilepticus Stevens-Johnson syndrome Stomatitis
 Strabismus Stridor Stupor Subarachnoid haemorrhage
 Subdural haematoma Sudden death Suicidal ideation

Suicide attempt Supraventricular extrasystoles
 Supraventricular tachycardia Surgery Suspiciousness
 Swelling Swelling face Swollen tongue Syncope
 Systemic lupus erythematosus Tachycardia Tachypnoea Tardive
 dyskinesia Tearfulness Temperature intolerance Tenderness
 Tendonitis Tenosynovitis Tension headache Teratogenicity
 Testicular disorder Testicular pain Testicular swelling
 Tetany Thinking abnormal Thirst Thought blocking
 Throat tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thyroiditis Tic
 Tinnitus Tongue discolouration Tongue disorder Tongue dry
 Tongue oedema Tongue paralysis Tongue spasm Tonsillar
 hypertrophy Tooth abscess Tooth disorder Tooth impacted Tooth
 infection Tooth malformation Toothache Torsade de pointes
 Torticollis Toxic epidermal necrolysis Tracheal disorder
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Ulcerative
 keratitis Unintended pregnancy Upper respiratory tract infection
 Urethral disorder Urethritis Urinary hesitation Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine analysis abnormal Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterine neoplasm Uterine spasm
 Uterovaginal prolapse VIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicose vein Vascular headache Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular flutter Ventricular tachycardia
 Vertigo Viral diarrhoea Viral infection Vision blurred
 Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cell disorder White blood cells
 urine positive Withdrawal syndrome Xerophthalmia Xerosis
 Yawning

Low affinity immunoglobulin gamma Fc region receptor III-A - Group:
 Receptor

Treated with:

cetuximab: approved biotech (0 associated side effects) For
 treatment of EGFR-expressing metastatic colorectal cancer in
 patients who are refractory to other irinotecan-based chemotherapy
 regimens. Cetuximab is also indicated for treatment of squamous cell
 carcinoma of the head and neck in conjunction with radiation
 therapy.

etanercept: approved biotech (0 associated side effects) For
 treatment of severe active rheumatoid arthritis in adults, severe
 juvenile idiopathic arthritis, ankylosing spondylitis, and severe
 plaque psoriasis.

intravenous immunoglobulin: approved biotech (0 associated side effects) IVIg is used in the treatment of immunodeficiencies, as well as autoimmune and inflammatory disorders. These indications includes idiopathic thrombocytopenic purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic lymphocytic leukemia, bone marrow transplant complications, Guillain-Barré syndrome, chronic inflammatory demyelinating polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis, myasthenia gravis, Wiskott-Aldrich syndrome and inflammatory skin diseases.

adalimumab: approved biotech (0 associated side effects) For treatment of rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, and Crohn's disease.

abciximab: approved biotech (0 associated side effects)

gemtuzumab ozogamicin: approved biotech (0 associated side effects) For treatment of CD33-positive acute myeloid leukemia in patients 60 and over who are not candidates for other chemotherapy.

trastuzumab: approved biotech (0 associated side effects)

For treatment of early stage HER2-positive breast cancer, or metastatic breast cancer that substantially overexpress HER2.

rituximab: approved biotech (0 associated side effects) For treatment of CD20-positive non-Hodgkins lymphoma, chronic lymphocytic leukemia, and rheumatoid arthritis.

basiliximab: approved biotech (0 associated side effects)

For prophylactic treatment of kidney transplant rejection

muromonab: approved biotech (0 associated side effects) For treatment of organ transplant recipients, prevention of organ rejection

ibrutumomab: approved biotech (0 associated side effects)

For treatment of non-Hodgkin's lymphoma

tositumomab: approved biotech (0 associated side effects)

For treatment of non-Hodgkin's lymphoma (CD20 positive, follicular)

alemtuzumab: approved biotech (0 associated side effects)

Alemtuzumab (Campath) is a monoclonal antibody therapy used for treatment of B-cell chronic lymphocytic leukemia.

alefacept: approved biotech (0 associated side effects) As an immunosuppressive drug, Alefacept can be used for treatment of moderate to severe chronic plaque psoriasis

efalizumab: approved biotech (0 associated side effects) For the treatment of adult patients with moderate to severe chronic plaque psoriasis, who are candidates for phototherapy or systemic therapy.

natalizumab: approved biotech (0 associated side effects)

For treatment of multiple sclerosis.

palivizumab: approved biotech (0 associated side effects)

For prophylaxis of respiratory diseases caused by respiratory syncytial virus.

daclizumab: approved biotech (0 associated side effects)

Zenapax is a humanized monoclonal antibody used for prevention of renal transplant rejection

bevacizumab: approved biotech (0 associated side effects)

As part of combination therapy for metastatic colorectal cancer and HER2-negative metastatic breast cancer.

known side effects mediated through drugs targeting this protein:

Sodium- and chloride-dependent glycine transporter 1 - Group:

Transporter

Treated with:

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

38 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Angina pectoris Back pain Blindness
Blindness transient Chills Coma Convulsion Dehydration
Diarrhoea Dizziness Dry mouth Electrolyte imbalance
Encephalopathy Fluid overload Hyperammonaemia
Hyperkinesia Hypersensitivity Hyponatraemia Hypotension
Lung disorder Nausea Oedema Pain Polyuria
Pulmonary congestion Respiratory tract congestion Rhinitis
Salivary hypersecretion Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Outer membrane protein p64k or PM-6 - Group: Enzyme

Treated with:

flavin-adenine dinucleotide: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Vasopressin V2 receptor - Group: Receptor

Treated with:

desmopressin: approved small molecule (0 associated side effects) Oral formulations may be used to manage primary nocturnal enuresis in adults and vasopressin sensitive diabetes insipidus, and for control of temporary polyuria and polydipsia following head trauma or surgery in the pituitary region. Intranasal and parenteral formulations may be used to manage spontaneous or trauma-induced bleeds (e.g. hemarthrosis, intramuscular hematoma, mucosal bleeding) in patients with hemophilia A or von Willebrand's disease Type I. May also be used parenterally to prevent or treat bleeding in patients with uremia.

conivaptan: approved small molecule (58 associated side effects)

For the treatment of euvolemic or hypervolemic hyponatremia (e.g. the syndrome of inappropriate secretion of antidiuretic hormone, or in the setting of hypothyroidism, adrenal insufficiency, pulmonary disorders, etc.) in hospitalized patients.

terlipressin: approved small molecule (0 associated side effects) Commonly used to stop bleeding of varices in the food pipe (oesophagus).

58 known side effects mediated through drugs targeting this protein:
 Anaemia Angiopathy Aortic dissection Arrhythmia Arrhythmia
 supraventricular Atrial fibrillation Body temperature increased
 Candidiasis Cardiac disorder Cardiac fibrillation Confusional
 state Constipation Dehydration Diarrhoea Dry mouth
 Electrocardiogram ST segment Electrocardiogram ST segment
 depression Erythema Feeling abnormal Gastrointestinal disorder
 Haematuria Headache Hyperglycaemia Hypertension
 Hypoglycaemia Hypokalaemia Hypomagnesaemia
 Hyponatraemia Hypotension Infection Infestation Infusion
 site reaction Insomnia Mediastinal disorder Mental disorder
 Nausea Nervous system disorder Oedema Oedema
 peripheral Oral candidiasis Oropharyngeal pain Orthostatic
 hypotension Pain Phlebitis Pneumonia Pollakiuria Polyuria Post
 procedural diarrhoea Pruritus Sepsis Swelling Thirst
 Toxic epidermal necrolysis Urethral disorder Urinary tract
 disorder Urinary tract infection Urine output increased
 Vomiting

Nuclear receptor subfamily 1 group I member 3 - Group: Receptor
 Treated with:
 16,17-androstene-3-ol: experimental small molecule (0
 associated side effects)
 (5beta)-pregnane-3,20-dione: experimental small molecule (0
 associated side effects)

known side effects mediated through drugs targeting this protein:

ATP-sensitive inward rectifier potassium channel 1 - Group: Channel
 Treated with:
 bethanidine: approved small molecule (0 associated side
 effects) For the treatment of hypertension.
 glimepiride: approved small molecule (59 associated side
 effects) For concomitant use with insulin for the treatment of
 noninsulin-dependent (type 2) diabetes mellitus.
 minoxidil: approved small molecule (62 associated side effects)
 For the treatment of severe hypertension and in the topical
 treatment (regrowth) of androgenic alopecia in males and females and
 stabilisation of hair loss in patients with androgenic alopecia.
 acetohexamide: approved small molecule (0 associated side
 effects) Used in the management of diabetes mellitus type 2
 (adult-onset).
 tolazamide: approved small molecule (32 associated side effects)
 For use as an adjunct to diet to lower the blood glucose in
 patients with non-insulin dependent diabetes mellitus (Type II)
 whose hyperglycemia cannot be satisfactorily controlled by diet
 alone.
 glyburide: approved small molecule (52 associated side effects)
 Indicated as an adjunct to diet to lower the blood glucose in
 patients with NIDDM whose hyperglycemia cannot be satisfactorily
 controlled by diet alone.

tolbutamide: approved small molecule (0 associated side effects) For treatment of NIDDM (non-insulin-dependent diabetes mellitus) in conjunction with diet and exercise.
glycodiazine: approved small molecule (0 associated side effects) Glycodiazine is used concomitantly with insulin for the treatment of noninsulin-dependent (type 2) diabetes mellitus.

121 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agranulocytosis Anaemia
Angioedema Aplastic anaemia Arthralgia Asthenia Back pain
Blood alkaline phosphatase increased Blood creatinine
increased Blood pressure increased Body temperature increased
Breast tendernessBronchitis Burning sensationChest discomfort
Chest pain Cholestasis Cough Decreased appetite Dermatitis
atopic Dermatitis bullous Diarrhoea Discomfort Dizziness
Dry mouth Dry skin Dyspepsia Dyspnoea Eczema
Effusion Erythema Erythropenia Fatigue Feeling
abnormal Fluid retention Folliculitis Gastrointestinal
disorder Gastrointestinal pain Haemolytic anaemia Hair growth
abnormal Headache Hepatic failure Hepatic function abnormal
Hepatitis Hot flush Hyperhidrosis Hypersensitivity
Hypertrichosis Hypoglycaemia Hyponatraemia
Hypopituitarism Hypotension Ill-defined disorder
Inappropriate antidiuretic hormone secretion Increased
appetite Infection Influenza Insomnia Jaundice Jaundice
cholestatic Laboratory test abnormal Leukocytoclastic vasculitis
Leukopenia Ligament disorder Liver disorder Malaise
Malnutrition Menopausal symptoms Muscle spasms
Musculoskeletal discomfort Myalgia Nasopharyngitis
Nausea Nephropathy Nervous system disorder Nervousness
Nocturia Oedema Oropharyngeal discomfort
Oropharyngeal pain Pain Pain in extremity Palpitations
Pancytopenia Paraesthesia Pericardial effusion
Pericarditis Photosensitivity reaction Pigmentation
disorder Pollakiuria Porphyria Porphyria non-acute Pruritus
Purpura Rash Respiratory tract infection Rhinitis
Rhinitis seasonal Sciatica Seasonal allergy Seborrhoeic
dermatitis Shock Sinusitis Skin exfoliation Tachycardia Tenderness
Tension Thrombocytopenia Tremor Urticaria Vascular
purpura Vasculitis Vasodilation procedure Vertigo Virilism
Vision blurred Visual impairment Vomiting Weight increased

N-arachidonyl glycine receptor - Group: Receptor

Treated with:

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

38 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Angina pectoris Back pain Blindness
Blindness transient Chills Coma Convulsion Dehydration
Diarrhoea Dizziness Dry mouth Electrolyte imbalance

Encephalopathy Fluid overload Hyperammonaemia
Hyperkinesia Hypersensitivity Hyponatraemia Hypotension
Lung disorder Nausea Oedema Pain Polyuria
Pulmonary congestion Respiratory tract congestion Rhinitis
Salivary hypersecretion Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Colicin I receptor - Group: Transporter

Treated with:

n-octyl-2-hydroxyethyl sulfoxide: experimental small molecule
(0 associated side effects)
lauryl dimethylamine-n-oxide: experimental small molecule
(0 associated side effects)

known side effects mediated through drugs targeting this protein:

Hepatitis B virus receptor binding protein - Group: Receptor

Treated with:

(1r)-1-phenylethyl 4-(acetylamino)benzylphosphonate:
experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Calcium-activated potassium channel subunit beta-1 - Group: Channel

Treated with:

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis (athlete’s foot), tinea cruris, and tinea corporis caused by <i>Trichophyton rubrum&/i>, <i>Trichophyton mentagrophytes&/i>, and <i>Epidermophyton floccosum&/i>, in the treatment of cutaneous candidiasis (moniliasis), and in the treatment of tinea versicolor.

33 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Anaphylactoid reaction
Angioedema Breast disorder Burning sensation Cardiac disorder
Dermatitis Dermatitis contact Erythema Gastrointestinal
pain Genital burning sensation Genital discharge Headache
Immune system disorder Muscle spasms Nausea Nervous
system disorder Oedema Pain Pelvic pain Pruritus genital Rash
Respiratory disorder Respiratory tract infection Upper
respiratory tract infection Urethral disorder Urinary tract disorder
Urinary tract infection Urticaria Vaginal discharge
Vulvovaginal discomfort Vulvovaginal erythema

Progesterone receptor - Group: Receptor

Treated with:

etonogestrel: approved small molecule (0 associated side effects) For use as a female contraceptive (depot).

desogestrel: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect to use this product as a method of contraception.

megestrol: approved small molecule (97 associated side effects)
For the treatment of anorexia, cachexia, or an unexplained, significant weight loss in patients with a diagnosis of acquired immunodeficiency syndrome (AIDS). Also used for the palliative management of recurrent, inoperable, or metastatic breast cancer, endometrial cancer, and prostate cancer in Canada and some other countries.

levonorgestrel: approved small molecule (187 associated side effects) For the treatment of menopausal and postmenopausal disorders and alone or in combination with other hormones as an oral contraceptive.

dydrogesterone: approved small molecule (0 associated side effects) Used to treat irregular duration of cycles and irregular occurrence and duration of periods caused by progesterone deficiency. Also used to prevent natural abortion in patients who have a history of habitual abortions.

fluticasone propionate: approved small molecule (0 associated side effects) For the maintenance treatment of asthma as prophylactic therapy and for patients requiring oral corticosteroid therapy for asthma.

medroxyprogesterone: approved small molecule (373 associated side effects) Used as a contraceptive and to treat secondary amenorrhea, abnormal uterine bleeding, pain associated with endometriosis, endometrial and renal cell carcinomas, paraphilia in males, GnRH-dependent forms of precocious puberty, as well as to prevent endometrial changes associated with estrogens.

norethindrone: approved small molecule (0 associated side effects) For use as an oral contraceptive in the prevention of pregnancy.

ethynodiol diacetate: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect to use this product as a method of contraception.

mifepristone: approved small molecule (50 associated side effects) For the medical termination of intrauterine pregnancy through 49 days' pregnancy. Also indicated to control hyperglycemia secondary to hypercortisolism in adult patients with endogenous Cushing's syndrome who have type 2 diabetes mellitus or glucose intolerance.

norgestimate: approved small molecule (0 associated side effects) For the prevention of pregnancy

drospirenone: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect an oral contraceptive.

danazol: approved small molecule (89 associated side effects)
For the treatment of endometriosis and fibrocystic breast disease (in patients unresponsive to simple measures). Also used for the prophylactic treatment of all types of hereditary angioedema in males and females.

allylestrenol: approved small molecule (0 associated side effects) Allylestrenol was designed to be used for miscarriage

prevention, prevention of premature labour and has been investigated for possible use in men for treatment for benign prostatic hyperplasia.

methyltrienolone:experimental small molecule (0 associated side effects)

tanaproget:experimental small molecule (0 associated side effects)

norelgestromin: approved small molecule (0 associated side effects) Norelgestromin is used for contraception and menopausal hormonal therapy. Norelgestromin may potentially be used in breast cancer treatment due to its inhibitory effect on estrone sulfatase . They convert sulfated steroid precursors to estrogen during pregnancy.

564 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal mass
Abdominal pain Abdominal pain lower Abortion missed
Abortion spontaneous Abscess Abscess sterile Acne Acute
coronary syndromeAcute leukaemia Acute psychosis Acute respiratory
distress syndromeAcute tonsillitisAdenoma benign Adrenal disorder
Adrenal insufficiency Affect lability Aggression Agitation
Alanine aminotransferase increasedAlbuminuriaAlcohol poisoning
Alopecia Amblyopia AmenorrhoeaAmnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anencephaly
Angina pectoris Angioedema Angiopathy Anorectal disorder
Anorgasmia Anosmia Anovulatory cycleAntepartum haemorrhage
Anxiety Aortic dissectionAppendicitis Application site
reaction Arrhythmia Arterial thrombosis Arthralgia Arthritis
Aspartate aminotransferase increased Assisted fertilisation
Asthenia Asthma Ataxia Atrophy Attention
deficit/hyperactivity disorder Autonomic neuropathy Back pain
Balance disorder Benign breast neoplasm Benign hydatidiform
mole Benign intracranial hypertension Bladder pain Blighted
ovum Blindness Blister Blood alkaline phosphatase increased
Blood disorder Blood glucose decreased Blood glucose
increased Blood insulin increased Blood lactate dehydrogenase
increased Blood oestrogen decreased Blood pressure increased
Blood testosterone decreasedBlood triglycerides increased
Blood urineBlood urine present Body temperature increased
Bone disorder Bone pain BradycardiaBreast cancer
Breast discharge Breast disorder Breast enlargement
Breast feeding Breast massBreast neoplasm Breast pain
Breast swelling Breast tendernessBromosulphthalein test
abnormal Bronchitis Bronchospasm Cachexia Candidiasis
Carbohydrate tolerance decreased Cardiac disorder Cardiac
failure Cardiac septal defect Cardiomyopathy Cardiovascular
disorder Carpal tunnel syndrome Cataract Cerebral artery
thrombosis Cerebral haemorrhage Cerebral infarction Cerebral
ischaemia Cerebral thrombosis Cerebral venous thrombosis
Cerebrovascular accident Cervical dysplasia Cervicitis
Cervix carcinoma Cervix disorder Chapped lips Chest pain
Chills Chloasma Choking CholangitisCholelithiasis
CholestasisChorea Cleft lip Cleft palate Confusional
state Congenital anomaly Congenital diaphragmatic hernia

Congenital megacolon Conjunctivitis Connective tissue
 disorder Constipation Convulsion Coronary artery thrombosis
 Cough Crying Cushingoid Cystitis Cystitis noninfective
 Deafness Death Decreased appetite Deep vein thrombosis
 Deformity Dementia Depersonalisation Depressed level of
 consciousness Depressed mood Depression Dermatitis Dermatitis
 bullous Dermatitis contact Developmental delay Diabetes
 mellitus Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disorientation Disturbance in attention Disturbance in
 sexual arousal Dizziness Drug interaction Dry mouth Dry skin
 Dysarthria Dysgeusia Dysmenorrhoea Dyspareunia Dyspepsia
 Dysphagia Dysphemia Dysphonia Dysplasia Dyspnoea
 Dysuria Ear infection Ear malformation Ear pain
 Eating disorder Ectopic pregnancy Ectropion of cervix
 Eczema Electrocardiogram QT prolonged Embolism
 Embolism venous Endocrine disorder Endometrial cancer
 Endometriosis Endometritis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythema nodosum Eye disorder
 Eyelid ptosis Face oedema Fatigue Feeling abnormal
 Feeling drunk Fibroadenoma of breast Fibrocystic breast
 disease Fistula Flatulence Fluid retention Flushing
 Foetor hepaticus Folliculitis Fungal infection Gait
 disturbance Galactorrhoea Gallbladder disorder Gastric disorder
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal pain Genital candidiasis Genital discharge
 Genital infection Genital ulceration Gingival bleeding
 Glucose tolerance decreased Glucose tolerance impaired
 Growth retardation Gynaecomastia Haemangioma Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemolytic
 anaemia Haemorrhage Haemorrhagic disorder Haemorrhoids
 Headache Hearing impaired Heart disease congenital
 Hepatic adenoma Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatic neoplasm
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hereditary disorder Hernia
 Herpes simplex Herpes virus infection Hirsutism Hormone
 level abnormal Hot flush Hydrocephalus Hydrops foetalis
 Hypercalcaemia Hyperglycaemia Hyperhidrosis
 Hyperinsulinism Hyperkinesia Hypernatraemia
 Hypersensitivity Hypertension Hyperthyroidism Hypertonia
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperventilation Hypoaesthesia Hypocalcaemia Hypochromic
 anaemia Hypoglycaemia Hypokalaemia Hypomenorrhoea
 Hypopituitarism Hypospadias Hypotension Hypothyroidism IIIrd
 nerve paralysis Ill-defined disorder Immune system disorder
 Incontinence Increased appetite Infarction Infection
 Infestation Influenza Influenza like illness Injection site
 atrophy Injection site pain Injection site reaction
 Insomnia Interstitial lung disease Intestinal infarction
 Intracranial pressure increased Irritability Ischaemia
 Ischaemic neuropathy Jaundice Jaundice cholestatic
 Jaundice neonatal Joint swelling Laboratory test abnormal
 Laryngeal oedema Laryngospasm Lethargy Leukaemia
 Leukocytosis Leukopenia Libido decreased Libido increased

Limb deformity Liver disorder Liver function test abnormal
 Loss of consciousness Lung disorder Lymphadenopathy
 Lymphatic disorder Macular oedema Malaise Malignant
 melanoma Mass Mastitis Mediastinal disorder Medical device
 complication Megacolon Melanocytic naevus Memory impairment
 Meningioma Menometrorrhagia Menopausal symptoms Menorrhagia
 Menstrual disorder Menstruation delayed Menstruation
 irregular Mental disabilityMental disorder Metrorrhagia
 Microcephaly Microsomia Migraine Mood swings Mouth
 ulceration Muscle spasms Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Myalgia Myocardial infarction
 Myoclonus Myopathy Nasal congestion Nasopharyngitis
 Nausea Necrosis Neoplasm malignant Nephritis
 Nephrolithiasis Nephrotic syndrome Nervous system
 disorder Nervousness Neuritis Neurofibroma Neuropathy
 peripheral Night sweats Nocturia Oedema Oedema peripheral
 Oesophageal atresia Oesophageal disorder Oestrogen
 deficiency Oligomenorrhoea Optic ischaemic neuropathy Optic
 neuritis Oral candidiasis Oropharyngeal blistering
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotensionOsteoarthritis Osteonecrosis Osteoporosis
 Osteoporotic fracture Otitis media Ovarian cancer
 Ovarian cyst Ovarian disorder Ovarian failure Ovarian
 hyperstimulation syndrome Pain Pain in extremityPalpitations
 Pancreatitis acute Papilloedema Papilloma
 Paraesthesia Paralysis Parametritis Paranoia
 Patent ductus arteriosus Peliosis hepatis Pelvic
 inflammatory disease Pelvic painPericarditis Perineal pain
 Personality disorder Pharyngitis Photosensitivity reaction
 Pneumonia Pollakiuria Polycythaemia Polydactyly Polydipsia
 Polyhydramnios Polymenorrhoea Polyp Porphyria Porphyria
 acute Premature baby Premature menopause Premenstrual syndrome
 Protein urine present ProteinuriaPruritus Pruritus genital
 Psychotic disorder Pulmonary embolism Purpura Rash
 Rash generalised Rash pustular Rectal haemorrhage Renal
 infarct Renal neoplasm Respiratory disorder Respiratory
 distress Respiratory tract infection Retinal vein occlusion
 Rhinitis Ruptured ectopic pregnancy Salivary gland
 enlargementSalivary hypersecretion Salpingitis Sarcoma
 Sciatica Scleroderma Seborrhoeic dermatitis Sedation
 Sensory loss Sepsis Shock Sickle cell anaemia with
 crisis Single umbilical artery Sinusitis Skin
 discolouration Skin disorder Skin haemorrhage Skin odour
 abnormal Skin papilloma Skin tightness Skull malformation
 Sleep disorder Smear cervix abnormal Somnolence Speech
 disorder Spina bifida Splenic infarction Squamous cell
 carcinoma Stillbirth Stomatitis Stupor Sudden infant death
 syndrome Suicidal ideationSupraventricular tachycardia Swelling
 Swollen tongue Syncope Tachycardia Talipes Tearfulness
 Tenderness Tendonitis Tension Thinking abnormalThirst
 Throat tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombophlebitis Thrombophlebitis superficial Thrombosis
 Thrombotic thrombocytopenic purpura Thyroiditis Tinnitus
 Tonsillitis Tooth disorder Toothache Toxic epidermal

necrosis Tracheo-oesophageal fistula Transaminases increased
 Transient ischaemic attack Tremor Trisomy 21
 Tubulointerstitial nephritis Tumour flare Ulcer Upper
 respiratory tract infection Urethral disorder Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urticaria Uterine cervical erosion Uterine cyst
 Uterine disorder Uterine enlargement Uterine haemorrhage
 Uterine leiomyoma Uterine perforation Uterine spasm
 Uterovaginal prolapse VIIth nerve paralysis Vaginal cyst
 Vaginal discharge Vaginal dysplasia Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Vaginal neoplasm
 Vaginitis bacterial Varicose vein Vascular purpura Vein
 pain Venous occlusion Venous thrombosis Ventricular septal defect
 Vertigo Viral infection Vision blurred Visual acuity
 reduced Visual impairment Vomiting Vulval abscess Vulval
 disorder Vulvovaginal candidiasis Vulvovaginal discomfort
 Vulvovaginal dryness Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Weight decreased
 Weight increased Xerophthalmia

Sodium channel protein type 11 subunit alpha - Group: Channel

Treated with:

cocaine: illicit, approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

195 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Acne Agitation Alanine
 aminotransferase increased Albuminuria Alopecia Amblyopia
 Amenorrhoea Anaemia Anxiety Apnoea Arthralgia
 Arthritis Aspartate aminotransferase increased Asthenia
 Ataxia Atrial fibrillation Bladder pain Blood
 lactate dehydrogenase increased Bradycardia Calculus bladder
 Cardiac failure Cardiac fibrillation Cerebrovascular
 accident Chest pain Cholangitis Cholecystitis Cholelithiasis
 Cognitive disorder Colitis Confusional state
 Conjunctivitis Constipation Convulsion Coordination
 abnormal Cough Deafness Death Decreased appetite Dehydration
 Depressed level of consciousness Dermatitis Dermatitis
 bullous Diarrhoea Diplopia Discomfort Disturbance in sexual
 arousal Dizziness Dry mouth Dry skin Duodenal ulcer
 Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia
 Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis
 Eczema Embolism Encephalopathy Enuresis Erectile
 dysfunction Euphoric mood Extrasystoles Face oedema Faecal
 incontinence Fatigue Feeling abnormal Flank pain Flatulence
 Gait disturbance Gastritis Gastroenteritis Gastrointestinal
 pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
 Glossitis Gynaecomastia Haematemesis Haematuria

Haemoglobin Haemoptysis Haemorrhage Headache Hirsutism
 Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension Hypertonia
 Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
 Hypotonia Ill-defined disorder Immunodeficiency
 Incontinence Influenza Insomnia Iritis
 Irritability Jaundice Jaundice cholestatic Leukopenia
 Libido decreased Loss of consciousness Lymphadenopathy
 Malaise Mastitis Melaena Menorrhagia Microcytic
 anaemia Micturition urgency Mouth ulceration Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nausea Nervousness Neuritis Neuropathy peripheral
 Nocturia Nuchal rigidity Nystagmus Oculogyric crisis
 Oedema Oedema peripheral Oesophagitis Osteoarthritis
 Pain Palpitations Paraesthesia oral Paralysis Parosmia
 Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
 Pruritus Psychotic disorder Pulmonary embolism Rash
 Rash maculo-papular Rash pustular Rectal haemorrhage
 Respiratory failure Rhinitis Scotoma Sensitisation
 Shock Somnolence Speech disorder Stomatitis Syncope
 Systemic lupus erythematosus Tachycardia Tension Thirst
 Thrombocytopenia Thrombophlebitis Tinnitus Tremor Ulcer
 Urinary incontinence Urinary retention Urine output increased
 Urticaria VIIth nerve paralysis Vascular insufficiency
 Vasoconstriction Ventricular extrasystoles Vertigo
 Vomiting Weight decreased Weight increased

Nicotinic acid receptor 1 - Group: Receptor

Treated with:

niacin: approved, nutraceutical small molecule (0 associated
 side effects) For the treatment of type IV and V hyperlipidemia.
 It is indicated as adjunctive therapy.

known side effects mediated through drugs targeting this protein:

Tyrosine-protein phosphatase non-receptor type 1 - Group: Enzyme

Treated with:

tiludronate: approved small molecule (60 associated side
 effects) For treatment of Paget's disease of bone (osteitis
 deformans).

3-(oxalyl-amino)-naphthalene-2-carboxylic acid: experimental
 small molecule (0 associated side effects)

double oxidized cysteine: experimental small molecule (0
 associated side effects)

compound 12, n-acetyl-4-[(carboxycarbonyl)(2-carboxyphenyl)amino]-n-
 pentyl-1-naphthylalaniamide: experimental small molecule (0
 associated side effects)

compound 9: experimental small molecule (0 associated side
 effects)

2-(oxalyl-amino)-4,7-dihydro-5h-thieno[2,3-c]thiopyran-3-carboxylic acid: experimental small molecule (0 associated side effects)

3-(3,5-dibromo-4-hydroxy-benzoyl)-2-ethyl-benzofuran-6-sulfonic acid (4-sulfamoyl-phenyl)-amide: experimental small molecule (0 associated side effects)

[[4-(aminomethyl)phenyl]amino]oxo-acetic acid,: experimental small molecule (0 associated side effects)

2-{4-[(2s)-2-[[[(1s)-1-carboxy-2-phenylethyl]amino]carbonyl]amino]-3-oxo-3-(pentylamino)propyl]phenoxy}malonic acid: experimental small molecule (0 associated side effects)

compound 19: experimental small molecule (0 associated side effects)

sp7343-sp7964: experimental small molecule (0 associated side effects)

2-(oxalyl-amino)-benzoic acid: experimental small molecule (0 associated side effects)

{[2-(1h-1,2,3-benzotriazol-1-yl)-2-(3,4-difluorophenyl)propane-1,3-diyl]bis[4,1-phenylene(difluoromethylene)]}bis(phosphonic acid): experimental small molecule (0 associated side effects)

novo nordisk a/s compound: experimental small molecule (0 associated side effects)

n-[4-(2-{2-[3-(2-bromo-acetyl-amino)-propionyl-amino]-3-hydroxy-propionyl-amino}-ethyl)-phenyl]-oxalamic acid: experimental small molecule (0 associated side effects)

7-(1,1-dioxo-1h-benzo[d]isothiazol-3-yloxymethyl)-2-(oxalyl-amino)-4,7-dihydro-5h-thieno[2,3-c]pyran-3-carboxylic acid: experimental small molecule (0 associated side effects)

pnul77836: experimental small molecule (0 associated side effects)

{[7-(difluoro-phosphono-methyl)-naphthalen-2-yl]-difluoro-methyl}-phosphonic acid: experimental small molecule (0 associated side effects)

3-(3,5-dibromo-4-hydroxy-benzoyl)-2-ethyl-benzofuran-6-sulfonic acid [4-(thiazol-2-ylsulfamoyl)-phenyl]-amide: experimental small molecule (0 associated side effects)

4-benzoylamino-4-{1-{1-carbamoyl-2-[4-(difluoro-phosphono-methyl)-phenyl]-ethylcarbamoyl}-2-[4-(difluoro-phosphono-methyl)-phenyl]-ethylcarbamoyl}-butyric acid: experimental small molecule (0 associated side effects)

n-{1-[5-(1-carbamoyl-2-mercapto-ethylcarbamoyl)-pentylcarbamoyl]-2-[4-(difluoro-phosphono-methyl)-phenyl]-ethyl}-3-{2-[4-(difluoro-phosphono-methyl)-phenyl]-acetyl-amino}-succinamic acid: experimental small molecule (0 associated side effects)

cysteinesulfonic acid: experimental small molecule (0 associated side effects)

2-(oxalyl-amino)-4,5,6,7-tetrahydro-thieno[2,3-c]pyridine-3-carboxylic acid: experimental small molecule (0 associated side effects)

4-carbamoyl-4-{[6-(difluoro-phosphono-methyl)-naphthalene-2-carbonyl]-amino}-butyric acid: experimental small molecule (0 associated side effects)

compound 5, 2-(naphthalen-1-yl-oxalyl-amino)-benzoic acid: experimental small molecule (0 associated side effects)

6-(oxalyl-amino)-1h-indole-5-carboxylic acid: experimental small molecule (0 associated side effects)

n-(allyloxycarbonyl)-4-[n-(carboxy-formyl)-2-(benzoic acid)-amino]-1-phenylalaninyl-amino-butyloxy-(6-hydroxy-benzoic acid methyl ester): experimental small molecule (0 associated side effects)

3-(3,5-dibromo-4-hydroxy-benzoyl)-2-ethyl-benzofuran-6-sulfonic acid dimethylamide: experimental small molecule (0 associated side effects)

[(4-{4-[4-(difluoro-phosphono-methyl)-phenyl]-butyl}-phenyl)-difluoro-methyl]-phosphonic acid: experimental small molecule (0 associated side effects)

{4-[(2s,4e)-2-(1,3-benzothiazol-2-yl)-2-(1h-1,2,3-benzotriazol-1-yl)-5-phenylpent-4-enyl]phenyl}(difluoro)methylphosphonic acid: experimental small molecule (0 associated side effects)

2-(carboxymethoxy)-5-[(2s)-2-[(2s)-2-[(3-carboxypropanoyl)amino]-3-phenylpropanoyl]amino)-3-oxo-3-(pentylamino)propyl]benzoic acid: experimental small molecule (0 associated side effects)

1-methyl-3-phenyl-1h-pyrazol-5-ylsulfamic acid: experimental small molecule (0 associated side effects)

4-bromo-3-(carboxymethoxy)-5-[3-(cyclohexylamino)phenyl]thiophene-2-carboxylic acid: experimental small molecule (0 associated side effects)

3(s)-methylcarbamoyl-7-sulfoamino-3,4-dihydro-1h-isoquinoline-2-carboxylic acid tert-butyl ester: experimental small molecule (0 associated side effects)

4-bromo-3-(carboxymethoxy)-5-phenylthiophene-2-carboxylic acid: experimental small molecule (0 associated side effects)

5-(4-chloro-5-phenyl-3-thienyl)-1,2,5-thiadiazolidin-3-one 1,1-dioxide: experimental small molecule (0 associated side effects)

4-bromo-3-(carboxymethoxy)-5-(4-hydroxyphenyl)thiophene-2-carboxylic acid: experimental small molecule (0 associated side effects)

[{2-bromo-4-[(2r)-3-oxo-2,3-diphenylpropyl]phenyl}(difluoro)methyl]phosphonic acid: experimental small molecule (0 associated side effects)

5-[3-(benzylamino)phenyl]-4-bromo-3-(carboxymethoxy)thiophene-2-carboxylic acid: experimental small molecule (0 associated side effects)

2-[(7-hydroxy-naphthalen-1-yl)-oxalyl-amino]-benzoic acid: experimental small molecule (0 associated side effects)

3-(carboxymethoxy)thieno[2,3-b]pyridine-2-carboxylic acid: experimental small molecule (0 associated side effects)

4-phosphonooxy-phenyl-methyl-[4-phosphonooxy]benzen: experimental small molecule (0 associated side effects)

n-acetyl-1-phenylalanyl-4-[difluoro(phosphono)methyl]-1-phenylalaninamide: experimental small molecule (0 associated side effects)

3(r)-methylcarbamoyl-7-sulfoamino-3,4-dihydro-1h-isoquinoline-2-carboxylic acid tert-butyl ester: experimental small molecule (0 associated side effects)

5-(3-hydroxyphenyl)isothiazol-3(2h)-one 1,1-dioxide: experimental small molecule (0 associated side effects)

5-(3-{3-[3-hydroxy-2-(methoxycarbonyl)phenoxy]propenyl}phenyl)-4-(hydroxymethyl)isoxazole-3-carboxylic acid: experimental small molecule (0 associated side effects)

isothiazolidinone analog: experimental small molecule (0 associated side effects)
 4-[3-(dibenzylamino)phenyl]-2,4-dioxobutanoic acid: experimental small molecule (0 associated side effects)
 para-(benzoyl)-phenylalanine: experimental small molecule (0 associated side effects)
 6-(difluoro-phosphono-methyl)-naphthalene-2-carboxylic acid: experimental small molecule (0 associated side effects)
 (3r)-methylcarbamoyl-7-sulfoamino-3,4-dihydro-1h-isoquinoline-2-carboxylic acid benzyl ester: experimental small molecule (0 associated side effects)
 5-(4-methoxybiphenyl-3-yl)-1,2,5-thiadiazolidin-3-one 1,1-dioxide: experimental small molecule (0 associated side effects)
 1,2,5-thiadiazolidin-3-one-1,1-dioxide: experimental small molecule (0 associated side effects)
 (4-{{(2s)-2-[(tert-butoxycarbonyl)amino]-3-methoxy-3-oxopropyl}phenyl)methaneseleninic acid: experimental small molecule (0 associated side effects)

60 known side effects mediated through drugs targeting this protein:

Abdominal pain Anxiety Arthralgia Arthropathy Asthenia Back pain
 Bronchitis Cataract Chest pain Conjunctivitis
 Constipation Cough Decreased appetite Dermatitis
 Diarrhoea Dizziness Dry mouth Dyspepsia Fatigue
 Flatulence Flushing Gastritis Gastrointestinal pain
 Glaucoma Gravitational oedema Headache Hyperhidrosis
 Hyperparathyroidism Hypertension Infection Influenza
 Insomnia Loss of consciousness Muscle contractions
 involuntary Musculoskeletal discomfort Nausea Nervousness
 Oedema Oedema peripheral Osteoarthritis Pain
 Paraesthesia Pathological fracture Pharyngitis Pruritus
 Rash Respiratory tract infection Rhinitis Shock Sinusitis
 Skin disorder Somnolence Syncope Tension Tooth
 disorder Upper respiratory tract infection Urinary tract
 infection Vertigo Vitamin D deficiency Vomiting

Voltage-dependent L-type calcium channel subunit alpha-1D - Group:
 Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)
 For the management of mild to moderate essential hypertension.

It may be used alone or concurrently with thiazide-type diuretics.
 amlodipine: approved small molecule (136 associated side effects)
 For the treatment of hypertension and chronic stable angina.

nimodipine: approved small molecule (47 associated side effects)
 For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

nisoldipine: approved small molecule (161 associated side effects)
 For the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

felodipine: approved small molecule (96 associated side effects) For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side effects) For the treatment of mild to moderate hypertension

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

mibefradil: withdrawn small molecule (0 associated side effects) For the treatment of angina and high blood pressure.

nilvadipine: approved small molecule (0 associated side effects) For the management of vasospastic angina, chronic stable angina and hypertension.

367 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams
 Accommodation disorder Acidosis Acne Acute coronary
 syndrome Acute generalised exanthematous pustulosis Affect
 lability Agitation Alanine aminotransferase increased Alopecia
 Amblyopia Amnesia Anaemia Anaphylactic shock
 Angina pectoris Angioedema Angiopathy Anxiety Anxiety
 disorder Apathy Arrhythmia Arteriosclerosis Arthralgia
 Arthritis Arthropathy Asthenia Asthma Ataxia
 Atrial fibrillation Atrioventricular block complete
 Atrioventricular block first degree Atrioventricular
 dissociation Back pain Balance disorder Bezoar Blepharitis
 Blindness Blindness transient Blister Blood alkaline
 phosphatase increased Blood lactate dehydrogenase increased Blood
 pressure increased Blood prolactin increased Blood urea
 increased Blood uric acid Body temperature increased Bradycardia
 Breast engorgement Breast pain Bronchitis Bronchospasm
 Cardiac arrest Cardiac disorder Cardiac failure congestive
 Cardiac fibrillation Cardiac murmur Cardiogenic shock
 Cardiomyopathy Cellulitis Cerebral ischaemia
 Cerebrovascular accident Chest discomfort Chest pain
 Chills Cholestasis Chronic obstructive pulmonary disease
 Cold sweat Colitis Coma Confusional state Conjunctivitis
 Constipation Convulsion Coombs direct test positive Cough
 Crocodile tears syndrome Decreased appetite Deep vein
 thrombosis Depersonalisation Depressive symptom Dermatitis
 Dermatitis bullous Dermatitis exfoliative Diabetes mellitus
 Diarrhoea Diplopia Discomfort Disease progression
 Disseminated intravascular coagulation Dissociation

Disturbance in attention Disturbance in sexual arousal
 Dizziness postural Dry mouth Dry skin Dysgeusia
 Dyspepsia Dysphagia Dyspnoea Dysuria Ear disorder
 Ear infection Ear pain Ecchymosis Effusion
 Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram T wave inversion Electrocardiogram
 abnormal Eosinophilia Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Erythromelalgia Extrapyrarnidal disorder Extrasystoles
 Eye disorder Eye haemorrhage Eye pain Eye pruritus
 Face oedema Fasting Fatigue Feeling abnormal Feeling
 cold Feeling hot Feeling jittery Flat affect Flatulence Fluid
 retention Flushing Fungal skin infection Galactorrhoea
 Gamma-glutamyltransferase increased Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Gingival bleeding Gingival disorder Gingival hyperplasia
 Glaucoma Glomerulonephritis membranous Glossitis Gout
 Gynaecomastia Haematoma Haematuria Haemoglobin Haemolysis
 Haemolytic anaemia Haemorrhage Haemorrhage intracranial
 Headache Hepatic enzyme increased Hepatic function
 abnormal Hepatitis Hepatitis cholestatic Hepatomegaly
 Herpes simplex Herpes virus infection Herpes zoster Hot
 flush Hyperaemia Hyperglycaemia Hyperhidrosis Hyperkeratosis
 Hyperkinesia Hyperplasia Hyperprolactinaemia
 Hypersensitivity Hypertension Hypertonia Hypertrophic
 cardiomyopathy Hypertrophy Hypoaesthesia Hypokalaemia
 Hyponatraemia Hypophosphataemia Hypotension Hypoxia Ileus
 paralytic Ill-defined disorder Incontinence Increased
 appetite Infarction Infection Inflammation Influenza
 Injection site pain Injection site reaction Insomnia
 Intermittent claudication Irritability Ischaemia
 Jaundice Joint stiffness Joint swelling Keratitis
 Laboratory test abnormal Lacrimation increased Laryngitis
 Laryngospasm Lethargy Leukocytoclastic vasculitis
 Leukopenia Libido decreased Liver function test abnormal Loss
 of consciousness Lung disorder Lymphadenopathy Macule
 Malaise Melaena Menopausal symptoms Menstrual
 disorder Mental disability Metabolic acidosis Micturition
 disorder Micturition urgency Migraine Mood swings Mouth
 ulceration Muscle fatigue Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 stiffness Myalgia Myocardial infarction Myocardial ischaemia
 Myositis Nasal congestion Nasopharyngitis Nausea Neck
 pain Nephrolithiasis Nervousness Neuropathy peripheral Nightmare
 Nocturia Nystagmus Obstruction Obstructive airways disorder
 Oedema Oedema peripheral Oesophagitis Oligomenorrhoea
 Oliguria Oropharyngeal discomfort Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Otitis media
 Pain Pain in extremity Palpitations Pancreatitis
 Paraesthesia Paralysis Paranoia Parosmia Pelvic pain
 Pericardial haemorrhage Pericarditis Periorbital
 oedema Peripheral ischaemia Peripheral vascular disorder
 Petechiae Pharyngitis Phlebitis Photosensitivity reaction

Platelet count decreased Pleural disorder Pleural effusion
 Poisoning Pollakiuria Polyuria Pruritus Psychotic
 disorder Pulmonary congestion Pulmonary oedema Purpura
 Quadriparesis Rales Rash Rash erythematous Rash maculo-
 papular Rash pustular Regurgitation Renal failure Renal
 failure chronic Renal impairment Respiratory disorder Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retinal detachment Rhinitis Rhinorrhoea Salivary gland
 enlargement Sensory loss Sexual dysfunction Shock Sinus
 arrest Sinus arrhythmia Sinusitis Skin discolouration Skin
 ulcer Sleep disorder Sneezing Somnolence Sticky skin Stomatitis
 Stridor Supraventricular tachycardia Syncope Tachycardia
 Tenderness Tenosynovitis Tension Thinking abnormal
 Thirst Thrombocytopenia Thrombophlebitis Thrombosis
 Thyroiditis Tinnitus Toxic epidermal necrolysis Tremor
 Ulcer Upper respiratory tract infection Urinary incontinence
 Urine output increased Urogenital disorder Urticaria
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Vascular purpura Vasculitis Vasodilation procedure Vasospasm
 Venous insufficiency Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vision blurred Visual acuity reduced Visual
 impairment Vitreous floaters Vomiting Weight decreased Weight
 increased Wheezing Xerophthalmia

Receptor activity-modifying protein 2 - Group: Other

Treated with:

pramlintide: approved biotech (17 associated side effects)

For the treatment of type 1 and type 2 diabetes mellitus as an adjunct to preprandial insulin therapy in patients without adequate glycemic control of insulin therapy.

17 known side effects mediated through drugs targeting this protein:

Abdominal pain Arthralgia Asthenia Cough Decreased appetite
 Dizziness Fatigue Gastrointestinal pain Headache
 Hypersensitivity Hypoglycaemia Injection site reaction
 Musculoskeletal discomfort Nausea Pain Pharyngitis
 Vomiting

Cytokine receptor common beta chain - Group: Receptor

Treated with:

sargramostim: approved biotech (0 associated side effects)

For the treatment of cancer and bone marrow transplant
 alpha-d-mannose: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Cystic fibrosis transmembrane conductance regulator - Group:

Transporter

Treated with:

bumetanide: approved small molecule (50 associated side effects)

For the treatment of edema associated with congestive heart failure, hepatic and renal disease including the nephrotic syndrome.
glyburide: approved small molecule (52 associated side effects)

Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

adenosine-5'-diphosphate: experimental small molecule (0 associated side effects)

phosphoaminophosphonic acid-adenylate ester: experimental small molecule (0 associated side effects)

phosphoserine: experimental small molecule (0 associated side effects)

ivacaftor: approved small molecule (0 associated side effects)

For the treatment of cystic fibrosis (CF) in patients age 6 years and older who have a G551D mutation in the CFTR gene.

87 known side effects mediated through drugs targeting this protein:

- Abdominal discomfort Abdominal distension Abdominal pain
- Agranulocytosis Anaemia Angioedema Aplastic anaemia
- Arthralgia Asterixis Asthenia Azotaemia Blood creatinine increased
- Blood uric acid increased Chest pain Cholestasis
- Dehydration Dermatitis Diarrhoea Discomfort Dizziness Dry mouth
- Dyspepsia Dyspnoea Ear discomfort Emotional distress
- Encephalopathy Erythema Erythropenia Fatigue
- Foetor hepaticus Gastric disorder Gastrointestinal disorder
- Gastrointestinal pain Haemolytic anaemia Headache
- Hearing impaired Hepatic failure Hepatic function abnormal
- Hepatitis Hepatocellular injury Hyperglycaemia
- Hyperhidrosis Hypersensitivity Hyperuricaemia
- Hyperventilation Hypochloraemia Hypokalaemia
- Hyponatraemia Hypopituitarism Hypotension Inappropriate antidiuretic hormone secretion
- Jaundice Jaundice cholestatic
- Leukocytoclastic vasculitis Leukopenia Liver disorder
- Malnutrition Muscle spasms Musculoskeletal discomfort
- Musculoskeletal pain Myalgia Nausea Nephropathy
- Nervous system disorder Nipple pain Pain Pancytopenia
- Photosensitivity reaction Polyuria Porphyria Porphyria
- non-acute Premature ejaculation Pruritus Purpura Rash Renal failure
- Shock Tenderness Thrombocytopenia Toxic epidermal necrolysis
- Urticaria Vascular purpura Vasculitis Vertigo
- Vision blurred Visual impairment Vomiting

Cationic amino acid transporter 3 - Group: Transporter

Treated with:

l-lysine: approved, nutraceutical small molecule (0 associated side effects)
Supplemental L-lysine has putative anti-herpes simplex virus activity. There is preliminary research suggesting that it may have some anti-osteoporotic activity.

l-arginine: approved, nutraceutical small molecule (20 associated side effects)
Used for nutritional supplementation, also for treating dietary shortage or imbalance.

l-ornithine: approved, nutraceutical small molecule (0 associated side effects)
Used for nutritional supplementation,

also for treating dietary shortage or imbalance. It has been claimed that ornithine improves athletic performance, has anabolic effects, has wound-healing effects, and is immuno-enhancing.

20 known side effects mediated through drugs targeting this protein:

Anaphylactic shock Cyanosis Dermatitis Extravasation
Flushing Haematuria Headache Hypersensitivity
Hypoaesthesia Nausea Necrosis Platelet count
decreased Rash Rash macular Sensory loss Skin exfoliation
Skin necrosis Surgery Swelling Vomiting

Atrial natriuretic peptide receptor B - Group: Enzyme

Treated with:

erythryl tetranitrate: approved small molecule (0 associated side effects) For the prevention of angina.
nesiritide: approved biotech (0 associated side effects) For the intravenous treatment of patients with acutely decompensated congestive heart failure who have dyspnea at rest or with minimal activity.

known side effects mediated through drugs targeting this protein:

Gamma-hydroxybutyrate receptor - Group: Receptor

Treated with:

gamma hydroxybutyric acid: illicit,approved small molecule (0 associated side effects) Used as a general anesthetic, to treat conditions such as insomnia, clinical depression, narcolepsy, and alcoholism, and to improve athletic performance.

known side effects mediated through drugs targeting this protein:

Glycine receptor subunit alpha-3 - Group: Channel

Treated with:

glycine: approved,nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

lindane: approved small molecule (9 associated side effects)

For the treatment of patients infested with *Sarcoptes scabiei* or pediculosis capitis who have either failed to respond to adequate doses, or are intolerant of other approved therapies.

picROTOXIN: approved small molecule (0 associated side effects)

Used internally for relieving respiratory distress. Also for use as an antidote in poisoning by CNS depressants, especially barbiturates.

ivermectin: approved small molecule (47 associated side effects)

For the treatment of intestinal (i.e., nondisseminated) strongyloidiasis due to the nematode parasite *Strongyloides stercoralis*. Also for the treatment of onchocerciasis (river blindness) due to the nematode parasite *Onchocerca*

volvulus</i>. Can be used to treat scabies caused by
<i>Sarcoptes scabiei</i>.

77 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal sensation in eye
Acidosis Agitation Alopecia Anaemia Angina pectoris
Arthralgia Asthenia Asthma Back pain Blindness
Blindness transient Body temperature increased Chest
discomfort Chest pain Chills Chorioretinitis Choroiditis Coma
Conjunctivitis Constipation Convulsion Decreased
appetite Dehydration Dermatitis contact Diarrhoea Discomfort
Dizziness Dry mouth Electrolyte imbalance Encephalopathy
Eyelid oedema Fatigue Fluid overload Gastrointestinal
pain Headache Hyperammonaemia Hyperkinesia Hypersensitivity
Hypertrophy Hyponatraemia Hypotension Iridocyclitis
Keratitis Leukopenia Lung disorder Lymphadenopathy
Musculoskeletal discomfort Nausea Oedema Orthostatic
hypotension Pain Paraesthesia Polyuria Pruritus Pulmonary
congestion Rash Respiratory tract congestion Rhinitis Salivary
hypersecretion Somnolence Synovitis Tachycardia Tenderness
Thirst Thrombophlebitis Toxic epidermal necrolysis
Tremor Urinary retention Urticaria Uveitis Vertigo
Visual impairment Vomiting White blood cell count decreased

Macrophage colony-stimulating factor 1 receptor - Group: Enzyme
Treated with:

imatinib: approved small molecule (248 associated side
effects) For the treatment Philadelphia chromosome positive
chronic myeloid leukemia (CML) and malignant gastrointestinal
stromal tumors (GIST).
sunitinib: approved small molecule (198 associated side
effects) For the treatment of advanced renal cell carcinoma as
well as the treatment of gastrointestinal stromal tumor after
disease progression on or intolerance to imatinib mesylate.
5-cyano-furan-2-carboxylic acid [5-hydroxymethyl-2-(4-methyl-
piperidin-1-yl)-phenyl]-amide: experimental small molecule
(0 associated side effects)
6-chloro-3-(3-methylisoxazol-5-yl)-4-phenylquinolin-2(1h)-one:
experimental small molecule (0 associated side effects)

357 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Acute coronary syndrome Acute
febrile neutrophilic dermatosis Acute generalised exanthematous
pustulosis Acute hepatic failure Adrenal insufficiency Ageusia
Alanine aminotransferase increased Alopecia Alveolar
proteinosis Anaemia Angioedema Angiopathy Anxiety Aortic
dissection Aphagia Aphthous stomatitis Aplastic anaemia
Apoptosis Arrhythmia Arthralgia Ascites Aspartate
aminotransferase increased Assisted fertilisation Asthenia Back
pain Blindness Blindness cortical Blister Blood albumin
decreased Blood alkaline phosphatase increased Blood amylase
increased Blood bilirubin increased Blood creatine phosphokinase

increased Blood creatinine increased Blood disorder Blood
 glucose decreased Blood glucose increased Blood lactate
 dehydrogenase increased Blood magnesium decreased Blood
 phosphorus decreased Blood potassium decreased Blood potassium
 increased Blood sodium increased Blood thyroid stimulating hormone
 increased Blood urea increased Blood uric acid increased Body
 temperature increased Bone marrow necrosis Bone pain Bradycardia
 Brain oedema Breast enlargement Breast feeding
 Calcinosis Cardiac disorder Cardiac failure Cardiac failure
 congestive Cardiac hypertrophy Cardiac tamponade Cardiogenic shock
 Cardiomyopathy Cell death Cerebral haemorrhage Cerebral
 infarction Cerebrovascular accident Chest pain Chills
 Colitis Confusional state Congenital skin disorder
 Conjunctival haemorrhage Conjunctivitis Connective tissue
 disorder Constipation Convulsion Cough Cytogenetic
 abnormality Death Decreased appetite Deep vein thrombosis
 Dehydration Delirium tremens Depressed mood Dermatitis
 bullous Dermatitis exfoliative Dermatitis psoriasiform
 Diarrhoea Discomfort Disease progression Diverticulitis
 Dizziness Drug interaction Dry eye Dry mouth Dry skin
 Dysgeusia Dyspepsia Dyspnoea exertional Ecchymosis
 Effusion Ehlers-Danlos syndrome Ejection fraction Ejection
 fraction decreased Electrocardiogram PR interval Embolism
 Eosinophilia Epistaxis Erythema Erythema multiforme
 Eye disorder Eye oedema Face oedema Fatigue Febrile
 neutropenia Feeling abnormal Feeling cold Fibrosis Fistula
 Flank pain Flatulence Fluid retention Flushing Gastric
 haemorrhage Gastric ulcer Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal neoplasm Gastrointestinal pain
 Gastrointestinal perforation Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Generalised oedema
 Gingival pain Gingivitis Glaucoma Glossitis Glossodynia
 Gout Gynaecomastia Haematemesis Haematochezia
 Haematological malignancy Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoptysis Haemorrhage Haemorrhoids
 Hair colour changes Headache Hepatic enzyme increased
 Hepatic failure Hepatic necrosis Hepatitis Herpes simplex
 Herpes virus infection Herpes zoster Hypercalcaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hypernatraemia Hyperplasia Hypersensitivity Hypertension
 Hyperthyroidism Hypertrophy Hyperuricaemia Hypoalbuminaemia
 Hypocalcaemia Hypogeusia Hypoglycaemia Hypokalaemia
 Hyponatraemia Hypophosphataemia Hypotension Hypothyroidism
 Ileus Immunosuppression Infarction Infection Infestation
 Inflammation Influenza Influenza like illness Insomnia
 Interstitial lung disease Intestinal obstruction
 Intracranial pressure increased Ischaemia Jaundice Joint
 swelling Lacrimation increased Left ventricular dysfunction
 Leukoderma Leukoencephalopathy Leukopenia Lipase increased
 Liver disorder Loss of consciousness Lower respiratory
 tract infection Lung neoplasm malignant Lymphoma Lymphopenia
 Macular oedema Malaise Mastocytic leukaemia Mastocytoma
 Mediastinal disorder Melaena Memory impairment Menorrhagia
 Mental disorder Metastasis Metastatic neoplasm

Metrorrhagia Microangiopathy Migraine Mouth ulceration
 Mucosal dryness Mucosal inflammation Muscle spasms
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myelodysplastic syndrome Myeloproliferative disorder
 Myocardial ischaemia Myopathy Nail disorder
 Nasopharyngitis Nausea Necrosis Necrosis ischaemic
 Neoplasm malignant Nephropathy Nephropathy toxic Nephrotic
 syndrome Nervous system disorder Neuropathy peripheral
 Neutropenia Night sweats Obstruction Oedema Oedema
 peripheral Oesophagitis Opportunistic infection Optic
 neuritis Oral pain Oropharyngeal discomfort Oropharyngeal
 pain Osteonecrosis Ovarian disorder Pain Pain in extremity
 Pancreatic disorder Pancreatitis Pancytopenia
 Papilloedema Papilloma Paraesthesia Parity
 Pericardial effusion Pericarditis Periorbital oedema
 Peripheral coldness Petechiae Pharyngitis Photosensitivity
 reaction Pigmentation disorder Platelet count decreased
 Pleural disorder Pleural effusion Pneumonia Pollakiuria
 Posterior reversible encephalopathy syndrome Primary
 hypothyroidism Protein urine present Proteinuria Prurigo
 Pruritus Psoriasis Pulmonary embolism Pulmonary
 fibrosis Pulmonary haemorrhage Pulmonary oedema Purpura Rash
 erythematous Rash follicular Rash papular Rash vesicular
 Reflux oesophagitis Regressive behaviour Renal failure
 Renal failure acute Renal impairment Renal tubular disorder
 Respiratory tract infection Retinal haemorrhage
 Rhabdomyolysis Rhinitis Sciatica Sepsis Sexual
 dysfunction Sexually active Shock Sinusitis Skin discolouration
 Skin disorder Social avoidant behaviour Somnolence
 Splinter haemorrhages Stomatitis Swelling Syncope
 Systemic mastocytosis Tachycardia Tenderness Testicular
 disorder Thrombocytopenia Thrombosis Thrombotic microangiopathy
 Thyroid disorder Thyroiditis Tinnitus Tongue ulceration Toxic
 epidermal necrolysis Transient ischaemic attack Tumour lysis
 syndrome Tumour necrosis Ulcer Upper respiratory tract infection
 Vaginal discharge Varicella Vascular purpura Venous thrombosis
 Ventricular dysfunction Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vitreous haemorrhage Vomiting Weight decreased Weight
 increased Wound haemorrhage Yellow skin

Asialoglycoprotein receptor 2 - Group: Receptor

Treated with:

antihemophilic factor: approved biotech (0 associated side
 effects) For the treatment of hemophilia A, von Willebrand disease
 and Factor XIII deficiency

known side effects mediated through drugs targeting this protein:

Growth hormone receptor - Group: Receptor

Treated with:

somatropin recombinant: approved biotech (0 associated side effects) For treatment of dwarfism, acromegaly and prevention of HIV-induced weight loss
pegvisomant: approved biotech (0 associated side effects)
Pegvisomant is a growth hormone receptor antagonist used for the treatment of acromegaly.

known side effects mediated through drugs targeting this protein:

Glutamate [NMDA] receptor subunit 3B - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

halothane: approved small molecule (10 associated side effects)

For the induction and maintenance of general anesthesia

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

tenocyclidine: illicit, experimental small molecule (0 associated side effects) Because of its high affinity for the phencyclidine binding site on the NMDA receptor, the 3H radiolabelled form of tenocyclidine is widely used in research into NMDA receptors.

64 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Acidosis Agitation
Anaemia Anaphylactic shock Angina pectoris Aplastic
anaemia Arrhythmia Asthenia Back pain Blindness Blindness
transient Cardiac arrest Chills Coma Confusional state
Constipation Convulsion Dehydration Diarrhoea Dizziness
Dry mouth Electrolyte imbalance Encephalopathy Feeling
abnormal Fluid overload Hallucination Headache Hepatic
necrosis Hyperammonaemia Hyperkinesia Hyperpyrexia
Hypersensitivity Hyponatraemia Hypotension Lung disorder
Mydriasis Nausea Necrosis Oedema Pain
Palpitations Polyuria Pruritus Pulmonary congestion
Respiratory arrest Respiratory tract congestion Rhinitis
Salivary hypersecretion Skin disorder Somnolence
Tachycardia Tension Thirst Thrombophlebitis Tremor
Urinary hesitation Urinary retention Urticaria Vertigo
Vision blurred Visual impairment Vomiting

Anti-Muellerian hormone type-2 receptor - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
(0 associated side effects) For nutritional supplementation,
also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Membrane-bound lytic murein transglycosylase B - Group: Enzyme

Treated with:

bulgecin a: experimental small molecule (0 associated side effects)

bicine: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

H(+)/Cl(-) exchange transporter clcA - Group: Channel

Treated with:

n-octane: experimental small molecule (0 associated side effects)

pentadecane: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

ATP-sensitive inward rectifier potassium channel 11 - Group: Channel

Treated with:

glimepiride: approved small molecule (59 associated side effects) For concomitant use with insulin for the treatment of noninsulin-dependent (type 2) diabetes mellitus.

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or atrial flutter of recent onset to sinus rhythm.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

levosimendan: approved small molecule (0 associated side effects) For short term treatment of acutely decompensated severe chronic heart failure (CHF). Also being investigated for use/treatment in heart disease.

glyburide: approved small molecule (52 associated side effects)

Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

diazoxide: approved small molecule (124 associated side effects) Used parentally to treat hypertensive emergencies. Also used to treat hypoglycemia secondary to insulinoma.

thiamylal: approved small molecule (0 associated side effects)

Used for the production of complete anaesthesia of short

duration, for the induction of general anaesthesia, and for inducing a hypnotic state.

245 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain Acute coronary syndrome
Ageusia Agranulocytosis Albuminuria Alopecia
Anaemia Anaphylactic shock Angina pectoris Angioedema
Anxiety Aplastic anaemia Arrhythmia Arthralgia Aspartate aminotransferase increased
Asthenia Atrioventricular block complete Atrioventricular block first degree
Atrioventricular block second degree Atrioventricular dissociation Azotaemia
Back pain Balance disorder Blindness Blood creatine phosphokinase increased
Blood creatinine decreased Blood creatinine increased Blood immunoglobulin G decreased
Blood pressure increased Blood prolactin increased Blood urea increased
Body temperature increased Bradycardia Breast mass Bronchospasm
Bundle branch block Cardiac arrest Cardiac failure Cardiac failure congestive
Cardiomyopathy Cataract Cellulitis Cerebral ischaemia Cerebrovascular accident
Chest discomfort Chest pain Choking sensation Cholestasis Coma Confusional state
Conjunctival haemorrhage Constipation Convulsion Cough Deafness Decreased appetite
Depressive symptom Dermatitis atopic Diabetic hyperosmolar coma Diabetic ketoacidosis
Diarrhoea Diplopia Discomfort Disease progression Dissociation Disturbance
in sexual arousal Dizziness Drug interaction Dry mouth Dysgeusia Dyspepsia
Dyspnoea Ecchymosis Electrocardiogram abnormal Electrocardiogram change
Eosinophilia Erectile dysfunction Erythema Erythema multiforme Erythropenia
Euphoric mood Extrapyrarnidal disorder Extrasystoles Extravasation
Fatigue Feeling abnormal Feeling cold Fluid retention Flushing Galactorrhoea
Gastrointestinal disorder Gastrointestinal pain Gingival hyperplasia Glycosuria
Gout Gynaecomastia Haematuria Haemoglobin decreased Haemolytic anaemia
Haemorrhage Headache Hearing impaired Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatitis Herpes virus infection Hirsutism Hot flush
Hyperglycaemia Hyperhidrosis Hyperkeratosis Hyperplasia Hyperprolactinaemia
Hypersensitivity Hypertension Hypertrophic cardiomyopathy Hypertrophy
Hypoaesthesia Hypoglycaemia Hyponatraemia Hypopituitarism Hypotension
Ileus paralytic Ill-defined disorder Inappropriate antidiuretic hormone secretion
Increased appetite Infarction Infection Infection susceptibility increased
Influenza Injection site phlebitis Insomnia Intermittent claudication
Ischaemia Jaundice Jaundice cholestatic Joint swelling Ketoacidosis
Laboratory test abnormal Lacrimation increased Laryngospasm Lethargy
Leukocytoclastic vasculitis Leukocytosis Leukopenia Libido decreased
Liver disorder Liver function test abnormal Loss of consciousness Lymphadenopathy
Macule Malaise Malnutrition Mass Menopausal symptoms Muscle fatigue
Muscle spasms Muscular weakness Musculoskeletal discomfort Myalgia
Myocardial infarction Myocardial ischaemia Nausea

Necrosis Nephropathy Nephrotic syndrome Nervous system
 disorder Nervousness Neutropenia Nocturia Nodal arrhythmia
 Nystagmus Oedema Oedema peripheral Oligomenorrhoea Optic
 nerve disorder Optic nerve infarction Optic neuritis Orthostatic
 hypotension Pain Pain in extremity Palpitations Pancreatic
 necrosis Pancreatitis acute Pancytopenia Papilloedema
 Paraesthesia Paralysis Parotid gland enlargement
 Pharyngitis Phlebitis Photosensitivity reaction Platelet
 disorder Pollakiuria Polyneuropathy Porphyrria Porphyrria non-
 acute Pruritus Pulmonary oedema Purpura Quadriparesis Rash
 Rash maculo-papular Renal failure Respiratory failure
 Respiratory tract infection Rhinitis Rhythm idioventricular
 Salivary hypersecretion Scotoma Sensory loss Shock
 Sinus arrest Sinus bradycardia Sinus tachycardia Sinusitis
 Sleep disorder Somnolence Supraventricular extrasystoles
 Supraventricular tachycardia Swelling Syncope
 Tachyarrhythmia Tachycardia Tension Thrombocytopenia
 Tinnitus Tremor Upper respiratory tract infection
 Urinary tract infection Urticaria Vascular purpura
 Vasculitis Vasodilation procedure Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vision blurred Visual acuity reduced Visual
 impairment Vomiting

Solute carrier organic anion transporter family member 4C1 - Group:
 Transporter

Treated with:

liothyronine: approved small molecule (0 associated side
 effects) Used as replacement or supplemental therapy in patients
 with hypothyroidism of any etiology, except transient hypothyroidism
 during the recovery phase of subacute thyroiditis.

digoxin: approved small molecule (56 associated side effects)
 For the treatment and management of congestive cardiac
 insufficiency, arrhythmias and heart failure.

ouabain: approved small molecule (0 associated side effects)
 For the treatment of atrial fibrillation and flutter and heart
 failure

digitoxin: approved small molecule (0 associated side effects)
 For the treatment and management of congestive cardiac
 insufficiency, arrhythmias and heart failure.

liotrix: approved small molecule (0 associated side effects)
 May be used to treat primary, secondary or tertiary
 hypothyroidism. May also be used to suppress thyroid stimulating
 hormone (TSH) secretion in patients with simple (nontoxic) goiter,
 subacute or chronic lymphocytic thyroiditis multinodular goiter, and
 in the management of thyroid cancer. May be used in conjunction with
 other antithyroid agents to treat thyrotoxicosis to prevent
 goitrogenesis and hypothyroidism. May also be used for differential
 diagnosis of suspected mild hyperthyroidism or thyroid gland
 autonomy.

56 known side effects mediated through drugs targeting this protein:

Abdominal pain Anxiety Apathy Arrhythmia Asthenia
 Atrial tachycardia Atrioventricular block complete

Atrioventricular block first degree Atrioventricular block
 second degree Atrioventricular dissociation Bradycardia
 Cardiac arrest Cardiac disorder Cardioactive drug level
 Chorea Conduction disorder Confusional state Death
 Decreased appetite Delirium Dermatitis Diarrhoea
 Dissociation Dizziness Electrocardiogram PR prolongation
 Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram change Extrasystoles Feeling
 abnormal Flat affect Gastrointestinal necrosis Gastrointestinal
 pain Gynaecomastia Hallucination Headache Intestinal
 ischaemia Ischaemia Mesenteric vascular insufficiency Nausea
 Necrosis Pain Palpitations Poisoning Psychotic
 disorder Rash Rash maculo-papular Sinus bradycardia Tachycardia
 Thrombocytopenia Ventricular extrasystoles Ventricular
 fibrillation Ventricular tachycardia Visual impairment
 Vomiting Xanthopsia

Bile acid receptor - Group: Receptor

Treated with:

fexaramine: experimental small molecule (0 associated side effects)

chenodeoxycholic acid: approved small molecule (0 associated side effects) Chenodiol is indicated for patients with radiolucent stones in well-opacifying gallbladders, in whom selective surgery would be undertaken except for the presence of increased surgical risk due to systemic disease or age. Chenodiol will not dissolve calcified (radiopaque) or radiolucent bile pigment stones.

(8alpha,10alpha,13alpha,17beta)-17-[(4-hydroxyphenyl)carbonyl]androsta-3,5-diene-3-carboxylic acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Sodium- and chloride-dependent GABA transporter 1 - Group:

Transporter

Treated with:

tiagabine: approved small molecule (278 associated side effects) For the treatment of partial seizures

278 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Abnormal faeces Abscess Acne
 Acute coronary syndrome Affect lability Ageusia
 Agitation Alopecia Amblyopia Amenorrhoea Anaemia
 Angina pectoris Angiopathy Anxiety Apathy Apnoea
 Arthralgia Arthritis Arthropathy Asthenia Asthma
 Ataxia Back pain Benign neoplasm Benign neoplasm of
 skin Bladder pain Blepharitis Blindness Body temperature
 increased Breast enlargement Breast pain Breath odour
 Bronchitis Bursitis Cellulitis Central nervous system
 neoplasm Cerebral ischaemia Chest pain Chills

Cholecystitis Cholelithiasis Choreoathetosis Coma
 Completed suicide Confusional state Conjunctivitis
 Constipation Coordination abnormal Cough Cystitis
 Cystitis noninfective Deafness Death Decreased appetite
 Dehydration Delusion Dental caries Depersonalisation
 Depressed level of consciousness Dermatitis bullous
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disturbance in attention Disturbance
 in sexual arousal Dizziness Dry mouth Dry skin Dysarthria
 Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysphonia Dyspnoea Dystonia Dysuria Ear infection
 Ear pain Ecchymosis Eczema Electrocardiogram abnormal
 Encephalopathy Epilepsy Epistaxis Erectile dysfunction
 Eructation Euphoric mood Eye pain Face oedema Faecal
 incontinence Fatigue Feeling abnormal Fibrocystic breast
 disease Flat affect Flatulence Furuncle Gait disturbance
 Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival hyperplasia Gingivitis
 Glossitis Goitre Haematuria Haemoglobin Haemoptysis
 Haemorrhage Hallucination Headache Hemiplegia
 Hepatomegaly Hernia Herpes simplex Herpes virus
 infection Herpes zoster Hiccups Hirsutism Hostility
 Hyperacusis Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkinesia Hyperlipidaemia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension Hypertonia
 Hypertrophy Hyperventilation Hypoaesthesia Hypoglycaemia
 Hypokalaemia Hypokinesia Hyponatraemia Hyporeflexia
 Hypotension Hypothyroidism Hypotonia Ill-defined disorder
 Incontinence Increased appetite Infarction Infection
 Influenza Insomnia Irritability Ischaemia Keratitis
 Laryngitis Leukopenia Libido decreased Libido increased Liver
 function test abnormal Loss of consciousness Lymphadenopathy
 Malaise Melaena Menorrhagia Mental disability
 Metrorrhagia Micturition urgency Migraine Mood swings
 Mouth ulceration Movement disorder Muscle contracture
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myoclonus Nausea Neck pain Neoplasm Neoplasm
 malignant Nervousness Neuritis Neuropathy peripheral Neurosis
 Nocturia Nodule Nuchal rigidity Nystagmus Oedema
 Oedema peripheral Oesophagitis Orthostatic hypotension
 Osteoarthritis Otitis externa Otitis media Pain
 Pallor Palpitations Paraesthesia oral Paralysis
 Paranoia Parosmia Pelvic pain Peripheral vascular disorder
 Personality disorder Petechiae Pharyngitis Phlebitis
 Photophobia Photosensitivity reaction Pneumonia Pollakiuria
 Polyuria Pruritus Psoriasis Psychotic disorder
 Pyelonephritis Rash maculo-papular Rash pustular
 Rectal haemorrhage Red blood cell abnormality Renal
 failure Respiratory disorder Rhinitis Salivary
 hypersecretion Salpingitis Scotoma Sepsis Shock Sinusitis
 Skin cancer Skin ulcer Smear cervix abnormal Somnolence
 Speech disorder Stomatitis Stupor Subcutaneous nodule
 Sudden death Suicide attempt Syncope Tachycardia

Tendinous contracture Tension Thinking abnormalThirst
Thrombocytopenia Thrombophlebitis Tinnitus Tooth abscess
Tremor Ulcer Urethritis Urinary incontinence Urinary
retention Urinary tract infection Urine output increased
Urticaria Vaginal haemorrhage Vaginal infectionVaginal
inflammation Vasodilation procedure Vertigo Visual acuity
reduced Visual impairmentVomiting Weight decreased Weight
increased

Extracellular calcium-sensing receptor - Group: Receptor

Treated with:

cinacalcet: approved small molecule (37 associated side effects)

For the treatment of secondary hyperparathyroidism in patients with Chronic Kidney Disease who are on hemodialysis or peritoneal dialysis. Also for the treatment of hypercalcemia in patients with parathyroid carcinoma.

37 known side effects mediated through drugs targeting this protein:

Abdominal pain Arthralgia Asthenia Body temperature increased
Cardiac failure Chest pain Convulsion Cough Decreased
appetite Dermatitis Diarrhoea Dizziness Dyspepsia Dyspnoea
Fatigue Gastrointestinal pain Headache Hypersensitivity
Hypertension Hypocalcaemia Hypotension Infection
Muscle spasms Musculoskeletal discomfort Myalgia
Nausea Oedema Oedema peripheralPain Pain in extremity
Paraesthesia Pruritus Rash Tetany Thrombosis Upper
respiratory tract infection Vomiting

Epithelial discoidin domain-containing receptor 1 - Group: Enzyme

Treated with:

imatinib: approved small molecule (248 associated side effects) For the treatment Philadelphia chromosome positive chronic myeloid leukemia (CML) and malignant gastrointestinal stromal tumors (GIST).

248 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain Acute febrile neutrophilic dermatosis Acute generalised exanthematous pustulosis Acute hepatic failure Alanine aminotransferase increased Alopecia Alveolar proteinosis Anaemia Angioedema Angiopathy Anxiety Aphagia Aplastic anaemia Apoptosis Arthralgia Ascites Aspartate aminotransferase increased Assisted fertilisation Asthenia Back pain Blister Blood alkaline phosphatase increased Blood bilirubin increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood lactate dehydrogenase increased Blood urea increased Body temperature increased Bone marrow necrosis Bone pain Brain oedema Breast enlargement Breast feeding Calcinosis Cardiac disorder Cardiac failure Cardiac failure congestive Cardiac hypertrophy Cardiac tamponadeCardiogenic shock Cardiomyopathy Cell death Cerebral haemorrhage Chest pain Chills Colitis Confusional stateConjunctival

haemorrhage Conjunctivitis Constipation Convulsion Cough
 Cytogenetic abnormality Death Decreased appetite
 Dehydration Delirium tremens Dermatitis bullous Dermatitis
 exfoliative Diarrhoea Disease progression Diverticulitis
 Dizziness Drug interaction Dry eye Dry skin Dysgeusia
 Dyspepsia Dyspnoea exertional Ecchymosis Effusion
 Ehlers-Danlos syndrome Embolism Eosinophilia Epistaxis
 Erythema Erythema multiforme Eye oedema Face oedema
 Fatigue Febrile neutropenia Feeling abnormal Feeling
 cold Fibrosis Flatulence Fluid retention Flushing Gastric
 ulcer Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal neoplasm Gastrointestinal pain
 Gastrointestinal perforation Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Generalised oedema
 Glaucoma Gout Gynaecomastia Haematochezia
 Haematological malignancy Haematuria Haemoglobin Haemorrhage
 Headache Hepatic enzyme increased Hepatic failure
 Hepatic necrosis Hepatitis Herpes simplex Herpes virus
 infection Herpes zoster Hyperhidrosis Hyperkalaemia
 Hyperplasia Hypersensitivity Hypertension Hypertrophy
 Hypokalaemia Hyponatraemia Hypophosphataemia Hypotension
 Ileus Immunosuppression Infection Inflammation Influenza
 Insomnia Interstitial lung disease Intestinal obstruction
 Intracranial pressure increased Jaundice Joint swelling
 Lacrimation increased Left ventricular dysfunction Leukopenia
 Liver disorder Loss of consciousness Lower respiratory
 tract infection Lymphoma Lymphopenia Macular oedema Mastocytic
 leukaemia Mastocytoma Memory impairment Menorrhagia Metastatic
 neoplasm Migraine Mouth ulceration Muscle spasms
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myelodysplastic syndrome Myeloproliferative disorder Nail
 disorder Nasopharyngitis Nausea Necrosis Necrosis
 ischaemic Neoplasm malignant Nephropathy Nephropathy toxic
 Nephrotic syndrome Neuropathy peripheral Neutropenia Night
 sweats Obstruction Oedema Oedema peripheral Opportunistic
 infection Optic neuritis Oropharyngeal discomfort
 Oropharyngeal pain Osteonecrosis Ovarian disorder Pain
 Pancreatic disorder Pancreatitis Pancytopenia
 Papilloedema Papilloma Paraesthesia Parity
 Pericardial effusion Pericarditis Periorbital oedema
 Peripheral coldness Petechiae Pharyngitis Photosensitivity
 reaction Pigmentation disorder Pleural disorder Pleural effusion
 Pneumonia Pollakiuria Pruritus Psoriasis Pulmonary
 fibrosis Pulmonary oedema Purpura Rash vesicular Renal
 failure Renal impairment Renal tubular disorder Respiratory tract
 infection Retinal haemorrhage Rhinitis Sciatica Sepsis
 Sexual dysfunction Sexually active Shock Sinusitis Skin
 disorder Somnolence Stomatitis Swelling Syncope Systemic
 mastocytosis Tachycardia Tenderness Testicular disorder
 Thrombocytopenia Thrombosis Tinnitus Toxic epidermal
 necrolysis Tumour lysis syndrome Tumour necrosis Ulcer Upper
 respiratory tract infection Vaginal discharge Varicella Vascular
 purpura Ventricular dysfunction Vertigo Viral infection

Vision blurred Vitreous haemorrhage Vomiting Weight
decreased Weight increased

Hypothetical membrane spanning protein - Group: Other

Treated with:

ubiquinone-1: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

Vasopressin V1b receptor - Group: Receptor

Treated with:

desmopressin: approved small molecule (0 associated side
effects) Oral formulations may be used to manage primary nocturnal
enuresis in adults and vasopressin sensitive diabetes insipidus, and
for control of temporary polyuria and polydipsia following head
trauma or surgery in the pituitary region. Intranasal and parenteral
formulations may be used to manage spontaneous or trauma-induced
bleeds (e.g. hemarthrosis, intramuscular hematoma, mucosal bleeding)
in patients with hemophilia A or von Willebrand's disease Type I.
May also be used parenterally to prevent or treat bleeding in
patients with uremia.

terlipressin: approved small molecule (0 associated side
effects) Commonly used to stop bleeding of varices in the food
pipe (oesophagus).

known side effects mediated through drugs targeting this protein:

Neutral amino acid transporter A - Group: Transporter

Treated with:

l-alanine: approved, nutraceutical small molecule (0 associated
side effects) Used for protein synthesis.

known side effects mediated through drugs targeting this protein:

Proteinase-activated receptor 1 - Group: Receptor

Treated with:

streptokinase: approved biotech (0 associated side effects)
For the treatment of acute evolving transmural myocardial
infarction, pulmonary embolism, deep vein thrombosis, arterial
thrombosis or embolism and occlusion of arteriovenous cannulae

known side effects mediated through drugs targeting this protein:

Adenosine A1 receptor - Group: Receptor

Treated with:

caffeine: approved small molecule (32 associated side effects)

For management of fatigue, orthostatic hypotension, and for the short term treatment of apnea of prematurity in infants.

theophylline: approved small molecule (60 associated side effects) For the treatment of the symptoms and reversible airflow obstruction associated with chronic asthma and other chronic lung diseases, such as emphysema and chronic bronchitis.

adenosine: approved small molecule (32 associated side effects)

Used as an initial treatment for the termination of paroxysmal supraventricular tachycardia (PVST), including that associated with accessory bypass tracts, and is a drug of choice for terminating stable, narrow-complex supraventricular tachycardias (SVT). Also used as an adjunct to thallous chloride TI 201 myocardial perfusion scintigraphy (thallium stress test) in patients who are unable to exercise adequately, as well as an adjunct to vagal maneuvers and clinical assessment to establish a specific diagnosis of undefined, stable, narrow-complex SVT.

dyphylline: approved small molecule (27 associated side effects)

For relief of acute bronchial asthma and for reversible bronchospasm associated with chronic bronchitis and emphysema.

pentoxifylline: approved small molecule (93 associated side effects) For the treatment of patients with intermittent lameness or immobility arising from chronic occlusive arterial disease of the limbs.

gabapentin: approved small molecule (456 associated side effects) For the management of postherpetic neuralgia in adults and as adjunctive therapy in the treatment of partial seizures with and without secondary generalization in patients over 12 years of age with epilepsy.

aminophylline: approved small molecule (41 associated side effects) For the treatment of bronchospasm due to asthma, emphysema and chronic bronchitis.

oxtriphylline: approved small molecule (0 associated side effects) Used to treat the symptoms of asthma, bronchitis, and emphysema.

theobromine: approved small molecule (0 associated side effects) theobromine is used as a vasodilator, a diuretic, and heart stimulant. And similar to caffeine, it may be useful in management of fatigue and orthostatic hypotension.

defibrotide: approved biotech (0 associated side effects)

Defibrotide is used to treat or prevent a failure of normal blood flow (occlusive venous disease, OVD) in the liver of patients who have had bone marrow transplants or received certain drugs such as oral estrogens, mercaptopurine, and many others.

529 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal dreams Abnormal faeces
Abscess Acidosis Acne Acute coronary syndrome
Affect lability Ageusia Agitation Albuminuria Alcohol
intolerance Alopecia Amblyopia Amenorrhoea Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Angina pectoris
Angioedema Angiopathy Anorectal disorder Antidiuretic
hormone abnormality Antisocial behaviour Antisocial personality

disorder Anuria Anxiety Aortic dissection Apathy
 Aphasia Aplastic anaemia Apnoea Apraxia Areflexia
 Arrhythmia Arthralgia Arthritis Arthropathy Asocial behaviour
 Aspiration Asthenia Asthma Ataxia Atrial
 fibrillation Atrial tachycardia Atrioventricular block Aura
 Back pain Bladder pain Bleeding time prolonged
 Blindness Blister Blood alkaline phosphatase increased
 Blood antidiuretic hormone abnormal Blood creatinine
 increased Blood lactate dehydrogenase increased Blood pressure
 increased Blood sodium increased Blood urea abnormal Blood uric
 acid increased Body temperature increased Bone pain Bradycardia
 Breast cancer Breast enlargement Breast pain Bronchitis
 Bronchospasm Burning sensation Bursitis Candidiasis
 Capillary fragility increased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiovascular disorder
 Cataract Cellulitis Central nervous system neoplasm
 Cerebellar syndrome Cerebral haemorrhage Cerebrovascular
 accident Cheilitis Chest discomfort Chest pain Chills
 Cholecystitis Cholelithiasis Cholestasis Choreoathetosis
 Chorioretinitis Chronic obstructive pulmonary disease
 Clonic convulsion Coagulopathy Colitis Completed suicide
 Confusional state Conjunctival hyperaemia Conjunctivitis
 Connective tissue disorder Constipation Conversion
 disorder Convulsion Coordination abnormal Corneal disorder
 Costochondritis Cough Cushingoid Cystitis Cystitis
 noninfective Dandruff Deafness Death Decreased appetite
 Deep vein thrombosis Dehydration Dependence Depersonalisation
 Depressed level of consciousness Dermatitis Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Diabetes
 mellitus Diabetic ketoacidosis Diabetic retinopathy
 Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Disturbance in sexual arousal Dizziness Drug abuse Dry
 eye Dry mouth Dry skin Dry throat Duodenal ulcer
 Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dystonia Dysuria Ear infection Ear pain Ecchymosis
 Eczema Effusion Ejaculation disorder Embolism
 Encephalopathy Enterocolitis Epididymitis Epistaxis
 Erectile dysfunction Eructation Erythema multiforme
 Euphoric mood Eustachian tube disorder Extensor plantar
 response Extrasystoles Extravasation Eye disorder Eye
 haemorrhage Eye pain Eye pruritus Eyelid ptosis Face oedema
 Faecal incontinence Fatigue Feeling abnormal Feeling
 jittery Flat affect Flatulence Fluid overload Fluid retention
 Flushing Fungal skin infection Furuncle Gait disturbance
 Gamma-glutamyltransferase increased Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
 Generalised oedema Genital discharge Gingival bleeding
 Gingivitis Glaucoma Glossitis Glycosuria Goitre Gout
 Grand mal convulsion Gynaecomastia Haematemesis
 Haematochezia Haematoma Haematuria Haemodynamic
 instability Haemoglobin Haemoptysis Haemorrhage Haemorrhage

intracranial Haemorrhoids Hair disorder Hallucination
Hangover Headache Hearing impaired Hemiplegia Hepatic
enzyme increased Hepatic failure Hepatic function abnormal
Hepatitis Hepatitis cholestatic Hepatitis fulminant
Hepatobiliary disease Hepatomegaly Hernia Herpes
simplex Herpes virus infection Herpes zoster Hiccups
Hirsutism Hordeolum Hostility Hyperaemia Hyperaesthesia
Hypercalcaemia Hypercholesterolaemia Hyperglycaemia
Hyperhidrosis Hyperkinesia Hyperlipidaemia
Hyperreflexia Hypersensitivity Hypertension Hypertonia
Hypertrophy Hyperuricaemia Hyperventilation Hypoaesthesia
Hypoglycaemia Hypokalaemia Hypokinesia Hyponatraemia
Hyporeflexia Hypotension Hypothyroidism Hypotonia
Hypoventilation Hypoxia Ill-defined disorder Immune
system disorder Impaired healing Inappropriate antidiuretic hormone
secretion Incontinence Increased appetite Infarction
Infection Infectious mononucleosis Infestation Influenza
Inner ear disorder Insomnia Intentional self-injury
Interstitial lung disease Intestinal functional disorder
Intestinal obstruction Intestinal ulcer Iritis
Irritability Irritable bowel syndrome Jaundice Joint
stiffness Joint swelling Ketoacidosis Labyrinthitis
Lacrimation increased Laryngitis Lethargy Leukaemia
Leukopenia Libido decreased Libido increased Lip haemorrhage
Liver function test abnormal Loss of consciousness Loss of
libido Lung disorder Lymphadenopathy Lymphocytosis
Lymphoma Malaise Mania Mass Mediastinal disorder
Melaena Melanosis Memory impairment Meningism Meningitis
Meningitis aseptic Menorrhagia Menstrual disorder
Mental disability Mental disorder Micturition urgency
Migraine Miosis Mood swings Mouth ulceration Movement
disorder Mucosal inflammation Mucous membrane disorder
Muscle contracture Muscle relaxant therapy Muscle
spasms Muscle twitching Muscular weakness Musculoskeletal
discomfort Musculoskeletal stiffness Myalgia Myocardial
infarction Myoclonus Nail disorder Nasal congestion Nasal
obstruction Nasopharyngitis Nausea Neck mass Neck pain
Necrosis Necrotising colitis Necrotising enterocolitis
neonatal Neoplasm Neoplasm malignant Nephrolithiasis
Nephrotic syndrome Nervous system disorder Nervousness
Neuropathy peripheral Neurosis Nocturia Nodule
Nystagmus Obstruction Occipital neuralgia Oedema
Oedema peripheral Oesophageal disorder Oesophageal spasm
Oesophagitis Oral candidiasis Oropharyngeal discomfort
Oropharyngeal pain Osteoarthritis Osteoporosis
Otitis externa Otitis media Ovarian failure Pain Pain
in extremity Palpitations Pancreatitis Pancytopenia
Papule Paraesthesia Paraesthesia oral Paralysis
Paranoia Paresis Pelvic pain Penile swelling Penis
disorder Peptic ulcer Pericardial effusion Pericardial rub
Pericarditis Peripheral vascular disorder Personality
disorder Pharyngitis Phlebitis Photophobia Photosensitivity
reaction Pneumonia aspiration Poisoning Pollakiuria Polyuria
Proctitis Prothrombin level decreased Pruritus Pruritus
genital Pseudolymphoma Psoriasis Psychotic disorder

Pulmonary embolism Pulmonary oedema Pulmonary thrombosis
 Purpura Pyelonephritis Pyuria Rash Rash maculo-
 papular Rash pustular Rectal haemorrhage Renal failure
 Renal failure acute Renal impairment Renal pain Respiratory
 failure Respiratory tract infection Retinal degeneration
 Retinal disorder Retinal vein thrombosis Retinopathy of
 prematurity Rhabdomyolysis Rhinitis Rhinitis seasonal Salivary
 gland enlargement Salivary hypersecretion Scotoma Scrotal
 disorder Scrotal swelling Seasonal allergy Seborrhoeic dermatitis
 Sensory loss Sepsis Shock Sinus tachycardia Sinusitis
 Skin cancer Skin discolouration Skin disorder Skin
 exfoliation Skin hypertrophy Skin necrosis Skin odour abnormal
 Skin ulcer Sleep disorder Snoring Somnambulism
 Somnolence Speech disorder Stomatitis Strabismus Stupor
 Subcutaneous nodule Subdural haematoma Suicidal
 behaviour Suicide attempt Supraventricular extrasystoles
 Supraventricular tachycardia Swelling Syncope Tachycardia
 Tachypnoea Tenderness Tendon disorder Tendonitis Tension
 Testicular pain Thinking abnormal Thirst Throat tightness
 Thrombocytopenia Thrombophlebitis Thrombosis Tinnitus
 Tongue disorder Tooth abscess Tooth discolouration Tooth
 disorder Torsade de pointes Tremor Ulcer Upper respiratory
 tract infection Urethral disorder Urinary incontinence Urinary
 retention Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urticaria Uterovaginal prolapse VIIIth nerve paralysis
 Vaginal haemorrhage Varicose vein Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Vestibular disorder Viral diarrhoea Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
 infection Vulvovaginal pain Weight decreased Weight increased White
 blood cell count decreased

Retinoic acid receptor alpha - Group: Receptor

Treated with:

adapalene: approved small molecule (35 associated side effects)
 For the topical treatment of comedo, papular and pustular acne
 (acne vulgaris) of the face, chest or back.
 acitretin: approved small molecule (165 associated side
 effects) For the treatment of severe psoriasis in adults.
 alitretinoin: approved small molecule (0 associated side
 effects) For topical treatment of cutaneous lesions in patients
 with AIDS-related Kaposi's sarcoma.
 tazarotene: approved small molecule (23 associated side effects)
 Used to treat psoriasis, acne and sun damaged skin
 (photodamage).
 etretinate: withdrawn small molecule (0 associated side effects)
 For the treatment of severe psoriasis in adults.
 isotretinoin: approved small molecule (0 associated side
 effects) For the treatment of severe recalcitrant nodular acne
 tamibarotene: approved small molecule (0 associated side
 effects) Investigated for use/treatment in leukemia (unspecified).

195 known side effects mediated through drugs targeting this protein:

Abdominal pain Acne Ageusia Alcohol intolerance Alopecia
Angioedema Anorectal discomfort Anorectal disorder
Arthralgia Arthritis Arthropathy Asthenia Atopy Atrophy
Back pain Balanoposthitis Benign intracranial hypertension
Bleeding time prolonged Blepharitis Blister Blood
creatinine increased Blood triglycerides increased Blood uric
acid increased Body temperature increased Bone pain Burning
sensation Bursitis Calcinosis Candidiasis Cataract subcapsular
Cerumen impaction Chapped lips Cheilitis Chest pain
Chills Cold sweat Congenital eye disorder
Conjunctivitis Constipation Convulsion Corneal
neovascularisation Cough Crocodile tears syndrome Deafness
Decreased appetite Dermatitis atopic Dermatitis bullous
Dermatitis contact Diarrhoea Discomfort Dry eye Dry
mouth Dry skin Dysgeusia Dyspepsia Dysphonia Dysuria Ear
infection Ear pain Eczema Epistaxis Erectile dysfunction
Erythema Exostosis Eye disorder Eye irritation Eye
pain Eyelid oedema Face oedema Facial pain Fatigue Febrile
neutropenia Feeling abnormal Flushing Foetal disorder Gait
disturbance Gastrointestinal pain Genital discharge Gingival bleeding
Gingivitis Glossitis Granuloma Haemoglobin Haemorrhage Hair
texture abnormal Headache Hepatitis Herpes simplex Herpes
virus infection High density lipoprotein decreased Hordeolum Hot
flush Hyperaesthesia Hypercholesterolaemia Hyperhidrosis
Hyperlipidaemia Hypersensitivity Hypertonia
Hypertriglyceridaemia Hypertrophy Hypervitaminosis
Hypervitaminosis A Hypoaesthesia Ill-defined disorder
Impaired healing Increased appetite Infection
Inflammation Insomnia Interstitial lung disease
Iritis Jaundice Keratitis Lacrimation decreased
Lacrimation increased Laryngitis Lip dry Lip swelling
Liver function test abnormal Localised oedema Madarosis
Malaise Mass Melaena Menopausal symptoms Mouth
ulceration Muscle spasms Muscular weakness Musculoskeletal
discomfort Myalgia Nasal dryness Nausea Nervousness
Neutropenia Nodule Oedema Oedema peripheral Optic
neuritis Osteoarthritis Otitis externa Pain Pancreatitis
Pancytopenia Papilloedema Pharyngitis Photophobia
Photosensitivity reaction Proctalgia Pruritus Purpura
Pyogenic granuloma Rash Rash vesicular Rectal tenesmus
Retinal haemorrhage Rhinitis Saliva altered Salivary
hypersecretion Scab Scotoma Seborrhoeic dermatitis
Sensitisation Sinusitis Skin atrophy Skin
discolouration Skin disorder Skin exfoliation Skin fissures
Skin hyperpigmentation Skin hypertrophy Skin irritation Skin
mass Skin oedema Skin ulcer Somnolence Sticky skin Stomatitis
Swelling Tension Thirst Tinnitus Tongue ulceration
Ulcer Urinary tract infection Urine abnormality Urine
analysis abnormal Urticaria Vascular purpura Vasculitis Vision
blurred Visual acuity reduced Vulvovaginitis Weight decreased
White blood cell count decreased Xerophthalmia

Low affinity immunoglobulin gamma Fc region receptor II-b - Group:
Receptor

Treated with:

cetuximab: approved biotech (0 associated side effects) For treatment of EGFR-expressing metastatic colorectal cancer in patients who are refractory to other irinotecan-based chemotherapy regimens. Cetuximab is also indicated for treatment of squamous cell carcinoma of the head and neck in conjunction with radiation therapy.

etanercept: approved biotech (0 associated side effects) For treatment of severe active rheumatoid arthritis in adults, severe juvenile idiopathic arthritis, ankylosing spondylitis, and severe plaque psoriasis.

intravenous immunoglobulin: approved biotech (0 associated side effects) IVIg is used in the treatment of immunodeficiencies, as well as autoimmune and inflammatory disorders. These indications includes idiopathic thrombocytopenic purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic lymphocytic leukemia, bone marrow transplant complications, Guillain-Barré syndrome, chronic inflammatory demyelinating polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis, myasthenia gravis, Wiskott-Aldrich syndrome and inflammatory skin diseases.

adalimumab: approved biotech (0 associated side effects) For treatment of rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, and Crohn's disease.

abciximab: approved biotech (0 associated side effects)
gemtuzumab ozogamicin: approved biotech (0 associated side effects) For treatment of CD33-positive acute myeloid leukemia in patients 60 and over who are not candidates for other chemotherapy.

trastuzumab: approved biotech (0 associated side effects)
For treatment of early stage HER2-positive breast cancer, or metastatic breast cancer that substantially overexpress HER2.

rituximab: approved biotech (0 associated side effects) For treatment of CD20-positive non-Hodgkins lymphoma, chronic lymphocytic leukemia, and rheumatoid arthritis.

basiliximab: approved biotech (0 associated side effects)
For prophylactic treatment of kidney transplant rejection

muromonab: approved biotech (0 associated side effects) For treatment of organ transplant recipients, prevention of organ rejection

ibrutumomab: approved biotech (0 associated side effects)
For treatment of non-Hodgkin's lymphoma

tositumomab: approved biotech (0 associated side effects)
For treatment of non-Hodgkin's lymphoma (CD20 positive, follicular)

alemtuzumab: approved biotech (0 associated side effects)
Alemtuzumab (Campath) is a monoclonal antibody therapy used for treatment of B-cell chronic lymphocytic leukemia.

alefacept: approved biotech (0 associated side effects) As an immunosuppressive drug, Alefacept can be used for treatment of moderate to severe chronic plaque psoriasis

efalizumab: approved biotech (0 associated side effects) For the treatment of adult patients with moderate to severe chronic plaque psoriasis, who are candidates for phototherapy or systemic therapy.

antithymocyte globulin: approved biotech (0 associated side effects) For prevention of renal transplant rejection

natalizumab: approved biotech (0 associated side effects) For treatment of multiple sclerosis.

palivizumab: approved biotech (0 associated side effects) For prophylaxis of respiratory diseases caused by respiratory syncytial virus.

daclizumab: approved biotech (0 associated side effects) Zenapax is a humanized monoclonal antibody used for prevention of renal transplant rejection

bevacizumab: approved biotech (0 associated side effects) As part of combination therapy for metastatic colorectal cancer and HER2-negative metastatic breast cancer.

known side effects mediated through drugs targeting this protein:

Glutamate receptor 2 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

butabarbital: illicit, approved small molecule (0 associated side effects) For short-term treatment of insomnia and anxiety disorders

butalbital: illicit, approved small molecule (0 associated side effects) Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.

talbutal: illicit, approved small molecule (0 associated side effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

thiopental: approved small molecule (0 associated side effects) For use as the sole anesthetic agent for brief (15 minute)

procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

primidone: approved small molecule (16 associated side effects)
 For the treatment of epilepsy
 methylphenobarbital: approved small molecule (37 associated
 side effects) For the relief of anxiety, tension, and
 apprehension, also used as an anticonvulsant for the treatment of
 epilepsy.
 quinidine barbiturate: approved small molecule (0 associated
 side effects)
 amobarbital: illicit,approved small molecule (0 associated
 side effects)
 aprobarbital: illicit,approved small molecule (0 associated
 side effects)
 butethal: illicit,approved small molecule (0 associated side
 effects) For the treatment of insomnia.
 heptabarbital: approved small molecule (0 associated side
 effects) Used mainly for sedation and hypnosis.
 hexobarbital: approved small molecule (0 associated side
 effects) For the induction of anesthesia prior to the use of other
 general anesthetic agents and for induction of anesthesia for short
 surgical, diagnostic, or therapeutic procedures associated with
 minimal painful stimuli.
 barbituric acid derivative: illicit,experimental small molecule
 (0 associated side effects)
 (s)-des-me-ampa: experimental small molecule (0 associated
 side effects)
 2-amino-3-(5-tert-butyl-3-(phosphonomethoxy)-4-isoxazolyl)propionic
 acid: experimental small molecule (0 associated side effects)
 iodo-willardiine:experimental small molecule (0 associated
 side effects)
 fluoro-willardiine: experimental small molecule (0
 associated side effects)
 quisqualate: experimental small molecule (0 associated
 side effects)
 (s)-2-amino-3-(1,3,5,7-pentahydro-2,4-dioxo-cyclopenta[e]pyrimidin-
 1-yl) proionic acid: experimental small molecule (0
 associated side effects)
 (s)-atpa: experimental small molecule (0 associated side
 effects)
 dnqx: experimental small molecule (0 associated side effects)
 bromo-willardiine: experimental small molecule (0
 associated side effects)
 2-amino-3-(3-hydroxy-7,8-dihydro-6h-cyclohepta[d]-4-
 isoxazolyl)propionic acid: experimental small molecule (0
 associated side effects)
 aniracetam: experimental small molecule (0 associated side
 effects)
 thio-atpa: experimental small molecule (0 associated side
 effects)
 n,n'-[biphenyl-4,4'-diyl]di(2r)propane-2,1-diyl]dimethanesulfonamide:
 experimental small molecule (0 associated side effects)
 2,3,6a,7,8,9-hexahydro-11h-[1,4]dioxino[2,3-g]pyrrolo[2,1-
 b][1,3]benzoxazin-11-one: experimental small molecule (0
 associated side effects)

(3s)-3-cyclopentyl-6-methyl-7-[(4-methylpiperazin-1-yl)sulfonyl]-3,4-dihydro-2h-1,2,4-benzothiadiazine 1,1-dioxide: experimental small molecule (0 associated side effects)
 (3r)-3-cyclopentyl-7-[(4-methylpiperazin-1-yl)sulfonyl]-3,4-dihydro-2h-1,2-benzothiazine 1,1-dioxide: experimental small molecule (0 associated side effects)
 (3r)-3-cyclopentyl-6-methyl-7-[(4-methylpiperazin-1-yl)sulfonyl]-3,4-dihydro-2h-1,2-benzothiazine 1,1-dioxide: experimental small molecule (0 associated side effects)

64 known side effects mediated through drugs targeting this protein:

Agitation Agranulocytosis Anaemia Anaemia megaloblastic
 Angioedema Anxiety Aplasia Apnoea Arthralgia
 Asthenia Asthma Ataxia Body temperature increased
 Bradycardia Confusional state Constipation Cytolytic
 hepatitis Decreased appetite Delirium Depressed level of
 consciousness Dermatitis Dermatitis exfoliative Diplopia
 Dizziness Emotional disorder Fatigue Feeling abnormal
 Hallucination Hangover Headache Hepatocellular injury
 Hyperkinesia Hypersensitivity Hypotension Hypoventilation
 Hypoxia Injection site reaction Insomnia
 Irritability Lethargy Liver injury Loss of
 consciousness Musculoskeletal discomfort Myalgia Nausea
 Nervousness Nightmare Nystagmus Osteomalacia Pain
 Phobia Pulmonary function test decreased Rash Respiratory
 depression Respiratory failure Shock Somnolence Swelling
 Syncope Tension Toxic epidermal necrolysis Urticaria
 Vertigo Vomiting

High affinity immunoglobulin epsilon receptor gamma-subunit - Group: Receptor

Treated with:

benzylpenicilloyl polylysine: approved small molecule (0 associated side effects) For use as a adjunct in assessing the risk of administering penicillin (benzylpenicillin or penicillin G).

known side effects mediated through drugs targeting this protein:

Potassium channel subfamily K member 2 - Group: Channel

Treated with:

dofetilide: approved small molecule (59 associated side effects)

For the maintenance of normal sinus rhythm (delay in time to recurrence of atrial fibrillation/atrial flutter [AF/AF1]) in patients with atrial fibrillation/atrial flutter of greater than one week duration who have been converted to normal sinus rhythm

59 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Angina pectoris
 Angioedema Anxiety Arrhythmia supraventricular Arthralgia
 Asthenia Atrioventricular block Back pain Bradycardia
 Bundle branch block Cardiac arrest Cardiac disorder
 Cardiac failure Cerebral ischaemia Cerebrovascular

accident Chest pain Cough Cytolytic hepatitis Death Dermatitis
 Diarrhoea Dizziness Dyspnoea Gastrointestinal pain
 Headache Hepatocellular injury Hyperhidrosis
 Hypertension Infarction Infection Influenza Insomnia
 Ischaemia Liver injury Loss of consciousness Migraine
 Musculoskeletal discomfort Myocardial infarction Nausea
 Oedema Oedema peripheral Pain Palpitations
 Paraesthesia Paralysis flaccid Rash Respiratory tract
 infection Shock Sudden death Supraventricular tachycardia
 Syncope Tachycardia Torsade de pointes Urinary tract
 infection VIIth nerve paralysis Ventricular fibrillation
 Ventricular tachycardia

Solute carrier organic anion transporter family member 1B1 - Group:
 Transporter

Treated with:

cyclosporine: approved biotech (0 associated side effects)
 For treatment of transplant rejection, rheumatoid arthritis,
 severe psoriasis

pravastatin: approved small molecule (147 associated side
 effects) For the treatment of hypercholesterolemia and to reduce
 the risk of cardiovascular disease.

valsartan: approved small molecule (80 associated side effects)
 May be used as a first line agent to treat uncomplicated
 hypertension, isolated systolic hypertension and left ventricular
 hypertrophy. May be used as a first line agent to delay progression
 of diabetic nephropathy. Losartan may be also used as a second line
 agent in the treatment of congestive heart failure, systolic
 dysfunction, myocardial infarction and coronary artery disease in
 those intolerant of ACE inhibitors.

troglitazone: withdrawn small molecule (32 associated side
 effects) For the treatment of Type II diabetes mellitus. It is
 used alone or in combination with a sulfonylurea, metformin, or
 insulin as an adjunct to diet and exercise.

pantoprazole: approved small molecule (321 associated side
 effects) Short-term (up to 16 weeks) treatment of erosive
 esophagitis.

nelfinavir: approved small molecule (87 associated side effects)
 Used in combination with other antiviral drugs in the
 treatment of HIV in both adults and children.

indinavir: approved small molecule (89 associated side effects)
 Indinavir is an antiretroviral drug for the treatment of HIV
 infection.

lovastatin: approved small molecule (100 associated side
 effects) For management as an adjunct to diet to reduce elevated
 total-C, LDL-C, apo B, and TG levels in patients with primary
 hypercholesterolemia and mixed dyslipidemia. For primary prevention
 of coronary heart disease and to slow progression of coronary
 atherosclerosis in patients with coronary heart disease.

olmesartan: approved small molecule (0 associated side effects)
 For the treatment of hypertension.

liothyronine: approved small molecule (0 associated side
 effects) Used as replacement or supplemental therapy in patients

with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

aminohippurate: approved small molecule (0 associated side effects) Used to measure effective renal plasma flow (ERPF) and to determine the functional capacity of the tubular excretory mechanism.

digoxin: approved small molecule (56 associated side effects) For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

rosiglitazone: approved small molecule (57 associated side effects) For the treatment of Type II diabetes mellitus

cerivastatin: withdrawn small molecule (118 associated side effects) Used as an adjunct to diet for the reduction of elevated total and LDL cholesterol levels in patients with primary hypercholesterolemia and mixed dyslipidemia (Fredrickson Types IIa and IIb) when the response to dietary restriction of saturated fat and cholesterol and other non-pharmacological measures alone has been inadequate.

ritonavir: approved small molecule (297 associated side effects) Indicated in combination with other antiretroviral agents for the treatment of HIV-infection.

casposfungin: approved small molecule (76 associated side effects) For the treatment of esophageal candidiasis and invasive aspergillosis in patients who are refractory to or intolerant of other therapies.

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

l-carnitine: approved small molecule (0 associated side effects) For treatment of primary systemic carnitine deficiency, a genetic impairment of normal biosynthesis or utilization of levocarnitine from dietary sources, or for the treatment of secondary carnitine deficiency resulting from an inborn error of metabolism such as glutaric aciduria II, methyl malonic aciduria, propionic acidemia, and medium chain fatty acylCoA dehydrogenase deficiency. Used therapeutically to stimulate gastric and pancreatic secretions and in the treatment of hyperlipoproteinemias. Parenteral levocarnitine is indicated for the prevention and treatment of carnitine deficiency in patients with end-stage renal disease.

simvastatin: approved small molecule (116 associated side effects) For the treatment of hypercholesterolemia.

estrone: approved small molecule (0 associated side effects) For management of perimenopausal and postmenopausal symptoms.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

sumatriptan: approved small molecule (317 associated side effects) For the treatment of migraine attacks with or without aura.

irinotecan: approved small molecule (140 associated side effects) For the treatment of metastatic colorectal cancer (first-line therapy when administered with 5-fluorouracil and leucovorin). Also used in combination with cisplatin for the treatment of extensive small cell lung cancer. Irinotecan is currently under investigation for the treatment of metastatic or recurrent cervical cancer.

estradiol: approved small molecule (315 associated side effects) For the treatment of urogenital symptoms associated with post-menopausal atrophy of the vagina (such as dryness, burning, pruritus and dyspareunia) and/or the lower urinary tract (urinary urgency and dysuria).

penicillamine: approved small molecule (0 associated side effects) For treatment of Wilson's disease, cystinuria and active rheumatoid arthritis.

sirolimus: approved small molecule (0 associated side effects)
For the prophylaxis of organ rejection in patients receiving renal transplants.

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

ezetimibe: approved small molecule (52 associated side effects)
For use as adjunctive therapy to diet for the reduction of elevated total-C, LDL-C, and Apo B in patients with primary (heterozygous familial and non-familial) hypercholesterolemia.

rifampin: approved small molecule (0 associated side effects)
For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

penicillin G: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

atorvastatin: approved small molecule (195 associated side effects) May be used as primary prevention in individuals with multiple risk factors for coronary heart disease (CHD) and as secondary prevention in individuals with CHD to reduce the risk of myocardial infarction (MI), stroke, angina, and revascularization

procedures. May be used to reduce the risk of cardiovascular events in patients with acute coronary syndrome (ACS). May be used in the treatment of primary hypercholesterolemia and mixed dyslipidemia, homozygous familial hypercholesterolemia, primary dysbetalipoproteinemia, and/or hypertriglyceridemia as an adjunct to dietary therapy to decrease serum total and low-density lipoprotein cholesterol (LDL-C), apolipoprotein B (apoB), and triglyceride concentrations, while increasing high-density lipoprotein cholesterol (HDL-C) levels.

ouabain: approved small molecule (0 associated side effects)

For the treatment of atrial fibrillation and flutter and heart failure

pioglitazone: approved small molecule (36 associated side effects) Treatment of Type II diabetes mellitus

saquinavir: approved small molecule (321 associated side effects) For the treatment of HIV-1 with advanced immunodeficiency together with antiretroviral nucleoside analogues.

gemfibrozil: approved small molecule (91 associated side effects) For treatment of adult patients with very high elevations of serum triglyceride levels (types IV and V hyperlipidemia) who are at risk of developing pancreatitis (inflammation of the pancreas) and who do not respond adequately to a strict diet.

bezafibrate: approved small molecule (57 associated side effects) For the treatment of primary hyperlipidaemia types IIa, IIb, III, IV and V (Fredrickson classification) corresponding to groups I, II and III of the European Atherosclerosis Society guidelines - when diet alone or improvements in lifestyle such as increased exercise or weight reduction do not lead to an adequate response. Also for the treatment of secondary hyperlipidaemias, e.g. severe hypertriglyceridemias, when sufficient improvement does not occur after correction of the underlying disorder (e.g. diabetes mellitus).

liotrix: approved small molecule (0 associated side effects)

May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

hyperforin: nutraceutical small molecule (0 associated side effects)

cholic acid: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

acetylcysteine: approved small molecule (0 associated side effects) Acetylcysteine is used mainly as a mucolytic and in the management of paracetamol (acetaminophen) overdose.

1032 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
 Abdominal pain Abdominal pain lower Abdominal pain upper
 Abdominal tenderness Abnormal dreams Abnormal faeces
 Abscess Acidosis Acne Acute coronary syndrome Acute
 interstitial pneumonitis Acute leukaemia Acute myeloid
 leukaemia Acute respiratory distress syndrome Acute tonsillitis
 Adrenal insufficiency Affect lability Ageusia Aggression
 Agitation Agranulocytosis Akathisia Akinesia Alanine
 aminotransferase increased Albuminuria Alcohol intolerance
 Alopecia Alveolitis Alveolitis allergic Alveolitis
 fibrosing Amblyopia Amenorrhoea Amnesia Anaemia Anal
 pruritus Anaphylactic shock Anaphylactoid reaction Aneurysm
 Angina pectoris Angioedema Angiopathy Anorectal discomfort
 Anorectal disorder Antinuclear antibody positive
 Anxiety Aortic aneurysm Aortic dissection Apathy
 Aphasia Aphthous stomatitis Aplastic anaemia
 Appendicitis Application site reaction Arrhythmia
 Arterial occlusive disease Arterial thrombosis
 Arteriosclerosis Arteriospasm coronary Arteritis Arthralgia
 Arthritis Arthropathy Artificial menopause Ascites
 Aspartate aminotransferase increased Assisted fertilisation
 Asthenia Asthma Ataxia Atopy Atrial fibrillation
 Atrial tachycardia Atrioventricular block complete
 Atrioventricular block first degree Atrioventricular block
 second degree Atrioventricular dissociation Atrophy
 Autonomic neuropathy Azoospermia Azotaemia Back pain
 Bacteraemia Bacterial infection Balance disorder Balanitis
 Basal cell carcinoma Benign neoplasm Benign vaginal
 neoplasm Biliary colic Bladder cancer Bladder disorder
 Bladder neoplasm Bladder pain Blepharitis Blindness
 Blindness transient Blister Blood albumin decreased
 Blood alkaline phosphatase increased Blood bicarbonate
 decreased Blood bilirubin increased Blood cholesterol increased
 Blood creatine phosphokinase increased Blood creatinine
 increased Blood disorder Blood glucose decreased Blood
 glucose increased Blood lactate dehydrogenase increased Blood
 magnesium decreased Blood phosphorus increased Blood potassium
 decreased Blood potassium increased Blood pressure increased
 Blood prolactin increased Blood thyroid stimulating hormone
 increased Blood triglycerides increased Blood urea increased
 Blood uric acid increased Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bradycardia
 Breast cancer Breast cancer in situ Breast cancer stage IV
 Breast discharge Breast discomfort Breast disorder Breast
 engorgement Breast enlargement Breast feeding Breast
 malformation Breast mass Breast neoplasm Breast pain Breast
 swelling Breast tenderness Breath odour Bronchitis
 Bronchospasm Bundle branch block Bundle branch block
 right Burning sensation Bursitis Cachexia Caecitis Calculus
 urinary Candidiasis Carbohydrate tolerance decreased Cardiac
 arrest Cardiac disorder Cardiac failure Cardiac failure
 congestive Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac valve disease Cardioactive drug level
 Cardiomyopathy Cardiovascular disorder Carpal tunnel
 syndrome Cataract Cell death Cells in urine Cellulitis

Cerebral artery thrombosis Cerebral haemorrhage Cerebral
 infarction Cerebral ischaemia Cerebral thrombosis Cerebral
 venous thrombosis Cerebrovascular accident Cerebrovascular
 disorder Cervical discharge Cervix carcinoma Cervix disorder
 Chalazion Cheilitis Chest discomfort Chest pain Chills
 Chloasma Cholangitis Cholangitis sclerosing Cholecystitis
 Cholelithiasis Cholestasis Chorea Choreoathetosis
 Coagulopathy Cognitive disorder Cold sweat Colitis
 ischaemic Colitis ulcerative Colon cancer Colorectal cancer
 metastatic Coma hepatic Completed suicide Conduction disorder
 Confusional state Congenital generalised lipodystrophy
 Conjunctivitis Connective tissue disorder Constipation
 Contact lens intolerance Conversion disorder Convulsion
 Coordination abnormal Coronary artery thrombosis Cough
 Creatinine renal clearance decreased Cryptococcosis
 Crystal urine Crystalluria Cutaneous vasculitis
 Cyanosis Cyst Cystitis Cystitis noninfective Cytolytic
 hepatitis Cytomegalovirus chorioretinitis Cytomegalovirus
 infection Deafness Death Decreased appetite Deep vein
 thrombosis Deficiency anaemia Deformity Dehydration Delirium
 Dementia Dental plaque Dependence Depersonalisation
 Depressed level of consciousness Depression Depressive
 symptom Dermatitis Dermatitis atopic Dermatitis bullous
 Dermatitis contact Dermatitis exfoliative Dermatomyositis
 Diabetes mellitus Diabetic retinal oedema Diarrhoea
 Diarrhoea haemorrhagic Diplegia Diplopia Discomfort
 Disease progression Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in sexual
 arousal Diverticulitis Dizziness Drug abuse Drug eruption
 Drug interaction Drug rash with eosinophilia and systemic
 symptoms Dry eye Dry mouth Dry skin Duodenal ulcer
 Duodenitis Dysaesthesia Dysarthria Dyschezia Dysentery
 Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysphonia Dysplasia Dyspnoea Dysthymic disorder
 Dystonia Dysuria Ear disorder Ear infection Ear
 pain Ecchymosis Ectropion of cervix Eczema Effusion
 Ejaculation disorder Elderly Electrocardiogram PR
 interval Electrocardiogram PR prolongation Electrocardiogram ST
 segment Electrocardiogram ST segment depression Electrocardiogram
 abnormal Electrocardiogram change Electrocardiogram normal
 Electrolyte imbalance Embolism Embolism venous Emotional
 disorder Emotional distress Encephalopathy Endocrine
 disorder Endometrial cancer Endometrial disorder Endometrial
 hypertrophy Endometriosis Enteritis Enzyme abnormality
 Eosinophilia Epididymitis Epilepsy Epistaxis
 Erectile dysfunction Eructation Erythema Erythema
 multiforme Erythema nodosum Euphoric mood Extrapyrmidal
 disorder Extrasystoles Extravasation Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 oedema Eye pain Eye pruritus Eyelid oedema Face oedema
 Facial pain Facial paresis Factor VIII deficiency Faecal
 incontinence Faeces discoloured Family stress Fasting
 Fat redistribution Fat tissue increased Fatigue
 Febrile neutropenia Feeling abnormal Feeling cold
 Feeling hot Feeling of body temperature change Fibrocystic

breast disease Fibrosis Flank pain Flat affect Flatulence Fluid
 retention Flushing Foetal disorder Foetor hepaticus
 Folliculitis Frequent bowel movements Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gallbladder disorder Gamma-
 glutamyltransferase decreased Gamma-glutamyltransferase
 increased Gastric disorder Gastric polyps Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal candidiasis
 Gastrointestinal carcinoma Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal necrosis
 Gastrointestinal pain Gastrointestinal toxicity
 Gastrointestinal ulcer Gastrooesophageal reflux disease
 Generalised oedema Genital candidiasis Genital discharge
 Genital disorder female Gingival bleeding Gingival
 hyperplasia Gingivitis Glaucoma Glossitis Glossodynia Glucose
 tolerance decreased Glucose tolerance impaired Glycosuria
 Goitre Gout Grand mal convulsion Granulomatous liver
 disease Gynaecomastia Haemangioma Haemarthrosis
 Haematemesis Haematochezia Haematocrit decreased
 Haematological malignancy Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobinuria Haemolytic anaemia
 Haemolytic uraemic syndrome Haemoptysis Haemorrhage Haemorrhage
 intracranial Haemorrhage urinary tract Haemorrhagic disorder
 Haemorrhagic stroke Haemorrhoids Hallucination Hand
 and foot syndrome secondary to sickle cell anaemia Headache
 Hearing impaired Heart rate irregular Hemiparesis Hemiplegia
 Hepatic cancer metastatic Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic neoplasm malignant Hepatic pain Hepatic
 steatosis Hepatitis acute Hepatitis chronic active
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hepatosplenomegaly Hereditary angioedema Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups Hirsutism Histoplasmosis Hormone level abnormal
 Hot flush Hunger Hydronephrosis Hyperaemia
 Hyperaesthesia Hyperamylasaemia Hyperbilirubinaemia
 Hypercalcaemia Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hyperlactacidaemia Hyperlipidaemia
 Hypernatraemia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperreflexia Hypersensitivity
 Hypertension Hypertonia Hypertriglyceridaemia
 Hypertrophic cardiomyopathy Hypertrophy Hyperuricaemia
 Hypervigilance Hypoaesthesia Hypoaesthesia facial
 Hypoaesthesia oral Hypocalcaemia Hypochromic anaemia
 Hypogammaglobulinaemia Hypoglycaemia Hypokalaemia
 Hypokinesia Hypomagnesaemia Hyponatraemia Hypophosphataemia
 Hypoprothrombinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypoventilation Hypovitaminosis Hypoxia
 IIIRD nerve paralysis Ichthyosis Ichthyosis acquired Idiopathic
 pulmonary fibrosis Idiopathic thrombocytopenic purpura
 Ileitis Ileus Ileus paralytic Ill-defined disorder
 Immune system disorder Incontinence Increased appetite
 Induration Infarction Infection Infertility Infertility male
 Infestation Inflammation Influenza Influenza like illness

Ingrowing nail Injection site pain Injection site
 reaction Injection site thrombosis Insomnia Insulin
 resistance Intermittent claudication Interstitial lung disease
 Intervertebral disc disorder Intestinal ischaemia Intestinal
 obstruction Intestinal perforation Intra-uterine death
 Intracranial pressure increased Iritis Iron deficiency
 Iron deficiency anaemia Irritability Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 swelling Keratitis Keratoconjunctivitis sicca Ketoacidosis
 Ketonuria Laboratory test abnormal Lacrimal disorder
 Lacrimation decreased Lacrimation increased Laryngeal
 disorder Laryngeal oedema Laryngitis Laryngospasm Leiomyoma
 Lens disorder Lenticular opacities Lethargy Leukaemia
 Leukocytoclastic vasculitis Leukocytosis
 Leukoencephalopathy Leukopenia Libido decreased Libido
 increased Lichenoid keratosis Lip dry Lipase increased
 Lipoatrophy Lipodystrophy acquired Lipohypertrophy Liver
 disorder Liver function test abnormal Liver injury Loss of
 consciousness Loss of libido Lower respiratory tract infection
 Lung cancer metastatic Lung disorder Lung infection Lung
 infiltration Lung neoplasm Lupus-like syndrome
 Lymphadenopathy Lymphocytosis Lymphoma Lymphopenia
 Lymphoproliferative disorder Macular oedema Macule
 Maculopathy Malaise Malignant melanoma Mammogram
 abnormal Mania Mantle cell lymphoma Mass Mediastinal disorder
 Medical device complication Megacolon Melaena Memory
 impairment Meniere's disease Meningioma benign Meningitis Meningitis
 aseptic Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mesenteric vascular insufficiency Metabolic acidosis
 Metabolic disorder Metastases to liver Metastasis
 Metrorrhagia Microcytic anaemia Micturition disorder
 Micturition urgency Migraine Miosis Molluscum
 contagiosum Monoplegia Mood swings Motor dysfunction Mouth ulceration
 Movement disorder Mucosal inflammation Mucosal ulceration
 Muscle atrophy Muscle contractions involuntary Muscle
 contracture Muscle fatigue Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal deformity Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mydriasis Myeloid
 leukaemia Myeloproliferative disorder Myocardial infarction
 Myocardial ischaemia Myoglobinuria Myopathy Myositis
 Nail disorder Nasal congestion Nasal inflammation
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Nephritis Nephrolithiasis Nephropathy
 Nerve root lesion Nervous system disorder Nervousness
 Neuralgia Neuritis Neuropathy peripheral Neurosis
 Neutropenia Neutropenic infection Neutropenic sepsis Night
 blindness Night sweats Nightmare Nipple pain Nocardiosis
 Nocturia Nodule Nuchal rigidity Nystagmus Obstruction
 Obstructive airways disorder Oedema Oedema genital
 Oedema peripheral Oesophageal achalasia Oesophageal disorder
 Oesophageal haemorrhage Oesophageal ulcer Oesophagitis
 Oestrogenic effect Oligomenorrhoea Onychomycosis

Ophthalmoplegia Opportunistic infection Optic ischaemic
 neuropathy Optic nerve disorder Optic neuritis Oral candidiasis
 Oral pruritus Oropharyngeal candidiasis Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteonecrosis
 Osteoporosis Otitis externa Otitis media Ovarian
 cancer Ovarian cyst Pain Pain in extremity Pain in jaw Pain
 of skin Pallor Palmar-plantar erythrodysesthesia syndrome
 Palpitations Pancreatic disorder Pancreatitis
 Pancytopenia Panic disorder Panic reaction
 Panniculitis Papilloma Paraesthesia Paraesthesia oral
 Paralysis Paresis Parity Paronychia Parosmia
 Pathological fracture Pelvic pain Penis disorder Peptic
 ulcer Pericardial effusion Pericarditis Perineal pain
 Periodontitis Peripheral embolism Peripheral sensory
 neuropathy Peripheral vascular disorder Peritonsillar abscess
 Personality change Personality disorder Petechiae
 Pharyngeal haemorrhage Pharyngitis Phlebitis Phobia
 Phonophobia Photophobia Photopsia Photosensitivity reaction
 Pigmentation disorder Piloerection Pituitary tumour
 Plasmodium falciparum infection Platelet count decreased
 Pleural disorder Pleural effusion Pleural infection
 Pneumocystis jiroveci pneumonia Pneumonia Pneumonia
 cytomegaloviral Poisoning Poliomyelitis Pollakiuria
 Polyarthritits Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Porphyria Porphyria non-acute Portal
 hypertension Postmenopausal haemorrhage Precocious puberty
 Prinzmetal angina Proctalgia Productive cough Progressive
 multifocal leukoencephalopathy Prostatic disorder
 Prostatomegaly Protein urine present Proteinuria Prurigo
 Pruritus Pruritus generalised Pruritus genital
 Pseudomembranous colitis Psoriasis Psychotic disorder
 Puberty Pulmonary embolism Pulmonary fibrosis
 Pulmonary function test decreased Pulmonary oedema Pulmonary
 toxicity Pulse abnormal Purpura Pyelonephritis
 Quadripareisis Radiculopathy Rales Rash Rash erythematous
 Rash generalised Rash maculo-papular Rash papular Rash
 pustular Raynaud's phenomenon Rectal haemorrhage Rectal
 tenesmus Red blood cell sedimentation rate increased Refraction
 disorder Regressive behaviour Regurgitation Renal cancer
 Renal colic Renal failure Renal failure acute Renal
 impairment Renal pain Renal tubular disorder Reproductive tract
 disorder Respiration abnormal Respiratory depression Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract infection Retching Retinal artery occlusion Retinal
 oedema Retinal vascular disorder Retinal vascular occlusion
 Retinal vein thrombosis Retinitis pigmentosa Retinogram
 abnormal Rhabdomyolysis Rhinitis Rhinitis allergic Salivary
 gland disorder Salivary gland enlargement Salivary
 hypersecretion Sarcoma Scleral disorder Scotoma Scrotal
 oedema Seborrhoeic dermatitis Secondary adrenocortical
 insufficiency Sedation Sensation of pressure Sensory
 disturbance Sensory loss Sepsis Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sinus arrest Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus headache

Sinusitis Skin burning sensation Skin discolouration Skin
 disorder Skin exfoliation Skin hyperpigmentation Skin hypertrophy
 Skin irritation Skin mass Skin necrosis Skin papilloma
 Skin tightness Skin ulcer Skin wrinkling Sleep disorder
 Smear cervix abnormal Social avoidant behaviour Soft tissue
 necrosis Somnolence Speech disorder Spinal cord disorder
 Splenomegaly Staphylococcal infection Stevens-Johnson
 syndrome Sticky skin Stomatitis Stupor Subarachnoid
 haemorrhage Subcutaneous nodule Subdural haematoma Substance
 abuse Sudden death Sudden visual loss Suicide attempt
 Supraventricular extrasystoles Swelling Swelling face
 Syncope Synovitis Systemic lupus erythematosus Tachycardia
 Tachypnoea Telangiectasia Temperature intolerance
 Temporal arteritis Tenderness Tendinous contracture
 Tendonitis Tenosynovitis Tension Tension headache
 Tetany Thinking abnormal Thirst Thought blocking
 Throat irritation Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombophlebitis superficial
 Thrombosis Thrombotic thrombocytopenic purpura Tinnitus
 Tongue discolouration Tongue disorder Tongue oedema
 Tonsillitis Tooth abscess Tooth disorder Toothache
 Torsade de pointes Torticollis Toxic epidermal necrolysis
 Toxic shock syndrome Toxicity to various agents
 Tracheobronchitis Transaminases increased Transient
 ischaemic attack Tremor Tubulointerstitial nephritis Tumour
 lysis syndrome Ulcer Upper respiratory tract infection Ureteric
 obstruction Urethral disorder Urethral pain Urethritis Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine analysis abnormal Urine
 output increased Urogenital disorder Urticaria Uterine cancer
 Uterine cervical erosion Uterine enlargement Uterine
 haemorrhage Uterine leiomyoma Uterine pain Uterine spasm
 Uveitis VIIIth nerve paralysis Vaginal discharge Vaginal
 disorder Vaginal haemorrhage Vaginal infection Vaginal
 inflammation Vaginal neoplasm Vaginal ulceration Vaginismus
 Varicose vein Vascular occlusion Vascular purpura
 Vascular resistance systemic Vasculitis Vasoconstriction
 Vasodilatation Vasodilation procedure Vasospasm Venous
 thrombosis Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vestibular disorder
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitreous disorder Volume blood increased
 Vomiting Vulval disorder Vulvovaginal candidiasis
 Vulvovaginal discomfort Vulvovaginal mycotic infection
 Vulvovaginal pain Vulvovaginal pruritus Vulvovaginitis
 Weight decreased Weight increased Wheezing White blood cells
 urine positive Withdrawal bleed X-linked lymphoproliferative
 syndrome Xanthomatosis Xanthopsia Xeroderma Xerophthalmia
 Yawning

Sodium channel subunit beta-3 - Group: Channel
 Treated with:

zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.

190 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Acne Agitation Alanine
aminotransferase increased Albuminuria Alopecia Amblyopia
Amenorrhoea Anaemia Anxiety Apnoea Arthralgia
Arthritis Aspartate aminotransferase increased Asthenia
Ataxia Atrial fibrillation Bladder pain Blood
lactate dehydrogenase increased Bradycardia Calculus bladder
Cardiac failure Cardiac fibrillation Cerebrovascular
accident Chest pain Cholangitis Cholecystitis Cholelithiasis
Cognitive disorder Colitis Confusional state
Conjunctivitis Constipation Convulsion Coordination
abnormal Cough Deafness Decreased appetite Dehydration
Depressed level of consciousness Dermatitis Dermatitis
bullous Diarrhoea Diplopia Discomfort Disturbance in sexual
arousal Dizziness Dry mouth Dry skin Duodenal ulcer
Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia
Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis
Eczema Embolism Encephalopathy Enuresis Erectile
dysfunction Euphoric mood Extrasystoles Face oedema Faecal
incontinence Fatigue Feeling abnormal Flank pain Flatulence
Gait disturbance Gastritis Gastroenteritis Gastrointestinal
pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
Glossitis Gynaecomastia Haematemesis Haematuria
Haemoglobin Haemoptysis Haemorrhage Headache Hirsutism
Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
Hyperreflexia Hypersensitivity Hypertension Hypertonia
Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
Hypotonia Ill-defined disorder Immunodeficiency
Incontinence Influenza Insomnia Iritis
Irritability Jaundice Jaundice cholestatic Leukopenia
Libido decreased Loss of consciousness Lymphadenopathy
Malaise Mastitis Melaena Menorrhagia Microcytic
anaemia Micturition urgency Mouth ulceration Movement disorder
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myoclonus Nausea
Nervousness Neuritis Neuropathy peripheral Nocturia
Nuchal rigidity Nystagmus Oculogyric crisis Oedema
Oedema peripheral Oesophagitis Osteoarthritis Pain
Palpitations Paraesthesia oral Paralysis Parosmia
Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
Pruritus Psychotic disorder Pulmonary embolism Rash
Rash maculo-papular Rash pustular Rectal haemorrhage
Rhinitis Scotoma Shock Somnolence Speech disorder
Stomatitis Syncope Systemic lupus erythematosus Tachycardia
Tension Thirst Thrombocytopenia Thrombophlebitis
Tinnitus Tremor Ulcer Urinary incontinence Urinary
retention Urine output increased Urticaria VIIth nerve paralysis
Vascular insufficiency Ventricular extrasystoles Vertigo
Vomiting Weight decreased Weight increased

T-cell receptor beta chain C region - Group: Receptor

Treated with:

3-indolebutyric acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Succinate receptor 1 - Group: Receptor

Treated with:

succinic acid: approved,nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric-acid receptor subunit alpha-1 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

ethchlorvynol: illicit,approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.

enflurane: approved small molecule (15 associated side effects) Used for the induction and maintenance of general anaesthesia during surgery and cesarean section and also used for analgesia during vaginal delivery.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

butabarbital: illicit,approved small molecule (0 associated side effects) For short-term treatment of insomnia and anxiety disorders

butalbital: illicit,approved small molecule (0 associated side effects) Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.

topiramate: approved small molecule (365 associated side effects) Used for the treatment and control of partial seizures and severe tonic-clonic (grand mal) seizures and also for the prevention of migraine headaches. In children it is also used for treatment of Lennox-Gastaut syndrome.

etomidate: approved small molecule (27 associated side effects) Used in the induction of general anesthesia.

talbutal: illicit,approved small molecule (0 associated side effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

meprobamate: illicit,approved small molecule (54 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety.

eszopiclone: approved small molecule (0 associated side effects) For the treatment of insomnia

alprazolam:illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

zolpidem: approved small molecule (282 associated side effects) For the short-term treatment of insomnia.

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

picotoxin: approved small molecule (0 associated side effects)
Used internally for relieving respiratory distress. Also for use as an antidote in poisoning by CNS depressants, especially barbiturates.

methohexital: approved small molecule (34 associated side effects) Methohexital is indicated for use as an intravenous anaesthetic. It has also been commonly used to induce deep sedation.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

adinazolam: approved small molecule (0 associated side effects)
For the treatment of anxiety and status epilepticus.

thiopental: approved small molecule (0 associated side effects)
For use as the soleanesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit, approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

isoflurane: approved small molecule (31 associated side effects) For induction and maintenance of general anesthesia.

primidone: approved small molecule (16 associated side effects) For the treatment of epilepsy

halazepam: illicit, approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit, approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

progabide: approved small molecule (0 associated side effects) Indicated for the treatment of epilepsy.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

methylphenobarbital: approved small molecule (37 associated side effects) For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

triazolam: illicit, approved, withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

ethanol: approved small molecule (11 associated side effects) For therapeutic neurolysis of nerves or ganglia for the relief of intractable chronic pain in such conditions as inoperable cancer and trigeminal neuralgia (tic douloureux), in patients for whom neurosurgical procedures are contraindicated.

zaleplon: illicit, approved small molecule (262 associated side effects) For the treatment of short-term treatment of insomnia in adults.

methoxyflurane: approved small molecule (0 associated side effects) For use in the induction and maintenance of general anesthesia

clonazepam: illicit, approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

methyprylon: illicit, approved, withdrawn small molecule (0 associated side effects) For the treatment of insomnia.

thiamylal: approved small molecule (0 associated side effects) Used for the production of complete anaesthesia of short duration, for the induction of general anaesthesia, and for inducing a hypnotic state.

halothane: approved small molecule (10 associated side effects) For the induction and maintenance of general anesthesia

desflurane: approved small molecule (110 associated side effects) For use as an inhalation agent for induction and/or maintenance of anesthesia for inpatient and outpatient surgery in adults.

flumazenil: approved small molecule (100 associated side effects) For the complete or partial reversal of the sedative

effects of benzodiazepines in cases where general anesthesia has been induced and/or maintained with benzodiazepines, and where sedation has been produced with benzodiazepines for diagnostic and therapeutic procedures. Also for the management of benzodiazepine overdose as an adjunct for appropriate supportive and symptomatic measures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

sevoflurane: approved small molecule (107 associated side effects) Used for induction and maintenance of general anesthesia in adult and pediatric patients for inpatient and outpatient surgery.

dihydroergotoxine: approved small molecule (0 associated side effects) For potential use in the treatment of Alzheimer's disease.

dihydroquinidine barbiturate: experimental small molecule (0 associated side effects)

amobarbital: illicit,approved small molecule (0 associated side effects)

aprobarbital: illicit,approved small molecule (0 associated side effects)

butethal: illicit,approved small molecule (0 associated side effects) For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects) Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects) For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

ginkgo biloba: approved,nutraceutical small molecule (0 associated side effects) Appears to be effective in: alleviating age-related memory impairment in some elderly people with mild to moderate age-related memory or cognitive impairment; improving cognitive function in healthy young to middle-aged people; improving symptoms of Alzheimer's, vascular or mixed dementia; improving damage to the visual field in patients with normal tension glaucoma; decreasing the number of painful attacks in patients with Raynaud's syndrome; and may improve symptoms of vertigo and dizziness in some patients.

glutethimide: illicit,approved small molecule (0 associated side effects) For the treatment of insomnia.

barbituric acid derivative: illicit,experimental small molecule (0 associated side effects)

bromazepam: illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

ketazolam: approved small molecule (0 associated side effects) Ketazolam could be used for the treatment of anxiety. In approved countries, it is indicated for the treatment of anxiety, tension, irritability and similar stress related symptoms.

prazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit,approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

798 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal tenderness Abnormal dreams Abnormal faeces
 Abscess Accommodation disorder Acidosis Acne Acute
 coronary syndrome Affect lability Ageusia Aggression Agitation
 Agranulocytosis Akathisia Akinesia Alanine
 aminotransferase increased Albuminuria Alcohol intolerance
 Alcohol poisoning Alopecia Altered state of consciousness
 Amblyopia Amenorrhoea Ammonia increased Amnesia Anaemia
 Anaemia macrocytic Anaemia megaloblastic Analgesic therapy
 Anaphylactic shock Anaphylactoid reaction Anger Angina
 pectoris Angioedema Angiopathy Angle closure glaucoma Anorectal
 discomfort Anorectal disorder Anterograde amnesia Anuria
 Anxiety Aortic dissection Apathy Aphasia Aphonia
 Aphthous stomatitis Aplasia Aplastic anaemia Apnoea
 Appetite disorder Apraxia Arrhythmia Arrhythmia
 supraventricular Arterial spasm Arteritis Arthralgia Arthritis
 Arthropathy Aspartate aminotransferase increased Asphyxia
 Aspiration Asthenia Asthenopia Asthma Ataxia
 Athetosis Atrial fibrillation Atrioventricular block
 Atrioventricular block complete Atrioventricular block
 second degree Autonomic neuropathy Back pain Balance disorder
 Basal cell carcinoma Biliary colic Binge eating
 Bipolar I disorder Bipolar disorder Bladder disorder
 Bladder dysfunction Bladder pain Blepharitis Blindness
 Blindness transient Blister Blood alkaline phosphatase
 increased Blood bilirubin increased Blood creatinine increased
 Blood disorder Blood glucose decreased Blood pressure
 increased Blood thromboplastin decreased Blood urea increased
 Blood uric acid increased Body temperature decreased Body
 temperature increased Bone disorder Bone pain Borderline
 personality disorder Bradycardia Bradyphrenia Brain oedema
 Breast discharge Breast disorder female Breast engorgement
 Breast enlargement Breast feeding Breast neoplasm

Breast pain Breast swelling Breath holding Breath odour
 Bronchitis Bronchospasm Bruxism Bulimia nervosa
 Bundle branch block Burning sensation Bursitis Candidiasis
 Carbon dioxide increased Cardiac arrest Cardiac disorder
 Cardiac failure Cardiac fibrillation Cardio-respiratory
 arrest Cardiovascular disorder Cataract Cellulitis
 Cerebellar syndrome Cerebral ischaemia Cerebrovascular
 accident Cerebrovascular disorder Cheilitis Chest discomfort
 Chest pain Chills Chloasma Choking sensation
 Cholelithiasis Cholestasis Chorea Chromaturia Clonic
 convulsion Clonus Clumsiness Coagulopathy Cognitive
 disorder Colitis Collagen disorder Colour blindness Coma
 Completed suicide Confusional state Congenital eye disorder
 Congenital skin disorder Conjunctival hyperaemia
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal
 Corneal erosion Cough Cranial nerve paralysis Crying
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Deep vein
 thrombosis Dehydration Delirium Delirium tremens Delusion
 Dementia Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depressive symptom Derealisation Dermatitis Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Diabetes
 mellitus Diabetic neuropathy Diarrhoea Diplopia Discomfort
 Disinhibition Disorientation Dissociation Disturbance
 in attention Disturbance in sexual arousal Dizziness
 Dizziness postural Drooling Drug abuse Drug
 administration error Drug dependence Drug eruption Drug
 hypersensitivity Drug interaction Drug intolerance Drug withdrawal
 convulsions Drug withdrawal syndrome Dry eye Dry mouth Dry
 skin Dry throat Duodenal ulcer Dysaesthesia Dysarthria
 Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysphonia Dysphoria Dyspnoea Dysthymic disorder
 Dystonia Dysuria Ear infection Ear pain Ecchymosis
 Eczema Effusion Ejaculation delayed Ejaculation
 disorder Ejaculation failure Elderly Electrocardiogram QT
 prolonged Electrocardiogram T wave inversion Electrocardiogram
 abnormal Electroencephalogram abnormal Embolism Emotional
 disorder Emotional distress Emotional poverty Encephalopathy
 Encopresis Endocrine disorder Endometrial sarcoma
 Energy increased Enteritis Enterocolitis Enuresis
 Eosinophilia Epidermodysplasia verruciformis Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Euphoric mood Expressive language
 disorder Extrapyrarnidal disorder Extrasystoles Eye
 disorder Eye haemorrhage Eye inflammation Eye irritation Eye
 movement disorder Eye pain Eye swelling Eyelid oedema
 Eyelid ptosis Face oedema Faecal incontinence Fatigue
 Fear Feeling abnormal Feeling cold Feeling drunk
 Feeling hot Feeling jittery Feeling of body temperature change
 Fibroadenoma of breast Flat affect Flatulence Floppy infant
 Fluid retention Flushing Foetor hepaticus Folliculitis
 Frequent bowel movements Fungal infection Furuncle Gait
 disturbance Galactorrhoea Gallbladder disorder Gangrene

Gastric disorder Gastric ulcer Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastroesophageal reflux disease
 Generalised oedema Genital candidiasis Genital discharge
 Gingival bleedingGingival hyperplasia Gingival pain
 Gingivitis Glaucoma Glossitis Glossodynia Glycosuria
 Goitre Gout Grand mal convulsion Gynaecomastia
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobinaemia Haemoptysis Haemorrhage Haemorrhage urinary
 tract Haemorrhoids Hair texture abnormal Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hyperacusis Hyperaemia Hyperaesthesia Hyperammonaemia
 Hyperbilirubinaemia Hypercapnia Hyperchloraemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hyperthermia malignant Hypertonia
 Hypertrichosis Hypertrophy Hyperuricaemia Hyperventilation
 Hypoaesthesia Hypocalcaemia Hypocapnia
 Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
 Hypohidrosis Hypokalaemia Hypokinesia Hypomania
 Hyponatraemia Hypophosphataemia Hypopnoea Hyporeflexia
 Hypotension Hypothermia Hypothyroidism Hypotonia
 Hypoventilation Hypoxia Ileus paralytic Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Induration Infarction Infection Infectious
 mononucleosis Infestation Inflammation Influenza Influenza
 like illness Injection site pain Injection site reaction
 Insomnia Intestinal obstruction Intraocular pressure
 increased Iritis Irritability Ischaemia Jaundice Joint
 swelling Keratitis Ketosis Laboratory test abnormal
 Labyrinthitis Lacrimal disorderLacrimation increased
 Lactose intolerance Laryngitis Laryngospasm Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Liver disorder Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lower respiratory tract infection Lung disorder
 Lymphadenitis Lymphadenopathy Lymphocytosis Lymphopenia
 Maculopathy Major depression Malaise Malignant hypertension
 Mania Mastitis Mean arterial pressure Mediastinal disorder
 Melaena Melanosis Memory impairment Meningitis Menopausal
 symptoms Menopause Menorrhagia Menstrual disorder
 Menstruation delayed Menstruation irregular Mental disability
 Mental disorder Mental retardation Metabolic acidosis
 Metrorrhagia Micturition urgency Migraine Miosis
 Mood swings Motion sickness Mouth ulceration Movement disorder
 Muscle contractions involuntary Muscle relaxant therapy

Muscle rigidity Muscle spasms Muscle spasticityMuscle
 twitching Muscular weaknessMusculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mycobacterium avium
 complex infectionMycobacterium test Mydriasis Myocardial
 infarction Myocardial ischaemia Myoclonus Myopathy Myopia
 Myositis Nail disorder Nasal congestion Nasopharyngitis
 Nausea Neck pain Necrosis Neoplasm Neoplasm
 malignant Nephritis Nephrolithiasis Nervous system disorder
 Nervousness Neuralgia Neuritis Neuroleptic malignant
 syndrome Neuropathy peripheral Neurosis Neutropenia Nightmare
 Nocturia Nodal arrhythmia Nodal rhythm Nodule
 Nuchal rigidity Nystagmus Obesity Obstruction Obstructive
 airways disorder Ocular hyperaemiaOedema Oedema peripheral
 Oesophageal achalasia Oesophageal spasmOesophagitis
 Oliguria Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteomalacia
 Osteoporosis Otitis externa Otitis media Pain Pain
 in extremity Pain in jawPallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic reaction Paraesthesia
 Paraesthesia oralParalysis Paranoia Paresis Parosmia
 Parotid gland enlargement Pelvic painPemphigus Penile
 discharge Peptic ulcer Pericardial effusion Periorbital
 oedema Personality disorder Petechiae Phaeochromocytoma
 Pharyngitis Phlebitis Phobia Photophobia Photopsia
 Photosensitivity reaction Pigmentation disorder Platelet
 count decreased Pleural disorder Pleural effusion Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polycythaemia
 Polyuria Post-traumatic stress disorder Precocious
 puberty Premature ejaculation Premenstrual syndrome Presyncope
 Procedural nauseaProcedural pain Proctalgia Proctitis
 Prostatic disorder Prothrombin level increased Pruritus
 Psoriasis Psychiatric symptom Psychomotor retardation
 Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary function test decreased
 Pulmonary haemorrhage Pulmonary hypertension Pulmonary oedema
 Purpura Purpura non-thrombocytopenic Pyelonephritis Rash
 Rash erythematousRash maculo-papular Rash pustular
 Rectal haemorrhage Rectal tenesmus Red blood cell
 sedimentation rate increasedRenal failure acute Renal pain Renal
 tubular acidosis Renal tubular disorder Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory moniliasis Respiratory
 rate decreased Respiratory tract congestion Respiratory tract
 infection Restless legs syndrome Retching Retinal detachment
 Retrograde amnesia Rhabdomyolysis Rhinitis Rhinitis
 allergic Rhinorrhoea Rhonchi Road traffic accident Saliva
 altered Salivary hypersecretion Sciatica Scleritis
 Scotoma Seborrhoeic dermatitis Sedation Sensation of
 heaviness Sensory disturbance Sensory loss Sexual
 dysfunction Shock Sinus bradycardiaSinus tachycardiaSinusitis Skin
 burning sensationSkin discolouration Skin disorder Skin
 exfoliationSkin hypertrophy Skin necrosis Skin odour abnormal
 Skin wrinkling Sleep apnoea syndrome Sleep disorder Sleep

talking Sluggishness Sneezing Snoring Somnambulism
 Somnolence Speech disorder Sputum increased Stevens-Johnson
 syndrome Stomatitis Strabismus Stress Stridor Stupor
 Substance abuse Sudden death Suicidal behaviour
 Suicidal ideation Suicide attempt Supraventricular
 extrasystoles Swelling Swelling face Swollen tongue
 Syncope Synovial cyst Tachyarrhythmia Tachycardia
 Tachypnoea Tardive dyskinesia Temperature intolerance
 Tenderness Tendonitis Tenosynovitis Tension Testicular
 disorder Testicular swelling Tetany Therapeutic response
 decreased Thinking abnormal Thirst Throat irritation
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thyroid disorder Thyroid neoplasm
 Tinnitus Tongue coated Tongue discolouration Tongue
 disorder Tongue oedema Tongue paralysis Tooth disorder
 Toothache Torsade de pointes Toxic epidermal necrolysis
 Transaminases increased Tremor Trismus Tropical
 spastic paresis Tubulointerstitial nephritis Ulcer Ulcerative
 keratitis Unintended pregnancy Upper airway obstruction Upper
 motor neurone lesion Upper respiratory tract infection Urethral
 disorder Urethritis Urinary hesitance Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 colour abnormal Urine output increased Urticaria Uterine
 haemorrhage Uterovaginal prolapse VIIth nerve paralysis Vaginal
 discharge Vaginal haemorrhage Vaginal infection Vaginal
 inflammation Varicose vein Vascular purpura Vasculitis
 Vasodilation procedure Vasospasm Vein pain Venous thrombosis
 Ventricular arrhythmia Ventricular extrasystoles Ventricular
 failure Ventricular fibrillation Ventricular hypokinesia
 Ventricular tachycardia Vertigo Vestibular disorder
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vomiting Vulvovaginal disorder Weight
 decreased Weight increased Wheezing Withdrawal syndrome
 Xeroderma Xerophthalmia Yawning

Toll-like receptor 8 - Group: Receptor

Treated with:

imiquimod: approved small molecule (146 associated side
 effects) For the topical treatment of clinically typical,
 nonhyperkeratotic, nonhypertrophic actinic keratoses on the face or
 scalp in immunocompetent adults. Also indicated for the treatment of
 external genital and perianal warts/condyloma acuminata in
 individuals 12 years old and above.

146 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Agitation Alopecia
 Angioedema Anxiety Application site reaction Arrhythmia
 Arthralgia Arthritis Asthenia Atrial fibrillation Back
 pain Body temperature increased Bone pain Bronchitis Capillary
 leak syndrome Cardiac failure Cardiac fibrillation
 Cardiomyopathy Cardiovascular disorder Cellulitis
 Cerebrovascular accident Cheilitis Chest pain Chills

Completed suicide Congenital eye disorder Conjunctivitis
Convulsion Cough Crying Cyst Decreased appetite
Dermatitis Dermatitis exfoliative Diarrhoea Dizziness
Dyspepsia Dyspnoea Dysuria Eczema Erythema
Erythema multiforme Eye disorder Eye infection
Fatigue Febrile convulsion Fungal infection
Gastrointestinal disorder Gastrointestinal pain
Gastrooesophageal reflux disease Gout Haemoglobin Haemorrhage
Headache Hepatic function abnormal Hernia Herpes
simplex Herpes virus infection Herpes zoster
Hypercholesterolaemia Hyperkeratosis Hypersensitivity
Hypertension Hypertrophic scar Hypertrophy Idiopathic
thrombocytopenic purpura Induration Infarction Infection
Infestation Influenza like illness Insomnia Ischaemia
Lethargy Leukoderma Local reaction Loss of consciousness
Lymphadenopathy Lymphoma Malaise Mental disorder
Multiple sclerosis Musculoskeletal discomfort Myalgia
Myocardial infarction Nausea Nervous system disorder
Neuropathy peripheral Oedema Oral herpes Osteoarthropathy
Pain Palpitations Pancytopenia Papule
Paraesthesia Paresis Pharyngitis Photosensitivity
reaction Protein urine present Proteinuria Pruritus Pulmonary
congestion Pulmonary oedema Purpura Rash Respiratory disorder
Respiratory tract congestion Rhinitis Scab Scar Scrotal
erythema Scrotal oedema Scrotal pain Scrotal ulcer
Sensitisation Shock Sinusitis Skin disorder Skin
exfoliation Skin hyperpigmentation Squamous cell carcinoma
Supraventricular tachycardia Swelling Syncope Tachycardia
Tearfulness Tenderness Thrombocytopenic purpura Thyroiditis
Tinea cruris Tinea infection Tooth disorder Ulcer Upper
respiratory tract infection Urethral disorder Urinary retention
Urinary tract disorder Urinary tract infection Vaginal
infection Vaginal inflammation Vaginitis bacterial Vascular
purpura Vomiting

D(1B) dopamine receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic

or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

lisuride: approved small molecule (0 associated side effects) For the management of Parkinson's Disease

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

fenoldopam: approved small molecule (51 associated side effects) For the in-hospital, short-term (up to 48 hours) management of severe hypertension when rapid, but quickly reversible, emergency reduction of blood pressure is clinically indicated, including malignant hypertension with deteriorating end-organ function.

dopamine: approved small molecule (23 associated side effects) For the correction of hemodynamic imbalances present in the shock syndrome due to myocardial infarction, trauma, endotoxic septicemia, open-heart surgery, renal failure, and chronic cardiac decompensation as in congestive failure

carphenazine: approved small molecule (0 associated side effects) Used in the treatment of acute or chronic schizophrenic reactions in hospitalized patients.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

zuclopenthixol: approved small molecule (0 associated side effects) For the management of the manifestations of schizophrenia.

rotigotine: approved small molecule (93 associated side effects) For use/treatment in neurologic disorders and parkinson's disease as well as moderate-to-severe primary Restless Legs Syndrome.

1167 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Affect lability Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Anorectal discomfort Anorectal disorder Anorgasmia Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphthous stomatitis Apnoea Appendicitis Application site reaction Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder disorder Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood amylase increased Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood electrolytes abnormal Blood glucose decreased Blood glucose increased Blood insulin increased Blood iron decreased Blood lactate dehydrogenase increased Blood phosphorus increased Blood potassium decreased Blood potassium increased Blood pressure abnormal Blood pressure diastolic decreased Blood pressure fluctuation Blood pressure increased Blood pressure systolic decreased Blood prolactin increased Blood triglycerides increased Blood triglycerides normal Blood urea increased Blood uric acid increased Blood urine Blood urine present Blunted affect Body temperature decreased Body temperature increased Bone disorder Bone pain Bone sarcoma Bradycardia Bradykinesia Bradyphrenia Brain neoplasm Brain neoplasm benign Brain oedema Breast cancer Breast cyst Breast disorder Breast disorder female Breast engorgement Breast enlargement Breast feeding Breast neoplasm Breast pain Breath odour

Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bruxism Buccoglossal syndrome
 Bulimia nervosa Bundle branch block Burning sensation
 Bursitis Cachexia Calculus bladder Calculus urinary
 Candidiasis Carbohydrate tolerance decreased Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac septal defect Cardiac valve disease Cardio-
 respiratory arrest Cardiomegaly Cardiomyopathy
 Cardiopulmonary failure Cardiovascular disorder
 Carotid artery occlusion Carpal tunnel syndrome Cataract
 Catatonia Cells in urine Cellulitis Cerebral artery
 embolism Cerebral atrophy Cerebral haemorrhage Cerebral
 infarction Cerebral ischaemia Cerebrospinal fluid rhinorrhoea
 Cerebrovascular accident Cervicitis Cervix carcinoma
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic
 Cholelithiasis Chorea Choreoathetosis Chromaturia
 Chronic lymphocytic leukaemia Chronic obstructive
 pulmonary disease Coccydynia Cognitive disorder Cogwheel rigidity
 Cold sweat Colitis Colitis ulcerative Colon cancer
 Colorectal cancer Coma Completed suicide Compulsions Condition
 aggravated Conduction disorder Confusional state Congenital
 anomaly Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival
 haemorrhage Conjunctivitis Connective tissue disorder
 Constipation Convulsion Coordination abnormal Corneal
 lesion Coronary artery disease Coronary artery occlusion
 Costochondritis Cough Crocodile tears syndrome Cyanosis
 Cystitis Cystitis noninfective Cytolytic hepatitis
 Deafness Death Decreased appetite Decubitus ulcer Deep
 vein thrombosis Deficiency anaemia Dehydration Delirium
 Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermal cyst
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Dermatitis infected Dermoid cyst
 Developmental delay Diabetes mellitus Diabetic coma
 Diabetic hyperglycaemic coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug level increased Drug withdrawal syndrome Dry
 eye Dry mouth Dry skin Dry throat Duodenal ulcer Duodenal
 ulcer haemorrhage Duodenitis Dysarthria Dysentery Dysgeusia
 Dysgraphia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysphemia Dysphonia Dysphoria Dyspnoea Dyspnoea
 exertional Dystonia Dysuria Ear disorder Ear infection
 Ear pain Ecchymosis Eclampsia Eczema Effusion
 Ejaculation disorder Ejaculation failure Elastosis
 perforans Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Electrocardiogram ST segment elevation Electrocardiogram

T wave inversion Electrocardiogram abnormal Electrocardiogram
change Electrolyte imbalance Embolism Emotional distress
Emphysema Encephalopathy Endocrine disorder Endometrial
cancer Endometrial neoplasm Energy increased Enteritis
Enuresis Enzyme abnormality Eosinophilia
Epicondylitis Epididymitis Epilepsy Epistaxis
Erectile dysfunction Eructation Erythema Erythema
multiforme Erythromelalgia Euphoric mood Exfoliative rash
Exostosis Extrapyrarnidal disorder Extrasystoles Eye
discharge Eye disorder Eye haemorrhage Eye infection Eye
inflammation Eye irritation Eye pain Eyelid function
disorder Eyelid oedema Eyelid ptosis Face oedema Facial pain
Facial paresis Faecal incontinence Faecalith Faecaloma
Faeces hard Fasciitis Fasting Fatigue Fear Feeling
abnormal Feeling cold Feeling hot Feeling jittery Female
sexual dysfunction Fibroadenoma of breast Fibrocystic breast
disease Fibrosis Flank pain Flat affect Flatulence Fluid
overload Fluid retention Flushing Folliculitis Formication
Fungal infection Fungal skin infection Furuncle Gait
disturbance Galactorrhoea Gallbladder cancer Gallbladder
disorder Gamma-glutamyltransferase increased Gangrene
Gastric cancer Gastric disorder Gastric haemorrhage
Gastric pH decreased Gastric polyps Gastric ulcer
Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
Gastroenteritis Gastrointestinal disorder Gastrointestinal
haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
Gastrointestinal pain Gastrointestinal stromal tumour
Gastrooesophageal reflux disease Generalised oedema
Genital candidiasis Genital discharge Gestational
hypertension Gingival bleeding Gingival infection Gingival
pain Gingivitis Glaucoma Glossitis Glossodynia Glucose tolerance
decreased Glucose tolerance impaired Glycosuria Glycosylated
haemoglobin increased Goitre Gout Grand mal convulsion
Gravitational oedema Groin pain Gynaecomastia Haemangioma
Haematemesis Haematochezia Haematocrit decreased
Haematoma Haematuria Haemoglobin Haemoglobin decreased
Haemoglobin increased Haemolysis Haemoptysis Haemorrhage
Haemorrhage intracranial Haemorrhoids Haemothorax
Hallucination Hallucination, auditory Hallucination,
visual Hangover Head discomfort Headache Hearing impaired
Heart rate irregular Hemianopia Hemiparesis Hemiplegia
Hepatic enzyme increased Hepatic failure Hepatic function
abnormal Hepatic neoplasm malignant Hepatic steatosis Hepatitis
Hepatobiliary disease Hepatocellular injury Hepatomegaly
Hereditary disorder Hernia Herpes simplex Herpes
virus infection Herpes zoster Hiccups Hirsutism Homicidal
ideation Hordeolum Hormone level abnormal Hostility Hot flush
Hunger Hydrocephalus Hyperacusis Hyperaemia
Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
Hyperhidrosis Hyperinsulinism Hyperkalaemia
Hyperkeratosis Hyperkinesia Hyperlipidaemia
Hypernatraemia Hyperparathyroidism Hyperphagia
Hyperphosphataemia Hyperplasia Hyperreflexia
Hypersensitivity Hypersexuality Hypersomnia Hypertension

Hypertensive crisis Hyperthermia Hyperthyroidism
 Hypertonia Hypertonic bladder Hypertriglyceridaemia
 Hypertrophy Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloroemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypokalaemia Hypokinesia
 Hypomagnesaemia Hypomania Hypomenorrhoea Hyponatraemia
 Hypophagia Hypoproteinaemia Hyporeflexia Hypotension
 Hypothermia Hypothyroidism Hypotonia Hypoventilation
 Hypovitaminosis Hypoxia Idiopathic thrombocytopenic
 purpura Ileus Ill-defined disorder Illusion Immune system
 disorder Impaired healing Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Induration
 Infarction Infected cyst Infection Infestation
 Inflammation Influenza Inguinal hernia Initial insomnia
 Injection site mass Injection site pain Injection site
 reaction Inner ear disorder Insomnia Intention tremor
 Intentional self-injury Interstitial lung disease
 Intervertebral disc degeneration Intervertebral disc disorder
 Intervertebral disc protrusion Intervertebral discitis
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intracranial pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic hepatitis Ischaemic stroke
 Jaundice Jaundice cholestatic Joint contracture Joint
 effusion Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratoconjunctivitis
 sicca Ketoacidosis Ketosis Laboratory test abnormal
 Lacrimal disorder Lacrimation increased Lactose intolerance
 Laryngeal cancer Laryngeal disorder Laryngeal neoplasm
 Laryngeal oedema Laryngitis Laryngospasm Left ventricular
 failure Leiomyoma Lens disorder Lenticular opacities
 Lenticular pigmentation Lethargy Leukaemia
 Leukocytosis Leukoderma Leukopenia Leukoplakia oral
 Libido decreased Libido increased Lichenoid keratosis Lip
 and/or oral cavity cancer Lip dry Lipoma Livedo
 reticularis Liver disorder Liver function test abnormal Liver
 injury Lividity Lobar pneumonia Localised infection
 Localised oedema Logorrhoea Loss of consciousness Loss of
 libido Lower respiratory tract infection Lung cancer metastatic
 Lung disorder Lung infiltration Lung neoplasm malignant
 Lymphadenitis Lymphadenopathy Lymphatic disorder
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
 Lymphopenia Macular degeneration Macule Maculopathy Major
 depression Malaise Male sexual dysfunction Malignant
 melanoma Mania Masked facies Mastitis Mediastinal disorder
 Melaena Melanocytic naevus Memory impairment Meningitis
 Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metabolic
 alkalosis Metastasis Metastatic neoplasm Metrorrhagia
 Micturition disorder Micturition urgency Middle ear
 disorder Middle ear effusion Middle insomnia Migraine with
 aura Migraine without aura Miosis Mitral valve incompetence
 Mobility decreased Monarthrititis Monocytosis Mood swings

Motion sickness Mouth ulceration Movement disorder Multiple
 myeloma Muscle atrophy Muscle contractions involuntary
 Muscle contracture Muscle enzyme increased Muscle
 relaxant therapy Muscle rigidity Muscle spasms Muscle tightness
 Muscle twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mydriasis Myelitis
 Myocardial infarction Myocardial ischaemia Myocarditis
 Myoclonus Myopathy Myopia Myositis Nail disorder
 Nail infection Narcolepsy Nasal congestion Nasal disorder
 Nasal dryness Nasal polyps Nasopharyngitis Nausea
 Neck pain Necrosis Necrosis ischaemic Neoplasm
 malignant Neoplasm prostate Neoplasm recurrence Neoplasm skin
 Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
 lesion Nervous system disorder Nervousness Neuralgia
 Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
 malignant syndrome Neurological symptom Neuroma Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night sweats Nightmare
 Nocturia Nodal arrhythmia Nodule Normochromic
 normocytic anaemia Nuchal rigidity Nystagmus Obesity
 Obsessive thoughts Obstruction Obstructive airways disorder
 Ocular hyperaemia Oculogyric crisis Oedema Oedema peripheral
 Oesophageal carcinoma Oesophageal disorder Oesophageal spasm
 Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oliguria Onychomycosis Opisthotonus Oral candidiasis
 Oral neoplasm benign Oral pain Orchitis noninfective
 Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteomyelitis Osteonecrosis Osteopenia
 Osteoporosis Otitis externa Otitis media Ovarian
 cancer Ovarian cyst Pain Pain in extremity Pain in jaw
 Pallor Palpitations Pancreatitis acute Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Papilloma Paraesthesia oral Paralysis Paranoia
 Parasomnia Paresis Parkinsonian gait Parkinsonism
 Paronychia Parosmia Pathological fracture Pathological
 gambling Pelvic pain Penis disorder Peptic ulcer Pericardial
 effusion Pericarditis constrictive Perineal pain
 Periodontitis Periorbital oedema Peripheral coldness
 Peripheral ischaemia Peripheral vascular disorder Peritoneal
 adhesions Personality disorder Petechiae Pharyngeal erythema
 Pharyngitis Phlebitis Phlebitis superficial Phobia
 Phonological disorder Photophobia Photopsia Photosensitivity
 allergic reaction Photosensitivity reaction Piloerection
 Plasmacytoma Platelet count decreased Pleural disorder
 Pleural effusion Pleural fibrosis Pleurisy Pneumonia
 Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polyarteritis nodosa
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Pre-eclampsia Premature ejaculation Premenstrual
 syndrome Presyncope Priapism Proctalgia Productive cough
 Prolactinoma Prostate cancer Prostatic adenoma Prostatic
 disorder Prostatitis Protein urine present Proteinuria Protrusion

tongue Prurigo Pruritus Pruritus genital Pseudolymphoma
 Psoriasis Psychiatric symptom Psychomotor retardation
 Psychotic disorder Pulmonary congestion Pulmonary
 embolism Pulmonary fibrosis Pulmonary hypertension Pulmonary
 oedema Purpura Pyelonephritis Pyoderma Pyuria Rash
 erythematous Rash maculo-papular Rash papular Rash
 pustular Rash vesicular Raynaud's phenomenon Rectal cancer
 Rectal haemorrhage Rectal tenesmus Red blood cell count
 decreased Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory alkalosis Respiratory arrest Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Retinal
 detachment Retinal disorder Retinal vascular disorder Retinitis
 pigmentosa Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
 Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
 Saliva altered Salivary duct obstruction Salivary gland
 enlargement Salivary hypersecretion Salpingitis Sarcoma Scab
 Schizoaffective disorder Schizophreniform disorder
 Sciatica Scotoma Seasonal allergy Seborrhoeic dermatitis
 Seborrhoeic keratosis Sedation Sensation of heaviness
 Sensory disturbance Sensory loss Sepsis Septic
 shock Sexual dysfunction Shock Sialoadenitis Sicca syndrome
 Sick sinus syndrome Sinus arrhythmia Sinus bradycardia Sinus
 congestion Sinus disorder Sinus headache Sinus tachycardia
 Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma
 Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep talking Sluggishness Sneezing Snoring
 Social avoidant behaviour Somnambulism Somnolence
 Speech disorder Spinal osteoarthritis Spine malformation
 Splenomegaly Spondylitis Squamous cell carcinoma
 Status epilepticus Stevens-Johnson syndrome Sticky skin
 Stomatitis Stress Stridor Stupor Subarachnoid
 haemorrhage Subcutaneous nodule Subdural haematoma Sudden
 death Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Suspiciousness Swelling Swelling face Swollen
 tongue Syncope Synovitis Systemic lupus erythematosus
 Tachycardia Tachypnoea Tardive dyskinesia Tenderness
 Tendonitis Tenosynovitis Tension Tension headache
 Terminal insomnia Testicular disorder Testicular pain
 Therapeutic response decreased Therapeutic response
 increased Thinking abnormal Thirst Thought blocking Throat
 irritation Throat tightness Thrombocytopenia Thrombocytopenic
 purpura Thrombocytosis Thrombophlebitis Thrombosis Thyroid
 adenoma Thyroid cancer Thyroid neoplasm Thyroiditis Tic
 Tinnitus Tongue discolouration Tongue disorder Tongue dry
 Tongue oedema Tongue paralysis Tongue spasm Tongue
 ulceration Tonsillar hypertrophy Tonsillitis Tooth abscess Tooth

disorder Tooth impacted Tooth infection Toothache Torticollis
Tracheobronchitis Transaminases increased Transient
ischaemic attack Tremor Trismus Tuberculin test positive
Ulcer Ulcer haemorrhage Umbilical hernia Unevaluable event
Unintended pregnancy Upper respiratory tract infection
Upper-airway cough syndrome Urethral disorder Urethral pain
Urethritis Urinary hesitation Urinary incontinence
Urinary retention Urinary tract disorder Urinary tract
infection Urine abnormality Urine analysis abnormal Urine
output increased Urosepsis Urticaria Uterine disorder Uterine
haemorrhage Uterine leiomyoma Uterine neoplasm Uterovaginal prolapse
VIIth nerve paralysis Vaginal discharge Vaginal haemorrhage
Vaginal infection Vaginal inflammation Varicose vein
Vascular purpura Vasculitis Vasoconstriction Vasodilation
procedure Vasospasm Vein disorder Venous thrombosis Ventricular
arrhythmia Ventricular extrasystoles Ventricular failure
Ventricular fibrillation Ventricular hypertrophy
Ventricular tachycardia Vertigo Vestibular ataxia
Vestibular disorder Viral diarrhoea Viral infection
Vision blurred Visual acuity reduced Visual impairment
Vitamin B12 deficiency Vitreous detachment Vitreous floaters
Vocal cord paralysis Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Vulvovaginitis Water
intoxication Weight decreased Weight fluctuation Weight
increased Wheezing White blood cell count decreased White blood
cell count increased White blood cells urine positive Withdrawal
bleed Withdrawal syndrome Wound infection Xerophthalmia
Xerosis Yawning

ALK tyrosine kinase receptor - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
(0 associated side effects) For nutritional supplementation,
also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Glucagon receptor - Group: Receptor

Treated with:

glucagon recombinant: approved biotech (0 associated side
effects) For treatment of severe hypoglycemia, also used in
gastrointestinal imaging

known side effects mediated through drugs targeting this protein:

Sodium channel subunit beta-2 - Group: Channel

Treated with:

zonisamide: approved small molecule (190 associated side
effects) For use as adjunctive treatment of partial seizures in
adults with epilepsy.

190 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Acne Agitation Alanine
aminotransferase increased Albuminuria Alopecia Amblyopia
Amenorrhoea Anaemia Anxiety Apnoea Arthralgia
Arthritis Aspartate aminotransferase increased Asthenia
Ataxia Atrial fibrillation Bladder pain Blood
lactate dehydrogenase increased Bradycardia Calculus bladder
Cardiac failure Cardiac fibrillation Cerebrovascular
accident Chest pain Cholangitis Cholecystitis Cholelithiasis
Cognitive disorder Colitis Confusional state
Conjunctivitis Constipation Convulsion Coordination
abnormal Cough Deafness Decreased appetite Dehydration
Depressed level of consciousness Dermatitis Dermatitis
bullous Diarrhoea Diplopia Discomfort Disturbance in sexual
arousal Dizziness Dry mouth Dry skin Duodenal ulcer
Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia
Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis
Eczema Embolism Encephalopathy Enuresis Erectile
dysfunction Euphoric mood Extrasystoles Face oedema Faecal
incontinence Fatigue Feeling abnormal Flank pain Flatulence
Gait disturbance Gastritis Gastroenteritis Gastrointestinal
pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
Glossitis Gynaecomastia Haematemesis Haematuria
Haemoglobin Haemoptysis Haemorrhage Headache Hirsutism
Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
Hyperreflexia Hypersensitivity Hypertension Hypertonia
Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
Hypotonia Ill-defined disorder Immunodeficiency
Incontinence Influenza Insomnia Iritis
Irritability Jaundice Jaundice cholestatic Leukopenia
Libido decreased Loss of consciousness Lymphadenopathy
Malaise Mastitis Melaena Menorrhagia Microcytic
anaemia Micturition urgency Mouth ulceration Movement disorder
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle twitching Muscular weakness Musculoskeletal discomfort
Musculoskeletal stiffness Myalgia Myoclonus Nausea
Nervousness Neuritis Neuropathy peripheral Nocturia
Nuchal rigidity Nystagmus Oculogyric crisis Oedema
Oedema peripheral Oesophagitis Osteoarthritis Pain
Palpitations Paraesthesia oral Paralysis Parosmia
Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
Pruritus Psychotic disorder Pulmonary embolism Rash
Rash maculo-papular Rash pustular Rectal haemorrhage
Rhinitis Scotoma Shock Somnolence Speech disorder
Stomatitis Syncope Systemic lupus erythematosus Tachycardia
Tension Thirst Thrombocytopenia Thrombophlebitis
Tinnitus Tremor Ulcer Urinary incontinence Urinary
retention Urine output increased Urticaria VIIIth nerve paralysis
Vascular insufficiency Ventricular extrasystoles Vertigo
Vomiting Weight decreased Weight increased

Histamine H1 receptor - Group: Receptor

Treated with:

benzotropine: approved small molecule (0 associated side effects) For use as an adjunct in the therapy of all forms of parkinsonism and also for use in the control of extrapyramidal disorders due to neuroleptic drugs.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

clemastine: approved small molecule (53 associated side effects) For the relief of symptoms associated with allergic rhinitis such as sneezing, rhinorrhea, pruritus and acrimation. Also for the management of mild, uncomplicated allergic skin manifestations of urticaria and angioedema. Used as self-medication for temporary relief of symptoms associated with the common cold.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

cetirizine: approved small molecule (229 associated side effects) For the relief of symptoms associated with seasonal allergic rhinitis, perennial allergic rhinitis and the treatment of the uncomplicated skin manifestations of chronic idiopathic urticaria

terfenadine: approved, withdrawn small molecule (0 associated side effects) For the treatment of allergic rhinitis, hay fever, and allergic skin disorders.

buclizine: approved small molecule (0 associated side effects) For prevention and treatment of nausea, vomiting, and dizziness associated with motion sickness and vertigo (dizziness caused by other medical problems).

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

doxylamine: approved small molecule (0 associated side effects) Used alone as a short-term sleep aid, in combination with other drugs as a night-time cold and allergy relief drug. Also used in combination with Vitamin B6 (pyridoxine) to prevent morning sickness in pregnant women.

mirtazapine: approved small molecule (272 associated side effects) For the treatment of major depressive disorder.

dexbrompheniramine: approved small molecule (0 associated side effects) For treatment and relief of symptoms of allergies, hay fever, and colds

promazine: approved small molecule (0 associated side effects) Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

triprolidine: approved small molecule (0 associated side effects) For the symptomatic relief of seasonal or perennial allergic rhinitis or nonallergic rhinitis; allergic conjunctivitis;

and mild, uncomplicated allergic skin manifestations of urticaria and angioedema. Also used in combination with other agents for the symptomatic relief of symptoms associated with the common cold.

cyproheptadine: approved small molecule (63 associated side effects) For treatment of perennial and seasonal allergic rhinitis, vasomotor rhinitis, allergic conjunctivitis due to inhalant allergens and foods, mild uncomplicated allergic skin manifestations of urticaria and angioedema, amelioration of allergic reactions to blood or plasma, cold urticaria, dermatographism, and as therapy for anaphylactic reactions adjunctive to epinephrine.

loratadine: approved small molecule (31 associated side effects)

A self-medication that is used alone or in combination with pseudoephedrine sulfate for the symptomatic relief of seasonal allergic rhinitis. Also used for the symptomatic relief of pruritus, erythema, and urticaria associated with chronic idiopathic urticaria in patients (not for children under 6 unless directed by a clinician).

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

hydroxyzine: approved small molecule (12 associated side effects) For symptomatic relief of anxiety and tension associated with psychoneurosis and as an adjunct in organic disease states in which anxiety is manifested. Useful in the management of pruritus due to allergic conditions such as chronic urticaria.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

astemizole: approved, withdrawn small molecule (0 associated side effects) Astemizole was indicated for use in the relieving allergy symptoms, particularly rhinitis and conjunctivitis. It has been withdrawn from the market however due to concerns of arrhythmias.

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

histamine phosphate: approved small molecule (0 associated side effects) Histamine phosphate is indicated as a diagnostic aid for evaluation of gastric acid secretory function.

azatadine: approved small molecule (0 associated side effects)
For the relief of the symptoms of upper respiratory mucosal

congestion in perennial and allergic rhinitis, and for the relief of nasal congestion and eustachian t.b. congestion.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

meclizine: approved small molecule (8 associated side effects) For the prevention and treatment of nausea, vomiting, or dizziness associated with motion sickness.

carbinoxamine: approved small molecule (52 associated side effects) For symptomatic relief of seasonal and perennial allergic rhinitis and vasomotor rhinitis, as well as allergic conjunctivitis caused by foods and inhaled allergens. Also for the relief of allergic reactions to blood or plasma, and the symptomatic management of mild, uncomplicated allergic skin manifestations of urticaria and angioedema.

epinastine: approved small molecule (12 associated side effects) For the prevention of itching associated with allergic conjunctivitis.

benzquinamide: approved small molecule (0 associated side effects) Used to prevent and treat nausea and vomiting associated with anesthesia and surgery, administered intramuscularly or intravenously.

olopatadine: approved small molecule (38 associated side effects) For the treatment of ocular itching associated with allergic conjunctivitis.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

tripelennamine: approved small molecule (0 associated side effects) Used for the symptomatic relief of hypersensitivity reactions, coughs, and the common cold.

tolazoline: approved small molecule (0 associated side effects) For the treatment of pulmonary artery anomalies

pemirolast: approved small molecule (0 associated side effects) For the prevention of itching of the eyes caused by allergies such as hay fever, and allergic conjunctivitis

methdilazine: approved small molecule (0 associated side effects) Used for the symptomatic relief of hypersensitivity reactions and particularly for the control of pruritic skin disorders

ketotifen: approved small molecule (44 associated side effects) Indicated as an add-on or prophylactic oral medication in the chronic treatment of mild atopic asthmatic children. Also used as self-medication for the temporary relief of itching of the eye due to allergic conjunctivitis (ophthalmic).

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional

melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

fexofenadine: approved small molecule (65 associated side effects) For management of Seasonal allergic rhinitis

desloratadine: approved small molecule (59 associated side effects) For the relief of symptoms of seasonal allergic rhinitis, perennial (non-seasonal) allergic rhinitis. Desloratidine is also used for the symptomatic treatment of pruritus and urticaria (hives) associated with chronic idiopathic urticaria.

azelastine: approved small molecule (107 associated side effects) For the symptomatic treatment of seasonal allergic rhinitis and non-allergic rhinitis, as well as symptomatic relief of ocular itching associated with allergic conjunctivitis.

dimenhydrinate: approved small molecule (0 associated side effects) Used for treating vertigo, motion sickness, and nausea associated with pregnancy.

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

mequitazine: approved small molecule (0 associated side effects) For the treatment of Hay fever, urticaria (hives) and allergic rhinitis

diphenhydramine: approved small molecule (51 associated side effects) For the treatment of symptoms associated with Vertigo/Meniere's disease, nausea and vomiting, motion sickness and insect bite.

emedastine: approved small molecule (17 associated side effects) For the temporary relief of the signs and symptoms of allergic conjunctivitis.

levocabastine: approved small molecule (19 associated side effects) As an ophthalmic for the temporary relief of the signs and symptoms of seasonal allergic conjunctivitis. Also used as a nasal spray for allergic rhinitis.

chlorpheniramine: approved small molecule (47 associated side effects) For the treatment of rhinitis, urticaria, allergy, common cold, asthma and hay fever.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

diphenylpyraline: approved small molecule (0 associated side effects) For use in the treatment of allergic rhinitis, hay fever, and allergic skin disorders.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

escitalopram: approved small molecule (0 associated side effects) Labeled indications include major depressive disorder (MDD) and generalized anxiety disorder (GAD). Unlabeled indications

include treatment of mild dementia-associated agitation in nonpsychotic patients.

cyclizine: approved small molecule (0 associated side effects)
For prevention and treatment of nausea, vomiting, and dizziness associated with motion sickness, and vertigo (dizziness caused by other medical problems).

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

bromodiphenhydramine: approved small molecule (0 associated side effects) For management of symptoms related to hay fever and other types of allergy and used to help bring up phlegm, thin secretions, and make a cough productive.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

trimeprazine: approved small molecule (0 associated side effects) Used to prevent and relieve allergic conditions which cause pruritus (itching) and urticaria (some allergic skin reactions).

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

aceprometazine: approved small molecule (0 associated side effects) Aceprometazine is often used in combination with meprobamate for the treatment of sleep disorders.

phenindamine: approved small molecule (0 associated side effects) Used to treat sneezing, runny nose, itching, watery eyes, hives, rashes, itching, and other symptoms of allergies and the common cold.

chlorthalidone: approved small molecule (0 associated side effects) Used in the treatment of dry cough.

flunarizine: approved small molecule (0 associated side effects) Used in the prophylaxis of migraine, occlusive peripheral vascular disease, vertigo of central and peripheral origin, and as an adjuvant in the therapy of epilepsy.

bepotastine: approved small molecule (0 associated side effects) For the treatment of allergic conjunctivitis and urticaria/pruritus.

mianserin: approved small molecule (0 associated side effects)
For the treatment of depression.

mepyramine: approved small molecule (0 associated side effects)
Mepyramine is a first generation antihistamine used in treating allergies, symptomatic relief of hypersensitivity reaction, and in pruritic skin disorders.

betahistine: approved small molecule (18 associated side effects) For the reduction of episodes of vertigo associated with Ménière's disease.

alcaftadine: approved small molecule (0 associated side effects) For the prevention of itching associated with allergic conjunctivitis.

antazoline: approved small molecule (0 associated side effects) Used to relieve nasal congestion and in eye drops, usually in combination with naphazoline, to relieve the symptoms of allergic conjunctivitis.

chloropyramine: approved small molecule (0 associated side effects) For the treatment of allergic conjunctivitis, allergic rhinitis, bronchial asthma, and other atopic (allergic) conditions.

dimethindene: approved small molecule (0 associated side effects) Indicated as symptomatic treatment of allergic reactions: urticaria, allergies of the upper respiratory tract such as hay fever and perennial rhinitis, food and drug allergies; pruritus of various origins, except pruritus due to cholestasis; insect bites. Dimethindene is also indicated for pruritus in eruptive skin diseases such as chicken-pox. Dimethindene can also be used as an adjuvant in eczema and other pruriginous dermatoses of allergic origin.

isothipendyl: approved small molecule (0 associated side effects) For the topical treatment of itching associated with allergic reactions.

1047 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Acute abdomen Acute coronary syndrome Acute psychosis Adenocarcinoma Adenoma benign Adjustment disorder Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amblyopia Amenorrhoea Amnesia Amyotrophic lateral sclerosis Anaemia Anaemia macrocytic Anaphylactic shock Anaphylactoid reaction Anger Angina pectoris Angioedema Angiopathy Angle closure glaucoma Anorectal disorder Anorgasmia Anosmia Antidiuretic hormone abnormality Antinuclear antibody positive Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphthous stomatitis Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Arrhythmia Arrhythmia supraventricular Arterial occlusive disease Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Athetosis Atrial fibrillation Atrial flutter Atrioventricular block first degree Automatism Autonomic neuropathy Azotaemia Back pain Balance disorder Basophilia Benign prostatic hyperplasia Bladder dilatation Bladder pain Blepharitis Blepharospasm Blindness Blister Blood acid phosphatase increased Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin

increased Blood cholesterol increased Blood creatine phosphokinase
increased Blood creatinine increased Blood disorder Blood
glucose decreased Blood glucose increased Blood insulin
increased Blood iron decreased Blood lactate dehydrogenase
increased Blood potassium decreased Blood potassium increased
Blood pressure abnormal Blood pressure diastolic decreased
Blood pressure fluctuation Blood pressure increased Blood
pressure systolic decreased Blood prolactin increased Blood
testosterone decreased Blood triglycerides increased Blood
triglycerides normal Blood urea increased Blood uric acid
increased Blood urine Blood urine present Blunted affect Body
temperature decreased Body temperature increased Bone disorder
Bone pain Bradycardia Bradykinesia Bradyphrenia Brain
oedema Breast cyst Breast discharge Breast discomfort Breast
disorder Breast disorder female Breast disorder male Breast
engorgement Breast enlargement Breast feeding Breast pain
Breast swelling Breast tenderness Bronchitis Bronchopneumonia
Bronchopneumopathy Bronchospasm Bruxism
Buccoglossal syndrome Bundle branch block Bundle branch
block left Bundle branch block right Burning sensation Bursitis
Cachexia Calculus urinary Cancer in remission Candidiasis
Carbohydrate tolerance decreased Cardiac arrest Cardiac
disorder Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cardiac flutter Cardiac murmur Cardio-
respiratory arrest Cardiomegaly Cardiomyopathy
Cardiopulmonary failure Cardiovascular disorder
Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
in urine Cellulitis Cerebral artery embolism Cerebral
haemorrhage Cerebral infarction Cerebral ischaemia
Cerebrovascular accident Cerebrovascular disorder
Cervicitis Chapped lips Cheilitis Chest discomfort Chest
pain Chills Choking Cholecystitis Cholelithiasis
Cholestasis Cholinergic syndrome Chorea Choreoathetosis
Chronic obstructive pulmonary disease Clonus
Coagulopathy Coccydynia Cognitive disorder Cogwheel
rigidity Cold sweat Colitis Coma Completed suicide Condition
aggravated Confusional state Congenital eye disorder
Conjunctival hyperaemia Conjunctivitis Connective tissue
disorder Constipation Conversion disorder Convulsion
Coordination abnormal Corneal infiltrates Corneal lesion
Corneal staining Costochondritis Cough Crocodile tears
syndrome Crying Cyanosis Cystitis Cystitis noninfective
Cytolytic hepatitis Dandruff Deafness Deafness
transitory Death Decreased appetite Decubitus ulcer Deep vein
thrombosis Deficiency anaemia Dehydration Delirium Delusion
Dementia Dementia with Lewy bodies Dental caries
Dependence Depersonalisation Depressed level of consciousness
Depression Depressive symptom Derealisation Dermal cyst
Dermatitis atopic Dermatitis bullous Dermatitis contact
Dermatitis exfoliative Diabetes mellitus Diabetic coma
Diabetic hyperglycaemic coma Diabetic hyperosmolar coma
Diabetic ketoacidosis Diarrhoea Diplopia Discomfort
Disorientation Disturbance in attention Disturbance in
sexual arousal Diverticulitis Dizziness Dizziness exertional
Dizziness postural Drooling Drug abuse Drug dependence

Drug eruption Drug hypersensitivity Drug interaction Drug withdrawal syndrome Drug withdrawal syndrome neonatal Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer Dysaesthesia Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dyspnea Dysphonia Dysphoria Dyspnoea Dystonia Dysuria Ear disorder Ear infection Ear pain Ecchymosis Eczema Effusion Ejaculation delayed Ejaculation disorder Ejaculation failure Elastosis perforans Elderly Electrocardiogram QRS complex Electrocardiogram QT prolonged Electrocardiogram ST segment depression Electrocardiogram ST segment elevation Electrocardiogram T wave inversion Electrocardiogram abnormal Electrocardiogram change Electroencephalogram abnormal Elevated mood Embolism Emotional distress Encephalopathy Endocrine disorder Energy increased Enteritis Enuresis Eosinophil count increased Eosinophilia Epididymitis Epilepsy Epistaxis Erectile dysfunction Eructation Erythema Erythema multiforme Euphoric mood Exfoliative rash Exostosis Extensor plantar response Extrapyrarnidal disorder Extrasystoles Extravasation Eye discharge Eye disorder Eye haemorrhage Eye infection Eye inflammation Eye irritation Eye movement disorder Eye pain Eye pruritus Eye swelling Eyelid disorder Eyelid function disorder Eyelid oedema Eyelid ptosis Face oedema Facial pain Facial paresis Faecal incontinence Faecalith Faecaloma Faeces discoloured Faeces hard Fasting Fatigue Fear Feeling abnormal Feeling cold Feeling hot Feeling jittery Female sexual dysfunction Flank pain Flat affect Flatulence Fluid retention Flushing Foetor hepaticus Folliculitis Formication Fungal infection Fungal skin infection Furuncle Gait disturbance Galactorrhoea Gamma-glutamyltransferase increased Gangrene Gastric disorder Gastric pH decreased Gastric ulcer Gastric ulcer haemorrhage Gastritis Gastroenteritis Gastrointestinal disorder Gastrointestinal haemorrhage Gastrointestinal obstruction Gastrointestinal pain Gastrooesophageal reflux disease Generalised oedema Genital discharge Gingival bleeding Gingival pain Gingival recession Gingivitis Glaucoma Glomerulonephritis Glossitis Glossodynia Glucose tolerance decreased Glucose tolerance impaired Glycosuria Glycosylated haemoglobin increased Goitre Gout Grand mal convulsion Groin pain Gynaecomastia Haematemesis Haematochezia Haematocrit decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic anaemia Haemoptysis Haemorrhage Haemorrhage intracranial Haemorrhagic disorder Haemorrhoids Hallucination Hallucination, auditory Hallucination, visual Hangover Head discomfort Head titubation Headache Hearing impaired Heart disease congenital Heart rate irregular Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme increased Hepatic failure Hepatic function abnormal Hepatic necrosis Hepatic steatosis Hepatitis Hepatitis A Hepatitis cholestatic Hepatobiliary disease Hepatocellular injury Hepatomegaly Hernia Herpes simplex Herpes virus infection Herpes

zoster Hiccups Hirsutism Homicidal ideation Hormone
 level abnormal Hostility Hot flush Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hyperthermia Hyperthyroidism Hypertonia
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperventilation Hypoaesthesia
 Hypoaesthesia oral Hypocalcaemia Hypochloraemia
 Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
 Hypohidrosis Hypokalaemia Hypokinesia Hypomagnesaemia
 Hypomania Hypomenorrhoea Hyponatraemia Hypophagia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypoxia
 Idiopathic thrombocytopenic purpura Ileus paralytic Ill-
 defined disorder Immune system disorder Impaired healing
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infection parasitic
 Infestation Inflammation Influenza Influenza like illness
 Inguinal hernia Initial insomnia Injection site inflammation
 Injection site mass Injection site pain Injection site
 phlebitis Injection site reaction Insomnia Intention tremor
 Intentional self-injury Intermittent claudication
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intraocular
 pressure increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratopathy
 Ketoacidosis Ketosis Labyrinthitis Lacrimal disorder
 Lacrimation decreased Lacrimation increased Laryngeal oedema
 Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukocytoclastic vasculitis
 Leukocytosis Leukoderma Leukopenia Leukoplakia oral
 Libido decreased Libido increased Lichenoid keratosis Lip
 blister Lip dry Lip swelling Liver disorder Liver
 function test abnormal Liver injury Localised infection
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung adenocarcinoma stage I
 Lymphadenitis Lymphadenopathy Lymphocytosis Lymphoedema
 Lymphopenia Maculopathy Major depression Malaise Male sexual
 dysfunction Malignant melanoma Mania Masked facies Mastitis
 Mediastinal disorder Megacolon Melaena Memory impairment
 Menopausal symptoms Menorrhagia Menstrual disorder
 Menstruation delayed Menstruation irregular Mental disability
 Mental disorder Mental retardation Mental status changes
 Methaemoglobinaemia Metrorrhagia Micturition urgency
 Middle insomnia Migraine Miosis Mitral valve

incompetence Mobility decreased Monocytosis Mood swings
 Motion sickness Mouth ulceration Movement disorder Mucosal
 inflammation Mucosal ulceration Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenic syndrome
 Mydriasis Myelitis Myocardial infarction Myocardial
 ischaemia Myocarditis Myoclonus Myopathy Myositis Nail
 discolouration Nasal congestion Nasal discomfort Nasal disorder
 Nasal dryness Nasal oedema Nasal polyps Nasal
 septum perforation Nasopharyngitis Nausea Neck pain
 Necrosis Neoplasm Nephritis Nephrolithiasis Nervous
 system disorder Nervousness Neuralgia Neuritis Neurodermatitis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neurosis Neutropenia Neutrophil count decreased Neutrophil
 count increased Night sweats Nightmare Nocturia Nocturnal
 dyspnoea Nodal arrhythmia Nodule Normochromic normocytic
 anaemia Nuchal rigidity Nystagmus Obesity Obsessive
 thoughts Obstruction Ocular hyperaemia Oculogyric crisis Oedema
 Oedema peripheral Oesophageal achalasia Oesophageal disorder
 Oesophageal ulcer Oesophagitis Oligomenorrhoea Oliguria
 Onychomycosis Opisthotonus Oral candidiasis Oral pain
 Orchitis noninfective Orgasm abnormal Oropharyngeal
 discomfort Oropharyngeal pain Oropharyngeal spasm Orthostatic
 hypotension Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteopenia Osteoporosis Osteoporotic fracture Otitis
 externa Otitis media Otitis media chronic Ovarian cyst
 Pain Pain in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Paraesthesia oral Paralysis Paranoia Parkinsonian gait
 Parkinsonism Parosmia Parotid gland enlargement
 Pathological fracture Pelvic pain Peptic ulcer Pericardial
 effusion Pericarditis Perineal pain Periodontitis
 Periorbital oedema Peripheral coldness Personality
 disorder Petechiae Petit mal epilepsy Phaeochromocytoma
 Pharyngeal disorder Pharyngeal erythema Pharyngitis
 Phlebitis Phlebitis superficial Phobia Phonological
 disorder Photophobia Photopsia Photosensitivity reaction
 Pigmentation disorder Pituitary tumour benign Platelet
 count decreased Pleural disorder Pleural effusion Pneumonia
 Pneumonia aspiration Pneumothorax Poisoning Pollakiuria
 Polycythaemia Polydipsia Polyp Polyuria Postural
 orthostatic tachycardia syndrome Posture abnormal Precocious
 puberty Pregnancy test positive Premature ejaculation
 Premenstrual syndrome Pressure of speech Presyncope
 Priapism Productive cough Prostatitis Protein urine present
 Proteinuria Protrusion tongue Pruritus Pruritus generalised
 Pruritus genital Psoriasis Psychiatric symptom Psychomotor
 retardation Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary function test decreased
 Pulmonary oedema Purpura Pyelonephritis Pyuria Rales

Rash erythematous Rash generalised Rash maculo-papular Rash
papular Rash pustular Rash vesicular Rectal haemorrhage
Red blood cell count decreased Red blood cell sedimentation
rate increased Reflux oesophagitis Regressive behaviour Renal
failure Renal failure acute Renal pain Respiratory alkalosis
Respiratory arrest Respiratory depression Respiratory
disorder Respiratory distress Respiratory failure Respiratory
tract congestion Respiratory tract infection Respiratory tract
infection viral Restless legs syndrome Retching Retinal artery
occlusion Retinal disorder Retinitis pigmentosa Retrograde
ejaculation Rhabdomyolysis Rheumatoid arthritis Rhinitis
Rhinitis allergic Rhinitis perennial Rhinitis seasonal
Rhinorrhoea Rhonchi Rosacea Salivary gland disorder
Salivary gland enlargement Salivary hypersecretion
Sarcoidosis Sarcosinaemia Scab Schizoaffective disorder
Schizophrenia Schizophreniform disorder Sciatica
Scotoma Seasonal allergy Seborrhoeic dermatitis Sedation
Sensation of foreign body Sensation of heaviness Sensory
loss Sepsis Septic shock Severe acute respiratory syndrome
Sexual dysfunction Shock Sinus arrhythmia Sinus bradycardia
Sinus congestion Sinus disorder Sinus headache Sinus
tachycardia Sinusitis Skin discolouration Skin disorder Skin
exfoliation Skin hypertrophy Skin irritation Skin lesion Skin mass
Skin papilloma Skin ulcer Sleep apnoea syndrome Sleep
disorder Sleep paralysis Sleep talking Sluggishness Small
intestinal obstruction Sneezing Social avoidant behaviour
Somnambulism Somnolence Speech disorder Sputum increased
Status epilepticus Stevens-Johnson syndrome Sticky skin
Stillbirth Stomatitis Stridor Stupor Subarachnoid
haemorrhage Subcutaneous abscess Subdural haematoma Sudden
death Suicidal ideation Suicide attempt Supraventricular
extrasystoles Supraventricular tachycardia Surgery
Suspiciousness Swelling Swelling face Swollen tongue
Syncope Synostosis Systemic lupus erythematosus Tachycardia
Tardive dyskinesia Tenderness Tendon disorder Tendonitis
Tenosynovitis Tension Tension headache Testicular
disorder Testicular pain Testicular swelling Tetany
Thinking abnormal Thirst Thought blocking Throat irritation
Throat tightness Thrombocytopenia Thrombocytopenic purpura
Thrombocytosis Thrombophlebitis Thrombosis Thrombotic
thrombocytopenic purpura Thyroid disorder Thyroiditis Tic
Tinnitus Tongue discolouration Tongue disorder Tongue dry
Tongue oedema Tongue paralysis Tongue spasm Tonsillar
hypertrophy Tonsillitis Tooth abscess Tooth disorder Tooth
impacted Tooth infection Toothache Torsade de pointes
Torticollis Toxic epidermal necrolysis Toxicity to various
agents Tracheobronchitis Transaminases increased Transient
ischaemic attack Tremor Trismus Tuberculin test positive
Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Unintended
pregnancy Unresponsive to stimuli Upper respiratory tract
infection Urethral disorder Urethritis Urinary hesitation
Urinary incontinence Urinary retention Urinary tract disorder
Urinary tract infection Urine abnormality Urine analysis
abnormal Urine output increased Urosepsis Urticaria Urticaria
chronic Uterine disorder Uterine haemorrhage Uterine leiomyoma

Uterovaginal prolapse VIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicella Varicose vein Vascular headache Vascular purpura
 Vasculitis Vasodilation procedure Venous thrombosis Ventricular
 arrhythmia Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Viral diarrhoea Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vomiting Vulvovaginal candidiasis Vulvovaginal dryness
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal syndrome Xerophthalmia
 Xerosis Yawning

Sodium channel protein type 4 subunit alpha - Group: Channel
 Treated with:

diclofenac: approved small molecule (310 associated side effects) For the acute and chronic treatment of signs and symptoms of osteoarthritis and rheumatoid arthritis.
 propofol: approved small molecule (163 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.
 zonisamide: approved small molecule (190 associated side effects) For use as adjunctive treatment of partial seizures in adults with epilepsy.
 flecainide: approved small molecule (131 associated side effects) Flecainide is a class Ic antiarrhythmic agent and as such, it is used for the prevention of paroxysmal supraventricular tachycardias (PSVT), including atrioventricular nodal reentrant tachycardia, atrioventricular reentrant tachycardia and other supraventricular tachycardias of unspecified mechanism associated with disablin.
 fospropofol: approved small molecule (0 associated side effects) Used for induction and/or maintenance of anaesthesia and for management of refractory status epilepticus.

459 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain upper Abnormal dreams
 Abscess Acidosis Acne Acute coronary syndrome
 Affect lability Ageusia Agitation Agranulocytosis
 Akathisia Alanine aminotransferase increased Albuminuria
 Alopecia Amblyopia Amenorrhoea Amnesia Anaemia
 Anaphylactic shock Anaphylactoid reaction Angina pectoris
 Angioedema Angiopathy Anorectal disorder Anxiety
 Aortic dissection Apathy Aphasia Aphthous stomatitis
 Aplastic anaemia Apnoea Application site reaction
 Arrhythmia Arrhythmia supraventricular Arteriosclerosis
 Arthralgia Arthritis Aspartate aminotransferase increased
 Asthenia Asthma Ataxia Atrial fibrillation
 Atrioventricular block Atrophy Azotaemia Back pain
 Balance disorder Bladder pain Bleeding time prolonged
 Blindness Blister Blood alkaline phosphatase increased

Blood creatine phosphokinase increased Blood creatinine
 increased Blood disorder Blood lactate dehydrogenase increased
 Blood urea increased Body temperature increased Bone pain
 Bradycardia Breast disorder Breath odour Bronchitis
 Bronchospasm Bundle branch block Burning sensation
 Calculus bladder Cardiac arrest Cardiac disorder Cardiac
 failure Cardiac failure congestive Cardiac fibrillation
 Cardiac output decreased Cardiovascular disorder
 Cerebrovascular accident Chest pain Chills Cholangitis
 Cholecystitis Cholelithiasis Cholestasis Coagulopathy
 Cognitive disorder Colitis ulcerative Coma Confusional
 state Conjunctival hyperaemia Conjunctivitis allergic
 Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal deposits Corneal disorder
 Corneal erosion Corneal infiltrates Corneal oedema
 Corneal opacity Cough Cystitis Cystitis noninfective
 Deafness Death Decreased appetite Dehydration Delirium
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Diarrhoea Diarrhoea haemorrhagic
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drug abuse Drug effect increased Drug ineffective
 Dry mouth Dry skin Duodenal ulcer Duodenitis Dysarthria
 Dysgeusia Dyskinesia Dyspepsia Dysphagia Dysphonia
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 pain Ecchymosis Eczema Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram
 abnormal Embolism Encephalopathy Enterocolitis haemorrhagic
 Enuresis Eosinophilia Epistaxis Erectile dysfunction
 Eructation Erythema multiforme Erythema of eyelid
 Euphoric mood Extrasystoles Eye allergy Eye disorder
 Eye inflammation Eye irritation Eye pain Eye pruritus
 Eyelid oedema Eyelids pruritus Face oedema Faecal
 incontinence Fatigue Feeling abnormal Flank pain Flat affect
 Flatulence Fluid retention Flushing Furuncle Gait
 disturbance Gastric pH decreased Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival bleeding Gingival hyperplasia
 Gingivitis Glaucoma Glossitis Gout Gynaecomastia
 Haematemesis Haematuria Haemoglobin Haemolytic anaemia
 Haemoptysis Haemorrhage Haemorrhoids Hair disorder
 Hallucination Headache Hearing impaired Henoch-Schonlein
 purpura Hepatic cirrhosis Hepatic enzyme increased Hepatic
 failure Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatitis fulminant Hepatobiliary disease Hepatomegaly
 Hepatorenal syndrome Hereditary disorder Hernia
 Herpes simplex Herpes virus infection Hiccups Hirsutism
 Hyperaemia Hyperaesthesia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkinesia Hyperlipidaemia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension Hypertonia
 Hypertrichosis Hypertrophy Hyperventilation Hypoaesthesia
 Hypoglycaemia Hypokalaemia Hypokinesia Hypomagnesaemia
 Hyponatraemia Hypotension Hypotonia Hypoventilation

Hypoxia Ileus Ill-defined disorder Immune system disorder
 Immunodeficiency Incontinence Infarction Infection
 Infestation Influenza Insomnia Intestinal perforation
 Intracranial pressure increased Intraocular pressure
 increased Iritis Irritability Ischaemia Jaundice
 Jaundice cholestatic Keratitis Lacrimal disorderLacrimation
 increased Laryngeal oedema Laryngitis Laryngospasm
 Leukocytosis Leukopenia Libido decreased Lip swelling
 Loss of consciousness Lung infiltrationLymphadenopathy
 Malaise Mastitis Melaena Memory impairmentMeningitis
 aseptic MenorrhagiaMental disabilityMental disorder Metabolic
 acidosis Microcytic anaemia Micturition disorder Micturition
 urgency Migraine Moaning Mood swingsMouth ulceration
 Movement disorderMuscle relaxant therapy Muscle rigidity
 Muscle spasms Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myocardial ischaemia Myoclonus Nail disorder Nausea
 Neck pain Necrosis Neonatal disorderNeoplasm malignant
 Nephritis Nephropathy Nephrotic syndrome Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Night
 blindness Nightmare Nocturia Nodal arrhythmia Nodule
 Nuchal rigidity Nystagmus ObstructionObstructive airways
 disorder Ocular hyperaemiaOculogyric crisisOedema peripheral
 Oesophageal disorder Oesophagitis Oliguria
 Opisthotonus Osteoarthritis Pain Pain in extremity
 Palpitations Pancreatitis Pancytopenia Papule
 Paraesthesia Paraesthesia oralParalysis Paranoia
 Paresis Parosmia Peptic ulcer Peripheral ischaemia
 Petechiae Pharyngitis Phlebitis Photophobia Photosensitivity
 reaction Pneumonia Pneumothorax Pollakiuria Polyuria
 Presyncope Proctitis Prostatic specific antigen increased
 Protein urine present ProteinuriaPruritus Psychotic
 disorder Pulmonary embolism Pulmonary function test decreased
 Pulmonary oedema Punctate keratitis Purpura Rash Rash
 maculo-papular Rash pustular Rectal haemorrhage Renal
 failure acute Renal impairment Renal papillary necrosis
 Respiratory acidosis Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory failure
 Rhabdomyolysis Rhinitis Right ventricular failure
 Salivary hypersecretion Scotoma Seborrhoeic dermatitis
 Sepsis Shock Sinus arrest Sinus bradycardiaSinusitis
 Skin cancerSkin discolouration Skin exfoliation Skin
 hypertrophySkin irritation Skin mass Skin odour abnormal Skin
 ulcer Sleep disorder Sneezing Social avoidant behaviour
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Stupor Supraventricular extrasystoles
 Supraventricular tachycardiaSwelling Syncope Systemic
 lupus erythematosus TachycardiaTachypnoea Tension Testicular
 disorder Thinking abnormalThirst Thrombocytopenia
 Thrombophlebitis Thrombosis Tic Tinnitus Tongue coated
 Tooth abscess Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Ulcerative keratitis Upper
 airway obstruction Urethral disorderUrinary incontinence
 Urinary retentionUrinary tract disorder Urine abnormalityUrine

output increased Urticaria VIIth nerve paralysis Vaginal
haemorrhage Vascular insufficiency Vascular purpura Vasculitis
Vasodilation procedure Ventricular arrhythmia Ventricular
extrasystoles Ventricular fibrillation Ventricular
tachycardia Vertigo Viral infection Vision blurred Visual
acuity reduced Visual impairment Vitreous floaters Vomiting
Weight decreased Weight increased Wheezing

5-hydroxytryptamine 1F receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side
effects) For the acute treatment of migraine with or without aura
in adults.

zolmitriptan: approved small molecule (241 associated side
effects) For the acute treatment of adult migraine with or without
auras.

sumatriptan: approved small molecule (317 associated side
effects) For the treatment of migraine attacks with or without
aura.

naratriptan: approved small molecule (185 associated side
effects) For the acute treatment of migraine attacks with or
without aura in adults.

rizatriptan: approved small molecule (170 associated side
effects) For treatment of acute migraine attacks with or without
aura.

523 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal dreams Abortion spontaneous
Abscess Accommodation disorder Acne Acute coronary
syndrome Adenoma benign Adverse reaction Affect lability
Aggression Agitation Akathisia Akinesia Alopecia
Altered state of consciousness Amblyopia Amnesia
Anaemia Anaphylactic shock Anaphylactoid reaction
Aneurysm Angina pectoris Angioedema Angiopathy Anorectal
disorder Anxiety Aortic aneurysm Apathy Aphasia
Apnoea Arrhythmia Arterial occlusive disease
Arteriosclerosis Arteriospasm coronary Arteritis Arthralgia
Arthritis Arthropathy Asthenia Asthma Ataxia
Atrial fibrillation Atrial flutter Atrioventricular block
Atrophy Back pain Bladder pain Blindness Blood
alkaline phosphatase increased Blood bilirubin abnormal Blood
creatine phosphokinase increased Blood disorder Blood pressure
increased Body temperature decreased Body temperature increased
Bone neoplasm Bone pain Bradycardia Bradykinesia
Breast cancer Breast discharge Breast neoplasm Breast pain
Breast swelling Breath odour Bronchitis Bronchospasm
Burning sensation Candidiasis Cardiac disorder Cardiac
fibrillation Cardiac flutter Cardiac murmur Cardiomyopathy
Catatonia Cellulitis Cerebral infarction Cerebral
ischaemia Cerebrovascular accident Cerebrovascular disorder
Chest discomfort Chest pain Chills Choking Choking
sensation Cholelithiasis Choreoathetosis Colitis ischaemic

Completed suicide Confusional state Conjunctivitis
 Constipation Conversion disorder Convulsion
 Coordination abnormal Cough Cyanosis Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Deformity
 Dehydration Dementia Dependence Depersonalisation Depressed
 level of consciousness Depression Dermatitis Dermatitis atopic
 Dermatitis exfoliative Diarrhoea Diarrhoea haemorrhagic
 Diplegia Diplopia Discomfort Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Dizziness Drug abuse Dry eye Dry mouth Dry
 skin Dry throat Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dysthymic disorder Dystonia Dysuria Ear disorder
 Ear infection Ear pain Ecchymosis Eczema
 Electrocardiogram PR prolongation Electrocardiogram abnormal
 Electrocardiogram change Embolism Endometriosis
 Eosinophilia Epistaxis Erectile dysfunction Eructation
 Erythema Euphoric mood Extrapyrmidal disorder
 Extrasystoles Eye haemorrhage Eye irritation Eye oedema
 Eye pain Eye pruritus Eye swelling Eyelid ptosis
 Face oedema Facial pain Fallopien tube disorder Fatigue
 Feeling abnormal Feeling cold Feeling hot Feeling of body
 temperature change Flat affect Flatulence Fluid retention
 Flushing Foetor hepaticus Folliculitis Gait disturbance
 Galactorrhoea Gastric disorder Gastric ulcer Gastritis
 Gastroenteritis Gastrointestinal carcinoma Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrooesophageal reflux disease Genital discharge
 Genitourinary tract neoplasm Gingivitis Glossitis Glossodynia
 Glycosuria Goitre Haematemesi Haematoma Haematuria
 Haemoglobin Haemolytic anaemia Haemorrhage Haemorrhage
 urinary tract Haemorrhoids Hair disorder Hallucination
 Hangover Hearing impaired Hemiplegia Hepatic function
 abnormal Hepatic neoplasm Hepatocellular injury Hernia
 Herpes virus infection Hiccups Hostility Hot flush
 Hunger Hyperacusis Hyperaesthesia Hyperbilirubinaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkinesia Hyperlipidaemia Hyperpathia Hypersensitivity
 Hypersomnia Hypertension Hypertensive crisis
 Hyperthyroidism Hypertonia Hypertrophy Hyperventilation
 Hypervigilance Hypoaesthesia Hypoaesthesia oral
 Hypoglycaemia Hypokinesia Hyporeflexia Hypotension
 Hypothermia Hypothyroidism Hypotonia Ill-defined disorder
 Immune system disorder Incontinence Increased appetite
 Increased bronchial secretion Induration Infarction
 Infection Inflammation Influenza Injection site
 reaction Insomnia Intervertebral disc disorder Intestinal
 obstruction Intracranial pressure increased Irritability
 Ischaemia Jaundice Keratitis Ketonuria Laboratory test
 abnormal Labyrinthitis Lacrimal disorder Lacrimation increased
 Laryngeal oedema Laryngitis Leiomyoma Leukocytoclastic
 vasculitis Leukopenia Libido decreased Lipoatrophy Lipohypertrophy
 Liver disorder Liver function test abnormal Loss of
 consciousness Lower respiratory tract infection Lymphadenopathy
 Major depression Malaise Mania Mass Mastitis Melaena

Memory impairment Meniere's disease Menopausal symptoms
 Menorrhagia Menstrual disorder Mental disability Mental
 disorder Metrorrhagia Micturition urgency Monocytosis
 Monoplegia Mood swings Motor dysfunction Movement disorder
 Muscle atrophy Muscle contractions involuntary Muscle
 fatigue Muscle relaxant therapy Muscle rigidity Muscle
 spasms Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal deformity Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Mydriasis Myocardial infarction Myocardial ischaemia
 Myopathy Nasal dryness Nasal inflammation
 Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
 Neoplasm malignant Nephrolithiasis Nerve root lesion
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neuropathy peripheral Neurosis Nodule Nystagmus
 Obstruction Oculogyric crisis Oedema Oedema peripheral
 Oesophagitis Optic ischaemic neuropathy Optic nerve
 disorder Oral pruritus Oropharyngeal discomfort
 Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteoporosis Otitis externa Otitis
 media Pain Pain in jaw Pain of skin Pallor Palpitations
 Pancreatitis Pancytopenia Panic disorder Panic
 reaction Paraesthesia Paraesthesia oral Paralysis Parathyroid
 disorder Parathyroid tumour Parosmia Peptic ulcer
 Peripheral coldness Peripheral vascular disorder Personality
 change Pharyngeal disorder Pharyngeal haemorrhage Pharyngeal
 oedema Pharyngitis Phlebitis Phobia Phonophobia Photophobia
 Photopsia Photosensitivity reaction Pituitary tumour
 Pleurisy Pneumonia Poisoning Pollakiuria Polydipsia
 Polyuria Presyncope Prinzmetal angina Pruritus Psoriasis
 Psychomotor retardation Psychotic disorder Pulmonary
 embolism Pulmonary oedema Pulse abnormal Purpura
 Pyelonephritis Radiculopathy Rash Rash maculo-papular
 Raynaud's phenomenon Rectal haemorrhage Regurgitation
 Renal failure acute Renal pain Respiration abnormal
 Respiratory disorder Respiratory tract infection Retching
 Retinal artery occlusion Retinal vascular occlusion
 Retinal vein thrombosis Rheumatoid arthritis Rhinitis
 Rhinitis allergic Rhinorrhoea Salivary gland enlargement
 Salivary hypersecretion Scleral disorder Scotoma
 Seborrhoeic dermatitis Sedation Sensation of heaviness
 Sensation of pressure Sensory loss Shock Sialoadenitis
 Sinus arrhythmia Sinus disorder Sinusitis Skin
 discolouration Skin disorder Skin exfoliation Skin hypertrophy
 Skin tightness Skin wrinkling Sleep disorder Sneezing
 Social avoidant behaviour Somnolence Speech disorder
 Splenic infarction Sputum increased Stomatitis Stupor
 Subarachnoid haemorrhage Substance abuse Supraventricular
 extrasystoles Swelling Swelling face Swollen tongue
 Syncope Tachyarrhythmia Tachycardia Tachypnoea Tardive
 dyskinesia Temperature intolerance Temporal arteritis
 Tenderness Tenosynovitis Tension Tetany Thinking
 abnormal Thirst Throat tightness Thrombocytopenia
 Thrombophlebitis Thrombosis Thyroid adenoma Thyroiditis
 Tinnitus Tongue disorder Tongue oedema Tooth disorder

Toothache Toxic epidermal necrolysis Tracheitis Transient
 ischaemic attack Tremor Ulcer Unintended pregnancy Upper
 respiratory tract infection Urethral disorderUrethritis Urinary
 incontinence Urinary tract disorder Urinary tract infection
 Urine output increased Urogenital disorder Urticaria
 Uterine disorder Uterine leiomyomaUterovaginal prolapse VIIth
 nerve paralysis Vaginal infectionVaginal inflammation Vascular
 occlusion Vascular purpura Vasculitis Vasodilation procedure
 Vasospasm Venous thrombosisVentricular arrhythmia Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardiaVertigo Viral infection Vision blurred Visual
 acuity reduced Visual impairmentVomiting Weight decreased
 Weight increased Wheezing Yawning

Chloride channel protein 2 - Group: Channel

Treated with:

lubiprostone: approved small molecule (126 associated side effects) For the treatment of chronic idiopathic constipation in the adult population. Also used for the treatment of irritable bowel syndrome with constipation in women who are 18 years of age or older.

126 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
 Abdominal pain upper Abdominal rigidity Abdominal
 tenderness Adenoma benign Alanine aminotransferase increased
 Angiopathy Anxiety Aortic dissectionArthralgia Aspartate
 aminotransferase increased Assisted fertilisation Asthenia
 Asthma Back pain Body temperature increased Breast
 feeding Bronchitis Chest discomfort Chest pain Chills Cold
 sweat Connective tissue disorder Cough Decreased appetite
 Defaecation urgency Dermatitis Diarrhoea Discomfort
 Dizziness Drug interaction Dry mouth Dysgeusia Dyspepsia
 Dyspnoea Electrolyte imbalance Eructation Erythema
 Faecal incontinence Faeces hardFatigue Feeling abnormal
 Fibromyalgia Flatulence Flushing Frequent bowel
 movements Gastric disorder Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal pain
 Gastrointestinal sounds abnormal Gastrooesophageal reflux
 disease Haemoglobin Haemorrhage Headache Hepatic adenoma Hot
 flush Hyperhidrosis Hypertension Hypoaesthesia Ill-defined
 disorder Incontinence Infection Infestation Influenza
 Insomnia Intestinal functional disorder Joint swelling
 Lethargy Liver disorder Loss of consciousness Lymphoma
 Malaise Mediastinal disorder Menopausal symptoms
 Mental disorder Muscle rigidity Muscle spasms
 Musculoskeletal discomfort Myalgia Nasopharyngitis
 Nausea Neoplasm malignant Nervous system disorder
 Nervousness Oedema Oedema peripheralOropharyngeal pain
 Pain Pain in extremityPainful respiration Pallor
 Palpitations Paraesthesia Pollakiuria Pregnancy
 Presyncope Rash Rebound effect Rectal haemorrhage Renal
 impairment Respiratory tract infection Retching Shock Sinusitis

Skin irritation Swelling Syncope Tachycardia Tenderness
Tension Teratogenicity Testicular disorder Throat
tightness Tremor Upper respiratory tract infection Urinary
tract infection Urticaria Vertigo Viral diarrhoea Viral
infection Vomiting Weight increased

Activin receptor type-1 - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
(0 associated side effects) For nutritional supplementation,
also for treating dietary shortage or imbalance
6-[4-(2-piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1,5-
a]pyrimidine: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

Vesicle-associated membrane protein 1 - Group: Other

Treated with:

botulinum toxin type b: approved biotech (0 associated
side effects) For the treatment of patients with cervical
dystonia to reduce the severity of abnormal head position and neck
pain associated with cervical dystonia.

known side effects mediated through drugs targeting this protein:

Voltage-gated calcium channel beta 1 subunit splice variant CavB1d -
Group: Channel

Treated with:

amlodipine: approved small molecule (136 associated side
effects) For the treatment of hypertension and chronic stable
angina.

136 known side effects mediated through drugs targeting this
protein:

Abdominal pain Abnormal dreams Accommodation disorder Acute
coronary syndrome Agitation Alopecia Amnesia Angioedema
Angiopathy Anxiety Apathy Arrhythmia Arthralgia
Arthropathy Asthenia Ataxia Atrial fibrillation Back
pain Blindness Bradycardia Cardiac failure congestive Cardiac
fibrillation Chest pain Chills Cholestasis Chronic
obstructive pulmonary disease Cold sweat Conjunctivitis
Constipation Cough Decreased appetite Depersonalisation
Dermatitis Diabetes mellitus Diarrhoea Diplopia Discomfort
Dizziness postural Dry mouth Dry skin Dysgeusia
Dyspepsia Dysphagia Dyspnoea Dysuria Epistaxis
Erythema Erythema multiforme Extrasystoles Eye pain
Fatigue Feeling abnormal Flat affect Flatulence Flushing
Gastritis Gastrointestinal pain Gingival hyperplasia
Gynaecomastia Headache Hepatitis Hot flush

Hyperglycaemia	Hyperhidrosis	Hyperplasia	Hypersensitivity
Hypertension	Hypertonia	Hypoaesthesia	Ill-defined
disorder	Increased appetite	Infarction	Insomnia
Ischaemia	Jaundice	Leukopenia	Loss of consciousness
Lung disorder	Malaise	Menopausal symptoms	Micturition disorder
Migraine	Muscle spasms	Muscle twitching	Muscular weakness
Musculoskeletal discomfort	Myalgia	Myocardial infarction	
Nausea	Nervousness	Neuropathy peripheral	Nocturia
Obstructive airways disorder	Oedema	Oedema peripheral	
Orthostatic hypotension	Osteoarthritis	Pain	
Palpitations	Pancreatitis	Paraesthesia	Parosmia
Peripheral ischaemia	Peripheral vascular disorder	Pollakiuria	
Polyuria	Pruritus	Purpura	Rash Rash erythematous Rash
maculo-papular	Rhinitis	Sexual dysfunction	Shock Skin
discolouration	Somnolence	Sticky skin	Syncope Tachycardia
Tension	Thirst	Thrombocytopenia	Tinnitus Tremor
Urine output increased	Urticaria	Vascular purpura	Vasculitis
Ventricular tachycardia	Vertigo	Visual acuity reduced	
Visual impairment	Vomiting	Weight decreased	Weight increased
Xerophthalmia			

Monocarboxylate transporter 8 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

l-tyrosine: approved, nutraceutical small molecule (0 associated side effects) Tyrosine is claimed to act as an effective antidepressant, however results are mixed. Tyrosine has also been claimed to reduce stress and combat narcolepsy and chronic fatigue, however these claims have been refuted by some studies.

l-leucine: approved, nutraceutical small molecule (0 associated side effects) Indicated to assist in the prevention of the breakdown of muscle proteins that sometimes occur after trauma or severe stress.

l-tryptophan: approved, nutraceutical small molecule (11 associated side effects) Tryptophan may be useful in increasing serotonin production, promoting healthy sleep, managing depression by enhancing mental and emotional well-being, managing pain tolerance, and managing weight.

levothyroxine: approved small molecule (0 associated side effects) For use alone or in combination with antithyroid agents to treat hypothyroidism, goiter, chronic lymphocytic thyroiditis, myxedema coma, and stupor.

liotrix: approved small molecule (0 associated side effects) May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

11 known side effects mediated through drugs targeting this protein:
Alopecia Decreased appetite Disinhibition Dizziness Dry
mouth Headache Nausea Psoriasis Rash Somnolence Vomiting

Monocarboxylate transporter 6 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0
associated side effects) For nutritional supplementation, also
for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Chromaffin granule amine transporter - Group: Transporter

Treated with:

ephedra: approved, withdrawn, nutraceutical small molecule (0
associated side effects) Ephedra is widely used by athletes,
despite a lack of evidence that it enhances athletic performance.
Ephedra has also been used for weight loss.
mdma: illicit, experimental small molecule (0 associated side
effects) MDMA is a recreational drug. It has no current medical
uses and is a Schedule I controlled substance in the USA at present.
methamphetamine: illicit, approved small molecule (30 associated
side effects) For the treatment of Attention Deficit Disorder
with Hyperactivity (ADHD) and exogenous obesity.

30 known side effects mediated through drugs targeting this protein:

Agitation Asthenia Cardiac arrest Cardio-respiratory arrest
Constipation Dependence Depression Diarrhoea Dizziness
Drug abuse Drug dependence Dry mouth Dysphoria Erectile
dysfunction Euphoric mood Fatigue Headache Hypersensitivity
Insomnia Irritability Palpitations Personality
change Poisoning Psychotic disorder Schizophrenia Skin
disorder Tachycardia Tic Tremor Urticaria

Growth hormone-releasing hormone receptor - Group: Receptor

Treated with:

sermorelin: approved biotech (0 associated side effects) For
the treatment of dwarfism, prevention of HIV-induced weight loss

known side effects mediated through drugs targeting this protein:

Prostaglandin E2 receptor, EP1 subtype - Group: Receptor

Treated with:

bupivacaine: approved small molecule (137 associated side
effects) For the production of local or regional anesthesia or
analgesia for surgery, for oral surgery procedures, for diagnostic
and therapeutic procedures, and for obstetrical procedures.

carboprost tromethamine: approved small molecule (0 associated side effects) For aborting pregnancy between the 13th and 20th weeks of gestation as calculated from the first day of the last normal menstrual period and in the following conditions related to second trimester abortion: 1. Failure of expulsion of the fetus during the course of treatment by another method; 2. Premature rupture of membranes in intrauterine methods with loss of drug and insufficient or absent uterine activity; 3. Requirement of a repeat intrauterine instillation of drug for expulsion of the fetus; 4. Inadvertent or spontaneous rupture of membranes in the presence of a viable fetus and absence of adequate activity for expulsion. Also for the treatment of postpartum hemorrhage due to uterine atony which has not responded to conventional methods of management.

alprostadil: approved small molecule (0 associated side effects) For palliative, not definitive, therapy to temporarily maintain the patency of the ductus arteriosus until corrective or palliative surgery can be performed in neonates who have congenital heart defects and who depend upon the patent ductus for survival. Also for the treatment of erectile dysfunction due to neurogenic, vasculogenic, psychogenic, or mixed etiology.

bimatoprost: approved small molecule (90 associated side effects) For the reduction of elevated intraocular pressure in patients with open angle glaucoma or ocular hypertension who are intolerant of other intraocular pressure lowering medications or insufficiently responsive (failed to achieve target IOP determined after multiple measurements over time) to another intraocular pressure lowering medication.

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

iloprost: approved small molecule (46 associated side effects)
Used for the treatment of pulmonary arterial hypertension.

228 known side effects mediated through drugs targeting this protein:

Abscess	Acidosis	Agitation	Alanine aminotransferase increased
Anaemia	Anal haemorrhage	Anaphylactic shock	Angioedema
Anorectal disorder	Anterior spinal artery syndrome		
Anxiety	Apnoea	Arachnoiditis	Arrhythmia
Aspartate aminotransferase increased	Asthenia	Asthenopia	
Atrioventricular block	Back pain	Bladder pain	Blepharitis
Blepharospasm	Blister	Blood alkaline phosphatase increased	
Blood creatinine increased	Blood pressure increased		
Body temperature increased	Bradycardia	Bronchitis	
Bronchospasm	Burning sensation	Carbon dioxide increased	

Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiac fibrillation Cardiac output
 decreased Cataract Cauda equina syndrome Cerebrovascular
 accident Chalazion Chest pain Chills Cold sweat Confusional
 state Conjunctival disorder Conjunctival haemorrhage
 Conjunctival hyperaemia Conjunctival oedema
 Conjunctivitis allergic Constipation Convulsion
 Corneal erosion Corneal oedema Cough Cranial nerve
 paralysis Cystitis Cystitis noninfective Death Decreased
 appetite Dermatitis Dermatitis bullous Diarrhoea Diplegia
 Diplopia Discomfort Disease progression Dizziness
 postural Drug hypersensitivity Dry eye Dry mouth Dysarthria
 Dyschezia Dysgeusia Dyspepsia Dyspnoea Epistaxis
 Erythema Erythema of eyelid Extradural abscess
 Extrasystoles Extravasation Eye discharge Eye
 irritation Eye oedema Eye pain Eye pruritus Eye swelling
 Eyelid irritation Eyelid oedema Eyelid pain Eyelids pruritus
 Feeling abnormal Feeling hot Flushing Foetor hepaticus
 Fungal infection Gamma-glutamyltransferase increased
 Gastrointestinal disorder Gingival bleeding Glossitis
 Glossodynia Growth of eyelashes Haemoglobin Haemoptysis
 Haemorrhage Haemorrhagic anaemia Hair growth abnormal
 Headache Hepatic function abnormal Hepatocellular injury
 Hernia Hirsutism Hordeolum Hyperaemia Hypercapnia
 Hypercholesterolaemia Hyperhidrosis Hypersensitivity
 Hypertension Hypoaesthesia oral Hypotension Hypotonia
 Hypoxia Incontinence Infection Infestation
 Inflammation Influenza Insomnia Iritis Keratitis
 Laboratory test abnormal Lacrimation increased Laryngeal
 oedema Laryngospasm Lethargy Liver disorder Liver
 function test abnormal Loss of consciousness Maculopathy Madarosis
 Meningism Meningitis Meningitis aseptic Miosis
 Monoplegia Muscle rigidity Muscle spasms Muscular weakness
 Musculoskeletal stiffness Nasopharyngitis Nausea Neck
 pain Nervous system disorder Nervousness Neuropathy peripheral
 Nuchal rigidity Oedema Oedema peripheral Osteoarthritis
 Oxygen saturation decreased Pain Pallor Palpitations
 Paraesthesia Paralysis Paraplegia Paresis Pharyngitis
 Photophobia Pigmentation disorder Pneumonia Procedural pain
 Prurigo Pruritus Pruritus generalised Pulmonary
 function test decreased Punctate keratitis Rash Rectal
 discharge Renal failure Respiratory arrest Respiratory
 depression Respiratory failure Respiratory paralysis Respiratory
 tract infection Retinitis pigmentosa Rhinitis Scotoma
 Sensation of foreign body Sensory loss Shock Sinus
 bradycardia Sinusitis Skin discolouration Skin hyperpigmentation
 Sneezing Somnolence Supraventricular extrasystoles
 Supraventricular tachycardia Swelling face Syncope
 Tachycardia Tension Teratogenicity Tinnitus Tremor
 Trichorrhexis Trismus Upper respiratory tract infection
 Urinary incontinence Urinary retention Urine abnormality Urine
 analysis abnormal Urticaria Vasoconstriction Vasodilation procedure
 Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vision blurred Visual impairment
 Vitreous floaters Vomiting Wheezing

Gamma-aminobutyric acid receptor subunit pi - Group: Channel
Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam: illicit, approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Acidosis Acne Affect
labiality Ageusia Aggression Agitation Agranulocytosis
Akathisia Akinesia Alcohol poisoning Alopecia Altered
state of consciousness Amblyopia Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anger Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anterograde amnesia Anxiety Aortic dissection Apathy
Aphonia Apnoea Appetite disorder Arrhythmia Arterial
spasm Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrioventricular block Back pain Balance disorder Bladder
dysfunction Bladder pain Blindness Blood alkaline phosphatase
increased Blood bilirubin increased Blood disorder Blood
glucose decreased Blood thromboplastin decreased Body temperature
decreased Body temperature increased Borderline personality
disorder Bradycardia Bradyphrenia Brain oedema Breast
disorder Breast pain Breast swelling Bronchitis Bronchospasm
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chromaturia Clonic convulsion Clonus Clumsiness
Coagulopathy Cognitive disorder Coma Completed suicide
Confusional state Connective tissue disorder Constipation
Conversion disorder Convulsion Coordination abnormal Cough
Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Deafness Death Decreased appetite Dehydration
Delirium Delirium tremens Delusion Dependence
Depersonalisation Depressed level of consciousness Depressed

mood Depression Depressive symptom Derealisation Dermatitis
Dermatitis contact Dermatitis exfoliative Diarrhoea
Diplopia Discomfort Disinhibition Disorientation
Disturbance in attention Disturbance in sexual arousal
Dizziness Drooling Drug abuse Drug dependence Drug
eruption Drug intolerance Drug withdrawal convulsions Dry mouth
Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
infection Ear pain Ecchymosis Effusion Ejaculation delayed
Ejaculation failure Emotional disorder Emotional
distress Emotional poverty Encephalopathy Encopresis Endometrial
sarcoma Energy increased Enterocolitis Enuresis
Eosinophilia Epilepsy Epistaxis Erectile dysfunction
Erythema Erythema multiforme Euphoric mood
Extrapyramidal disorder Extrasystoles Eye disorder
Eye irritation Eye movement disorder Eye pain Eye
swelling Face oedema Faecal incontinence Fatigue Feeling
abnormal Feeling cold Feeling drunk Feeling hot Feeling
jittery Feeling of body temperature change Flat affect Flatulence
Floppy infant Flushing Fungal infection Gait disturbance
Galactorrhoea Gangrene Gastric disorder Gastritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal pain Gingival pain Glossitis Glossodynia
Gout Grand mal convulsion Gynaecomastia Haematoma
Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
Haemorrhage urinary tract Haemorrhoids Hallucination
Hangover Headache Hearing impaired Heart rate irregular
Hemiparesis Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatitis Hepatocellular injury
Hepatomegaly Herpes simplex Herpes virus infection
Hiccups Hirsutism Homicidal ideation Hordeolum
Hostility Hunger Hypercapnia Hyperhidrosis
Hyperkinesia Hyperprolactinaemia Hypersensitivity
Hypersomnia Hypertension Hypertonia Hyperventilation
Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
Hyponatraemia Hypopnoea Hyporeflexia Hypotension
Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
disorder Illusion Inappropriate antidiuretic hormone secretion
Incontinence Increased appetite Induration Infection
Infectious mononucleosis Infestation Inflammation
Influenza Injection site pain Injection site reaction
Insomnia Intraocular pressure increased Irritability
Jaundice Joint swelling Laryngitis Laryngospasm
Lethargy Leukocytosis Leukopenia Libido decreased
Libido increased Liver function test abnormal Liver injury
Local reaction Logorrhoea Loss of consciousness Loss of
libido Lung disorder Lymphadenopathy Major depression
Malaise Mania Mean arterial pressure Mediastinal disorder
Melaena Memory impairment Menstrual disorder
Menstruation irregular Mental disability Mental disorder
Mental retardation Micturition urgency Migraine
Miosis Mood swings Motion sickness Movement disorder
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle spasticity Muscle twitching Muscular weakness

Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Tyrosine-protein phosphatase non-receptor type 11 - Group: Enzyme

Treated with:
dodecane-trimethylamine: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Sodium channel protein type 10 subunit alpha - Group: Channel

Treated with:

lidocaine: approved small molecule (120 associated side effects) For production of local or regional anesthesia by infiltration techniques such as percutaneous injection and intravenous regional anesthesia by peripheral nerve block techniques such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks.

ropivacaine: approved small molecule (199 associated side effects) Used in obstetric anesthesia and regional anesthesia for surgery.

bupivacaine: approved small molecule (137 associated side effects) For the production of local or regional anesthesia or analgesia for surgery, for oral surgery procedures, for diagnostic and therapeutic procedures, and for obstetrical procedures.

hexylcaine: approved small molecule (0 associated side effects) Used as a local anesthetic for surface application, infiltration or nerve block

dibucaine: approved small molecule (0 associated side effects) For production of local or regional anesthesia by infiltration techniques such as percutaneous injection and intravenous regional anesthesia by peripheral nerve block techniques such as brachial plexus and intercostal and by central neural techniques such as lumbar and caudal epidural blocks.

dyclonine: approved small molecule (0 associated side effects) Used to provide topical anesthesia of accessible mucous membranes prior to examination, endoscopy or instrumentation, or other procedures involving the esophagus, larynx, mouth, pharynx or throat, respiratory tract or trachea, urinary tract, or vagina. Also used to suppress the gag reflex and/or other laryngeal and esophageal reflexes to facilitate dental examination or procedures (including oral surgery), endoscopy, or intubation. Also used for relief of canker sores, cold sores or fever blister.

procaine: approved small molecule (43 associated side effects) Used as a local anesthetic primarily in oral surgery

proparacaine: approved small molecule (11 associated side effects) Used as a local (ophthalmic) anesthetic.

oxybuprocaine: approved small molecule (0 associated side effects) Used to temporarily numb the front surface of the eye so that the eye pressure can be measured or a foreign body removed.

cocaine: illicit, approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

mepivacaine: approved small molecule (59 associated side effects) For production of local or regional analgesia and

anesthesia by local infiltration, peripheral nerve block techniques, and central neural techniques including epidural and caudal blocks.

levobupivacaine: approved small molecule (0 associated side effects) For the production of local or regional anesthesia for surgery and obstetrics, and for post-operative pain management

benzocaine: approved small molecule (10 associated side effects)

For general use as a lubricant and topical anesthetic on esophagus, larynx, mouth, nasal cavity, rectum, respiratory tract or trachea, urinary tract, vagina. It is also used to suppress gag reflex.

chloroprocaine: approved small molecule (34 associated side effects) For the production of local anesthesia by infiltration and peripheral nerve block. They are not to be used for lumbar or caudal epidural anesthesia.

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

304 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal labour Abscess Acidosis Acute coronary
syndrome Affect lability Agitation Alanine aminotransferase
increased Albuminuria Amnesia Anaemia Anal haemorrhage
Anaphylactic shock Anaphylactoid reaction Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anterior spinal artery syndrome Anxiety Aortic dissection
Apgar score low Aplastic anaemia Apnoea Application site
reaction Arachnoiditis Arrhythmia Arthralgia Aspartate
aminotransferase increased Asthenia Atelectasis Atrial
fibrillation Atrial flutter Atrioventricular block Back pain
Blister Blood alkaline phosphatase increased Blood
creatine phosphokinase increased Blood creatinine increased Blood
pressure increased Blood urea decreased Body temperature
decreased Body temperature increased Bradycardia Bradycardia
foetal Brain hypoxia Breast disorder Bronchospasm
Burning sensation Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac fibrillation Cardiac flutter
Cardiac output decreased Cauda equina syndrome
Cerebrovascular accident Chest pain Chills Cold sweat
Coma Confusional state Conjunctival hyperaemia
Constipation Convulsion Cough Cranial nerve paralysis
Cyanosis Death Decreased appetite Deep vein thrombosis
Depressed level of consciousness Dermatitis Dermatitis
bullous Dermatitis contact Diarrhoea Diplegia Diplopia
Discomfort Disease progression Disorientation Dizziness
Dizziness postural Drug hypersensitivity Dry mouth
Dysarthria Dyschezia Dysgeusia Dyskinesia Dyspepsia
Dyspnoea Dysuria Effusion Electrocardiogram ST segment
Embolism Endocrine disorder Erythema Euphoric mood
Extradural abscess Extrasystoles Extravasation Eye
disorder Eyelid ptosis Faecal incontinence Feeling abnormal
Feeling hot Fever neonatal Fluid overload Flushing
Foetal distress syndrome Foetor hepaticus Fungal infection
Gastrointestinal disorder Gastrointestinal pain Gingivitis
Haematoma Haematuria Haemoglobin Haemorrhage Haemorrhagic

anaemia Hallucination Headache Hepatic function abnormal
 Hepatocellular injury Hernia Hormone level abnormal
 Hyperacusis Hyperaemia Hyperaesthesia Hypercapnia
 Hyperglycaemia Hyperhidrosis Hypersensitivity
 Hypertension Hyperthermia Hypoaesthesia oral
 Hypocalcaemia Hypoglycaemia Hypoglycaemia neonatal
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypoproteinaemia
 Hypotension Hypothermia Hypotonia Hypoxia Ill-defined
 disorder Immune system disorder Incontinence Infarction
 Infection Infestation Inflammation Injection site
 inflammation Injection site pain Injection site reaction
 Insomnia Iritis Jaundice Jaundice neonatal Keratitis
 Lacrimation increased Laryngeal oedema Laryngospasm
 Lethargy Leukocytosis Leukoderma Liver disorder Local
 reaction Loss of consciousness Maculopathy Malaise Meningism
 Meningitis Meningitis aseptic Mental disorder Metabolic
 disorder Methaemoglobinaemia Micturition disorder Miosis
 Monoplegia Mood swings Muscle relaxant therapy Muscle
 rigidity Muscle spasms Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal stiffness
 Myalgia Mydriasis Myocardial depression Myocardial
 infarction Nausea Neck pain Necrosis Neonatal disorder
 Neonatal infection Nervous system disorder Nervousness
 Neuropathy peripheral Nightmare Nuchal rigidity Obstruction
 Oedema Oedema peripheral Oliguria Optic nerve disorder
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Oxygen saturation decreased Pain
 Pallor Palpitations Papule Paraesthesia oral
 Paralysis Paraplegia Paresis Petechiae Phlebitis
 Pleural disorder Pleural effusion Post procedural complication
 Postpartum haemorrhage Presyncope Procedural pain Proctalgia
 Prothrombin level decreased Prurigo Pruritus Pruritus
 generalised Pseudocholinesterase deficiency Pulmonary embolism
 Pulmonary function test decreased Purpura Pyuria Rales
 Rash Rectal discharge Rectal tenesmus Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory paralysis Retinitis
 pigmentosa Rhinitis Senile ankylosing vertebral hyperostosis
 Sensitisation Sensory loss Shock Sinus bradycardia Skin
 disorder Skin exfoliation Sneezing Somnolence Stomatitis
 Stupor Supraventricular extrasystoles Swelling face
 Syncope Tachycardia Tachycardia foetal Tachypnoea
 Tension Teratogenicity Therapeutic response unexpected
 Thrombocytopenia Thrombocytosis Thrombosis Tinnitus
 Tremor Ulcer Urethral disorder Urinary hesitation
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Urine abnormality Urine analysis
 abnormal Urticaria Uterine atony Uterine hypotonus
 Uterovaginal prolapse Vascular purpura Vasoconstriction
 Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Vision blurred Visual impairment Vomiting
 Vomiting neonatal

Monocarboxylate transporter 2 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

gamma hydroxybutyric acid: illicit, approved small molecule (0 associated side effects) Used as a general anesthetic, to treat conditions such as insomnia, clinical depression, narcolepsy, and alcoholism, and to improve athletic performance.

acetoacetic acid: experimental small molecule (0 associated side effects)

d-lactic acid: experimental small molecule (0 associated side effects)

alpha-ketoisovalerate: experimental small molecule (0 associated side effects)

quercetin: experimental small molecule (0 associated side effects)

6-deoxyglucose: experimental small molecule (0 associated side effects)

niflumic acid: approved small molecule (0 associated side effects) Used in the treatment of rheumatoid arthritis.

27 known side effects mediated through drugs targeting this protein:
Abdominal pain Alopecia Anaemia Anaphylactic shock
Aplastic anaemia Body temperature increased Decreased
appetite Dermatitis Dizziness Flushing Gingival pain
Haematuria Haemolytic anaemia Headache Hepatic necrosis
Hypersensitivity Leukopenia Nausea Necrosis Nephrotic
syndrome Pain Pollakiuria Pruritus Renal colic Tenderness
Urticaria Vomiting

Outer membrane usher protein papC - Group: Transporter

Treated with:

lauryl dimethylamine-n-oxide: experimental small molecule (0 associated side effects)

(hydroxyethyloxy)tri(ethyloxy)octane: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Neuropeptide Y receptor type 2 - Group: Receptor

Treated with:

cysteamine: approved small molecule (0 associated side effects)
Given intravenously or orally to treat radiation sickness. The bitartrate has been used for the oral treatment of nephropathic cystinosis and cystinurea.

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 1A receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side effects) For the acute treatment of migraine with or without aura in adults.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

methysergide: approved small molecule (69 associated side effects) For the treatment of vascular headache

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

zolmitriptan: approved small molecule (241 associated side effects) For the acute treatment of adult migraine with or without auras.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

bupirone: approved small molecule (147 associated side effects) For the management of anxiety disorders or the short-term relief of the symptoms of anxiety, and also as an augmentation of SSRI-treatment against depression.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable

bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

propranolol: approved small molecule (96 associated side effects) For the prophylaxis of migraine.

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

sumatriptan: approved small molecule (317 associated side effects) For the treatment of migraine attacks with or without aura.

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

alprenolol: approved small molecule (0 associated side effects)
For the treatment of hypertension, angina, and arrhythmia

ondansetron: approved small molecule (122 associated side effects) For the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy, postoperation, and radiation. Also used for the treatment of postoperative nausea and vomiting.

naratriptan: approved small molecule (185 associated side effects) For the acute treatment of migraine attacks with or without aura in adults.

pindolol: approved small molecule (95 associated side effects)
For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

ergoloid mesylate: approved small molecule (0 associated side effects) For use as an adjunct therapy for patients with dementia

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved, withdrawn small molecule (246 associated side effects) For the treatment of depression.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male

hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

yohimbine: approved small molecule (0 associated side effects)
Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

acepromazine: approved small molecule (0 associated side effects) Acepromazine was first used in humans in the 1950s as an antipsychotic agent. It is now rarely used in humans. Acepromazine is frequently used in animals as a sedative and antiemetic. Its principal value is in quietening and calming anxious animals.

alverine: approved small molecule (0 associated side effects)

Used to relieve cramps or spasms of the stomach and intestines. It is also useful in treating irritable bowel syndrome (IBS) and similar conditions. It can also be used to help relieve period pain. Alverine citrate is also under investigation to increase the cytotoxic effects of the proteasome inhibitor MG132 on breast cancer cells.

molindone: approved small molecule (46 associated side effects)

Molindone is used for the management of the manifestations of psychotic disorders.

pipotiazine: approved small molecule (94 associated side effects) For the maintenance treatment of chronic non-agitated schizophrenic patients.

thiopropazine: approved small molecule (0 associated side effects) For the treatment of all types of acute and chronic schizophrenia, including those which did not respond to the usual neuroleptics; manic syndromes.

rotigotine: approved small molecule (93 associated side effects)

For use/treatment in neurologic disorders and parkinson's disease as well as moderate-to-severe primary Restless Legs Syndrome.

vilazodone: approved small molecule (0 associated side effects)

Vilazodone is approved for treatment of acute episodes of major depression. Labeling of vilazodone describes an increased risk of suicidal thoughts in children, adolescents and young adults. The use of vilazodone in pediatric patients is not indicated. Its use with monoamine oxidase inhibitors (MAOI) is contraindicated due to increased risk of serotonin syndrome. Once the MAOI is discontinued, a 14-day washout period must pass before starting vilazodone.

bopindolol: approved small molecule (0 associated side effects)

For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

cinitapride: approved small molecule (0 associated side effects) For the treatment of gastrointestinal disorders associated with motility disturbances such as gastroesophageal reflux disease, non-ulcer dyspepsia and delayed gastric emptying.

1384 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abortion spontaneous Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Adjustment disorder Adverse reaction Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol abuse Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antibody test positive Antidiuretic hormone abnormality Antinuclear antibody positive Antisocial behaviour Antisocial personality disorder Anxiety Aortic aneurysm Aortic dissection Aortic embolus Apathy Aphasia Aphonia Aphthous stomatitis Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial insufficiency Arterial occlusive disease Arterial stenosis Arterial thrombosis Arteriosclerosis Arteriospasm coronary Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder disorder Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood electrolytes abnormal Blood glucose decreased Blood glucose increased Blood insulin increased Blood iron decreased Blood lactate dehydrogenase increased Blood phosphorus increased Blood potassium decreased Blood potassium increased Blood pressure

abnormal Blood pressure diastolic decreased Blood pressure
 fluctuation Blood pressure increased Blood pressure systolic
 decreased Blood prolactin increased Blood testosterone decreased
 Blood triglycerides increased Blood triglycerides normal
 Blood urea increased Blood uric acid increased Blood urine
 Blood urine present Blunted affect Body temperature
 decreased Body temperature increased Bone disorder Bone
 neoplasm Bone pain Bone sarcoma Bradycardia Bradykinesia
 Bradyphrenia Brain neoplasm Brain neoplasm benign Brain
 oedema Breast cancer Breast cyst Breast discharge Breast
 discomfort Breast disorder Breast disorder female Breast disorder
 male Breast engorgement Breast enlargement Breast feeding
 Breast neoplasm Breast pain Breast swelling Breast tenderness
 Breath odour Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac output
 decreased Cardiac septal defect Cardiac valve disease Cardio-
 respiratory arrest Cardiomegaly Cardiomyopathy
 Cardiopulmonary failure Cardiovascular disorder
 Carotid artery occlusion Carpal tunnel syndrome Cataplexy
 Cataract Catatonia Cells in urine Cellulitis Cerebral
 artery embolism Cerebral atrophy Cerebral haemorrhage Cerebral
 infarction Cerebral ischaemia Cerebrospinal fluid rhinorrhoea
 Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cervix carcinoma Chapped lips Cheilitis Chest
 discomfort Chest pain Chills Choking Choking sensation
 Cholecystitis Cholecystitis chronic Cholelithiasis
 Cholestasis Chorea Choreoathetosis Chromaturia Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Claustrophobia Coagulopathy Coccydynia Cognitive
 disorder Cogwheel rigidity Cold sweat Colitis ischaemic Colitis
 ulcerative Colon cancer Colorectal cancer Coma Completed suicide
 Compulsions Condition aggravated Confusional state Congenital
 anomaly Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival
 haemorrhage Conjunctivitis Connective tissue disorder
 Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal deposits Corneal lesion
 Coronary artery disease Coronary artery insufficiency
 Coronary artery occlusion Costochondritis Cough Crocodile
 tears syndrome Crying Cyanosis Cystitis Cystitis
 noninfective Cytolytic hepatitis Dandruff Deafness Death
 Decreased appetite Decreased interest Decubitus ulcer
 Deep vein thrombosis Deficiency anaemia Deformity
 Dehydration Delirium Delusion Dementia Dementia with
 Lewy bodies Dental caries Dependence Depersonalisation Depressed
 level of consciousness Depressed mood Depression Depressive
 symptom Derealisation Dermal cyst Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis

exfoliative Dermatitis infected Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic coma Diabetic hyperglycaemic coma
 Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diarrhoea haemorrhagic
 Diplegia Diplopia Discomfort Disease progression
 Disorientation Disseminated intravascular coagulation
 Dissociation Dissociative disorder Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Dizziness exertional Dizziness postural
 Drooling Drug abuse Drug dependence Drug eruption Drug
 hypersensitivity Drug ineffective Drug interaction Drug level
 increased Drug withdrawal syndrome Drug withdrawal syndrome
 neonatal Dry eye Dry mouth Dry skin Dry throat Duodenal
 ulcer Duodenal ulcer haemorrhage Duodenitis Dysaesthesia
 Dysarthria Dysentery Dysgeusia Dysgraphia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dyspnoea exertional Dysthymic
 disorder Dystonia Dysuria Ear disorder Ear infection
 Ear pain Ecchymosis Eclampsia Eczema Effusion
 Ejaculation delayed Ejaculation disorder Ejaculation
 failure Elastosis perforans Elderly Electrocardiogram PR
 interval Electrocardiogram PR prolongation Electrocardiogram QRS
 complex Electrocardiogram QT prolonged Electrocardiogram ST
 segment depression Electrocardiogram ST segment elevation
 Electrocardiogram T wave inversion Electrocardiogram abnormal
 Electrocardiogram change Electroencephalogram abnormal
 Electrolyte imbalance Elevated mood Embolism Emotional
 distress Emphysema Encephalopathy Endocrine disorder
 Endometrial cancer Endometrial neoplasm Endometriosis
 Energy increased Enteritis Enuresis Enzyme abnormality
 Eosinophil count increased Eosinophilia Epicondylitis
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythromelalgia
 Euphoric mood Exfoliative rash Exostosis Extrapyrmidal
 disorder Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 movement disorder Eye oedema Eye pain Eye pruritus Eye
 swelling Eyelid disorder Eyelid function disorder Eyelid
 oedema Eyelid ptosis Face oedema Facial pain Facial paresis
 Faecal incontinence Faecalith Faecaloma Faeces
 discoloured Faeces hard Fallopiian tube disorder Fasciitis
 Fasting Fatigue Fear Feeling abnormal Feeling cold
 Feeling hot Feeling jittery Feeling of body temperature change
 Female sexual dysfunction Fibroadenoma of breast Fibrocystic
 breast disease Fibrosis Flank pain Flat affect Flatulence Fluid
 overload Fluid retention Flushing Foetor hepaticus
 Folliculitis Formication Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gallbladder
 cancer Gallbladder disorder Gamma-glutamyltransferase
 increased Gangrene Gastric cancer Gastric disorder Gastric
 haemorrhage Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal carcinoma Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal neoplasm Gastrointestinal obstruction

Gastrointestinal pain Gastrointestinal stromal tumour
 Gastrooesophageal reflux disease General symptom Generalised
 oedema Genital candidiasis Genital discharge Genital disorder
 female Genitourinary tract neoplasm Gestational hypertension
 Gingival bleeding Gingival infection Gingival pain
 Gingival recession Gingivitis Glaucoma Glossitis
 Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Growth hormone deficiency Gynaecomastia Haemangioma
 Haematemesis Haematochezia Haematocrit decreased
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhage urinary tract Haemorrhagic disorder
 Haemorrhoids Haemothorax Hair disorder Hallucination
 Hallucination, auditory Hallucination, visual Hangover
 Head discomfort Head titubation Headache Hearing impaired
 Heart disease congenital Heart rate irregular Hemianopia
 Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic neoplasm Hepatic neoplasm malignant Hepatic
 steatosis Hepatitis Hepatitis A Hepatitis cholestatic
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hereditary disorder Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hydrocephalus Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperpathia Hyperphagia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersexuality Hypersomnia Hypertension
 Hypertensive crisis Hyperthermia Hyperthyroidism
 Hypertonia Hypertonic bladder Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperuricosuria Hyperventilation Hypervigilance
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloraemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovitaminosis Hypoxia
 Idiopathic thrombocytopenic purpura Ileus paralytic Ill-
 defined disorder Illusion Immobile Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Increased tendency to bruise Induration Infarction
 Infected cyst Infection Infestation Inflammation
 Influenza Influenza like illness Inguinal hernia Initial
 insomnia Injection site mass Injection site pain Injection

site reaction Inner ear disorder Insomnia Intention tremor
 Intentional self-injury Intermittent claudication
 Interstitial lung disease Intervertebral disc degeneration
 Intervertebral disc disorder Intervertebral disc protrusion
 Intervertebral discitis Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Intraocular pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic hepatitis Ischaemic stroke
 Jaundice Jaundice cholestatic Joint contracture Joint
 effusion Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratoconjunctivitis
 sicca Keratopathy Ketoacidosis Ketonuria Ketosis Laboratory
 test abnormal Labyrinthitis Lacrimal disorder Lacrimation
 decreased Lacrimation increased Lactose intolerance Laryngeal
 cancer Laryngeal disorder Laryngeal neoplasm Laryngeal
 oedema Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Leriche syndrome Lethargy Leukaemia
 Leukocytoclastic vasculitis Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichenoid keratosis Lip and/or oral cavity cancer Lip
 blister Lip dry Lip swelling Lipoatrophy Lipohypertrophy
 Lipoma Livedo reticularis Liver disorder Liver
 function test abnormal Liver injury Lividity Lobar pneumonia
 Local reaction Localised infection Localised oedema
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung adenocarcinoma stage I Lung cancer
 metastatic Lung disorder Lung infiltration Lung neoplasm
 malignant Lymphadenitis Lymphadenopathy Lymphatic disorder
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
 Lymphopenia Macular degeneration Macule Maculopathy Major
 depression Malaise Male sexual dysfunction Malignant
 melanoma Mania Masked facies Mass Mastitis Mediastinal
 disorder Megacolon Melaena Melanocytic naevus Memory
 impairment Meniere's disease Meningitis Menopausal symptoms
 Menopause Menorrhagia Menstrual disorder Menstruation
 delayed Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Mesenteric artery
 thrombosis Metabolic alkalosis Metastasis Metastatic neoplasm
 Methaemoglobinaemia Metrorrhagia Micturition disorder
 Micturition urgency Middle ear disorder Middle ear
 effusion Middle insomnia Migraine with aura Migraine without
 aura Miosis Mitral valve incompetence Mobility decreased
 Monarthrititis Monocytosis Monoplegia Mood swings Motion
 sickness Motor dysfunction Mouth ulceration Movement disorder
 Multiple myeloma Muscle atrophy Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle fatigue Muscle relaxant therapy Muscle rigidity
 Muscle spasms Muscle tightness Muscle twitching Muscular
 weakness Musculoskeletal chest pain Musculoskeletal deformity
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenic syndrome Mydriasis Myelitis Myocardial
 infarction Myocardial ischaemia Myocarditis Myoclonus Myopathy

Myopia Myositis Nail discolouration Nail disorder
 Nail infection Narcolepsy Nasal congestion Nasal disorder
 Nasal dryness Nasal inflammation Nasal oedema Nasal
 polyps Nasopharyngitis Nausea Neck pain Necrosis
 Necrosis ischaemic Neoplasm Neoplasm malignant
 Neoplasm prostate Neoplasm recurrence Neoplasm skin
 Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
 lesion Nervous system disorder Nervousness Neuralgia
 Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
 malignant syndrome Neurological symptom Neuroma Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night blindness Night sweats
 Nightmare Nocturia Nodal arrhythmia Nodule
 Normochromic normocytic anaemia Nuchal rigidity Nystagmus
 Obesity Obsessive thoughts Obstruction Obstructive
 airways disorder Ocular hyperaemia Oculogyric crisis
 Oculomucocutaneous syndrome Oedema Oedema peripheral
 Oesophageal achalasia Oesophageal carcinoma Oesophageal
 disorder Oesophageal spasm Oesophageal stenosis Oesophageal ulcer
 Oesophagitis Oligomenorrhoea Oliguria Onychomycosis
 Opisthotonus Optic ischaemic neuropathy Optic nerve
 disorder Oral candidiasis Oral neoplasm benign Oral pain Oral
 pruritus Orchitis noninfective Orgasm abnormal Oropharyngeal
 discomfort Oropharyngeal pain Oropharyngeal spasm Orthostatic
 hypotension Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media chronic
 Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pain of skin Pallor Palpitations
 Pancreatitis acute Pancytopenia Panic attack Panic
 disorder Panic disorder with agoraphobia Panic reaction
 Papilloma Paraesthesia Paraesthesia oral Paralysis
 Paranoia Parasomnia Parathyroid disorder Parathyroid
 tumour Paresis Parkinsonian gait Parkinsonism Paronychia
 Parosmia Parotid gland enlargement Pathological fracture
 Pathological gambling Pelvic inflammatory disease Pelvic pain
 Penis disorder Peptic ulcer Pericardial effusion
 Pericarditis constrictive Perineal pain Periodontitis
 Periorbital oedema Peripheral coldness Peripheral
 ischaemia Peripheral vascular disorder Peritoneal adhesions
 Personality change Personality disorder Petechiae Petit
 mal epilepsy Phaeochromocytoma Pharyngeal disorder Pharyngeal
 erythema Pharyngeal haemorrhage Pharyngitis Phlebitis Phlebitis
 superficial Phobia Phonological disorder Phonophobia Photophobia
 Photopsia Photosensitivity allergic reaction Photosensitivity
 reaction Pigmentation disorder Pituitary tumour Pituitary tumour
 benign Plasmacytoma Platelet count decreased Pleural
 disorder Pleural effusion Pleural fibrosis Pleurisy Pneumonia
 Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polycythaemia Polydipsia
 Polymyalgia rheumatica Polyp Polyuria Post procedural
 infection Postmenopausal haemorrhage Postural orthostatic
 tachycardia syndrome Posture abnormal Pre-eclampsia Precocious
 puberty Pregnancy test positive Premature ejaculation
 Premenstrual syndrome Presyncope Priapism Prinzmetal angina

Proctalgia Productive cough Prolactinoma Prostate cancer
 Prostatic adenoma Prostatic disorder Prostatitis Protein
 urine present Proteinuria Protrusion tongue Prurigo Pruritus
 Pruritus generalised Pruritus genital Pseudolymphoma
 Psoriasis Psychiatric symptom Psychomotor retardation
 Psychotic behaviour Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary hypertension Pulmonary oedema Pulse abnormal
 Purpura Purpura non-thrombocytopenic Pyelonephritis
 Pyoderma Pyuria Radiculopathy Rales Rash Rash
 erythematous Rash generalised Rash maculo-papular Rash
 papular Rash pustular Rash vesicular Raynaud's phenomenon
 Rectal cancer Rectal haemorrhage Rectal tenesmus Red
 blood cell count decreased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiration abnormal Respiratory alkalosis Respiratory
 arrest Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal artery occlusion Retinal detachment
 Retinal disorder Retinal vascular disorder Retinal vascular
 occlusion Retinal vein thrombosis Retinitis pigmentosa
 Retrograde ejaculation Retroperitoneal fibrosis
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Rotator cuff syndrome Sacroiliitis Saliva altered
 Salivary duct obstruction Salivary gland disorder
 Salivary gland enlargement Salivary hypersecretion
 Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
 disorder Schizophrenia Schizophreniform disorder Sciatica
 Scleral disorder Scotoma Seasonal allergy Seborrhoeic
 dermatitis Seborrhoeic keratosis Sedation Sensation of heaviness
 Sensation of pressure Sensory disturbance Sensory loss
 Sepsis Septic shock Severe acute respiratory syndrome
 Sexual dysfunction Shock Sialoadenitis Sicca syndrome
 Sick sinus syndrome Sinus arrhythmia Sinus bradycardia Sinus
 congestion Sinus disorder Sinus headache Sinus tachycardia
 Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma
 Skin tightness Skin ulcer Skin wrinkling Sleep apnoea
 syndrome Sleep attacks Sleep disorder Sleep paralysis Sleep
 talking Sluggishness Small intestinal obstruction Sneezing
 Snoring Social avoidant behaviour Somnambulism
 Somnolence Speech disorder Spinal osteoarthritis Spine
 malformation Splenic infarction Splenomegaly Spondylitis
 Sputum increased Squamous cell carcinoma Status
 epilepticus Stevens-Johnson syndrome Sticky skin Stomatitis
 Stress Stridor Stupor Subarachnoid haemorrhage
 Subcutaneous abscess Subcutaneous nodule Subdural
 haematoma Substance abuse Sudden death Suicidal ideation
 Suicide attempt Superior sagittal sinus thrombosis

Supraventricular extrasystoles Supraventricular tachycardia
 Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Synovitis Systemic
 lupus erythematosus Tachyarrhythmia Tachycardia Tachypnoea
 Talipes Tardive dyskinesia Telangiectasia Temperature
 intolerance Temporal arteritis Tenderness Tendinous contracture
 Tendonitis Tenosynovitis Tension Tension headache
 Terminal insomnia Testicular disorder Testicular pain
 Testicular swelling Tetany Therapeutic response
 decreased Therapeutic response increased Thinking abnormal
 Thirst Thought blocking Throat irritation Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid adenoma Thyroid cancer Thyroid neoplasm
 Thyroiditis Tic Tinnitus Tongue discolouration Tongue
 disorder Tongue dry Tongue oedema Tongue paralysis Tongue
 spasm Tongue ulceration Tonsillar hypertrophy Tonsillitis Tooth
 abscess Tooth disorder Tooth impacted Tooth infection
 Toothache Torsade de pointes Torticollis Toxic epidermal
 necrolysis Tracheitis Tracheobronchitis Transaminases increased
 Transient ischaemic attack Tremor Trismus Tuberculin
 test positive Tubulointerstitial nephritis Tunnel vision Type
 I hypersensitivity Ulcer Ulcer haemorrhage Umbilical hernia
 Unevaluable event Unintended pregnancy Unresponsive to
 stimuli Upper respiratory tract infection Upper-airway cough
 syndrome Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urinary tract obstruction
 Urine abnormality Urine analysis abnormal Urine output
 increased Urogenital disorder Urosepsis Urticaria Uterine
 disorder Uterine haemorrhage Uterine leiomyoma Uterine neoplasm
 Uterovaginal prolapse VIIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicose vein Vascular insufficiency Vascular occlusion
 Vascular purpura Vasculitis Vasoconstriction Vasodilation
 procedure Vasospasm Vein disorder Venous thrombosis Ventricular
 arrhythmia Ventricular extrasystoles Ventricular failure
 Ventricular fibrillation Ventricular hypertrophy
 Ventricular tachycardia Vertigo Vestibular ataxia
 Vestibular disorder Viral diarrhoea Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vitamin B12 deficiency Vitreous detachment Vitreous floaters
 Vocal cord paralysis Vomiting Vulvovaginal candidiasis
 Vulvovaginal dryness Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cells urine positive Withdrawal bleed
 Withdrawal syndrome Wound infection Xerophthalmia
 Xerosis Yawning

Neuronal acetylcholine receptor subunit alpha-7 - Group: Channel
 Treated with:

nicotine: approved small molecule (98 associated side effects)
For the relief of nicotine withdrawal symptoms and as an aid to smoking cessation.

butabarbital: illicit,approved small molecule (0 associated side effects)
For short-term treatment of insomnia and anxiety disorders

butalbital:illicit,approved small molecule (0 associated side effects)
Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.

talbutal: illicit,approved small molecule (0 associated side effects)
For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects)
For the short-term treatment of insomnia.

secobarbital: approved small molecule (38 associated side effects)
For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

metharbital: approved small molecule (0 associated side effects)
Metharbital is used for the treatment of epilepsy.

thiopental:approved small molecule (0 associated side effects)

For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

galantamine: approved small molecule (160 associated side effects)
For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

primidone: approved small molecule (16 associated side effects)
For the treatment of epilepsy

methylphenobarbital: approved small molecule (37 associated side effects)
For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

varenicline: approved small molecule (285 associated side effects)
For use as an aid in smoking cessation.

amobarbital: illicit,approved small molecule (0 associated side effects)

aprobarbital: illicit,approved small molecule (0 associated side effects)

butethal: illicit,approved small molecule (0 associated side effects)
For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects)
Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects)
For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit,experimental small molecule
(0 associated side effects)

392 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Abnormal faeces Acne Acute coronary syndrome Affect lability Aggression Agitation Agranulocytosis Amnesia Anaemia Anaemia megaloblastic Anger Angina pectoris Angioedema Angiopathy Anxiety Aortic dissectionApathy Aphasia Aphthous stomatitis Aplasia Apnoea Apraxia Arrhythmia Arrhythmia supraventricular Arterial disorder Arthralgia Arthritis Asthenia Asthma Ataxia Atrial fibrillation Atrioventricular block Back pain Balance disorder Bladder disorder Bladder pain Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood pressure increased Blood urea increased Body temperature increased Bone pain BradycardiaBradyphrenia Breast disorder Bronchitis Bronchospasm Bundle branch block Cardiac disorder Cardiac failure Cardiac fibrillation Cardiac flutter Cardiovascular disorder Cataract Cataract subcapsular Cerebrovascular accident Cerebrovascular disorder Change of bowel habit Chest discomfort Chest pain Chills Chronic obstructive pulmonary disease Circadian rhythm sleep disorder Coagulopathy Completed suicideConfusional stateConjunctivitis Connective tissue disorder Constipation Convulsion Coordination abnormal Cor pulmonale Coronary artery disease Costochondritis Cough Cystitis Cystitis noninfective Cytolytic hepatitis Deafness Death Decreased appetite DehydrationDelirium Delusion Dependence Depressed level of consciousness Depressed mood Depression Dermatitis Dermatitis bullous Dermatitis exfoliative Diabetes mellitusDiarrhoea Diplopia Discomfort Disorientation Dissociation Disturbance in attention Disturbance in sexual arousal Diverticulitis Dizziness Drug abuse Drug dependence Drug hypersensitivity Dry eye Dry mouth Dry skin Dysarthria Dysgeusia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria Dyspnoea Ear pain Eczema Electrocardiogram QT prolonged Electrocardiogram ST segment Electrocardiogram ST segment depression Electrocardiogram T wave amplitude decreased Electrocardiogram T wave inversionElectrocardiogram abnormal Embolism Emotional disorder Endocrine disorder Enterocolitis Epistaxis Erectile dysfunction Eructation Erythema Erythema multiforme Euphoric mood Extrasystoles Eye disorder Eye irritation Eye pain Fatigue Feeling abnormal Feeling cold Flat affect Flatulence Flushing FrustrationFungal infection Gallbladder disorder Gastric disorder Gastric ulcer Gastritis Gastroenteritis Gastrointestinal disorder Gastrointestinal haemorrhageGastrointestinal pain Gastroesophageal reflux disease Gingival pain Gingivitis Glycosuria Gravitational oedema Haematemesis Haematochezia Haematuria Haemoglobin HaemorrhageHallucination Hangover Headache Hepatic enzyme increased Hepatitis Hepatobiliary disease Hepatocellular

injury Hiccups Homicidal ideation Hormone level abnormal
Hostility Hot flush Hyperglycaemia Hyperhidrosis
Hyperkalaemia Hyperkinesia Hyperlipidaemia
Hypersensitivity Hypersomnia Hypertension Hypertonia
Hypoaesthesia Hypocalcaemia Hypogeusia Hypoglycaemia
Hypokalaemia Hypokinesia Hypotension Hypoventilation
Hypoxia Ill-defined disorder Immune system disorder
Incontinence Increased appetite Increased bronchial
secretion Infarction Infection Infestation Influenza Influenza
like illness Initial insomnia Injection site reaction
Insomnia Intestinal obstruction Irritability Ischaemia
Joint stiffness Lacrimation increased Lethargy
Leukocytosis Libido decreased Libido increased Liver
disorder Liver function test abnormal Liver injury Loss of
consciousness Lower gastrointestinal haemorrhage Lung disorder
Lymphadenopathy Malaise Mania Mediastinal disorder
Melaena Menopausal symptoms Menorrhagia Menstrual
disorder Mental disability Mental disorder Mental retardation
Middle insomnia Migraine Mood swings Mouth ulceration
Multiple sclerosis Muscle contractions involuntary
Muscle enzyme increased Muscle spasms Musculoskeletal
chest pain Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal pain Musculoskeletal stiffness Myalgia
Mydriasis Myocardial infarction Myocardial ischaemia
Myopia Myositis Nasal congestion Nasal discomfort Nasal
ulcer Nasopharyngitis Nausea Nephrolithiasis Nervous system
disorder Nervousness Neuropathy peripheral Night blindness Night
sweats Nightmare Nocturia Nystagmus Obstruction Obstructive
airways disorder Ocular vascular disorder Oedema Oedema
peripheral Oesophageal disorder Oesophageal perforation
Oesophagitis Oropharyngeal pain Orthostatic
hypotension Osteoarthritis Osteomalacia Osteoporosis Pain
Pain in extremity Pain in jaw Palpitations Pancreatitis
acute Panic reaction Paraesthesia Paralysis Paranoia
Parosmia Peripheral ischaemia Peripheral vascular disorder
Pharyngitis Phobia Photophobia Photosensitivity reaction
Platelet count decreased Pleurisy Pneumonia Pollakiuria
Polydipsia Polyuria Pruritus Psoriasis Psychomotor
skills impaired Psychotic disorder Pulmonary embolism
Pulmonary function test decreased Purpura Rash Rash
generalised Rectal haemorrhage Renal failure Renal failure
acute Respiratory depression Respiratory disorder Respiratory
failure Respiratory tract infection Restless legs syndrome
Rhinitis Rhinorrhoea Salivary hypersecretion Scotoma
Semen analysis abnormal Sensory disturbance Sensory
loss Sexual dysfunction Shock Sinus congestion Sinusitis Sleep
disorder Sneezing Snoring Somnolence Splenomegaly
Sputum increased Stomatitis Suicidal ideation Suicide attempt
Supraventricular tachycardia Swelling Syncope Tachycardia
Tenderness Tension Terminal insomnia Thinking abnormal
Thirst Throat irritation Thrombocytopenia Thrombocytosis
Thrombosis Thyroid disorder Tinnitus Tobacco user
Tongue coated Tooth disorder Toxic epidermal necrolysis
Transient ischaemic attack Tremor Ulcer Upper respiratory
tract infection Upper-airway cough syndrome Urethral disorder

Urethral syndrome Urinary incontinence Urinary retention
Urinary tract disorder Urinary tract infection Urine
abnormality Urine analysis abnormal Urine output increased
Urticaria VIIth nerve paralysis Vaginal discharge Vascular
dementia Vascular purpura Ventricular extrasystoles Ventricular
tachycardia Vertigo Viral infection Vision blurred Visual
acuity reduced Visual impairment Vitreous floaters Vomiting
Weight decreased Weight increased Withdrawal syndrome

Glucagon-like peptide 1 receptor - Group: Receptor

Treated with:

glucagon recombinant: approved biotech (0 associated side effects)
For treatment of severe hypoglycemia, also used in
gastrointestinal imaging

exenatide: approved biotech (49 associated side effects)

Indicated as adjunctive therapy to improve glycemic control in
patients with Type 2 diabetes mellitus who are taking metformin, a
sulfonylurea, or a combination of both, but have not achieved
adequate glycemic control.

liraglutide: approved biotech (0 associated side effects)

For use/treatment in diabetes mellitus type 2 and obesity.

49 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Alopecia Alveolitis
allergic Anaphylactic shock Angioedema Asthenia Blood
creatinine increased Chest pain Chills Constipation Death
Decreased appetite Dehydration Dermatitis Diarrhoea
Dizziness Drug interaction Dysgeusia Dyspepsia Eructation
Feeling jittery Flatulence Gastrointestinal pain
Gastrooesophageal reflux disease Haemoglobin Haemorrhage
Headache Hyperhidrosis Hypersensitivity Hypoglycaemia
International normalised ratio increased Nausea
Nervousness Pain Pneumonia Pruritus Pruritus generalised
Rash Rash papular Renal failure acute Renal failure
chronic Renal impairment Somnolence Toxic epidermal necrolysis
Urethral disorder Urinary tract disorder Urticaria Vomiting

Interleukin-3 receptor alpha chain - Group: Receptor

Treated with:

sargramostim: approved biotech (0 associated side effects)

For the treatment of cancer and bone marrow transplant

known side effects mediated through drugs targeting this protein:

Sodium- and chloride-dependent neutral and basic amino acid
transporter B(0+) - Group: Transporter

Treated with:

l-proline: approved, nutraceutical small molecule (0 associated
side effects) L-Proline is extremely important for the proper
functioning of joints and tendons and also helps maintain and
strengthen heart muscles.

known side effects mediated through drugs targeting this protein:

Interleukin-1 receptor type I - Group: Receptor

Treated with:

anakinra: approved biotech (0 associated side effects) For the treatment of adult rheumatoid arthritis.

known side effects mediated through drugs targeting this protein:

Voltage-gated potassium channel - Group: Channel

Treated with:

(2s)-2-(butyryloxy)-3-hydroxypropyl nonanoate: experimental
small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Proto-oncogene tyrosine-protein kinase receptor ret - Group: Enzyme

Treated with:

1-ter-butyl-3-p-tolyl-1h-pyrazolo[3,4-d]pyrimidin-4-ylamine:
experimental small molecule (0 associated side effects)
4-bromo-2-fluoro-n-[(4e)-6-methoxy-7-[(1-methylpiperidin-4-yl)methoxy]quinazolin-4(1h)-ylidene]aniline: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Potassium voltage-gated channel subfamily A member 1 - Group:

Channel

Treated with:

enflurane: approved small molecule (15 associated side effects)

Used for the induction and maintenance of general anaesthesia during surgery and cesarean section and also used for analgesia during vaginal delivery.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

isoflurane: approved small molecule (31 associated side effects)

For induction and maintenance of general anesthesia.

methoxyflurane: approved small molecule (0 associated side effects) For use in the induction and maintenance of general anesthesia

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a

first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

desflurane: approved small molecule (110 associated side effects) For use as an inhalation agent for induction and/or maintenance of anesthesia for inpatient and outpatient surgery in adults.

sevoflurane: approved small molecule (107 associated side effects) Used for induction and maintenance of general anesthesia in adult and pediatric patients for inpatient and outpatient surgery.

350 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acidosis Acute coronary syndrome Acute generalised exanthematous pustulosis Affect lability Ageusia Agitation Agranulocytosis Alanine aminotransferase increased Albuminuria Alopecia Amblyopia Ammonia increased Amnesia Anaemia Anaphylactic shock Anaphylactoid reaction Angina pectoris Angioedema Angiopathy Antinuclear antibody positive Anxiety Aortic dissection Apnoea Arrhythmia Arrhythmia supraventricular Arthralgia Arthritis Arthropathy Aspartate aminotransferase increased Asthenia Asthma Ataxia Atrial fibrillation Atrioventricular block Atrioventricular block complete Atrioventricular block second degree Back pain Bezoar Blindness Blindness transient Blister Blood creatinine increased Blood pressure increased Body temperature decreased Body temperature increased Bone disorder Bradycardia Breast engorgement Breast enlargement Breast pain Breath holding Bronchospasm Burning sensation Cardiac arrest Cardiac disorder Cardiac failure Cardiac failure congestive Cardiac fibrillation Cardiogenic shock Cardiomyopathy Cellulitis Cerebrovascular accident Chest pain Chills Cholestasis Coagulopathy Coma Confusional state Conjunctival hyperaemia Conjunctivitis Constipation Convulsion Coombs direct test positive Coordination abnormal Cough Crocodile tears syndrome Decreased appetite Delirium Delusion Dependence Dermatitis atopic Dermatitis bullous Dermatitis exfoliative Diarrhoea Diplopia Discomfort Disorientation Disturbance in attention Disturbance in sexual arousal Dizziness Drug administration error Drug dependence Dry mouth Dysarthria Dysgeusia Dyskinesia Dyspepsia Dysphagia Dyspnoea Dysuria Electrocardiogram QT prolonged Electrocardiogram T wave inversion Electrocardiogram abnormal Encephalopathy Eosinophilia Epistaxis Erectile dysfunction Eructation Erythema Erythema multiforme Erythromelalgia Extrapyrimal disorder Extrasystoles Eye disorder Eye haemorrhage Eye inflammation Eye irritation Eye pain Eyelid oedema Face oedema Fatigue Feeling abnormal Feeling hot Feeling jittery Flatulence Flushing Foetor hepaticus Galactorrhoea Gamma-glutamyltransferase increased Gastrointestinal disorder Gastrointestinal haemorrhage Gastrointestinal obstruction Gastrointestinal pain Gastrointestinal tract irritation Gastrooesophageal reflux disease Gingival bleeding Gingival

disorder Gingival hyperplasia Glycosuria Gout Gynaecomastia
 Haematuria Haemoglobin Haemolysis Haemolytic anaemia
 Haemoptysis Haemorrhage Hallucination Headache Hepatic
 failure Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatobiliary disease Hepatocellular injury Hiccups Hot
 flush Hyperaemia Hyperbilirubinaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkinesia Hyperplasia
 Hyperpyrexia Hypersensitivity Hypertension
 Hyperthermia malignant Hypertonia Hypertrophy Hyperventilation
 Hypoaesthesia Hypocapnia Hypokalaemia Hypokinesia
 Hypomania Hypophosphataemia Hypotension Hypothermia
 Hypoventilation Hypoxia Ileus paralytic Ill-defined
 disorder Inappropriate antidiuretic hormone secretion
 Incontinence Increased bronchial secretion Infarction
 Infection Inflammation Insomnia Intraocular pressure
 increased Irritability Ischaemia Jaundice Joint stiffness
 Keratitis Laboratory test abnormal Lacrimation increased
 Laryngospasm Leukocytosis Leukopenia Libido decreased
 Liver disorder Loss of consciousness Lymphadenopathy
 Malaise Malignant hypertension Mania Mediastinal disorder
 Melaena Menopausal symptoms Menstrual disorder
 Mental disability Mental status changes Metabolic acidosis
 Migraine Mood swings Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Mycobacterium avium
 complex infection Mycobacterium test Mydriasis Myocardial
 infarction Myocardial ischaemia Nasal congestion Nausea Neck
 pain Necrosis Nephritis Nephrolithiasis Nervous system
 disorder Nervousness Neuroleptic malignant syndrome Neuropathy
 peripheral Nightmare Nocturia Nodal arrhythmia Obstruction
 Obstructive airways disorder Ocular hyperaemia Oedema
 Oedema peripheral Oesophagitis Oliguria Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Pain in extremity Palpitations
 Pancreatitis acute Pancytopenia Paraesthesia
 Paranoia Parotid gland enlargement Pelvic pain Periorbital
 oedema Petechiae Pharyngitis Phlebitis Photosensitivity
 reaction Poisoning Pollakiuria Polyuria Pruritus Psychotic
 disorder Pulmonary congestion Pulmonary function test decreased
 Pulmonary oedema Purpura Rales Rash Rash erythematous Renal
 failure Renal failure chronic Renal impairment Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection Rhabdomyolysis Rhinitis
 Salivary hypersecretion Sensory loss Shock Sinusitis
 Skin burning sensation Skin disorder Sleep disorder
 Somnolence Sputum increased Stomatitis Stridor
 Supraventricular extrasystoles Swelling Syncope
 Systemic lupus erythematosus Tachyarrhythmia Tachycardia
 Tardive dyskinesia Tenderness Tension Testicular
 swelling Thirst Thrombocytopenia Tinnitus Tongue
 discolouration Torsade de pointes Toxic epidermal necrolysis
 Tremor Tubulointerstitial nephritis Ulcer Ulcerative
 keratitis Upper respiratory tract infection Urethral disorder
 Urinary incontinence Urinary retention Urinary tract disorder

Urine abnormality Urine analysis abnormal Urine output
Urine output increased Urogenital disorder Urticaria
Vascular purpura Vasodilation procedure Ventricular arrhythmia
Ventricular extrasystoles Ventricular failure Ventricular
fibrillation Ventricular hypokinesia Ventricular
tachycardia Vertigo Vision blurred Visual acuity reduced
Visual impairment Vomiting Weight decreased Weight increased
Wheezing

Gastrin/cholecystokinin type B receptor - Group: Receptor

Treated with:

pentagastrin: approved small molecule (0 associated side effects) Used as a diagnostic aid for evaluation of gastric acid secretory function

known side effects mediated through drugs targeting this protein:

Equilibrative nucleoside transporter 1 - Group: Transporter

Treated with:

troglitazone: withdrawn small molecule (32 associated side effects) For the treatment of Type II diabetes mellitus. It is used alone or in combination with a sulfonylurea, metformin, or insulin as an adjunct to diet and exercise.

gemcitabine: approved small molecule (137 associated side effects) For the first-line treatment of patients with metastatic breast cancer, locally advanced (Stage IIIA or IIIB), or metastatic (Stage IV) non-small cell lung cancer and as first-line treatment for patients with adenocarcinoma of the pancreas.

pemetrexed: approved small molecule (68 associated side effects)

Used in combination with cisplatin for the treatment of malignant pleural mesothelioma in adults whose disease is unresectable or who otherwise are not candidates for potentially curative surgery. Also used as a monotherapy for the treatment of locally advanced or metastatic non-small cell lung cancer (NSCLC) after prior chemotherapy

ribavirin: approved small molecule (195 associated side effects) For the treatment of chronic hepatitis C and for respiratory syncytial virus (RSV).

cytarabine: approved small molecule (0 associated side effects)

For the treatment of acute non-lymphocytic leukemia, acute lymphocytic leukemia and blast phase of chronic myelocytic leukemia.

fludarabine: approved small molecule (185 associated side effects) For the treatment of adult patients with B-cell chronic lymphocytic leukemia (CLL) who have not responded to or whose disease has progressed during treatment with at least one standard alkylating-agent containing regimen

371 known side effects mediated through drugs targeting this protein:

Abdominal pain Abdominal pain upper Acidosis Acquired haemophilia Acute coronary syndrome Acute leukaemia Acute myeloid leukaemia Acute respiratory distress syndrome Affect

lability Aggression Agitation Agranulocytosis Alanine
 aminotransferase increased Alopecia Altered state of
 consciousness Alveolitis allergic Anaemia Anaemia
 haemolytic autoimmune Anaphylactic shock Anaphylactoid reaction
 Aneurysm Anger Angina pectoris Angiopathy Anxiety
 Aortic dissection Aplasia pure red cell Aplastic anaemia
 Apnoea Arrhythmia Arrhythmia supraventricular Arthralgia
 Arthritis Aspartate aminotransferase increased Asthenia
 Asthma Atelectasis Autoimmune disorder Autoimmune
 thrombocytopenia Azotaemia Back pain Bacterial infection
 Baltic myoclonic epilepsy Bladder pain Blindness
 Blindness transient Blister Blood alkaline phosphatase
 increased Blood bilirubin increased Blood creatine phosphokinase
 increased Blood creatinine decreased Blood creatinine increased
 Blood disorder Blood lactate dehydrogenase increased Blood
 triglycerides increased Blood urea increased Blood uric acid
 increased Body temperature increased Bone disorder Bone pain
 Bradycardia Bronchial hyperreactivity Bronchitis
 Bronchospasm Burkitt's lymphoma Carcinoma in situ
 Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiovascular disorder Cell death
 Cellulitis Cerebellar syndrome Cerebral haemorrhage
 Cerebrovascular accident Chest pain Chills Cholangitis
 Cholelithiasis Chronic obstructive pulmonary disease
 Colitis Coma Completed suicide Confusional state
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Cough Creatinine renal clearance decreased
 Crystal urine Crystalluria Cyanosis Cystitis
 Cystitis haemorrhagic Cystitis noninfective Deafness
 neurosensory Death Decreased appetite Deep vein thrombosis
 Dehydration Dependence Depressed level of consciousness
 Dermatitis Dermatitis bullous Diabetes mellitus Diarrhoea
 Discomfort Disease progression Dissociation Disturbance
 in attention Dizziness Drug abuse Dry mouth Dry skin
 Dysgeusia Dyspepsia Dysphagia Dysphonia Dyspnoea
 Dyspnoea exertional Dysuria Eczema Effusion
 Embolism Endocarditis Endocrine disorder Epistaxis
 Erythema Erythema multiforme Evans syndrome
 Extrasystoles Extravasation Eye disorder Face oedema
 Factor VIII deficiency Fatigue Febrile neutropenia
 Feeling abnormal Fibrosis Flank pain Fluid retention
 Flushing Fungal infection Gamma-glutamyltransferase
 increased Gangrene Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Generalised oedema Glomerular
 filtration rate decreased Gout Haematuria Haemoglobin Haemoglobin
 decreased Haemolysis Haemolytic anaemia Haemolytic uraemic
 syndrome Haemoptysis Haemorrhage Hallucination Headache
 Hearing impaired Heart disease congenital Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 steatosis Hepatitis Hepatobiliary disease Hepatomegaly
 Herpes simplex Herpes virus infection Herpes zoster
 Hormone level abnormal Hyperbilirubinaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperphosphataemia
 Hypersensitivity Hypertension Hyperthyroidism
 Hypertriglyceridaemia Hyperuricaemia Hypoaesthesia

Hypocalcaemia Hypokalaemia Hypomagnesaemia
 Hyporeflexia Hypotension Hypothyroidism Hypoventilation
 Hypoxia Ill-defined disorder Immune system disorder
 Infarction Infection Infestation Influenza Influenza like
 illness Injection site inflammation Injection site necrosis
 Injection site pain Injection site reaction Insomnia
 Interstitial lung disease Irritability Jaundice
 Laboratory test abnormal Lacrimation increased Lethargy
 Leukoencephalopathy Leukopenia Liver function test abnormal
 Loss of consciousness Lung disorder Lung infection Lung
 infiltration Lymphopenia Lymphoproliferative disorder Malaise
 Mediastinal disorder Melanocytic naevus Memory impairment
 Menstrual disorder Mental disability Mental disorder
 Metabolic acidosis Metastatic neoplasm Microangiopathic
 haemolytic anaemia Mood swings Mucosal inflammation
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Myalgia Myelodysplastic syndrome
 Myelofibrosis Myeloid leukaemia Myeloid metaplasia
 Myocardial infarction Myositis Nasal congestion Nausea
 Necrosis Neoplasm malignant Nephropathy toxic Nervous
 system disorder Nervousness Neuritis Neuropathy peripheral
 Neutropenia Neutrophil count decreased Non-small cell lung
 cancer Obstructive airways disorder Ocular surface disease
 Odynophagia Oedema Oedema peripheral Oesophagitis
 Opportunistic infection Optic nerve disorder Optic
 neuritis Oropharyngeal discomfort Oropharyngeal pain
 Osteomyelitis Osteoporosis Pain Pain in extremity
 Pancreatitis Pancytopenia Paraesthesia Pemphigus
 Peptic ulcer Pericardial effusion Peripheral motor
 neuropathy Peripheral sensory neuropathy Petechiae Pharyngitis
 Phlebitis Platelet count decreased Pleural disorder
 Pleural effusion Pneumonia Pneumothorax Polyp Progressive
 multifocal leukoencephalopathy Protein urine present Proteinuria
 Prurigo Pruritus Psychotic disorder Pulmonary
 embolism Pulmonary fibrosis Pulmonary haemorrhage Pulmonary
 hypertension Pulmonary oedema Pulmonary toxicity Purpura
 Pyelonephritis Radial nerve palsy Rash Recall phenomenon
 Renal failure Renal function test abnormal Renal impairment
 Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract infection Reticulocytosis Retinal
 detachment Retinal exudates Rheumatoid arthritis Rhinitis
 Sarcoidosis Seborrhoeic dermatitis Sensory loss Sepsis
 Shock Sinusitis Skin cancer Skin disorder Skin exfoliation
 Skin toxicity Sleep disorder Somnolence Stomatitis
 Sudden death Suicidal behaviour Suicidal ideation
 Suicide attempt Supraventricular tachycardia Syncope
 Systemic lupus erythematosus Tachycardia Tachypnoea Tenderness
 Tension Thrombocytopenia Thrombocytopenic purpura
 Thrombosis Thrombotic thrombocytopenic purpura Thyroid
 disorder Tinnitus Toxic epidermal necrolysis Transient
 ischaemic attack Transplant rejection Tumour lysis syndrome Type
 1 diabetes mellitus Ulcerative keratitis Upper respiratory
 tract infection Urinary hesitation Urinary tract infection
 Urticaria Vascular purpura Vasculitis Venous thrombosis
 Ventricular extrasystoles Vertigo Viral infection

Vision blurred Visual impairment Volume blood increased
Vomiting Weight decreased Weight increased Wheezing X-
linked lymphoproliferative syndrome

Tumor necrosis factor receptor superfamily member 1A - Group:
Receptor

Treated with:

6-[3-(4-morpholinyl)propyl]-2-(3-nitrophenyl)-5-thioxo-5,6,-dihydro-
7h-thienol[2',3':4,5]pyrrolo[1,2-c]imidazol-7-one: experimental
small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Tumor necrosis factor receptor superfamily member 1B - Group:
Receptor

Treated with:

etanercept: approved biotech (0 associated side effects) For
treatment of severe active rheumatoid arthritis in adults, severe
juvenile idiopathic arthritis, ankylosing spondylitis, and severe
plaque psoriasis.

known side effects mediated through drugs targeting this protein:

Synaptic vesicular amine transporter - Group: Transporter

Treated with:

amphetamine: illicit,approved small molecule (95 associated
side effects) For treatment of Attention Deficit Disorder with
Hyperactivity (ADDH) and narcolepsy in children.

reserpine: approved small molecule (44 associated side effects)
Foe the treatment of hypertension

alseroxyton: approved small molecule (0 associated side
effects) For the treatment of hypertension and as an adjunct in
the management of angina pectoris.

benzphetamine: illicit,approved small molecule (0 associated
side effects) For the management of exogenous obesity as a short
term adjunct (a few weeks) in a regimen of weight reduction based on
caloric restriction

deserpidine: approved small molecule (0 associated side
effects) For the treatment of hypertension.

ephedra: approved,withdrawn,nutraceutical small molecule (0
associated side effects) Ephedra is widely used by athletes,
despite a lack of evidence that it enhances athletic performance.
Ephedra has also been used for weight loss.

ephedrine: approved small molecule (31 associated side effects)
Ephedrine commonly used as a stimulant, appetite suppressant,
concentration aid, decongestant, and to treat hypotension associated
with anaesthesia.

mmda: illicit,experimental small molecule (0 associated side
effects) MMDA is a recreational drug. It has no current medical
uses and is a Schedule I controlled substance in the USA at present.

3,4-methylenedioxyamphetamine: illicit, experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

4-methoxyamphetamine: illicit, experimental small molecule (0 associated side effects)

dextroamphetamine: illicit, approved small molecule (0 associated side effects) Used to treat attention deficit hyperactivity disorder (ADHD).

tetrabenazine: approved small molecule (37 associated side effects) For the symptomatic treatment of hyperkinetic movement disorder.

isometheptene: approved small molecule (0 associated side effects) Isometheptene is a sympathomimetic drug which causes vasoconstriction. It is used for treating migraines and tension headaches.

propylhexedrine: approved small molecule (0 associated side effects) It is used to provide temporary symptomatic relief of nasal congestion due to colds, allergies and allergic rhinitis.

152 known side effects mediated through drugs targeting this protein:

Abdominal pain Abdominal pain upper Acute coronary syndrome
Affect lability Aggression Agitation Akathisia
Anaphylactic shock Angina pectoris Angioedema Anxiety
Arrhythmia Asthenia Atrophy Attention
deficit/hyperactivity disorder Balance disorder Blood pressure
increased Blood pressure systolic increased Body temperature
increased Bradycardia Bradykinesia Breast engorgement
Bronchitis Cardiac arrest Cardiac death Cardio-
respiratory arrest Cardiomyopathy Cerebral haemorrhage
Cerebrovascular accident Chest pain Chills Coma
Confusional state Conjunctival hyperaemia Constipation
Convulsion Deafness Death Decreased appetite Delirium
Dependence Depression Dermatitis Diarrhoea Disturbance in
sexual arousal Dizziness Drug abuse Drug dependence Dry mouth
Dysarthria Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
Dysphoria Dyspnoea Dysuria Ecchymosis Elastosis
perforans Epistaxis Erectile dysfunction Erythema multiforme
Euphoric mood Extrapyrarnidal disorder Extrasystoles
Fatigue Feeling abnormal Flushing Gait disturbance
Gastrointestinal pain Glaucoma Gynaecomastia Haemoglobin
Haemorrhage Hallucination Headache Hyperaemia
Hyperhidrosis Hyperkinesia Hyperpyrexia
Hypersensitivity Hypertension Hyperthermia Hypertonia
Hypotension Infarction Infection Insomnia Irritability
Lethargy Libido decreased Loss of consciousness Mental
disorder Mood swings Muscle spasms Muscle twitching
Musculoskeletal discomfort Myalgia Myocardial infarction
Nasal congestion Nausea Nervousness Nightmare Obsessive-
compulsive disorder Oedema Optic atrophy Osteoarthritis
Pain Pallor Palpitations Panic attack Panic
reaction Personality change Photosensitivity reaction
Poisoning Polyuria Prostatism Pruritus Psychotic

disorder Purpura Rash Respiratory disorder Respiratory tract
 infection Rhabdomyolysis Schizophrenia Sedation Shock Skin
 disorder Somnolence Speech disorder Stevens-Johnson syndrome
 Sudden death Syncope Tachycardia Tension Tic Tooth
 disorder Toxic epidermal necrolysis Tremor Upper respiratory
 tract infection Urethral disorder Urinary retention Urinary tract
 disorder Urinary tract infection Urticaria Uveitis
 Vascular purpura Vertigo Viral infection Vomiting
 Weight decreased Weight increased

Transient receptor potential cation channel subfamily V member 1 -
 Group: Channel

Treated with:

alpha-linolenic acid: approved, nutraceutical small molecule (0
 associated side effects) For nutritional supplementation and for
 treating dietary shortage or imbalance.

icosapent: approved, nutraceutical small molecule (0 associated
 side effects) EPA can be used for lowering elevated triglycerides
 in those who are hyperglyceridemic. In addition, EPA may play a
 therapeutic role in patients with cystic fibrosis by reducing
 disease severity and may play a similar role in type 2 diabetics in
 slowing the progression of diabetic nephropathy.

aspartame: approved, nutraceutical small molecule (0 associated
 side effects) Used as a diet supplement and sugar substitute.

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 2A receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side
 effects) For the treatment of schizophrenia and related psychotic
 disorders.

methysergide: approved small molecule (69 associated side
 effects) For the treatment of vascular headache

cabergoline: approved small molecule (96 associated side
 effects) For the treatment of hyperprolactinemic disorders, either
 idiopathic or due to prolactinoma (prolactin-secreting adenomas).

May also be used to manage symptoms of Parkinsonian Syndrome as
 monotherapy during initial symptomatic management or as an adjunct
 to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side
 effects) For the treatment of the signs and symptoms of idiopathic
 Parkinson's disease. Also used for the treatment of restless legs
 syndrome.

amitriptyline: approved small molecule (109 associated side
 effects) For the treatment of depression, chronic pain, irritable
 bowel syndrome, sleep disorders, diabetic neuropathy, agitation and
 insomnia, and migraine prophylaxis.

olanzapine: approved small molecule (393 associated side
 effects) For the acute and maintenance treatment of schizophrenia
 and related psychotic disorders, as well as acute treatment of manic

or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

mirtazapine: approved small molecule (272 associated side effects) For the treatment of major depressive disorder.

loxapine: approved small molecule (74 associated side effects)

For the management of the manifestations of psychotic disorders such as schizophrenia

remoxipride: approved, withdrawn small molecule (0 associated side effects) Remoxipride is an atypical antipsychotic once used for the treatment of schizophrenia.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

promazine: approved small molecule (0 associated side effects)

Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

cyproheptadine: approved small molecule (63 associated side effects) For treatment of perennial and seasonal allergic rhinitis, vasomotor rhinitis, allergic conjunctivitis due to inhalant allergens and foods, mild uncomplicated allergic skin manifestations of urticaria and angioedema, amelioration of allergic reactions to blood or plasma, cold urticaria, dermatographism, and as therapy for anaphylactic reactions adjunctive to epinephrine.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

fluoxetine: approved small molecule (516 associated side effects) Labeled indication include: major depressive disorder (MDD), moderate to severe bulimia nervosa, obsessive-compulsive disorder (OCD), premenstrual dysphoric disorder (PMDD), panic disorder with or without agoraphobia, and combination treatment with olanzapine for treatment-resistant or bipolar I depression.

Unlabeled indications include: selective mutism, mild dementia-associated agitation in nonpsychotic patients, post-traumatic stress disorder (PTSD), social anxiety disorder, chronic neuropathic pain, fibromyalgia, and Raynaud's phenomenon.

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

haloperidol: approved small molecule (79 associated side effects) For the management of psychotic disorders (eg. schizophrenia) and delirium, as well as to control tics and vocal utterances of Tourette's syndrome (Gilles de la Tourette's syndrome). Also used for the treatment of severe behavioural

problems in children with disruptive behaviour disorder or ADHD (attention-deficit hyperactivity disorder). Haloperidol has been used in the prevention and control of severe nausea and vomiting.
nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

cisapride: approved, withdrawn small molecule (0 associated side effects) For the symptomatic treatment of adult patients with nocturnal heartburn due to gastroesophageal reflux disease.

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

thioridazine: approved small molecule (92 associated side effects) For the treatment of schizophrenia and generalized anxiety disorder.

ergotamine: approved small molecule (15 associated side effects)

For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

epinastine: approved small molecule (12 associated side effects)
For the prevention of itching associated with allergic conjunctivitis.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

minaprine: approved small molecule (0 associated side effects)
For the treatment of depression

donepezil: approved small molecule (310 associated side effects) For the palliative treatment of mild to moderate dementia of the Alzheimer's type.

flupenthixol: approved small molecule (0 associated side effects) For use in the treatment of schizophrenia and depression

cyclobenzaprine: approved small molecule (136 associated side effects) For use as an adjunct to rest and physical therapy for relief of muscle spasm associated with acute, painful musculoskeletal conditions.

mesoridazine: approved small molecule (83 associated side effects) Used in the treatment of schizophrenia, organic brain disorders, alcoholism and psychoneuroses.

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

tegaserod: withdrawn small molecule (125 associated side effects) Provides relief from the symptoms of irritable bowel syndrome including chronic idiopathic constipation.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved, withdrawn small molecule (246 associated side effects) For the treatment of depression.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

clomipramine: approved small molecule (349 associated side effects)

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

dihydroergotoxine: approved small molecule (0 associated side effects) For potential use in the treatment of Alzheimer's disease.

yohimbine: approved small molecule (0 associated side effects)
Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

mmda: illicit,experimental small molecule (0 associated side effects) MDMA is a recreational drug. It has no current medical uses and is a Schedule I controlled substance in the USA at present.

3,4-methylenedioxymethamphetamine: illicit,experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

dimethyltryptamine: illicit,experimental small molecule (0 associated side effects) Some people use this compound as a psychedelic inducing agent.

acepromazine: approved small molecule (0 associated side effects) Acepromazine was first used in humans in the 1950s as an antipsychotic agent. It is now rarely used in humans. Acepromazine is frequently used in animals as a sedative and antiemetic. Its principal value is in quietening and calming anxious animals.

molindone: approved small molecule (46 associated side effects)
Molindone is used for the management of the manifestations of psychotic disorders.

pipotiazine: approved small molecule (94 associated side effects) For the maintenance treatment of chronic non-agitated schizophrenic patients.

thiopropazine: approved small molecule (0 associated side effects) For the treatment of all types of acute and chronic schizophrenia, including those which did not respond to the usual neuroleptics; manic syndromes.

thiothixene: approved small molecule (79 associated side effects) For the management of schizophrenia.

zuclopenthixol: approved small molecule (0 associated side effects) For the management of the manifestations of schizophrenia.

aniracetam: experimental small molecule (0 associated side effects)

fluspirilene: approved small molecule (0 associated side effects) Used for the treatment of schizophrenia.

sertindole: approved,withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

mianserin: approved small molecule (0 associated side effects)
For the treatment of depression.

amisulpride: approved small molecule (0 associated side effects) Investigated for use/treatment in schizophrenia and

schizoaffective disorders, mania in bipolar disorder, and depression.

cinitapride: approved small molecule (0 associated side effects) For the treatment of gastrointestinal disorders associated with motility disturbances such as gastroesophageal reflux disease, non-ulcer dyspepsia and delayed gastric emptying.

1425 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abortion spontaneous Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Adjustment disorder Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol abuse Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Alveolitis allergic Amaurosis fugax Amblyopia Amenorrhoea Amnesia Amyotrophic lateral sclerosis Anaemia Anaemia macrocytic Anaemia megaloblastic Anaemia vitamin B12 deficiency Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anisocytosis Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antinuclear antibody positive Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Aortic embolus Apathy Aphasia Aphthous stomatitis Aplasia Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Argininosuccinate synthetase deficiency Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Assisted fertilisation Asthenia Asthma Ataxia Atelectasis Athetosis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Autonomic nervous system imbalance Autonomic neuropathy Azoospermia Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder dilatation Bladder disorder Bladder pain Bleeding time prolonged Blepharitis Blepharospasm Blindness Blindness transient Blister Blood acid phosphatase increased Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood

creatinine increased Blood disorder Blood electrolytes abnormal
 Blood glucose decreased Blood glucose increased Blood
 insulin increased Blood iron decreased Blood lactate dehydrogenase
 increased Blood phosphorus increased Blood potassium decreased
 Blood potassium increased Blood pressure abnormal Blood
 pressure diastolic decreased Blood pressure fluctuation Blood
 pressure increased Blood pressure systolic decreased Blood
 prolactin increased Blood testosterone decreased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bone sarcoma
 Bradycardia Bradykinesia Bradyphrenia Brain neoplasm
 Brain neoplasm benign Brain oedema Breast atrophy
 Breast cancer Breast cyst Breast discharge Breast discomfort
 Breast disorder Breast disorder female Breast disorder male
 Breast engorgement Breast enlargement Breast feeding
 Breast neoplasm Breast pain Breast swelling Breast tenderness
 Breath odour Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac output
 decreased Cardiac septal defect Cardiac valve disease Cardio-
 respiratory arrest Cardiomegaly Cardiomyopathy
 Cardiopulmonary failure Cardiovascular disorder
 Carotid artery occlusion Carpal tunnel syndrome Cataplexy
 Cataract Catatonia Cells in urine Cellulitis Cerebral
 artery embolism Cerebral atrophy Cerebral haemorrhage Cerebral
 infarction Cerebral ischaemia Cerebrospinal fluid rhinorrhoea
 Cerebrovascular accident Cerebrovascular disorder
 Cervical dysplasia Cervicitis Cervix carcinoma Cervix
 disorder Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Chloasma Choking Cholecystitis
 Cholecystitis chronic Cholelithiasis Cholestasis Cholinergic
 syndrome Chondrodystrophy Chondropathy Chorea
 Choreoathetosis Chromatopsia Chromaturia Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Clonus Coagulopathy Coccydynia Cognitive disorder
 Cogwheel rigidity Cold sweat Colitis Colitis ischaemic
 Colitis ulcerative Colon cancer Colorectal cancer Coma
 Completed suicide Compulsions Condition aggravated Confusional
 state Congenital anomaly Congenital eye disorder Congenital
 foot malformation Congenital genitourinary abnormality
 Conjunctival disorder Conjunctival haemorrhage
 Conjunctival oedema Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal deposits Corneal lesion
 Coronary artery disease Coronary artery occlusion
 Costochondritis Cough Cough decreased Crocodile tears
 syndrome Crying Cyanosis Cystitis Cystitis noninfective

Cytolytic hepatitis Dandruff Deafness Deafness
 transitory Death Decreased appetite Decubitus ulcer Deep vein
 thrombosis Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dementia Alzheimer's type Dementia with Lewy
 bodies Dental caries Dependence Depersonalisation Depressed
 level of consciousness Depressed mood Depression Depressive
 symptom Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Diabetes mellitus
 Diabetic coma Diabetic hyperglycaemic coma Diabetic
 hyperosmolar coma Diabetic ketoacidosis Diaphragmatic hernia
 Diarrhoea Diarrhoea haemorrhagic Diplopia Discomfort
 Disease progression Disorientation Disseminated
 intravascular coagulation Dissociation Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Dizziness exertional Dizziness postural
 Drooling Drug abuse Drug dependence Drug eruption Drug
 hypersensitivity Drug ineffective Drug interaction Drug level
 increased Drug withdrawal syndrome Drug withdrawal syndrome
 neonatal Dry eye Dry mouth Dry skin Dry throat Duodenal
 ulcer Duodenal ulcer haemorrhage Duodenitis Dysarthria Dysentery
 Dysgeusia Dysgraphia Dyskinesia Dyslipidaemia
 Dysmenorrhoea Dyspareunia Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dysplasia Dyspnoea Dyspnoea
 exertional Dystonia Dysuria Ear disorder Ear infection
 Ear pain Ecchymosis Eclampsia Eczema Effusion
 Ejaculation delayed Ejaculation disorder Ejaculation
 failure Elastosis perforans Elderly Electrocardiogram QRS
 complex Electrocardiogram QT prolonged Electrocardiogram ST
 segment depression Electrocardiogram ST segment elevation
 Electrocardiogram T wave inversion Electrocardiogram abnormal
 Electrocardiogram change Electrocardiogram normal
 Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional distress Emotional
 poverty Emphysema Encephalopathy Endocrine disorder
 Endometrial cancer Endometrial disorder Endometrial
 hyperplasia Endometrial neoplasm Endometriosis Energy increased
 Enteritis Enuresis Enzyme abnormality Eosinophil count
 increased Eosinophilia Eosinophilic pneumonia Epicondylitis
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Erythromelalgia Erythropenia Euphoric mood Exfoliative
 rash Exophthalmos Exostosis Extensor plantar response
 Extrapyramidal disorder Extrasystoles Extravasation
 Eye allergy Eye discharge Eye disorder Eye haemorrhage
 Eye infection Eye inflammation Eye irritation Eye
 movement disorder Eye pain Eye pruritus Eye swelling
 Eyelid disorder Eyelid function disorder Eyelid oedema
 Eyelid ptosis Face oedema Facial pain Facial paresis
 Faecal incontinence Faecalith Faecaloma Faeces
 discoloured Faeces hard Fasciitis Fasting Fat intolerance
 Fatigue Fear Feeling abnormal Feeling cold Feeling hot
 Feeling jittery Female sexual dysfunction Fibroadenoma of
 breast Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing

Foetor hepaticus Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gallbladder cancer Gallbladder disorder
 Gamma-glutamyltransferase increased Gangrene Gastric
 cancer Gastric dilatation Gastric disorder Gastric
 haemorrhage Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrooesophageal reflux
 disease General symptom Generalised oedema Genital
 candidiasis Genital discharge Genital disorder female Genital
 disorder male Genital haemorrhage Gestational hypertension
 Gingival bleeding Gingival hyperplasia Gingival infection
 Gingival pain Gingival recession Gingivitis Glaucoma
 Globulins increased Glomerulonephritis membranous
 Glossitis Glossodynia Glucose tolerance decreased Glucose
 tolerance impaired Glycosuria Glycosylated haemoglobin increased
 Goitre Gout Grand mal convulsion Gravitational oedema
 Groin pain Gynaecomastia Haemangioma Haematemesis
 Haematochezia Haematocrit decreased Haematoma Haematuria
 Haemoglobin Haemoglobin decreased Haemoglobin increased
 Haemoglobinuria Haemolysis Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhage intracranial Haemorrhagic disorder
 Haemorrhoids Haemothorax Hallucination Hallucination,
 auditory Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemianopia Hemiparesis Hemiplegia
 Hepatic cirrhosis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatic neoplasm
 malignant Hepatic steatosis Hepatitis Hepatitis A Hepatitis
 cholestatic Hepatobiliary disease Hepatocellular injury
 Hepatomegaly Hepatosplenomegaly Hereditary disorder
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hydrocephalus Hyperacusis Hyperaemia Hyperaesthesia
 Hyperammonaemia Hyperbilirubinaemia Hypercalcaemia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hypernatraemia
 Hyperparathyroidism Hyperpathia Hyperphagia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity
 Hypersexuality Hypersomnia Hypertension Hypertensive
 crisis Hyperthermia Hyperthyroidism Hypertonia Hypertonic
 bladder Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation Hypnagogic
 hallucination Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypogonadism
 Hypohidrosis Hypokalaemia Hypokinesia Hypomagnesaemia
 Hypomania Hypomenorrhoea Hyponatraemia Hypophagia

Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovitaminosis
 Hypovolaemia Hypoxia IIIrd nerve paralysis Idiopathic
 thrombocytopenic purpura Ileitis Ileus paralytic Ill-defined
 disorder Illusion Immobile Immune system disorder
 Immunoglobulins increased Impaired gastric emptying
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Increased tendency to bruise Induration Infarction
 Infected cyst Infection Infection susceptibility increased
 Infertility female Infestation Inflammation Influenza
 Influenza like illness Inguinal hernia Initial insomnia
 Injection site mass Injection site pain Injection site
 phlebitis Injection site reaction Inner ear disorder
 Insomnia Intention tremor Intentional self-injury
 Intermittent claudication Interstitial lung disease
 Intervertebral disc degeneration Intervertebral disc disorder
 Intervertebral disc protrusion Intervertebral discitis
 Intestinal functional disorder Intestinal ischaemia
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Intraocular pressure increased Iritis
 Iron deficiency Iron deficiency anaemia Irritability
 Irritable bowel syndrome Ischaemia Ischaemic hepatitis
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint effusion Joint range of motion decreased Joint
 stiffness Joint swelling Judgement impaired Keratitis
 Keratoconjunctivitis sicca Keratopathy Ketoacidosis
 Ketosis Laboratory test abnormal Labyrinthitis
 Lacrimal disorder Lacrimation decreased Lacrimation increased
 Lactose intolerance Large intestinal haemorrhage Laryngeal
 cancer Laryngeal disorder Laryngeal neoplasm Laryngeal
 oedema Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Leriche syndrome Lethargy Leukaemia Leukaemoid
 reaction Leukocytoclastic vasculitis Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichenoid keratosis Lip and/or oral cavity cancer Lip
 blister Lip dry Lip swelling Lipoma Livedo
 reticularis Liver disorder Liver function test abnormal Liver
 injury Liver tenderness Lividity Lobar pneumonia Localised
 infection Localised oedema Logorrhoea Loss of consciousness Loss
 of libido Lower respiratory tract infection Lung adenocarcinoma
 stage I Lung cancer metastatic Lung disorder Lung infiltration
 Lung neoplasm malignant Lymphadenitis Lymphadenopathy
 Lymphatic disorder Lymphocyte count abnormal Lymphocytic
 leukaemia Lymphocytosis Lymphoedema Lymphoma Lymphopenia
 Macular degeneration Macule Maculopathy Major depression
 Malaise Male sexual dysfunction Malignant melanoma
 Mania Masked facies Mass Mastitis Mediastinal disorder
 Megacolon Melaena Melanocytic naevus Memory impairment
 Meningitis Menometrorrhagia Menopausal symptoms Menopause
 Menorrhagia Menstrual disorder Menstruation delayed
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metabolic
 alkalosis Metastasis Metastatic neoplasm Methaemoglobinaemia

Metrorrhagia Microcytic anaemia Micturition disorder
 Micturition urgency Middle ear disorder Middle ear
 effusion Middle insomnia Migraine with aura Migraine without
 aura Miosis Mitral valve incompetence Mobility decreased
 Monarthritits Monocytosis Mood swings Motion sickness Mouth
 ulceration Movement disorder Multiple myeloma Muscle atrophy
 Muscle contractions involuntary Muscle contracture
 Muscle enzyme increased Muscle haemorrhage Muscle
 relaxant therapy Muscle rigidity Muscle spasms Muscle tightness
 Muscle twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Mutism
 Myalgia Myasthenic syndrome Mydriasis Myelitis
 Myocardial infarction Myocardial ischaemia Myocarditis
 Myoclonus Myopathy Myopia Myositis Nail
 discolouration Nail disorder Nail infection Narcolepsy Nasal
 congestion Nasal disorder Nasal dryness Nasal oedema Nasal
 polyps Nasopharyngitis Nausea Neck pain Necrosis
 Necrosis ischaemic Negativism Neoplasm malignant
 Neoplasm prostate Neoplasm recurrence Neoplasm skin
 Nephritis Nephrolithiasis Nephropathy Nephrotic syndrome
 Nerve root lesion Nervous system disorder Nervousness
 Neuralgia Neuritis Neurodermatitis Neurogenic bladder
 Neuroleptic malignant syndrome Neurological symptom
 Neuroma Neuropathy peripheral Neurosis Neutropenia
 Neutrophil count decreased Neutrophil count increased Night
 blindness Night sweats Nightmare Nocturia Nodal arrhythmia
 Nodule Normochromic normocytic anaemia Nuchal rigidity
 Nystagmus Obesity Obsessive thoughts Obstruction
 Obstructive airways disorder Ocular hyperaemia Oculogyric crisis
 Oedema Oedema peripheral Oesophageal achalasia Oesophageal
 carcinoma Oesophageal disorder Oesophageal spasm Oesophageal
 stenosis Oesophageal ulcer Oesophagitis Oligomenorrhoea
 Oliguria Onychomycosis Opisthotonus Optic neuritis
 Oral candidiasis Oral herpes Oral neoplasm benign Oral pain
 Orchitis noninfective Orgasm abnormal Oropharyngeal
 discomfort Oropharyngeal pain Oropharyngeal spasm Orthostatic
 hypotension Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Osteoporotic fracture Otitis externa Otitis media
 Otitis media chronic Ovarian cancer Ovarian cyst
 Ovarian disorder Pain Pain in extremity Pain in jaw Pallor
 Palpitations Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Papilloma Paraesthesia oral Paralysis Paranoia
 Parasomnia Paresis Parkinsonian gait Parkinsonism
 Paronychia Parosmia Parotid gland enlargement
 Pathological fracture Pathological gambling Pelvic pain Penis
 disorder Peptic ulcer Pericardial effusion Pericarditis
 constrictive Perineal pain Periodontitis Periorbital
 oedema Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Peritoneal adhesions Peritonitis Peroneal nerve
 palsy Personality disorder Petechiae Petit mal epilepsy
 Phaeochromocytoma Pharyngeal disorder Pharyngeal erythema
 Pharyngeal oedema Pharyngitis Phlebitis Phlebitis superficial

Phobia Phonological disorder Photophobia Photopsia
 Photosensitivity allergic reaction Photosensitivity reaction
 Pigmentation disorder Piloerection Pituitary tumour
 benign Plasmacytoma Platelet count decreased Pleural
 disorder Pleural effusion Pleural fibrosis Pleurisy Pneumonia
 Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polyarteritis nodosa
 Polycythaemia Polydipsia Polymenorrhoea Polymyalgia
 rheumatica Polyp Polyuria Porphyria Post procedural infection
 Postmenopausal haemorrhage Postpartum disorder Postural
 orthostatic tachycardia syndrome Posture abnormal Pre-eclampsia
 Precocious puberty Pregnancy test false positive
 Pregnancy test positive Premature baby Premature
 delivery Premature ejaculation Premenstrual syndrome Pressure of
 speech Presyncope Priapism Proctalgia Productive cough
 Prolactinoma Prostate cancer Prostatic adenoma Prostatic
 disorder Prostatitis Protein urine present Proteinuria Protrusion
 tongue Prurigo Pruritus Pruritus generalised Pruritus
 genital Pseudolymphoma Psoriasis Psychiatric symptom
 Psychomotor retardation Psychosomatic disease Psychotic
 behaviour Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary hypertension Pulmonary oedema
 Pulse absent Pupils unequal Purpura Pyelonephritis
 Pyoderma Pyuria Rales Rash erythematous Rash generalised
 Rash maculo-papular Rash papular Rash pustular Rash
 vesicular Raynaud's phenomenon Rectal cancer Rectal
 haemorrhage Rectal tenesmus Red blood cell abnormality Red blood
 cell count decreased Red blood cell sedimentation rate increased
 Reflux oesophagitis Regressive behaviour Regurgitation
 Renal artery stenosis Renal colic Renal cyst Renal failure
 acute Renal impairment Renal neoplasm Renal pain Reproductive
 tract disorder Respiratory alkalosis Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory tract congestion
 Respiratory tract infection Respiratory tract infection viral
 Restless legs syndrome Retching Retinal artery occlusion
 Retinal detachment Retinal disorder Retinal haemorrhage
 Retinal vascular disorder Retinitis pigmentosa Retrograde
 ejaculation Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
 Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
 Saliva altered Salivary duct obstruction Salivary gland
 disorder Salivary gland enlargement Salivary hypersecretion
 Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
 disorder Schizophrenia Schizophreniform disorder Sciatica
 Scleral disorder Scleritis Scotoma Seasonal allergy
 Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of foreign body Sensation of heaviness Sensory
 disturbance Sensory loss Sepsis Septic shock Serum
 sickness Severe acute respiratory syndrome Sexual dysfunction
 Shock Sialoadenitis Sicca syndrome Sick sinus syndrome
 Sinus arrhythmia Sinus bradycardia Sinus congestion Sinus
 disorder Sinus headache Sinus tachycardia Sinusitis Skin
 burning sensation Skin cancer Skin discolouration Skin disorder

Skin exfoliation Skin hyperpigmentation Skin hypertrophy Skin
 infection Skin irritation Skin lesion Skin mass Skin odour
 abnormal Skin papilloma Skin striae Skin ulcer Sleep apnoea
 syndrome Sleep attacks Sleep disorder Sleep paralysis Sleep
 talking Sluggishness Small intestinal obstruction Sneezing
 Snoring Social avoidant behaviour Somnambulism
 Somnolence Speech disorder Sphincter of Oddi dysfunction
 Spinal osteoarthritis Spine malformation Splenomegaly
 Spondylitis Sputum increased Squamous cell carcinoma
 Status epilepticus Stevens-Johnson syndrome Sticky skin
 Stomach dilation procedure Stomatitis Strabismus Stress
 Stridor Stupor Subarachnoid haemorrhage
 Subcutaneous abscess Subcutaneous nodule Subdural
 haematoma Subileus Sudden death Suicidal ideation Suicide
 attempt Superior sagittal sinus thrombosis Supraventricular
 extrasystoles Supraventricular tachycardia Surgery
 Suspiciousness Swelling Swelling face Swollen tongue
 Syncope Synostosis Synovitis Systemic lupus erythematosus
 Tachycardia Tachypnoea Tardive dyskinesia Tearfulness
 Telangiectasia Tenderness Tendinous contracture Tendonitis
 Tenosynovitis Tension Tension headache Teratogenicity
 Terminal insomnia Testicular disorder Testicular pain
 Testicular swelling Tetany Therapeutic response
 decreased Therapeutic response increased Thinking abnormal
 Thirst Thought blocking Throat irritation Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid adenoma Thyroid cancer Thyroid neoplasm
 Thyroiditis Tic Tinnitus Tongue coated Tongue
 discolouration Tongue disorder Tongue dry Tongue oedema
 Tongue paralysis Tongue spasm Tongue ulceration Tonsillar
 hypertrophy Tonsillitis Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Tooth malformation Toothache
 Torsade de pointes Torticollis Toxic epidermal necrolysis
 Tracheal disorder Tracheobronchitis Transaminases increased
 Transient ischaemic attack Tremor Trismus Tuberculin
 test positive Tubulointerstitial nephritis Ulcer Ulcer haemorrhage
 Ulcerative keratitis Umbilical hernia Unevaluable event
 Unintended pregnancy Unresponsive to stimuli Upper
 respiratory tract infection Upper-airway cough syndrome Urethral
 disorder Urethral pain Urethritis Urinary hesitation
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Urinary tract obstruction Urine
 abnormality Urine analysis abnormal Urine flow decreased Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine inflammation Uterine leiomyoma Uterine neoplasm
 Uterine spasm Uterovaginal prolapse VIIIth nerve paralysis
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular headache
 Vascular insufficiency Vascular purpura Vasculitis
 Vasoconstriction Vasodilation procedure Vasospasm Vein
 disorder Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular failure Ventricular fibrillation
 Ventricular hypertrophy Ventricular tachycardia
 Vertigo Vestibular ataxia Vestibular disorder Viral

diarrhoea Viral infection Vision blurred Visual acuity reduced
Visual impairment Vitamin B12 deficiency Vitreous detachment
Vitreous floaters Vocal cord paralysis Vomiting Vulval
disorder Vulvovaginal candidiasis Vulvovaginal dryness
Vulvovaginal mycotic infection Vulvovaginal pruritus
Vulvovaginitis Water intoxication Waxy flexibility
Weight decreased Weight fluctuation Weight increased
Wheezing White blood cell count decreased White blood cell
count increased White blood cell disorder White blood cells
urine positive Withdrawal bleed Withdrawal syndrome Wound
infection Xerophthalmia Xerosis Yawning

System N amino acid transporter 1 - Group: Transporter

Treated with:

l-histidine: approved, nutraceutical small molecule (0 associated side effects) The actions of supplemental L-histidine are entirely unclear. It may have some immunomodulatory as well as antioxidant activity. L-histidine may be indicated for use in some with rheumatoid arthritis. It is not indicated for treatment of anemia or uremia or for lowering serum cholesterol.

l-glutamine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

l-asparagine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

known side effects mediated through drugs targeting this protein:

Excitatory amino acid transporter 3 - Group: Transporter

Treated with:

l-aspartic acid: approved, nutraceutical small molecule (0 associated side effects) There is no support for the claim that aspartates are exercise performance enhancers, i.e. ergogenic aids.

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Solute carrier organic anion transporter family member 4A1 - Group: Transporter

Treated with:

liothyronine: approved small molecule (0 associated side effects) Used as replacement or supplemental therapy in patients with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

digoxin: approved small molecule (56 associated side effects) For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

penicillin g: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

liotrix: approved small molecule (0 associated side effects) May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

taurocholic acid: experimental small molecule (0 associated side effects)

257 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal pain Abscess Acne Acute coronary syndrome
Affect lability Agitation Alopecia Amenorrhoea
Anaphylactic shock Anaphylactoid reaction Angioedema
Angiopathy Anxiety Apathy Arrhythmia Arthralgia
Arthropathy Asthenia Asthma Atrial tachycardia
Atrioventricular block complete Atrioventricular block first degree
Atrioventricular block second degree Atrioventricular dissociation
Back pain Benign neoplasm Bladder pain
Blindness Blood glucose decreased Blood glucose increased
Blood pressure increased Blood triglycerides

increased Body temperature increased Bone disorder Bone pain
 Bradycardia Breast discharge Breast discomfort Breast disorder
 Breast enlargement Breast mass Breast neoplasm Breast pain
 Breast swelling Breast tenderness Bronchitis Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardioactive drug level Cerebrovascular accident
 Cervical discharge Cervix disorder Chest pain Chills
 Chloasma Chorea Colitis ischaemic Conduction disorder
 Confusional state Conjunctivitis Connective tissue disorder
 Constipation Coronary artery thrombosis Cough Cystitis
 Cystitis noninfective Death Decreased appetite Deep vein
 thrombosis Delirium Depression Dermatitis Diarrhoea Discomfort
 Dissociation Dizziness Drug interaction Dry eye
 Dysmenorrhoea Dyspepsia Dysplasia Dyspnoea Dysuria
 Ear pain Ecchymosis Ectropion of cervix Electrocardiogram
 PR prolongation Electrocardiogram ST segment Electrocardiogram ST
 segment depression Electrocardiogram change Embolism
 Embolism venous Endometrial cancer Endometrial
 hypertrophy Endometriosis Epilepsy Erythema Erythema
 multiforme Erythema nodosum Extrasystoles Eye disorder
 Fatigue Feeling abnormal Fibrocystic breast disease Flat
 affect Flatulence Fluid retention Galactorrhoea Gallbladder
 disorder Gastrointestinal disorder Gastrointestinal necrosis
 Gastrointestinal pain Generalised oedema Genital discharge
 Glucose tolerance decreased Glucose tolerance impaired
 Gynaecomastia Haemangioma Haemoptysis Haemorrhagic disorder
 Hallucination Headache Hepatic function abnormal
 Hepatobiliary disease Hirsutism Hypercalcaemia
 Hyperglycaemia Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypoaesthesia
 Hypocalcaemia Hypotension Hypothyroidism Infarction
 Infection Influenza Injection site pain Insomnia
 Intestinal ischaemia Irritability Ischaemia Jaundice
 Jaundice cholestatic Lacrimal disorder Lacrimation increased
 Laryngitis Leiomyoma Loss of consciousness Mass Meningioma
 benign Menorrhagia Menstrual disorder Mental disorder
 Mesenteric vascular insufficiency Metrorrhagia Migraine
 Mood swings Mouth ulceration Muscle rigidity Muscle spasms
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Nausea Neck pain Necrosis Neoplasm Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Nipple pain
 Nodule Nuchal rigidity Oedema Oedema peripheral Optic
 neuritis Osteoarthritis Ovarian cancer Pain in extremity
 Palpitations Pancreatitis Paraesthesia Pelvic pain
 Pharyngitis Phlebitis Pigmentation disorder Poisoning
 Pollakiuria Porphyria Precocious puberty Pruritus genital
 Psychotic disorder Puberty Pulmonary embolism
 Pulmonary function test decreased Purpura Rash generalised
 Rash maculo-papular Respiratory depression Respiratory tract
 infection Rhinitis Sensory loss Shock Sinus bradycardia
 Sinusitis Smear cervix abnormal Somnolence Stomatitis
 Subcutaneous nodule Swelling Syncope Tachycardia
 Tenderness Tension Thrombocytopenia Thrombophlebitis

superficial Thrombosis Tooth abscess Ulcer Upper respiratory
tract infection Urethral disorder Urinary tract disorder Urticaria
Uterine cancer Uterine cervical erosion Uterine leiomyoma
Uterine spasm Vaginal haemorrhage Varicose vein
Vasodilation procedure Venous thrombosis Ventricular
extrasystoles Ventricular fibrillation Ventricular
tachycardia Vertigo Visual acuity reduced Visual impairment
Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
infection Vulvovaginal pruritus Weight increased Withdrawal bleed
Xanthopsia

Photoreceptor outer segment all-trans retinol dehydrogenase - Group:
Enzyme

Treated with:

vitamin a: approved, nutraceutical small molecule (18 associated
side effects) For the treatment of vitamin A deficiency.

18 known side effects mediated through drugs targeting this protein:

Agitation Anaphylactic shock Anaphylactoid reaction Angioedema
Anxiety Death Dermatitis Diplopia Dizziness Dyspnoea
Erythema Headache Hypersensitivity Pruritus Rash Shock
Urticaria Wheezing

Peroxisome proliferator-activated receptor delta - Group: Receptor
Treated with:

icosapent: approved, nutraceutical small molecule (0 associated
side effects) EPA can be used for lowering elevated triglycerides
in those who are hyperglyceridemic. In addition, EPA may play a
therapeutic role in patients with cystic fibrosis by reducing
disease severity and may play a similar role in type 2 diabetics in
slowing the progression of diabetic nephropathy.

treprostinil: approved small molecule (92 associated side
effects) For use as a continuous subcutaneous infusion or
intravenous infusion (for those not able to tolerate a subcutaneous
infusion) for the treatment of pulmonary arterial hypertension in
patients with NYHA Class II-IV symptoms to diminish symptoms
associated with exercise.

sulindac: approved small molecule (148 associated side
effects) For acute or long-term use in the relief of signs and
symptoms of osteoarthritis, rheumatoid arthritis, ankylosing
spondylitis, acute painful shoulder (acute subacromial
bursitis/supraspinatus tendinitis), and acute gouty arthritis.

bezafibrate: approved small molecule (57 associated side
effects) For the treatment of primary hyperlipidaemia types IIa,
IIb, III, IV and V (Fredrickson classification) corresponding to
groups I, II and III of the European Atherosclerosis Society
guidelines - when diet alone or improvements in lifestyle such as
increased exercise or weight reduction do not lead to an adequate
response. Also for the treatment of secondary hyperlipidaemias, e.g.
severe hypertriglyceridemias, when sufficient improvement does not
occur after correction of the underlying disorder (e.g. diabetes
mellitus).

heptyl-beta-d-glucopyranoside: experimental small molecule
(0 associated side effects)
(11e)-octadec-11-enoic acid: experimental small molecule (0
associated side effects)
(2s)-2-{3-[(2-fluoro-4-(trifluoromethyl)phenyl)carbonyl]amino)methyl}-4-
methoxybenzyl}butanoic acid: experimental small molecule (0
associated side effects)
2-({3-(3,4-dihydroisoquinolin-2(1h)-
ylsulfonyl)phenyl}carbonyl)amino)benzoic acid: experimental
small molecule (0 associated side effects)
3-{5-methoxy-1-[(4-methoxyphenyl)sulfonyl]-1h-indol-3-yl}propanoic
acid: experimental small molecule (0 associated side effects)
{4-[3-(4-acetyl-3-hydroxy-2-propylphenoxy)propoxy]phenoxy}acetic
acid: experimental small molecule (0 associated side effects)

211 known side effects mediated through drugs targeting this
protein:

Abdominal pain Acute coronary syndrome Acute psychosis
Ageusia Agranulocytosis Alanine aminotransferase increased
Alopecia Anaemia Anaphylactic shock Angioedema
Anxiety Aplastic anaemia Arrhythmia Arthralgia Aspartate
aminotransferase increased Asthenia Back pain Blood alkaline
phosphatase increased Blood creatine phosphokinase increased Blood
creatinine increased Blood culture positive Body temperature
increased Bone pain Bradycardia Bronchitis Bronchospasm
Cardiac failure Cardiac failure congestive Cellulitis
Cellulitis gangrenous Chest pain Chills Cholecystitis
Cholelithiasis Cholestasis Chromaturia Colitis Coma
Conjunctivitis Connective tissue disorder Constipation
Convulsion Cough Crystal urine Crystalluria Deafness
Decreased appetite Dehydration Depressed level of
consciousness Dermatitis Dermatitis exfoliative Diarrhoea
Discomfort Disease progression Disseminated intravascular
coagulation Dizziness Drug rash with eosinophilia and systemic
symptoms Dysgeusia Dyspepsia Dyspnoea Dysuria Ecchymosis
Eczema Effusion Embolism Eosinophilia Epistaxis
Erectile dysfunction Erythema Erythema multiforme
Fasciitis Fatigue Feeling abnormal Flatulence Flushing
Gastric disorder Gastritis Gastroenteritis Gastrointestinal
haemorrhage Gastrointestinal pain Gastrointestinal perforation
Glossitis Gout Gynaecomastia Haematoma Haematuria
Haemoglobin Haemolytic anaemia Haemoptysis Haemorrhage
Headache Hearing impaired Hepatic failure Hepatic function
abnormal Hepatitis Hyperglycaemia Hyperhidrosis
Hyperkalaemia Hypersensitivity Hypertension
Hypokalaemia Hypotension Hypoxia Ill-defined disorder
Induration Infection Influenza Infusion site reaction
Insomnia Jaundice Leukocytoclastic vasculitis
Leukocytosis Leukopenia Liver function test abnormal Loss
of consciousness Lymphadenitis Malaise Melaena Meningitis
Meningitis aseptic Migraine Mixed connective tissue
disease Muscle spasms Muscular weakness Musculoskeletal
discomfort Myalgia Myocardial infarction Myositis Nausea
Neck pain Necrotising fasciitis Nephritis Nephrolithiasis

Nephrotic syndrome Nervousness Neuritis Neuropathy
 peripheral Neutropenia Oedema Oedema peripheral Oropharyngeal
 pain Pain Pain in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancytopenia Paraesthesia Peptic
 ulcer Pharyngitis Photosensitivity reaction Pleural disorder
 Pleural effusion Pneumonia Protein urine present Proteinuria
 Prothrombin level increased Pruritus Pseudomonal sepsis
 Pseudomonas infection Psychotic disorder Pulmonary
 embolism Pulmonary hypertension Purpura Rash Rectal
 haemorrhage Renal failure Renal failure acute Renal impairment
 Retinal disorder Rhabdomyolysis Rhinitis Sepsis Shock
 Sinusitis Somnolence Stomatitis Stupor Swelling
 Syncope Systemic lupus erythematosus Tachycardia Tenderness
 Tenosynovitis Tension Throat irritation Thrombocytopenia
 Thrombophlebitis Thrombosis Tinnitus Toxic epidermal
 necrolysis Transaminases increased Tubulointerstitial nephritis
 Ulcer Urethral disorder Urinary tract disorder Urinary tract
 infection Urine colour abnormal Urine output Urticaria
 Vaginal haemorrhage Vascular purpura Vasculitis
 Vasodilation procedure Vertigo Viral infection Vision
 blurred Visual impairment Vomiting Wheezing

ABC transporter, periplasmic substrate-binding protein - Group:
 Transporter
 Treated with:
 1-methoxy-2-[2-(2-methoxy-ethoxy)-ethane]: experimental small
 molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Calcitonin receptor - Group: Receptor
 Treated with:
 salmon calcitonin: approved biotech (165 associated side
 effects) For the treatment of post-menopausal osteoporosis
 pramlintide: approved biotech (17 associated side effects)
 For the treatment of type 1 and type 2 diabetes mellitus as an
 adjunct to preprandial insulin therapy in patients without adequate
 glycemic control of insulin therapy.

167 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Agitation Alopecia
 Anaemia Anaphylactic shock Anaphylactoid reaction
 Angina pectoris Angiopathy Anxiety Aortic dissection
 Arrhythmia Arthralgia Arthritis Arthropathy Asthenia Back
 pain Bladder pain Blindness Body temperature increased
 Breath sounds abnormal Bronchitis Bronchospasm Bundle
 branch block Cardiovascular disorder Cataract
 Cerebrovascular accident Chest pain Chills
 Cholelithiasis Congenital eye disorder Conjunctivitis
 Constipation Cough Crocodile tears syndrome Cystitis
 Cystitis noninfective Deafness Death Decreased appetite

Dermatitis Diarrhoea Discomfort Dizziness Dry mouth Dry
 skin Dysgeusia Dyspepsia Dysphonia Dyspnoea Ear disorder
 Ear pain Eczema Epistaxis Erythema Eye disorder
 Fatigue Feeling hot Flatulence Flushing Gastritis
 Gastrointestinal disorder Gastrointestinal pain Glaucoma
 Goitre Haematuria Haemoglobin Haemorrhage Headache
 Hearing impaired Hepatitis Hot flush Hypercalcaemia
 Hyperhidrosis Hyperparathyroidism Hyperparathyroidism
 secondary Hypersensitivity Hypertension Hyperthyroidism
 Hypocalcaemia Hypoglycaemia Hypotension Immune system
 disorder Increased appetite Infarction Infection Infestation
 Influenza Injection site reaction Insomnia Lacrimal
 disorder Lacrimation increased Lymphadenopathy Mediastinal
 disorder Menopausal symptoms Migraine Musculoskeletal
 discomfort Musculoskeletal stiffness Myalgia Myocardial
 infarction Nasal congestion Nasal discomfort Nasal dryness Nasal
 mucosal disorder Nasal odour Nasal oedema Nasal polyps Nasal
 septum ulceration Nausea Nephrolithiasis Nervous system
 disorder Neuralgia Obstruction Oedema Osteoarthritis
 Osteoporotic fracture Pain in extremity Pallor
 Palpitations Paraesthesia Parosmia Periorbital
 oedema Pharyngitis Pneumonia Polymyalgia rheumatica Polyp
 Polyuria Pruritus Purpura Pyelonephritis Rales Rash
 erythematous Rash generalised Renal tubular disorder Respiratory
 tract infection Rhinitis allergic Rhinitis ulcerative Scab Shock
 Sinusitis Skin disorder Skin ulcer Sneezing Somnolence
 Swelling Swollen tongue Tachycardia Tenderness Tetany
 Thirst Thrombophlebitis Tinnitus Ulcer Upper respiratory
 tract infection Urine abnormality Urine analysis abnormal Urine
 output increased Vascular purpura Vertigo Vestibular disorder
 Vision blurred Visual acuity reduced Visual impairment
 Vitreous floaters Vomiting Weight increased Wound haemorrhage

Mu-type opioid receptor - Group: Receptor

Treated with:

tramadol: approved small molecule (490 associated side effects) Indicated in the treatment of moderate to severe pain. Consider for those prone to constipation or respiratory depression. Tramadol is used to treat postoperative, dental, cancer, and acute musculoskeletal pain and as an adjuvant to NSAID therapy in patients with osteoarthritis.

morphine: approved small molecule (208 associated side effects) For the relief and treatment of severe pain.

codeine: illicit, approved small molecule (43 associated side effects) For treatment and management of pain (Systemic), also used as an Antidiarrheal and as a cough suppressant.

hydromorphone: illicit, approved small molecule (355 associated side effects) For the relief of moderate to severe pain such as that due to surgery, cancer, trauma/injury, or burns.

methadone: approved small molecule (87 associated side effects) For the treatment of dry cough, drug withdrawal syndrome, opioid type drug dependence, and pain.

oxycodone: illicit,approved small molecule (215 associated side effects) For the treatment of diarrhoea, pulmonary oedema and for the relief of moderate to moderately severe pain.

levallorphan: approved small molecule (0 associated side effects) For the complete or partial reversal of narcotic depression, including respiratory depression, induced by opioids.

butorphanol: illicit,approved small molecule (122 associated side effects) For the relief of moderate to severe pain.

propoxyphene: illicit,approved small molecule (79 associated side effects) For the relief of mild to moderate pain

pentazocine: approved small molecule (51 associated side effects) For the relief of moderate to severe pain.

naltrexone:approved small molecule (238 associated side effects) Used as an adjunct to a medically supervised behaviour modification program in the maintenance of opiate cessation in individuals who were formerly physically dependent on opiates and who have successfully undergone detoxification. Also used for the management of alcohol dependence in conjunction with a behavioural modification program.

sufentanil:approved small molecule (38 associated side effects) Used as an analgesic adjunct in anesthesia and as a primary anesthetic drug in procedures requiring assisted ventilation and in the relief of pain.

alfentanil:illicit,approved small molecule (36 associated side effects) For the management of postoperative pain and the maintenance of general anesthesia.

fentanyl: illicit,approved small molecule (393 associated side effects) For the treatment of cancer patients with severe pain that breaks through their regular narcotic therapy.

loperamide:approved small molecule (41 associated side effects) For the control and symptomatic relief of acute nonspecific diarrhea and of chronic diarrhea associated with inflammatory bowel disease or gastroenteritis. Also used for reducing the volume of discharge from ileostomies.

nalbuphine:approved small molecule (68 associated side effects) For the relief of moderate to severe pain.

levorphanol: approved small molecule (0 associated side effects) For the management of moderate to severe pain or as a preoperative medication where an opioid analgesic is appropriate

remifentanyl: approved small molecule (134 associated side effects) For use during the induction and maintenance of general anesthesia.

ondansetron: approved small molecule (122 associated side effects) For the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy, postoperation, and radiation. Also used for the treatment of postoperative nausea and vomiting.

anileridine: illicit,approved small molecule (0 associated side effects) For treatment and management of pain (systemic) and for use as an anesthesia adjunct.

buprenorphine: illicit,approved small molecule (170 associated side effects) For the treatment of moderate to severe pain, peri-operative analgesia, and opioid dependence.

hydrocodone: illicit,approved small molecule (0 associated side effects) For relief of moderate to moderately severe pain.

Also used for the symptomatic relief of nonproductive cough, alone or in combination with other antitussives or expectorants.

diphenoxylate: illicit,approved small molecule (0 associated side effects) For as adjunctive therapy in the management of diarrhea

naloxone: approved small molecule (54 associated side effects)

For the complete or partial reversal of narcotic depression, including respiratory depression, induced by opioids including natural and synthetic narcotics, propoxyphene, methadone and the narcotic-antagonist analgesics: nalbuphine, pentazocine and butorphanol.

oxymorphone: approved small molecule (0 associated side effects) For the treatment of moderate-to-severe pain.

dezocine: approved small molecule (0 associated side effects)

Indicated in the treatment of moderate to severe pain.

levomethadyl acetate: approved small molecule (0 associated side effects) For the treatment and management of opiate dependence. It is sometimes used to treat severe pain in terminal patients.

3-methylthiofentanyl: illicit,experimental small molecule (0 associated side effects)

dimethylthiambutene: illicit,experimental small molecule (0 associated side effects) Dimethylthiambutene is an opioid analgesic previously used in moderate pain relief.

heroin: illicit,experimental small molecule (0 associated side effects) Used in the treatment of acute pain, myocardial infarction, acute pulmonary oedema, and chronic pain.

ethylmorphine: illicit,approved small molecule (0 associated side effects) Ethylmorphine is an analgesic used for pain relief.

etorphine: illicit,experimental small molecule (0 associated side effects)

carfentanil: illicit,experimental small molecule (0 associated side effects) Carfentanil is similar (but more potent) to the opioid analgesic fentanyl. It is used as a tranquilizer for large animals.

diprenorphine: illicit,experimental small molecule (0 associated side effects) Diprenorphine is used to reverse the effects of the super-potent opioid analgesics such as etorphine and carfentanil that are used for tranquilizing large animals in veterinary medicine. Not used in humans.

dihydromorphine: illicit,experimental small molecule (0 associated side effects) Dihydromorphine is an opioid analgesic used for moderate to severe pain relief.

3-methylfentanyl:illicit,experimental small molecule (0 associated side effects)

alvimopan: approved small molecule (12 associated side effects)

Used to accelerate the time to upper and lower gastrointestinal recovery following partial large or small bowel resection surgery with primary anastomosis. Also investigated for use in the treatment of pain (acute or chronic).

825 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
Abdominal pain upper Abdominal tenderness Abnormal

behaviour Abnormal dreams Abnormal faeces Abortion missed
Abscess Accommodation disorder Acidosis Acne Acute
coronary syndrome Acute myocardial infarction Adrenal insufficiency
Affect lability Ageusia Aggression Agitation
Agranulocytosis Akathisia Alanine aminotransferase decreased
Alanine aminotransferase increased Albuminuria Alcohol abuse
Alcohol poisoning Alcohol withdrawal syndrome Alcoholism
Alopecia Altered state of consciousness Amblyopia
Amenorrhoea Amnesia Anaemia Anal fissure Analgesic
therapy Anaphylactic shock Anaphylactoid reaction Aneurysm
Angina pectoris Angina unstable Angioedema Angiopathy
Anogenital dysplasia Anorectal disorder Anorgasmia
Anosmia Anxiety Aortic aneurysm Aortic dissection
Apathy Aphasia Aphthous stomatitis Apnoea
Appendicitis Appetite disorder Application site reaction
Arrhythmia Arterial occlusive disease Arteriosclerosis
Arteriosclerosis coronary artery Arthralgia Arthritis
Arthropathy Ascites Aspartate aminotransferase increased
Asthma Asthma Ataxia Atelectasis Atrial
fibrillation Atrial flutter Atrioventricular block complete
Atrioventricular block first degree Atrioventricular block
second degree Atrophy Azotaemia Back disorder Back pain
Bacterial infection Balance disorder Bedridden Benign
breast neoplasm Bezoar Biliary colic Biliary tract disorder
Bipolar I disorder Bipolar disorder Bladder pain
Bladder spasm Bleeding time prolonged Blepharitis
Blindness Blindness transient Blister Blood alkaline
phosphatase increased Blood amylase increased Blood bilirubin
increased Blood cholesterol increased Blood creatine phosphokinase
increased Blood creatinine increased Blood creatinine normal
Blood glucose abnormal Blood glucose increased Blood
lactate dehydrogenase increased Blood potassium abnormal Blood
potassium decreased Blood potassium increased Blood pressure
fluctuation Blood pressure increased Blood sodium increased Blood
testosterone decreased Blood triglycerides increased Blood urea
increased Blood uric acid increased Body temperature decreased
Body temperature increased Bone disorder Bone pain
Bradycardia Brain cancer metastatic Breast cancer
Breast disorder Breast neoplasm Breast pain Breath odour
Breath sounds abnormal Bronchitis Bronchospasm Burning
sensation Bursitis Cachexia Cancer in remission Cancer pain
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiac flutter Cardiac murmur
Cardiac output decreased Cardio-respiratory arrest
Cardiomegaly Cardiomyopathy Cardiovascular disorder
Carpal tunnel syndrome Cataract Cellulitis Cerebral
infarction Cerebral ischaemia Cerebrovascular accident
Cerumen impaction Change of bowel habit Cheilitis Chest
discomfort Chest pain Chills Choking Cholangitis
Cholecystitis Cholecystitis acute Cholelithiasis
Cholestasis Chronic hepatitis Chronic obstructive pulmonary
disease Clonic convulsion Coagulopathy Cognitive disorder
Cold sweat Colitis Colitis ulcerative Coma Completed
suicide Compression fracture Confusional state Conjunctivitis

Connective tissue disorder Constipation Convulsion
 Coordination abnormal Cough Cough decreased Crying
 Crystal urine Crystalluria Cyanosis Cystitis
 Cystitis noninfective Cytolytic hepatitis Deafness
 Deafness permanent Deafness transitory Death Decreased
 appetite Decubitus ulcer Deep vein thrombosis Deficiency
 anaemia Dehydration Delirium Delusion Dementia Dental
 caries Dependence Depersonalisation Depressed level of
 consciousness Depressed mood Depression Derealisation
 Dermal cyst Dermatitis atopic Dermatitis bullous Dermatitis
 contact Dermatitis exfoliative Dermoid cyst Diabetes mellitus
 Diarrhoea Diplopia Discomfort Disorientation Disturbance
 in attention Disturbance in sexual arousal Diverticulitis
 Diverticulum Dizziness Drug abuse Drug dependence Drug
 hypersensitivity Drug interaction Drug tolerance Drug withdrawal
 syndrome Drug withdrawal syndrome neonatal Dry eye Dry mouth
 Dry skin Dry throat Duodenitis Dysarthria Dyschezia
 Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
 Dysphonia Dysphoria Dyspnoea Dyspnoea exertional
 Dystonia Dysuria Ear congestion Ear discomfort Ear
 disorder Ear infection Ear pain Early satiety Ecchymosis
 Eczema Effusion Ejaculation delayed Ejaculation
 disorder Electrocardiogram QT prolonged Electrocardiogram ST
 segment depression Electrocardiogram abnormal Electrocardiogram
 change Electrolyte imbalance Embolism Emotional disorder
 Emotional distress Encephalopathy Endocarditis
 Endocrine disorder Endometrial sarcoma Energy increased
 Enterocolitis Eosinophil count increased Eosinophilia
 Eosinophilic pneumonia Epistaxis Erectile dysfunction
 Eructation Erysipelas Erythema Erythema multiforme
 Euphoric mood Eustachian tube disorder Exostosis
 Extrapyrmidal disorder Extrasystoles Eye disorder
 Eye haemorrhage Eye pain Eye swelling Eyelid disorder
 Eyelid ptosis Face oedema Faecal incontinence Faecalith
 Faecaloma Faeces discoloured Fasciitis Fatigue Fear
 Feeling abnormal Feeling cold Feeling drunk Feeling hot
 Feeling jittery Feeling of body temperature change Flank pain
 Flat affect Flatulence Fluid retention Flushing Foetor
 hepaticus Frequent bowel movements Fungal infection Gait
 disturbance Gamma-glutamyltransferase increased Gastric atony
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal motility disorder Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital disorder female
 Gingival bleeding Gingival pain Gingival ulceration
 Gingivitis Glossitis Glossodynia Gout Grand mal convulsion
 Granuloma Groin pain Gynaecomastia HIV infection
 Haematemesis Haematochezia Haematocrit decreased
 Haematocrit increased Haematoma Haematuria Haemoglobin
 decreased Haemoglobin increased Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhoids Hair disorder Hallucination
 Hangover Headache Hearing impaired Heat rash
 Helicobacter infection Hemiplegia Hepatic enzyme increased
 Hepatic failure Hepatic function abnormal Hepatic necrosis

Hepatic steatosisHepatitis Hepatitis C Hepatobiliary disease
 Hepatocellular injury Hepatomegaly Hepatorenal syndrome
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups High density lipoprotein decreasedHordeolum
 Hormone level abnormal Hostility Hot flush Hydronephrosis
 Hyperacusis Hyperaesthesia Hypercalcaemia Hypercalciuria
 Hypercapnia Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hyperlipidaemia Hyperpathia Hyperreflexia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hyperuricaemia Hyperventilation
 Hypoaesthesia Hypoalbuminaemia Hypocalcaemia
 Hypoglycaemia Hypogonadism Hypokalaemia Hypokinesia
 Hypomagnesaemia Hyponatraemia HypophosphataemiaHypopnoea
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovolaemia
 Hypovolaemic shock Hypoxia Idiopathic thrombocytopenic
 purpura Ileus paralytic Ill-defined disorder Immune system
 disorder Impaired gastric emptying Impaired healing
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infestation Inflammation
 Influenza Influenza like illness Infusion site reaction
 Ingrowing nail Injection site haematoma Injection site
 haemorrhage Injection site pain Injection site reaction
 Injection site urticaria Insomnia Interstitial lung
 disease Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intra-uterine death Intracranial
 aneurysm Intracranial pressure increased Iron deficiency Iron
 deficiency anaemia Irritability Irritable bowel syndrome
 Ischaemia Ischaemic stroke Jaundice Jaundice cholestatic
 Joint crepitationJoint stiffness Joint swelling
 Labyrinthitis Lacrimal disorderLacrimation increased Large
 intestinal haemorrhage Large intestine perforation Laryngeal oedema
 Laryngitis Laryngospasm Leiomyoma Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Light anaesthesiaLip blisterLip pain Lip ulceration Liver
 disorder Liver function test abnormal Liver injury Liver
 tenderness Local reaction Localised infection Loss of
 consciousness Low density lipoprotein increased Lung disorder
 Lymphadenitis Lymphadenopathy Lymphocyte count decreased
 Lymphocyte count increased Lymphoedema Lymphoma Lymphopenia
 Malaise Mammogram abnormal Mediastinal disorder
 Megacolon Melaena Memory impairmentMenometrorrhagia
 Menopausal symptoms Menopause Menstrual disorder
 Menstruation irregular Mental disabilityMental disorder
 Mental retardation Mental status changes Metabolic
 acidosis Metastases to central nervous system Metastasis
 Micturition disorder Micturition urgency Migraine
 Miosis Monocyte count increased Mood swings Mouth
 ulceration Movement disorderMucosal inflammation Mucous membrane
 disorder Muscle contractions involuntary Muscle relaxant
 therapy Muscle rigidity Muscle spasms Muscle spasticity
 Muscle twitching Muscular weaknessMusculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder

Musculoskeletal pain Musculoskeletal stiffness Myalgia
Mydriasis Myocardial infarction Myocardial ischaemia
Myoclonus Myopathy Nasal congestion Nasal discomfort Nasal
oedema Nasopharyngitis Nausea Neck pain Necrosis
Neoplasm Neoplasm malignant Nephrolithiasis Nervous
system disorder Nervousness Neuralgia Neuropathy peripheral
Neutropenia Neutrophil count decreased Neutrophil count
increased Night sweats Nightmare Nocturia Nodule
Nuchal rigidity Nystagmus Obsessive-compulsive disorder
Obstruction Obstructive airways disorder Oculogyric crisis
Oedema peripheral Oesophageal disorder Oesophageal stenosis
Oesophagitis Oliguria Opisthotonus Oral candidiasis
Oral herpes Oral pain Oropharyngeal discomfort
Oropharyngeal pain Orthostatic hypotension
Osteoarthritis Osteopenia Osteoporosis Otitis externa
Otitis media Oxygen saturation decreased Pain in extremity
Pallor Palpitations Pancreatitis Pancreatitis
acute Pancytopenia Panic attack Panic reaction Papule
Paraesthesia Paralysis Paranoia Paresis Parosmia
Pathological fracture Pelvic pain Pericarditis Peripheral
coldness Peripheral ischaemia Peripheral vascular disorder
Perirectal abscess Peroneal nerve palsy Persistent
generalised lymphadenopathy Personality disorder Petechiae
Pharyngitis Pharyngitis streptococcal Phlebitis Photophobia
Photopsia Photosensitivity reaction Piloerection
Plantar fasciitis Platelet count decreased Pleural disorder
Pleural effusion Pneumonia Pneumothorax Poisoning
Pollakiuria Polyp Polyuria Poor peripheral circulation Poor
quality sleep Post procedural complication Post procedural
haemorrhage Post procedural infection Premenstrual syndrome
Presyncope Procedural pain Proctalgia Productive cough
Prolonged labour Prostatic disorder Prostatitis
Prostatomegaly Protein total decreased Protein urine
present Proteinuria Prurigo Pruritus Pruritus generalised
Pruritus genital Pseudolymphoma Psychomotor retardation
Psychotic disorder Pulmonary congestion Pulmonary
embolism Pulmonary function test decreased Pulmonary oedema
Purpura Pyelonephritis Rales Rash Rash erythematous Rash
maculo-papular Rash papular Rash pustular Rectal
haemorrhage Rectal prolapse Red blood cell count decreased Red
blood cell count increased Red blood cell sedimentation rate
increased Reflux oesophagitis Regurgitation Renal failure
Renal impairment Renal pain Respiration abnormal Respiratory
acidosis Respiratory arrest Respiratory depression Respiratory
disorder Respiratory distress Respiratory failure Respiratory
rate decreased Respiratory tract congestion Respiratory tract
infection viral Retching Retinal artery occlusion Rheumatoid
arthritis Rhinalgia Rhinitis Rhinitis allergic Rhinitis seasonal
Rhinorrhoea Rhonchi Rosacea Salivary hypersecretion
Scleral haemorrhage Scrotal oedema Seasonal allergy
Seborrhoeic dermatitis Sedation Sensory loss Sepsis
Sexual dysfunction Shock Sinus congestion Sinus headache
Sinus tachycardia Sinusitis Skin discolouration Skin
disorder Skin hyperpigmentation Skin lesion Skin reaction Skin
ulcer Sleep apnoea syndrome Sleep disorder Sluggishness Small

intestinal obstruction Sneezing Social avoidant behaviour
 Somnolence Speech disorder Sputum increased Sticky skin
 Stomatitis Strabismus Stridor Stupor Subdural
 haematoma Suicidal ideation Suicide attempt Supraventricular
 tachycardia Swelling Syncope Synovial cyst Synovitis
 Tachycardia Tearfulness Tenderness Tendon disorder Tendonitis
 Tension Thinking abnormal Thirst Thought blocking
 Throat irritation Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinea pedis Tinnitus Tongue
 disorder Tongue oedema Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Tooth loss Toothache Torsade de
 pointes Toxic epidermal necrolysis Tracheitis Tremor
 Tumour invasion Type I hypersensitivity Ulcer Upper
 respiratory tract infection Upper-airway cough syndrome Urethral
 disorder Urinary hesitation Urinary incontinence Urinary
 retention Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urogenital disorder Urticaria Uterine leiomyoma
 Uterovaginal prolapse VIIth nerve paralysis Vaginal cyst
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vascular insufficiency Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Viral diarrhoea Viral infection Vision
 blurred Visual acuity reduced Visual impairment Vomiting
 Weight decreased Weight increased Wheezing White blood cell
 count increased Withdrawal syndrome Wound haemorrhage Wound
 infection Yawning

Receptor-type tyrosine-protein phosphatase S - Group: Enzyme
 Treated with:

alendronate: approved small molecule (52 associated side
 effects) For the treatment and prevention of osteoporosis in women
 and Paget's disease of bone in both men and women.
 etidronic acid: approved small molecule (49 associated side
 effects) For the treatment of symptomatic Paget's disease of bone
 and in the prevention and treatment of heterotopic ossification
 following total hip replacement or due to spinal cord injury.

84 known side effects mediated through drugs targeting this protein:

Agranulocytosis Alopecia Amnesia Anaemia Anastomotic ulcer
 Angioedema Arthralgia Arthritis Arthropathy Asthenia
 Asthma Body temperature increased Bone pain Calcinosis
 Confusional state Dermatitis Diarrhoea Discomfort Duodenal
 ulcer Electrolyte imbalance Endometrial sarcoma Episcleritis
 Erosive oesophagitis Erythema Erythema multiforme
 Feeling abnormal Gastric ulcer Gastritis Gastrointestinal
 disorder Gastrooesophageal reflux disease Glossitis Glossodynia
 Haemoglobin Haemorrhage Hallucination Headache
 Hypersensitivity Hypocalcaemia Ill-defined disorder
 Impaired healing Infection Influenza Joint swelling
 Leukaemia Leukopenia Lymphopenia Malaise Melaena
 Muscle spasms Musculoskeletal discomfort Musculoskeletal

pain Myalgia Nausea Neoplasm malignant Nephrotic
 syndrome Oedema Oedema peripheral Oesophageal stenosis
 Oesophagitis Oral disorder Osteoarthritis
 Osteogenesis imperfecta Osteolysis Osteomalacia
 Osteomyelitis Osteonecrosis of jaw Pancytopenia
 Paraesthesia Peptic ulcer Photosensitivity reaction
 Pruritus Rash Rash macular Rash maculo-papular
 Scleritis Stevens-Johnson syndrome Swelling Toxic
 epidermal necrolysis Transaminases increased Ulcer Urticaria
 Uveitis Vertigo Vomiting

Low-affinity cationic amino acid transporter 2 - Group: Transporter
 Treated with:

l-lysine: approved, nutraceutical small molecule (0 associated
 side effects) Supplemental L-lysine has putative anti-herpes
 simplex virus activity. There is preliminary research suggesting
 that it may have some anti-osteoporotic activity.

l-ornithine: approved, nutraceutical small molecule (0
 associated side effects) Used for nutritional supplementation,
 also for treating dietary shortage or imbalance. It has been claimed
 that ornithine improves athletic performance, has anabolic effects,
 has wound-healing effects, and is immuno-enhancing.

known side effects mediated through drugs targeting this protein:

Alpha-7 nicotinic cholinergic receptor subunit - Group: Channel
 Treated with:

tramadol: approved small molecule (490 associated side
 effects) Indicated in the treatment of moderate to severe pain.
 Consider for those prone to constipation or respiratory depression.
 Tramadol is used to treat postoperative, dental, cancer, and acute
 musculoskeletal pain and as an adjuvant to NSAID therapy in patients
 with osteoarthritis.

succinylcholine: approved small molecule (27 associated side
 effects) Used in surgical procedures where a rapid onset and brief
 duration of muscle relaxation is needed (includes intubation,
 endoscopies, and ECT)

memantine: approved small molecule (250 associated side
 effects) For the treatment of moderate to severe dementia of the
 Alzheimer's type.

tenocyclidine: illicit, experimental small molecule (0
 associated side effects) Because of its high affinity for the
 phencyclidine binding site on the NMDA receptor, the 3H
 radiolabelled form of tenocyclidine is widely used in research into
 NMDA receptors.

575 known side effects mediated through drugs targeting this
 protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
 Abdominal pain upper Abdominal tenderness Abnormal
 behaviour Abnormal dreams Abnormal faeces Abscess Acne Acute
 coronary syndrome Acute myocardial infarction Affect lability

Aggression Agitation Agranulocytosis Alanine
 aminotransferase decreased Alanine aminotransferase increased
 Albuminuria Alopecia Altered state of consciousness
 Amblyopia Amnesia Anaemia Anaphylactic shock
 Anaphylactoid reaction Aneurysm Angina pectoris Angina
 unstable Angioedema Angiopathy Anorectal disorder Anosmia
 Anxiety Aortic aneurysm Aortic dissection Apathy
 Aphasia Apnoea Appendicitis Arrhythmia Arthralgia
 Arthritis Arthropathy Aspartate aminotransferase increased
 Aspiration Asthenia Asthma Ataxia Atrial
 fibrillation Atrial flutter Atrioventricular block Back
 disorder Back pain Benign breast neoplasm Biliary tract disorder
 Bipolar I disorder Bipolar disorder Bladder pain
 Blepharitis Blindness Blister Blood alkaline phosphatase
 increased Blood amylase increased Blood bilirubin increased
 Blood cholesterol increased Blood creatine phosphokinase
 increased Blood creatinine increased Blood glucose abnormal Blood
 glucose increased Blood lactate dehydrogenase increased Blood
 potassium abnormal Blood potassium decreased Blood potassium
 increased Blood pressure increased Blood sodium increased Blood
 triglycerides increased Blood urea increased Blood uric acid
 increased Body temperature decreased Body temperature increased
 Bone disorder Bone pain Bradycardia Breast cancer
 Breast disorder Breast neoplasm Breath odour Bronchitis
 Bronchospasm Burning sensation Bursitis Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac fibrillation
 Cardiac flutter Cardiac murmur Cardiovascular disorder
 Carpal tunnel syndrome Cataract Cellulitis Cerebral
 haemorrhage Cerebral infarction Cerebrovascular accident
 Cerumen impaction Change of bowel habit Chest discomfort Chest
 pain Chills Cholecystitis Cholelithiasis Cognitive
 disorder Cold sweat Colitis Coma Completed suicide Confusional
 state Conjunctival haemorrhage Conjunctivitis Connective tissue
 disorder Constipation Convulsion Coordination abnormal
 Corneal opacity Cough Crocodile tears syndrome Crying
 Crystal urine Crystalluria Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Deep vein
 thrombosis Dehydration Delirium Delusion Dependence
 Depersonalisation Depressed level of consciousness Dermal cyst
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermoid cyst Diabetes mellitus Diarrhoea Diplopia
 Discomfort Disorientation Dissociation Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Diverticulum Dizziness Drug abuse Drug dependence Drug
 withdrawal syndrome Dry eye Dry mouth Dry skin Dry throat
 Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dyspnoea Dysuria Ear congestion Ear
 discomfort Ear infection Ear pain Ecchymosis Eczema
 Effusion Ejaculation disorder Electrocardiogram QT
 prolonged Electrocardiogram abnormal Electrocardiogram change
 Embolism Emotional disorder Encephalopathy Endocrine
 disorder Eosinophil count increased Epistaxis Erectile
 dysfunction Eructation Erysipelas Erythema Erythema multiforme
 Euphoric mood Eustachian tube disorder Exostosis
 Extrapiramidal disorder Eye disorder Eye pain

Eyelid disorder Eyelid ptosis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Fasciitis
 Fatigue Feeling abnormal Feeling cold Feeling hot
 Feeling jittery Flat affect Flatulence Flushing Fungal
 infection Gait disturbance Gamma-glutamyltransferase increased
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Glaucoma Gout Grand mal
 convulsion Groin pain Gynaecomastia Haematemesis
 Haematochezia Haematocrit decreased Haematocrit increased
 Haematoma Haematuria Haemoglobin decreased Haemoglobin
 increased Haemolytic anaemia Haemoptysis Haemorrhage Haemorrhage
 intracranial Hair disorder Hallucination Headache
 Hearing impaired Helicobacter infection Hemiplegia Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatitis Hepatitis cholestatic Hepatobiliary disease
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups High density lipoprotein decreased Hordeolum
 Hormone level abnormal Hot flush Hyperaesthesia
 Hypercalcaemia Hypercalciuria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hyperreflexia Hypersensitivity Hypertension
 Hyperthermia Hyperthermia malignant Hypertonia
 Hypertriglyceridaemia Hyperuricaemia Hyperventilation
 Hypoaesthesia Hypocalcaemia Hypoglycaemia
 Hypokalaemia Hypokinesia Hyponatraemia Hypophosphataemia
 Hypotension Hypothermia Hypothyroidism Ileus Ill-defined
 disorder Immune system disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Infarction
 Infection Infestation Inflammation Influenza Influenza
 like illness Ingrowing nail Insomnia Intermittent
 claudication International normalised ratio increased
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intraocular pressure increased
 Irritability Irritable bowel syndrome Ischaemia Joint
 crepitation Joint stiffness Joint swelling Labyrinthitis
 Lacrimal disorder Lacrimation increased Laryngitis Leiomyoma
 Lethargy Leukopenia Libido decreased Libido increased Lip
 blister Liver function test abnormal Localised infection Loss
 of consciousness Low density lipoprotein increased Lymphadenopathy
 Lymphocyte count decreased Lymphocyte count increased
 Macular degeneration Macule Malaise Mammogram
 abnormal Mediastinal disorder Melaena Menometrorrhagia
 Menopausal symptoms Menopause Menstrual disorder
 Mental disability Mental disorder Mental disorder due to a
 general medical condition Mental retardation Micturition
 disorder Micturition urgency Migraine Miosis Monocyte
 count increased Mood swings Muscle contractions involuntary
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myocardial ischaemia Myoclonus Myopathy Myopia Nasal

congestion Nasal oedema Nasopharyngitis Nausea Neck pain
 Necrosis Neoplasm Neoplasm malignant Nephrolithiasis
 Nervous system disorder Nervousness Neuralgia Neuroleptic
 malignant syndrome Neuropathy peripheral Neurosis Neutropenia
 Neutrophil count decreased Neutrophil count increased Night
 sweats Nightmare Nocturia Nuchal rigidity Obstruction
 Oedema peripheral Oesophageal disorder Oesophageal ulcer
 Oliguria Oral pain Oropharyngeal discomfort
 Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteopenia Osteoporosis Otitis externa
 Otitis media Pain in extremity Pallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia
 Paraesthesia Paranoia Pathological fracture Pelvic pain
 Peripheral ischaemia Peripheral vascular disorder Personality
 disorder Pharyngitis Phlebitis Photopsia Photosensitivity
 reaction Piloerection Plantar fasciitis Platelet count
 decreased Pneumonia Pneumonia aspiration Pollakiuria Polyp
 Polyuria Poor peripheral circulation Productive cough
 Prostatic disorder Prostatitis Prostatomegaly Protein
 total decreased Protein urine present Proteinuria Prurigo
 Pruritus Pruritus generalised Pruritus genital Psychotic
 disorder Pulmonary embolism Pulmonary function test decreased
 Pulmonary oedema Purpura Rales Rash Rash erythematous
 Rectal haemorrhage Rectal prolapse Red blood cell count
 decreased Red blood cell count increased Red blood cell
 sedimentation rate increased Renal failure acute Renal function
 test abnormal Renal impairment Renal pain Respiratory depression
 Respiratory disorder Respiratory tract infection viral
 Retching Retinal detachment Retinal haemorrhage
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Salivary hypersecretion Scleral haemorrhage Seasonal
 allergy Sedation Sepsis Sexual dysfunction Shock Sinus
 congestion Sinus headache Sinus tachycardia Sinusitis Skin
 disorder Skin ulcer Sleep apnoea syndrome Sleep disorder Small
 intestinal obstruction Sneezing Somnolence Speech disorder
 Stevens-Johnson syndrome Sticky skin Stomatitis Stupor
 Sudden death Suicidal ideation Suicide attempt
 Supraventricular tachycardia Swelling Syncope Synovial
 cyst Tachycardia Tardive dyskinesia Tenderness Tendon disorder
 Tendonitis Tension Thinking abnormal Thirst Thought
 blocking Throat irritation Thrombocytopenia Thrombocytopenic
 purpura Thrombocytosis Thrombophlebitis Thrombosis Thrombotic
 thrombocytopenic purpura Thyroid neoplasm Tinea pedis Tinnitus
 Tongue disorder Tongue oedema Tooth abscess Tooth
 disorder Tooth impacted Tooth infection Toothache Torsade de
 pointes Toxic epidermal necrolysis Tracheitis Transient
 ischaemic attack Tremor Ulcer Upper respiratory tract infection
 Urethral disorder Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 output increased Urogenital disorder Urticaria Uterine leiomyoma
 Uterovaginal prolapse Vaginal cyst Vaginal discharge
 Vaginal haemorrhage Vascular dementia Vascular insufficiency
 Vascular purpura Vasodilation procedure Venous thrombosis

Vertigo Viral diarrhoea Viral infection Vision blurred
Visual acuity reduced Visual impairment Vomiting Weight
decreased White blood cell count increased Withdrawal syndrome
Wound haemorrhage Wound infection Xerophthalmia Yawning

Monocarboxylate transporter 7 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0
associated side effects) For nutritional supplementation, also
for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Receptor-type tyrosine-protein phosphatase epsilon - Group: Enzyme

Treated with:

alendronate: approved small molecule (52 associated side
effects) For the treatment and prevention of osteoporosis in women
and Paget's disease of bone in both men and women.

52 known side effects mediated through drugs targeting this protein:

Alopecia Anaemia Anastomotic ulcer Angioedema Asthenia Body
temperature increased Calcinosis Discomfort Duodenal ulcer
Endometrial sarcoma Episcleritis Erosive oesophagitis
Feeling abnormal Gastric ulcer Gastrointestinal disorder
Gastrooesophageal reflux disease Haemoglobin Haemorrhage
Hypersensitivity Hypocalcaemia Ill-defined disorder
Impaired healing Infection Influenza Joint swelling
Leukaemia Lymphopenia Malaise Melaena Musculoskeletal
discomfort Musculoskeletal pain Myalgia Neoplasm malignant
Oedema Oedema peripheral Oesophageal stenosis
Oesophagitis Oral disorder Osteogenesis imperfecta
Osteomalacia Osteomyelitis Osteonecrosis of jaw
Peptic ulcer Photosensitivity reaction Pruritus
Scleritis Swelling Toxic epidermal necrolysis
Transaminases increased Urticaria Uveitis Vertigo

Gonadotropin-releasing hormone II receptor - Group: Receptor

Treated with:

gonadorelin: approved small molecule (0 associated side
effects) For evaluating the functional capacity and response of
the gonadotropes of the anterior pituitary also for evaluating
residual gonadotropic function of the pituitary following removal of
a pituitary tumor by surgery and/or irradiation.

nafarelin: approved small molecule (0 associated side effects)
For treatment of central precocious puberty (true precocious
puberty, GnRH-dependent precocious precocity, complete isosexual
precocity) in children of both sexes and for the treatment of
endometriosis.

danazol: approved small molecule (89 associated side effects)

For the treatment of endometriosis and fibrocystic breast
disease (in patients unresponsive to simple measures). Also used for

the prophylactic treatment of all types of hereditary angioedema in males and females.

89 known side effects mediated through drugs targeting this protein:

Acne Acute coronary syndrome Adenoma benign Affect lability
Alopecia Amenorrhoea Anxiety Arthralgia Asthenia Back
pain Benign intracranial hypertension Blood insulin increased
Body temperature increased Breast discharge Carpal tunnel
syndrome Cataract Chills Constipation Convulsion
Dermatitis Dizziness Dysphonia Eosinophilia Erythema
multiforme Fatigue Fluid retention Flushing Gastroenteritis
Gingival bleeding Haematuria Haemoglobin Haemorrhage Headache
Hepatic adenoma Hepatic function abnormal Hepatic neoplasm
Hirsutism Hyperhidrosis Hyperinsulinism Hypertension
Hypertrophy Infarction Interstitial lung disease
Intracranial pressure increased Jaundice Jaundice
cholestatic Joint swelling Laboratory test abnormal
Leukocytosis Leukopenia Loss of consciousness
Metrorrhagia Mood swings Muscle spasms Musculoskeletal
discomfort Myocardial infarction Nasal congestion Nausea
Neoplasm Nervousness Oedema Oropharyngeal discomfort
Oropharyngeal pain Palpitations Pancreatitis
Paraesthesia Peliosis hepatis Pelvic pain Photosensitivity
reaction Pneumonia Polycythaemia Pruritus Purpura Rash
Seborrhoeic dermatitis Shock Sleep disorder Swelling
Syncope Tachycardia Tension Thrombocytopenia Tremor
Urticaria Vascular purpura Visual impairment Vomiting
Vulvovaginal dryness Weight increased

Low-density lipoprotein receptor - Group: Receptor

Treated with:

porfimer: approved small molecule (0 associated side effects)

Indicated in the treatment of esophageal cancer.

alpha-d-mannose: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

D(2) dopamine receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas).

May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic

Parkinson's disease. Also used for the treatment of restless legs syndrome.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

thiethylperazine: approved small molecule (0 associated side effects) For the treatment or relief of nausea and vomiting.

sulpiride: approved small molecule (0 associated side effects) Sulpiride is indicated for the treatment of schizophrenia.

loxapine: approved small molecule (74 associated side effects) For the management of the manifestations of psychotic disorders such as schizophrenia

remoxipride: approved, withdrawn small molecule (0 associated side effects) Remoxipride is an atypical antipsychotic once used for the treatment of schizophrenia.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

promazine: approved small molecule (0 associated side effects) Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

prochlorperazine: approved small molecule (113 associated side effects) For the symptomatic management of psychotic disorders, short term management of nonpsychotic anxiety in patients with generalized anxiety disorder, and for the control of severe nausea and vomiting of various causes.

droperidol: approved small molecule (29 associated side effects) Droperidol is used to produce tranquilization and to reduce the incidence of nausea and vomiting in surgical and diagnostic procedures.

chlorpromazine: approved small molecule (111 associated side effects) For the treatment of schizophrenia, control nausea and vomiting, For relief of restlessness and apprehension before surgery, adjunct in the treatment of tetanus, control the manifestations of the manic type of manic-depressive illness.

bupirone: approved small molecule (147 associated side effects) For the management of anxiety disorders or the short-term relief of the symptoms of anxiety, and also as an augmentation of SSRI-treatment against depression.

haloperidol: approved small molecule (79 associated side effects) For the management of psychotic disorders (eg. schizophrenia) and delirium, as well as to control tics and vocal utterances of Tourette's syndrome (Gilles de la Tourette's syndrome). Also used for the treatment of severe behavioural problems in children with disruptive behaviour disorder or ADHD (attention-deficit hyperactivity disorder). Haloperidol has been used in the prevention and control of severe nausea and vomiting.

trifluoperazine: approved small molecule (0 associated side effects) Used mainly in the management of psychoses. Also used to control nausea and vomiting.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

lisuride: approved small molecule (0 associated side effects)
For the management of Parkinson's Disease

fluphenazine: approved small molecule (122 associated side effects) For management of manifestations of psychotic disorders.

thioridazine: approved small molecule (92 associated side effects) For the treatment of schizophrenia and generalized anxiety disorder.

ergotamine: approved small molecule (15 associated side effects)
For use as therapy to abort or prevent vascular headache, e.g., migraine, migraine variants, or so called "histaminic cephalalgia".

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

minaprine: approved small molecule (0 associated side effects)
For the treatment of depression

trifluoperazine: approved small molecule (111 associated side effects) For the treatment of anxiety disorders, depressive symptoms secondary to anxiety and agitation.

perphenazine: approved small molecule (131 associated side effects) For use in the management of the manifestations of psychotic disorders and for the control of severe nausea and vomiting in adults.

flupenthixol: approved small molecule (0 associated side effects) For use in the treatment of schizophrenia and depression

amantadine: approved small molecule (90 associated side effects)
For the chemoprophylaxis, prophylaxis, and treatment of signs and symptoms of infection caused by various strains of influenza A

virus. Also for the treatment of parkinsonism and drug-induced extrapyramidal reactions.

mesoridazine: approved small molecule (83 associated side effects) Used in the treatment of schizophrenia, organic brain disorders, alcoholism and psychoneuroses.

dopamine: approved small molecule (23 associated side effects)
For the correction of hemodynamic imbalances present in the shock syndrome due to myocardial infarction, trauma, endotoxic septicemia, open-heart surgery, renal failure, and chronic cardiac decompensation as in congestive failure

carphenazine: approved small molecule (0 associated side effects) Used in the treatment of acute or chronic schizophrenic reactions in hospitalized patients.

acetophenazine: approved small molecule (0 associated side effects) For the treatment of disorganized and psychotic thinking. Also used to help treat false perceptions (e.g. hallucinations or delusions.)

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

pimozide: approved small molecule (68 associated side effects)
Used for the suppression of motor and phonic tics in patients with Tourette's Disorder who have failed to respond satisfactorily to standard treatment.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

domperidone: approved small molecule (40 associated side effects) For management of dyspepsia, heartburn, epigastric pain, nausea, and vomiting.

pergolide: approved, withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

ketamine: approved small molecule (35 associated side effects)
For use as the sole anesthetic agent for diagnostic and surgical procedures that do not require skeletal muscle relaxation.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

metoclopramide: approved small molecule (75 associated side effects) For the treatment of gastroesophageal reflux disease

(GERD). It is also used in treating nausea and vomiting, and to increase gastric emptying.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

yohimbine: approved small molecule (0 associated side effects)
Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

alizapride: approved small molecule (0 associated side effects)
Alizapride is used in the treatment of nausea and vomiting, including postoperative nausea and vomiting.

rolicyclidine: illicit, experimental small molecule (0 associated side effects) Rolicyclidine has anesthetic properties and can induce a sedative effect.

acepromazine: approved small molecule (0 associated side effects) Acepromazine was first used in humans in the 1950s as an antipsychotic agent. It is now rarely used in humans. Acepromazine is frequently used in animals as a sedative and antiemetic. Its principal value is in quietening and calming anxious animals.

molindone: approved small molecule (46 associated side effects)
Molindone is used for the management of the manifestations of psychotic disorders.

pipotiazine: approved small molecule (94 associated side effects) For the maintenance treatment of chronic non-agitated schizophrenic patients.

thiopropazine: approved small molecule (0 associated side effects) For the treatment of all types of acute and chronic schizophrenia, including those which did not respond to the usual neuroleptics; manic syndromes.

thiothixene: approved small molecule (79 associated side effects) For the management of schizophrenia.

zuclopenthixol: approved small molecule (0 associated side effects) For the management of the manifestations of schizophrenia.

aniracetam: experimental small molecule (0 associated side effects)

fluspirilene: approved small molecule (0 associated side effects) Used for the treatment of schizophrenia.

rotigotine: approved small molecule (93 associated side effects)
For use/treatment in neurologic disorders and parkinson's disease as well as moderate-to-severe primary Restless Legs Syndrome.

sertindole: approved, withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

amisulpride: approved small molecule (0 associated side effects) Investigated for use/treatment in schizophrenia and

schizoaffective disorders, mania in bipolar disorder, and depression.

1317 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute respiratory failure Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Adjustment disorder Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol abuse Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphonia Aphthous stomatitis Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Argininosuccinate synthetase deficiency Arrhythmia Arrhythmia supraventricular Arterial disorder Arterial occlusive disease Arterial stenosis Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy Ascites Asocial behaviour Aspartate aminotransferase increased Asphyxia Aspiration Asthenia Asthma Ataxia Atelectasis Athetosis Atrial fibrillation Atrial flutter Atrial septal defect Atrioventricular block first degree Atrioventricular block second degree Atrophy Aura Automatism Autonomic nervous system imbalance Azotaemia Back pain Bacterial infection Balance disorder Balanoposthitis Basal cell carcinoma Basophilia Benign intracranial hypertension Benign neoplasm Benign neoplasm of skin Benign prostatic hyperplasia Biliary colic Binge eating Bladder cancer Bladder disorder Bladder pain Blepharitis Blepharospasm Blindness Blindness transient Blister Blood alkaline phosphatase increased Blood amylase increased Blood antidiuretic hormone abnormal Blood bilirubin increased Blood cholesterol increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood electrolytes abnormal Blood glucose decreased Blood glucose increased Blood insulin increased Blood iron decreased Blood lactate dehydrogenase increased Blood phosphorus increased Blood potassium decreased Blood potassium increased Blood pressure abnormal Blood pressure diastolic decreased Blood pressure fluctuation Blood pressure increased Blood pressure systolic decreased Blood prolactin increased Blood testosterone decreased Blood triglycerides increased Blood triglycerides normal Blood urea

increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bone sarcoma
 Bradycardia Bradykinesia Bradyphrenia Brain neoplasm
 Brain neoplasm benign Brain oedema Breast cancer
 Breast cyst Breast discharge Breast discomfort Breast disorder
 Breast disorder female Breast disorder male Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breast tenderness Breath odour
 Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic
 Cholelithiasis Cholestasis Chorea Choreoathetosis
 Chromaturia Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Claustrophobia Clonus
 Coagulopathy Coccydynia Cognitive disorder Cogwheel
 rigidity Cold sweat Colitis Colitis ulcerative Colon
 cancer Colorectal cancer Coma Completed suicide Compulsions
 Condition aggravated Conduction disorder Confusional state
 Congenital anomaly Congenital eye disorder Congenital
 foot malformation Congenital genitourinary abnormality
 Conjunctival disorder Conjunctival haemorrhage
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal
 Corneal deposits Corneal lesion Corneal oedema Corneal
 opacity Coronary artery disease Coronary artery occlusion
 Costochondritis Cough Crocodile tears syndrome Crying
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Dandruff Deafness Death Decreased appetite
 Decreased interest Decubitus ulcer Deep vein thrombosis
 Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dementia with Lewy bodies Dental caries
 Dependence Depersonalisation Depressed level of consciousness
 Depressed mood Depression Depression suicidal Depressive
 symptom Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Diabetes mellitus
 Diabetic coma Diabetic hyperglycaemic coma Diabetic
 hyperosmolar coma Diabetic ketoacidosis Diaphragmatic hernia

Diarrhoea Diplopia Discomfort Disorientation
 Disseminated intravascular coagulation Dissociation
 Dissociative disorder Disturbance in attention Disturbance
 in sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug intolerance Drug level increased Drug withdrawal
 syndrome Drug withdrawal syndrome neonatal Dry eye Dry mouth
 Dry skin Dry throat Duodenal ulcer Duodenal ulcer
 haemorrhage Duodenitis Dysarthria Dysentery Dysgeusia Dysgraphia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphemia
 Dysphonia Dysphoria Dyspnoea Dyspnoea exertional
 Dystonia Dysuria Ear disorder Ear infection Ear
 pain Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electrocardiogram normal Electroencephalogram
 abnormal Electrolyte imbalance Elevated mood Embolism
 Emotional distress Emphysema Encephalopathy Endocrine
 disorder Endometrial cancer Endometrial neoplasm Energy
 increased Enteritis Enuresis Enzyme abnormality Eosinophil
 count increased Eosinophilia Epicondylitis Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythromelalgia Euphoric
 mood Exfoliative rash Exostosis Extensor plantar response
 Extrapyrarnidal disorder Extrasystoles Extravasation
 Eye discharge Eye disorder Eye haemorrhage Eye
 infection Eye inflammation Eye irritation Eye movement disorder
 Eye pain Eye pruritus Eye swelling Eyelid disorder
 Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Faeces hard
 Fasciitis Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Female sexual
 dysfunction Fibroadenoma of breast Fibrocystic breast disease
 Fibrosis Flank pain Flashback Flat affect Flatulence Fluid
 overload Fluid retention Flushing Foetor hepaticus
 Folliculitis Formication Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gallbladder
 cancer Gallbladder disorder Gamma-glutamyltransferase
 increased Gangrene Gastric cancer Gastric disorder Gastric
 haemorrhage Gastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Gestational hypertension Gingival bleeding Gingival
 infection Gingival pain Gingival recession Gingivitis
 Glaucoma Glossitis Glossodynia Glucose tolerance decreased
 Glucose tolerance impaired Glycosuria Glycosylated

haemoglobin increased Goitre Gout Grand mal convulsion
 Gravitational oedema Grimacing Groin pain Gynaecomastia
 Haemangioma Haematemesis Haematochezia Haematocrit
 decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhoids Haemothorax Hallucination Hallucination,
 auditory Hallucination, visual Hangover Head discomfort Head
 titubation Headache Hearing impaired Heart disease congenital
 Heart rate irregular Hemianopia Hemiparesis Hemiplegia
 Hepatic cirrhosis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic neoplasm malignant
 Hepatic steatosis Hepatitis Hepatitis A Hepatitis cholestatic
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hereditary disorder Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hydrocephalus Hyperacusis Hyperaemia
 Hyperaesthesia Hyperammonaemia Hyperbilirubinaemia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hypernatraemia
 Hyperparathyroidism Hyperphagia Hyperphosphataemia
 Hyperplasia Hyperprolactinaemia Hyperpyrexia
 Hyperreflexia Hypersensitivity Hypersexuality Hypersomnia
 Hypertension Hypertensive crisis Hyperthermia
 Hypert thyroidism Hypertonia Hypertonic bladder
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
 Hypochloraemia Hypocholesterolaemia Hypochromic anaemia
 Hypoglycaemia Hypogonadism Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovitaminosis Hypovolaemia
 Hypoxia Idiopathic thrombocytopenic purpura Ileus Ileus
 paralytic Ill-defined disorder Illusion Immobile Immune
 system disorder Impaired healing Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Increased
 tendency to bruise Induration Infarction Infected cyst
 Infection Infestation Inflammation Influenza Influenza
 like illness Inguinal hernia Initial insomnia Injection site
 mass Injection site pain Injection site phlebitis Injection
 site reaction Inner ear disorder Insomnia Intention tremor
 Intentional self-injury Intermittent claudication
 Intertitial lung disease Intervertebral disc degeneration
 Intervertebral disc disorder Intervertebral disc protrusion
 Intervertebral discitis Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intracranial
 pressure increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic hepatitis Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint effusion Joint range of motion

decreased Joint stiffness Joint swelling Judgement impaired
Keratitis Keratoconjunctivitis sicca Keratopathy
Ketoacidosis Ketosis Laboratory test abnormal
Lacrimal disorderLacrimation decreased Lacrimation increased
Lactose intolerance Laryngeal cancer Laryngeal disorder
Laryngeal neoplasm Laryngeal oedema Laryngitis
Laryngospasm Left ventricular failure Leiomyoma Lens
disorder Lenticular opacities Lenticular pigmentation
Lethargy Leukaemia Leukocytosis Leukoderma Leukopenia
Leukoplakia oral Libido decreased Libido increased Lichenoid
keratosis Light anaesthesiaLip and/or oral cavity cancer Lip
blister Lip dry Lip swelling Lipoma Livedo
reticularisLiver disorder Liver function test abnormalLiver
injury Lividity Lobar pneumonia Localised infection
Localised oedema Logorrhoea Loss of consciousness Loss of
libido Lower respiratory tract infection Lung adenocarcinoma
stage I Lung cancer metastatic Lung disorder Lung infiltration
Lung neoplasm malignant Lymphadenitis Lymphadenopathy
Lymphatic disorder Lymphocytic leukaemia Lymphocytosis
LymphoedemaLymphoma LymphopeniaMacular degeneration
Macule MaculopathyMajor depression Malaise Male sexual
dysfunctionMalignant melanoma ManiaMasked facies Mastitis
Mediastinal disorder Megacolon Melaena Melanocytic
naevus Memory impairmentMeningitis Menopausal symptoms
Menopause MenorrhagiaMenstrual disorder Menstruation
delayed Menstruation irregular Mental disabilityMental disorder
Mental retardation Mental status changes Metabolic
alkalosis Metastasis Metastatic neoplasm Methaemoglobinaemia
Metrorrhagia Micturition disorder Micturition urgency
Middle ear disorder Middle ear effusion Middle insomnia
Migraine with aura Migraine without aura Miosis
Mitral valve incompetence Mobility decreased
Monarthritits MonocytosisMood swingsMotion sickness Mouth
ulceration Movement disorderMultiple myeloma Muscle atrophy
Muscle contractions involuntary Muscle contracture
Muscle enzyme increased Muscle relaxant therapy
Muscle rigidity Muscle spasms Muscle tightness Muscle
twitching Muscular weaknessMusculoskeletal chest pain
Musculoskeletal discomfort Musculoskeletal disorder
Musculoskeletal pain Musculoskeletal stiffness Myalgia
Myasthenic syndrome Mydriasis Myelitis Myocardial
infarction Myocardial ischaemia MyocarditisMyoclonus Myopathy
Myopia Myositis Nail disorder Nail infection
Narcolepsy Nasal congestion Nasal disorder Nasal dryness
Nasal oedema Nasal polyps Nasopharyngitis Nausea
Neck pain Necrosis Necrosis ischaemic Neoplasm
malignant Neoplasm prostateNeoplasm recurrence Neoplasm skin
Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
lesion Nervous system disorder NervousnessNeuralgia
Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
malignant syndrome Neurological symptom Neuroma Neuropathy
peripheral Neurosis NeutropeniaNeutrophil count decreased
Neutrophil count increased Night sweats Nightmare
Nocturia Nodal arrhythmia Nodule Normochromic
normocytic anaemia Nuchal rigidity Nystagmus Obesity

Obsessive thoughts Obstruction Obstructive airways disorder
 Ocular hyperaemia Oculogyric crisis Oedema Oedema peripheral
 Oesophageal carcinoma Oesophageal disorder Oesophageal spasm
 Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oligomenorrhoea Oliguria Onychomycosis Opisthotonus
 Optic nerve disorder Oral candidiasis Oral neoplasm benign
 Oral pain Orchitis noninfective Oropharyngeal discomfort
 Oropharyngeal pain Oropharyngeal spasm Orthostatic
 hypotension Osteoarthritis Osteoarthropathy Osteodystrophy
 Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media Otitis media chronic
 Ovarian cancer Ovarian cyst Pain Pain in extremity Pain
 in jaw Pallor Palpitations Pancreatitis acute
 Pancytopenia Panic attack Panic disorder Panic
 disorder with agoraphobia Panic reaction Papilloma
 Paraesthesia oral Paralysis Paranoia Parasomnia Paresis
 Parkinsonian gait Parkinsonism Paronychia Parosmia
 Parotid gland enlargement Pathological fracture
 Pathological gambling Pelvic inflammatory disease Pelvic pain
 Penis disorder Peptic ulcer Pericardial effusion
 Pericarditis constrictive Perineal pain Periodontitis
 Periorbital oedema Peripheral coldness Peripheral
 ischaemia Peripheral vascular disorder Peritoneal adhesions
 Personality disorder Petechiae Petit mal epilepsy
 Pheochromocytoma Pharyngeal disorder Pharyngeal erythema
 Pharyngitis Phlebitis Phlebitis superficial Phobia
 Phonological disorder Photophobia Photopsia Photosensitivity
 allergic reaction Photosensitivity reaction Pigmentation disorder
 Piloerection Pituitary tumour benign Plasmacytoma
 Platelet count decreased Pleural disorder Pleural effusion
 Pleural fibrosis Pleurisy Pneumonia Pneumonia aspiration
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Porphyria Post procedural infection
 Postmenopausal haemorrhage Postural orthostatic tachycardia
 syndrome Posture abnormal Pre-eclampsia Precocious puberty
 Pregnancy test false positive Pregnancy test positive
 Premature ejaculation Premenstrual syndrome Presyncope
 Priapism Proctalgia Productive cough Prolactinoma
 Prostate cancer Prostatic adenoma Prostatic disorder
 Prostatitis Protein urine present Proteinuria Protrusion tongue
 Prurigo Pruritus Pruritus generalised Pruritus genital
 Pseudolymphoma Psoriasis Psychiatric symptom Psychomotor
 retardation Psychotic behaviour Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary function test decreased Pulmonary hypertension
 Pulmonary oedema Pulse absent Purpura Purpura non-
 thrombocytopenic Pyelonephritis Pyoderma Pyuria Rales Rash
 erythematous Rash generalised Rash maculo-papular Rash
 morbilliform Rash papular Rash pustular Rash vesicular
 Raynaud's phenomenon Rectal cancer Rectal haemorrhage
 Rectal tenesmus Red blood cell count decreased Red blood
 cell sedimentation rate increased Reflux oesophagitis Regressive
 behaviour Regurgitation Renal artery stenosis Renal colic Renal
 cyst Renal failure acute Renal impairment Renal neoplasm Renal

pain Respiratory alkalosis Respiratory arrest Respiratory
 depression Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal artery occlusion Retinal detachment
 Retinal disorder Retinal vascular disorder Retinitis
 pigmentosa Retrograde ejaculation Retroperitoneal fibrosis
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Rotator cuff syndrome Sacroiliitis Saliva altered
 Salivary duct obstruction Salivary gland disorder
 Salivary gland enlargement Salivary hypersecretion
 Salpingitis Sarcoidosis Sarcoma Scab Schizoaffective
 disorder Schizophrenia Schizophreniform disorder Sciatica
 Scleral disorder Scotoma Seasonal allergy Seborrhoeic
 dermatitis Seborrhoeic keratosis Sedation Sensation of heaviness
 Sensory disturbance Sensory loss Sepsis Septic
 shock Severe acute respiratory syndrome Sexual dysfunction Shock
 Sialoadenitis Sicca syndrome Sick sinus syndrome Sinus
 arrhythmia Sinus bradycardia Sinus congestion Sinus disorder Sinus
 headache Sinus tachycardia Sinusitis Skin burning sensation Skin
 cancer Skin discolouration Skin disorder Skin exfoliation
 Skin hyperpigmentation Skin hypertrophy Skin infection Skin
 irritation Skin lesion Skin mass Skin odour abnormal Skin
 papilloma Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep paralysis Sleep talking Sluggishness Small
 intestinal obstruction Sneezing Snoring Social avoidant
 behaviour Somnambulism Somnolence Speech disorder Spinal
 osteoarthritis Spine malformation Splenomegaly Spondylitis
 Squamous cell carcinoma Status epilepticus Stevens-
 Johnson syndrome Sticky skin Stomatitis Stress Stridor
 Stupor Subarachnoid haemorrhage Subcutaneous abscess
 Subcutaneous nodule Subdural haematoma Sudden death
 Suicidal ideation Suicide attempt Sulphaemoglobinaemia
 Superior sagittal sinus thrombosis Supraventricular
 extrasystoles Supraventricular tachycardia Surgery
 Suspiciousness Swelling Swelling face Swollen tongue
 Syncope Synostosis Synovitis Systemic lupus erythematosus
 Tachycardia Tachypnoea Tardive dyskinesia Temperature
 intolerance Tenderness Tendonitis Tenosynovitis Tension
 Tension headache Terminal insomnia Testicular disorder
 Testicular pain Testicular swelling Tetanus Tetany
 Therapeutic response decreased Therapeutic response
 increased Thinking abnormal Thirst Thought blocking Throat
 irritation Throat tightness Thrombocytopenia Thrombocytopenic
 purpura Thrombocytosis Thrombophlebitis Thrombosis Thrombotic
 thrombocytopenic purpura Thyroid adenoma Thyroid cancer
 Thyroid neoplasm Thyroiditis Tic Tinnitus Tongue
 discolouration Tongue disorder Tongue dry Tongue oedema
 Tongue paralysis Tongue spasm Tongue ulceration Tonsillar
 hypertrophy Tonsillitis Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Toothache Torsade de pointes
 Torticollis Toxic epidermal necrolysis Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Trismus Tuberculin test positive

Tubulointerstitial nephritis Tunnel vision Ulcer Ulcer
 haemorrhage Umbilical hernia Unevaluable event Unintended pregnancy
 Unresponsive to stimuli Upper respiratory tract infection
 Upper-airway cough syndrome Urethral disorder Urethral pain
 Urethritis Urinary hesitation Urinary incontinence
 Urinary retention Urinary tract disorder Urinary tract
 infection Urine abnormality Urine analysis abnormal Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterine neoplasm Uterovaginal prolapse
 VIIth nerve paralysis Vaginal discharge Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Varicose vein
 Vascular purpura Vasculitis Vasoconstriction Vasodilation
 procedure Vasospasm Vein disorder Venous thrombosis Ventricular
 arrhythmia Ventricular extrasystoles Ventricular failure
 Ventricular fibrillation Ventricular hypertrophy
 Ventricular tachycardia Vertigo Vestibular ataxia
 Vestibular disorder Viral diarrhoea Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vitamin B12 deficiency Vitreous detachment Vitreous floaters
 Vocal cord paralysis Vomiting Vulvovaginal candidiasis
 Vulvovaginal dryness Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cells urine positive Withdrawal bleed
 Withdrawal syndrome Wound infection Xerophthalmia
 Xerosis Yawning

Amiloride-sensitive sodium channel subunit gamma - Group: Channel
 Treated with:

triamterene: approved small molecule (25 associated side
 effects) For the treatment of edema associated with congestive
 heart failure, cirrhosis of the liver, and the nephrotic syndrome;
 also in steroid-induced edema, idiopathic edema, and edema due to
 secondary hyperaldosteronism.

amiloride: approved small molecule (85 associated side effects)
 For use as adjunctive treatment with thiazide diuretics or
 other kaliuretic-diuretic agents in congestive heart failure or
 hypertension.

98 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agitation Alopecia
 Anaemia Anaemia megaloblastic Anaphylactic shock
 Angina pectoris Aplastic anaemia Arthralgia Asthenia
 Atrioventricular block Atrioventricular block complete
 Azotaemia Back pain Bladder pain Bladder spasm Blood
 potassium increased Blood urea increased Bradycardia Chest pain
 Coma Confusional state Constipation Cough Decreased
 appetite Dehydration Dermatitis Diarrhoea Disturbance in sexual
 arousal Dizziness Dry mouth Dyspepsia Dyspnoea Dysuria
 Encephalopathy Erectile dysfunction Fatigue Feeling
 abnormal Flatulence Foetor hepaticus Gastrointestinal haemorrhage
 Gastrointestinal pain Gynaecomastia Haemoglobin Haemorrhage
 Headache Hepatic encephalopathy Hepatic function abnormal

Hepatocellular injury Hyperkalaemia Hyperkinesia
Hypersensitivity Hypokalaemia Hyponatraemia Hypotension
Insomnia Intraocular pressure increased Jaundice
Libido decreased Liver disorder Muscle spasms Muscular
weakness Musculoskeletal discomfort Nasal congestion Nausea
Neck pain Nephritis Nephrolithiasis Nervousness Neutropenia
Oral pruritus Orthostatic hypotension Pain Pain in
extremity Palpitations Paraesthesia Paralysis flaccid
Peptic ulcer Photosensitivity reaction Pollakiuria
Polyuria Pruritus Rash Renal failure acute Shock
Somnolence Tension Thirst Thrombocytopenia Tinnitus
Tremor Tubulointerstitial nephritis Ulcer Urine output
increased Vertigo Visual impairment Vomiting

ATP-binding cassette transporter sub-family C member 9 - Group:
Transporter

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
(0 associated side effects) For nutritional supplementation,
also for treating dietary shortage or imbalance
glyburide: approved small molecule (52 associated side effects)
Indicated as an adjunct to diet to lower the blood glucose in
patients with NIDDM whose hyperglycemia cannot be satisfactorily
controlled by diet alone.

52 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agranulocytosis Anaemia
Angioedema Aplastic anaemia Arthralgia Asthenia Cholestasis
Diarrhoea Dyspepsia Dyspnoea Erythema Erythropenia
Gastrointestinal disorder Gastrointestinal pain Haemolytic
anaemia Hepatic failure Hepatic function abnormal Hepatitis
Hypersensitivity Hyponatraemia Hypopituitarism Hypotension
Inappropriate antidiuretic hormone secretion Jaundice
Jaundice cholestatic Leukocytoclastic vasculitis Leukopenia
Liver disorder Malnutrition Musculoskeletal discomfort
Myalgia Nausea Nephropathy Nervous system disorder
Pain Pancytopenia Photosensitivity reaction Porphyria
Porphyria non-acute Pruritus Purpura Rash Shock
Thrombocytopenia Urticaria Vascular purpura Vasculitis
Vision blurred Visual impairment Vomiting

Retinoic acid receptor gamma-1 - Group: Receptor

Treated with:

adapalene: approved small molecule (35 associated side effects)
For the topical treatment of comedo, papular and pustular acne
(acne vulgaris) of the face, chest or back.
acitretin: approved small molecule (165 associated side
effects) For the treatment of severe psoriasis in adults.
alitretinoin: approved small molecule (0 associated side
effects) For topical treatment of cutaneous lesions in patients
with AIDS-related Kaposi's sarcoma.

tazarotene: approved small molecule (23 associated side effects)
 Used to treat psoriasis, acne and sun damaged skin
 (photodamage).

etretinate: withdrawn small molecule (0 associated side effects)
 For the treatment of severe psoriasis in adults.

sr11254: experimental small molecule (0 associated side effects)

4-[3-oxo-3-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydro-naphthalen-2-yl)-propenyl]-benzoic acid: experimental small molecule (0 associated side effects)

cd564: experimental small molecule (0 associated side effects)

dodecyl-alpha-d-maltoside: experimental small molecule (0 associated side effects)

bms184394: experimental small molecule (0 associated side effects)

r-3-fluoro-4-[2-hydroxy-2-(5,5,8,8-tetramethyl-5,6,7,8,-tetrahydro-naphthalen-2-yl)-acetylamino]-benzoic acid: experimental small molecule (0 associated side effects)

195 known side effects mediated through drugs targeting this protein:

Abdominal pain Acne Ageusia Alcohol intolerance Alopecia
 Angioedema Anorectal discomfort Anorectal disorder
 Arthralgia Arthritis Arthropathy Asthenia Atopy Atrophy
 Back pain Balanoposthitis Benign intracranial hypertension
 Bleeding time prolonged Blepharitis Blister Blood
 creatinine increased Blood triglycerides increased Blood uric
 acid increased Body temperature increased Bone pain Burning
 sensation Bursitis Calcinosis Candidiasis Cataract subcapsular
 Cerumen impaction Chapped lips Cheilitis Chest pain
 Chills Cold sweat Congenital eye disorder
 Conjunctivitis Constipation Convulsion Corneal
 neovascularisation Cough Crocodile tears syndrome Deafness
 Decreased appetite Dermatitis atopic Dermatitis bullous
 Dermatitis contact Diarrhoea Discomfort Dry eye Dry
 mouth Dry skin Dysgeusia Dyspepsia Dysphonia Dysuria Ear
 infection Ear pain Eczema Epistaxis Erectile dysfunction
 Erythema Exostosis Eye disorder Eye irritation Eye
 pain Eyelid oedema Face oedema Facial pain Fatigue Febrile
 neutropenia Feeling abnormal Flushing Foetal disorder Gait
 disturbance Gastrointestinal pain Genital discharge Gingival bleeding
 Gingivitis Glossitis Granuloma Haemoglobin Haemorrhage Hair
 texture abnormal Headache Hepatitis Herpes simplex Herpes
 virus infection High density lipoprotein decreased Hordeolum Hot
 flush Hyperaesthesia Hypercholesterolaemia Hyperhidrosis
 Hyperlipidaemia Hypersensitivity Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypervitaminosis
 Hypervitaminosis A Hypoaesthesia Ill-defined disorder
 Impaired healing Increased appetite Infection
 Inflammation Insomnia Interstitial lung disease
 Iritis Jaundice Keratitis Lacrimation decreased
 Lacrimation increased Laryngitis Lip dry Lip swelling
 Liver function test abnormal Localised oedema Madarosis
 Malaise Mass Melaena Menopausal symptoms Mouth

ulceration Muscle spasms Muscular weakness Musculoskeletal
discomfort Myalgia Nasal dryness Nausea Nervousness
Neutropenia Nodule Oedema Oedema peripheral Optic
neuritis Osteoarthritis Otitis externa Pain Pancreatitis
Pancytopenia Papilloedema Pharyngitis Photophobia
Photosensitivity reaction Proctalgia Pruritus Purpura
Pyogenic granuloma Rash Rash vesicular Rectal tenesmus
Retinal haemorrhage Rhinitis Saliva altered Salivary
hypersecretion Scab Scotoma Seborrhoeic dermatitis
Sensitisation Sinusitis Skin atrophy Skin
discolouration Skin disorder Skin exfoliation Skin fissures
Skin hyperpigmentation Skin hypertrophy Skin irritation Skin
mass Skin oedema Skin ulcer Somnolence Sticky skin Stomatitis
Swelling Tension Thirst Tinnitus Tongue ulceration
Ulcer Urinary tract infection Urine abnormality Urine
analysis abnormal Urticaria Vascular purpura Vasculitis Vision
blurred Visual acuity reduced Vulvovaginitis Weight decreased
White blood cell count decreased Xerophthalmia

Retinoic acid receptor RXR-gamma - Group: Receptor

Treated with:

adapalene: approved small molecule (35 associated side effects)

For the topical treatment of comedo, papular and pustular acne (acne vulgaris) of the face, chest or back.

bexarotene: approved small molecule (153 associated side effects) Used orally for the treatment of skin manifestations of cutaneous T-cell lymphoma (CTCL) in patients who are refractory to at least one prior systemic therapy. Also used topically for the treatment of skin lesions in early (stage IA and IB) CTCL in patients who experience refractory or persistent disease with the use of other therapies or are intolerant of other therapies.

acitretin: approved small molecule (165 associated side effects) For the treatment of severe psoriasis in adults.

alitretinoin: approved small molecule (0 associated side effects) For topical treatment of cutaneous lesions in patients with AIDS-related Kaposi's sarcoma.

etretinate: withdrawn small molecule (0 associated side effects)

For the treatment of severe psoriasis in adults.

267 known side effects mediated through drugs targeting this protein:

Abdominal infection Abdominal pain Acne Ageusia Agitation

Alanine aminotransferase increased Albuminuria Alcohol

intolerance Alopecia Anaemia Angina pectoris Angioedema

Anorectal discomfort Anorectal disorder Arrhythmia

Arthralgia Arthritis Arthropathy Aspartate aminotransferase

increased Asthenia Ataxia Atopy Atrophy Back pain

Bacterial infection Balanoposthitis Benign intracranial

hypertension Bleeding time prolonged Blepharitis Blood

amylase increased Blood creatinine increased Blood lactate

dehydrogenase increased Blood triglycerides increased Blood

uric acid increased Body temperature increased Bone pain

Breast pain Bronchitis Bursitis Calcinosis Candidiasis

Cardiac failure Cataract Cataract subcapsular Cellulitis

Cerebrovascular accident Cerumen impaction Chapped lips
 Cheilitis Chest pain Chills Coagulation time prolonged
 Cold sweat Colitis Confusional state Congenital eye
 disorder Conjunctivitis Constipation Convulsion Corneal
 lesion Corneal neovascularisation Cough Crocodile tears
 syndrome Deafness Decreased appetite Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diarrhoea Discomfort Dizziness Dry eye Dry mouth
 Dry skin Dysgeusia Dyspepsia Dysphonia Dyspnoea
 Dysuria Ear infection Ear pain Eczema Effusion
 Eosinophilia Epistaxis Erectile dysfunction Erythema
 Exostosis Eye disorder Eye irritation Eye pain
 Eyelid oedema Face oedema Fasting Fatigue Febrile
 neutropenia Feeling abnormal Flatulence Flushing Foetal disorder
 Gait disturbance Gastroenteritis Gastrointestinal pain
 Genital discharge Gingival bleeding Gingivitis Glossitis
 Granuloma Haematoma Haematuria Haemoglobin Haemoptysis
 Haemorrhage Hair texture abnormal Headache Hepatic failure
 Hepatitis Herpes simplex Herpes virus infection High
 density lipoprotein decreased Hordeolum Hot flush
 Hyperaesthesia Hyperbilirubinaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperlipidaemia Hypernatraemia Hypersensitivity
 Hypertension Hypertonia Hypertriglyceridaemia Hypertrophy
 Hypervitaminosis Hypervitaminosis A Hypoaesthesia
 Hypocalcaemia Hypochromic anaemia Hyponatraemia
 Hypoproteinaemia Hypothyroidism Hypoxia Ill-defined
 disorder Impaired healing Incontinence Increased appetite
 Infection Inflammation Influenza Insomnia
 Interstitial lung disease Iritis Jaundice Keratitis
 Lacrimation decreased Lacrimation increased Laryngitis
 Lethargy Leukopenia Lip dry Lip swelling Liver
 function test abnormal Loss of consciousness Lymphadenopathy
 Lymphocytosis Madarosis Malaise Mass Melaena
 Menopausal symptoms Micturition urgency Mouth ulceration
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Myalgia Nasal dryness Nausea Nervousness Neuropathy
 peripheral Neutropenia Nodule Oedema Oedema peripheral Optic
 neuritis Osteoarthritis Otitis externa Pain Pancreatic
 disorder Pancreatitis acute Pancytopenia Papilloedema
 Paraesthesia Pharyngitis Photophobia Photosensitivity
 reaction Pleural disorder Pleural effusion Pneumonia Pollakiuria
 Proctalgia Pruritus Pulmonary oedema Purpura Pyogenic
 granuloma Rash Rash maculo-papular Rash papular Rash
 pustular Rash vesicular Rectal tenesmus Renal impairment
 Retinal haemorrhage Rhinitis Right ventricular failure
 Saliva altered Salivary hypersecretion Scab Scotoma
 Seborrhoeic dermatitis Sepsis Shock Sinusitis Skin
 atrophy Skin discolouration Skin disorder Skin exfoliation
 Skin fissures Skin hypertrophy Skin irritation Skin mass
 Skin oedema Skin ulcer Somnolence Sticky skin Stomatitis
 Subdural haematoma Swelling Syncope Tachycardia
 Tension Thirst Thrombocytopenia Thrombocytosis
 Tinnitus Tongue ulceration Type 2 diabetes mellitus Ulcer
 Urinary incontinence Urinary tract infection Urine

abnormality Urine analysis abnormal Urticaria Vascular purpura
Vasculitis Vision blurred Visual acuity reduced Vomiting
Vulvovaginitis Weight decreased Weight increased White blood
cell count decreased White blood cell disorder Xerophthalmia

Excitatory amino acid transporter 1 - Group: Transporter

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric acid type B receptor, subunit 1 - Group: Receptor
Treated with:

baclofen: approved small molecule (192 associated side effects) For the alleviation of signs and symptoms of spasticity resulting from multiple sclerosis, particularly for the relief of flexor spasms and concomitant pain, clonus, and muscular rigidity.
progabide: approved small molecule (0 associated side effects)

Indicated for the treatment of epilepsy.

vigabatrin: approved small molecule (213 associated side effects) For use as an adjunctive treatment (with other drugs) in treatment resistant epilepsy, complex partial seizures, secondary generalized seizures, and for monotherapy use in infantile spasms in West syndrome.

318 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal behaviour Abnormal dreams
Accommodation disorder Acute psychosis Affect lability
Ageusia Aggression Agitation Akathisia Albuminuria
Alopecia Amnesia Anaemia Angioedema Anxiety
Aortic dissection Apathy Aplasia Apnoea
Arachnoiditis Arrhythmia Arthralgia Arthropathy Aspartate
aminotransferase increased Aspiration Asthenia Asthenopia
Ataxia Atrophy Autonomic nervous system imbalance
Back pain Bladder pain Bladder spasm Blindness Blood alkaline
phosphatase increased Body temperature decreased Body temperature
increased Bradycardia Bronchitis Candidiasis Cardiac output
decreased Cerebral ischaemia Chest pain Chills Cholestasis
Coma Completed suicide Confusional state Congenital anomaly
Congenital genital malformation Congenital oral malformation
Conjunctivitis Constipation Conversion disorder
Convulsion Coordination abnormal Cough Croup infectious
Deafness Death Decreased appetite Deep vein thrombosis
Dehydration Delayed puberty Delirium Dentofacial anomaly
Dependence Depressed level of consciousness Depressed mood
Dermatitis contact Developmental coordination disorder

Developmental delay Diarrhoea Diplopia Discomfort
 Disorientation Disturbance in attention Dizziness Drug
 dependence Drug ineffective Dry mouth Dysarthria Dysmenorrhoea
 Dysmorphism Dyspepsia Dysphagia Dysphoria Dysplasia
 Dyspnoea Dystonia Dysuria Ear disorder Ear
 infection Ear malformation Ear pain Ejaculation disorder
 Electroencephalogram abnormal Embolism Encephalopathy
 Enuresis Epilepsy Erectile dysfunction Euphoric mood
 Expressive language disorder External ear disorder Eye
 disorder Eye pain Eyelid ptosis Face oedema Faecal
 incontinence Fatigue Feeling abnormal Flat affect Flatulence
 Fluid retention Flushing Gait disturbance Gastric disorder
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
 Haemangioma Haemangioma congenital Haematochezia Haematuria
 Haemoglobin Haemorrhage Haemorrhoids Hallucination
 Hamartoma Headache Hip dysplasia Hydronephrosis
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hyperreflexia Hypersensitivity Hypertension
 Hyperthermia Hyperthermia malignant Hypertonia
 Hyperventilation Hypoaesthesia Hypomania Hyporeflexia
 Hypotension Hypothermia Hypotonia Hypoventilation Hypoxia
 Ileus Ill-defined disorder Incontinence Increased
 appetite Infection Influenza Insomnia Irritability
 Ischaemia Joint swelling Laryngeal oedema Leiomyoma
 Lethargy Leukocytosis Limb malformation Limb reduction
 defect Loss of consciousness Low set ears Maculopathy Major
 depression Malaise Mania Memory impairment Meningitis Menstrual
 disorder Mental disability Mental disorder Miosis Mood swings
 Muscle relaxant therapy Muscle spasticity Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 disorder Musculoskeletal pain Musculoskeletal stiffness
 Myalgia Mydriasis Myoclonic epilepsy Myoclonus Nasal
 congestion Nasopharyngitis Nausea Neoplasm malignant
 Nephrolithiasis Nervous system disorder Nervousness
 Neuritis Neuropathy peripheral Nightmare Nocturia
 Nuchal rigidity Nystagmus Oedema Oedema peripheral
 Oesophagitis Oliguria Opisthotonus Optic atrophy
 Optic neuritis Organ failure Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Otitis media
 acute Pain Pain in extremity Pallor Palpitations
 Paraesthesia Paranoia Personality disorder Petechiae
 Photophobia Pneumonia Pneumonia aspiration Pollakiuria
 Postictal state Pruritus Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
 function test decreased Purpura Rash Rash papular Renal
 aplasia Renal failure Respiratory depression Respiratory
 disorder Respiratory failure Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retinal degeneration Retinitis pigmentosa
 Rhinitis Salivary hypersecretion Scotoma Sedation
 Sensory disturbance Sensory loss Sexual dysfunction
 Shock Sinus headache Sinusitis Skin disorder Skin ulcer
 Somnolence Speech disorder Status epilepticus Strabismus
 Stridor Stupor Suicide attempt Supernumerary nipple

Swelling Syncope Tachycardia Talipes Tension
Thinking abnormal Thirst Throat irritation Thrombophlebitis
Thrombosis Tinnitus Tongue disorder Tooth disorder
Toothache Toxic epidermal necrolysis Tremor Ulcer Upper
respiratory tract infection Urinary incontinence Urinary retention
Urinary tract infection Urticaria Uterine leiomyoma
Uterovaginal prolapse Vaginal infection Vaginal inflammation
Vascular purpura Vasodilation procedure Venous thrombosis
Ventricular arrhythmia Vertigo Vesicoureteric reflux Viral
diarrhoea Viral infection Vision blurred Visual acuity reduced
Visual impairment Vomiting Weight decreased Weight increased
Wound dehiscence Wound secretion

ATP-binding cassette transporter sub-family C member 8 - Group:
Transporter

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
(0 associated side effects) For nutritional supplementation,
also for treating dietary shortage or imbalance

glimepiride: approved small molecule (59 associated side
effects) For concomitant use with insulin for the treatment of
noninsulin-dependent (type 2) diabetes mellitus.

chlorpropamide: approved small molecule (33 associated side
effects) For treatment of NIDDM in conjunction with diet and
exercise.

nateglinide: approved small molecule (32 associated side
effects) For the treatment of non-insulin dependent-diabetes
mellitus in conjunction with diet and exercise.

repaglinide: approved small molecule (51 associated side
effects) For the treatment of non-insulin dependent-diabetes
mellitus in conjunction with diet and exercise.

glyburide: approved small molecule (52 associated side effects)
Indicated as an adjunct to diet to lower the blood glucose in
patients with NIDDM whose hyperglycemia cannot be satisfactorily
controlled by diet alone.

glipizide: approved small molecule (80 associated side effects)
For use as an adjunct to diet for the control of hyperglycemia
and its associated symptomatology in patients with non-insulin-
dependent diabetes mellitus (NIDDM; type II), formerly known as
maturity-onset diabetes, after an adequate trial of dietary therapy
has proved unsatisfactory.

gliclazide: approved small molecule (201 associated side
effects) For the treatment of NIDDM in conjunction with diet and
exercise.

tolbutamide: approved small molecule (0 associated side
effects) For treatment of NIDDM (non-insulin-dependent diabetes
mellitus) in conjunction with diet and exercise.

gliquidone: approved small molecule (0 associated side effects)
Used in the treatment of diabetes mellitus type 2.

mitiglinide: approved small molecule (0 associated side
effects) For the treatment of type 2 diabetes.

glisoxepide: approved small molecule (0 associated side
effects) For the treatment of diabetes mellitus type 2.

glycodiazine: approved small molecule (0 associated side effects) Glycodiazine is used concomitantly with insulin for the treatment of noninsulin-dependent (type 2) diabetes mellitus.

254 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Acute coronary syndrome
Agranulocytosis Albuminuria Alopecia Anaemia Anal
fissure Anaphylactic shock Anaphylactoid reaction Angina
pectoris Angioedema Anxiety Aplastic anaemia Arrhythmia
Arterial disorder Arteritis Arthralgia Arthritis Arthropathy
Asthenia Asthma Back pain Balanoposthitis Benign
breast neoplasm Benign gastrointestinal neoplasm Bladder pain
Blindness Blood triglycerides increased Body temperature
increased Bone pain Breast disorder female Breast neoplasm
Bronchitis Bursitis Cardiac disorder Cardiac failure
Cardiac failure congestive Carpal tunnel syndrome Cataract
Cerebrovascular accident Cerebrovascular disorder Chest
pain Chills Cholestasis Colitis Coma Confusional state
Congenital anomaly Conjunctival haemorrhage
Conjunctivitis Constipation Coronary artery disease
Cough Crocodile tears syndrome Cystitis Cystitis
noninfective Deafness Decreased appetite Dermatitis atopic
Dermatitis exfoliative Developmental delay Diarrhoea
Diplopia Discomfort Disturbance in sexual arousal
Dizziness Drug interaction Dry mouth Dry skin Duodenal
ulcer Dyspepsia Dyspnoea Dysuria Ear infection Eczema
Electrocardiogram abnormal Eosinophilia Epistaxis
Erectile dysfunction Erythema Erythema multiforme
Erythropenia Faecal incontinence Fatigue Feeling
abnormal Flatulence Fluid retention Flushing Fungal infection
Fungal skin infection Gait disturbance Gastritis
Gastroenteritis Gastrointestinal disorder Gastrointestinal
haemorrhage Gastrointestinal neoplasm Gastrointestinal pain
Gastrointestinal tract irritation Gastrooesophageal reflux
disease Glaucoma Glycosuria Gout Haematochezia Haemoglobin
Haemolytic anaemia Haemorrhage Haemorrhoids Headache
Hearing impaired Hepatic enzyme increased Hepatic failure
Hepatic function abnormal Hepatitis Hepatitis cholestatic
Hepatomegaly Hernia Hernia congenital Hot flush
Hunger Hypercholesterolaemia Hyperhidrosis
Hyperkeratosis Hyperlipidaemia Hypersensitivity
Hypertension Hypertonia Hypertriglyceridaemia
Hypoaesthesia Hypoglycaemia Hypoglycaemic coma
Hyponatraemia Hypopituitarism Hypotension Hypothyroidism
Ill-defined disorder Inappropriate antidiuretic hormone
secretion Incontinence Increased appetite Infarction
Infection Influenza Insomnia Ischaemia Jaundice
Jaundice cholestatic Laboratory test abnormal Lacrimation
increased Leukocytoclastic vasculitis Leukopenia Libido decreased
Lipid metabolism disorder Liver disorder Loss of
consciousness Malaise Malnutrition Mastitis Melaena
Menopausal symptoms Menstrual disorder Mental disorder
Metabolic disorder Migraine Muscle spasms

Musculoskeletal discomfort Myalgia Myocardial infarction
 Myocardial ischaemia Nail disorder Nausea Neoplasm
 Neoplasm malignant Nephrolithiasis Nephropathy Nervous
 system disorder Nervousness Neuralgia Neuropathy peripheral
 Nocturia Normal pressure hydrocephalus Oedema
 Oedema peripheral Oesophagitis Onychomycosis
 Osteoarthritis Otitis media Pain Pain in extremity
 Palpitations Pancreatitis Pancreatitis acute
 Pancytopenia Paraesthesia Pharyngitis Photosensitivity
 reaction Pneumonia Pollakiuria Polyuria Porphyria Porphyria
 non-acute Proctocolitis Prostatic disorder Pruritus
 Purpura Rash Rash maculo-papular Renal cyst Renal
 failure Renal failure acute Respiratory tract infection
 Retinal disorder Retinal haemorrhage Rhinitis Salivary
 hypersecretion Shock Sinusitis Skin disorder Skin ulcer
 Somnolence Spine malformation Syncope Tachycardia
 Tendonitis Tension Thirst Thrombocytopenia
 Thrombophlebitis Tinnitus Tooth disorder Toothache
 Tracheitis Tremor Ulcer Upper respiratory tract infection
 Urinary tract infection Urine output increased Urticaria
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasculitis Vasodilation procedure Vein disorder Vertigo
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitreous disorder Vomiting Weight increased
 Xerophthalmia

Folate receptor beta - Group: Receptor

Treated with:

folic acid: approved, nutraceutical small molecule (0 associated
 side effects) For treatment of folic acid deficiency,
 megaloblastic anemia and in anemias of nutritional supplements,
 pregnancy, infancy, or childhood.

known side effects mediated through drugs targeting this protein:

Beta-adrenergic receptor kinase 1 - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
 (0 associated side effects) For nutritional supplementation,
 also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Muscarinic acetylcholine receptor M1 - Group: Receptor

Treated with:

cevimeline: approved small molecule (422 associated side
 effects) For the treatment of symptoms of dry mouth in patients
 with Sjögren's Syndrome.

succinylcholine: approved small molecule (27 associated side
 effects) Used in surgical procedures where a rapid onset and brief

duration of muscle relaxation is needed (includes intubation, endoscopies, and ECT)

trospium: approved small molecule (119 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency, detrusor instability and frequency of micturition.

oxyphenonium: approved small molecule (0 associated side effects) For the treatment of visceral spasms

benzotropine: approved small molecule (0 associated side effects) For use as an adjunct in the therapy of all forms of parkinsonism and also for use in the control of extrapyramidal disorders due to neuroleptic drugs.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

disopyramide: approved small molecule (85 associated side effects) For the treatment of documented ventricular arrhythmias, such as sustained ventricular tachycardia, ventricular pre-excitation and cardiac dysrhythmias. It is a Class Ia antiarrhythmic drug.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

ipratropium bromide: approved small molecule (116 associated side effects) For maintenance treatment of bronchospasm associated with chronic obstructive pulmonary disease, including chronic bronchitis and emphysema.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

metixene: approved small molecule (0 associated side effects)
Used for the symptomatic treatment of parkinsonism.

buclizine: approved small molecule (0 associated side effects)
For prevention and treatment of nausea, vomiting, and dizziness associated with motion sickness and vertigo (dizziness caused by other medical problems).

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

doxylamine: approved small molecule (0 associated side effects)
Used alone as a short-term sleep aid, in combination with other drugs as a night-time cold and allergy relief drug. Also used in combination with Vitamin B6 (pyridoxine) to prevent morning sickness in pregnant women.

trihexyphenidyl: approved small molecule (43 associated side effects) Indicated for the treatment of parkinson's disease and extrapyramidal reactions caused by drugs.

oxyphencyclimine: approved small molecule (0 associated side effects) For the treatment of peptic ulcer disease and the relief of smooth muscle spasms in gastrointestinal disorders.

procyclidine: approved small molecule (0 associated side effects) For the treatment of all forms of Parkinson's Disease, as

well as control of extrapyramidal reactions induced by antipsychotic agents.

ethopropazine: approved small molecule (0 associated side effects) For use in the treatment of Parkinson's disease and also used to control severe reactions to certain medicines such as reserpine.

carbachol: approved small molecule (12 associated side effects) Primarily used in the treatment of glaucoma, but is also used during ophthalmic surgery.

promazine: approved small molecule (0 associated side effects) Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

hyoscyamine: approved small molecule (0 associated side effects) For treatment of bladder spasms, peptic ulcer disease, diverticulitis, colic, irritable bowel syndrome, cystitis, and pancreatitis. Also used to treat certain heart conditions, to control the symptoms of Parkinson's disease and rhinitis.

cyproheptadine: approved small molecule (63 associated side effects) For treatment of perennial and seasonal allergic rhinitis, vasomotor rhinitis, allergic conjunctivitis due to inhalant allergens and foods, mild uncomplicated allergic skin manifestations of urticaria and angioedema, amelioration of allergic reactions to blood or plasma, cold urticaria, dermatographism, and as therapy for anaphylactic reactions adjunctive to epinephrine.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

methylscopolamine: approved small molecule (29 associated side effects) Used as adjunctive therapy for the treatment of peptic ulcer. Also used to treat nausea and vomiting due to motion sickness.

darifenacin: approved small molecule (69 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency.

tridihexethyl: approved small molecule (0 associated side effects) Used as an adjunct in the treatment of peptic ulcer disease and in Acquired nystagmus

triflupromazine: approved small molecule (0 associated side effects) Used mainly in the management of psychoses. Also used to control nausea and vomiting.

anisotropine methylbromide: approved small molecule (0 associated side effects) For use in conjunction with antacids or histamine H₂-receptor antagonists in the treatment of peptic ulcer, to reduce further gastric acid secretion and delay gastric emptying.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

pirenzepine: approved small molecule (0 associated side effects) For the treatment of peptic ulcer, gastric ulcer, and duodenal ulcer.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD) in children, and mild dementia-associated agitation in nonpsychotic individuals.

homatropine methylbromide: approved small molecule (0 associated side effects) Used in conjunction with antacids or histamine H2-receptor antagonists in the treatment of peptic ulcers, gastric ulcers and duodenal ulcers, to reduce further gastric acid secretion and delay gastric emptying.

benzquinamide: approved small molecule (0 associated side effects) Used to prevent and treat nausea and vomiting associated with anesthesia and surgery, administered intramuscularly or intravenously.

clidinium: approved small molecule (0 associated side effects) For the treatment of peptic ulcer disease and also to help relieve abdominal or stomach spasms or cramps due to colicky abdominal pain, diverticulitis, and irritable bowel syndrome.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

propantheline: approved small molecule (28 associated side effects) For the treatment of enuresis. It has also been used for hyperhidrosis, and cramps or spasms of the stomach, intestines or bladder.

cryptenamine: approved small molecule (0 associated side effects) For the treatment of hypertension.

dicyclomine: approved small molecule (85 associated side effects)

minaprine: approved small molecule (0 associated side effects) For the treatment of depression

tropicamide: approved small molecule (14 associated side effects) Indicated to induce mydriasis (dilation of the pupil) and cycloplegia (paralysis of the ciliary muscle of the eye) in diagnostic procedures, such as measurement of refractive errors and examination of the fundus of the eye.

biperiden: approved small molecule (13 associated side effects) For use as an adjunct in the therapy of all forms of

parkinsonism and control of extrapyramidal disorders secondary to neuroleptic drug therapy.

brompheniramine: approved small molecule (27 associated side effects) For the treatment of the symptoms of the common cold and allergic rhinitis, such as runny nose, itchy eyes, watery eyes, and sneezing.

flupenthixol: approved small molecule (0 associated side effects) For use in the treatment of schizophrenia and depression

cocaine: illicit, approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

methantheline: approved small molecule (0 associated side effects) For the treatment of peptic ulcer disease, irritable bowel syndrome, pancreatitis, gastritis, biliary dyskinesia, pylorospasm, and reflex neurogenic bladder in children.

cycrimine: approved small molecule (0 associated side effects) For treatment and management of Parkinson's disease.

cyclopentolate: approved small molecule (27 associated side effects) Used mainly to produce mydriasis and cycloplegia for diagnostic purposes.

glycopyrrolate: approved small molecule (85 associated side effects) For use as a preoperative antimuscarinic to reduce salivary, tracheobronchial, and pharyngeal secretions, to reduce the volume and free acidity of gastric secretions and to block cardiac vagal inhibitory reflexes during induction of anesthesia and intubation.

tolterodine: approved small molecule (51 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

oxybutynin: approved small molecule (163 associated side effects) For the treatment of overactive bladder.

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

pilocarpine: approved small molecule (207 associated side effects) For the treatment of radiation-induced dry mouth (xerostomia) and symptoms of dry mouth in patients with Sjögrens syndrome.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

flavoxate: approved small molecule (18 associated side effects) For symptomatic relief of dysuria, urgency, nocturia, suprapubic pain, frequency and incontinence as may occur in cystitis, prostatitis, urethritis, urethrocystitis/urethrotrigonitis.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes,

especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

escitalopram: approved small molecule (0 associated side effects) Labeled indications include major depressive disorder (MDD) and generalized anxiety disorder (GAD). Unlabeled indications include treatment of mild dementia-associated agitation in nonpsychotic patients.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

diphenidol: approved small molecule (0 associated side effects)

For use in the prevention and symptomatic treatment of peripheral (labyrinthine) vertigo and associated nausea and vomiting that occur in such conditions as Meniere's disease and surgery of the middle and inner ear. Also for the control of nausea and vomiting associated with postoperative states, malignant neoplasms, labyrinthine disturbances, antineoplastic agent therapy, radiation sickness, and infectious diseases.

metoclopramide: approved small molecule (75 associated side effects) For the treatment of gastroesophageal reflux disease (GERD). It is also used in treating nausea and vomiting, and to increase gastric emptying.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

tiotropium: approved small molecule (60 associated side effects) Used in the management of chronic obstructive pulmonary disease (COPD).

solifenacin: approved small molecule (56 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency.

molindone: approved small molecule (46 associated side effects) Molindone is used for the management of the manifestations of psychotic disorders.

arecoline: experimental small molecule (0 associated side effects)

mepenzolate: approved small molecule (30 associated side effects)

fesoterodine: approved small molecule (50 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

1156 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abdominal

tenderness Abnormal behaviour Abnormal dreams Abnormal faeces
Abscess Accommodation disorder Acidosis Acne Acute
coronary syndrome Acute psychosis Adenocarcinoma Adjustment
disorder Affect lability Ageusia Aggression Agitation
Agoraphobia Agranulocytosis Akathisia Akinesia Alanine
aminotransferase increased Albuminuria Alcohol abuse Alcohol
intolerance Alkalosis Alopecia Altered state of consciousness
Alveolitis allergic Amblyopia Amenorrhoea Amnesia
Anaemia Anaemia macrocytic Anaphylactic shock
Anaphylactoid reaction Anger Angina pectoris Angioedema
Angiopathy Angle closure glaucoma Anhidrosis Anisocytosis
Anorectal discomfort Anorectal disorder Anorgasmia
Antinuclear antibody positive Antisocial behaviour
Antisocial personality disorder Anxiety Aortic dissection
Apathy Aphasia Aphthous stomatitis Aplasia
Aplastic anaemia Apnoea Appendicitis Application site
reaction Arrhythmia Arrhythmia supraventricular Arterial disorder
Arteriosclerosis Arteritis Arthralgia Arthritis Arthropathy
Asocial behaviour Aspartate aminotransferase increased
Asphyxia Aspiration Assisted fertilisation Asthenia
Asthma Ataxia Atelectasis Athetosis Atrial
fibrillation Atrial flutter Atrioventricular block first
degree Atrioventricular dissociation Atrophic
vulvovaginitis Atrophy Autonomic nervous system imbalance
Azoospermia Azotaemia Back pain Bacterial infection
Balance disorder Basal cell carcinoma Basophilia Benign
prostatic hyperplasia Bladder dilatation Bladder discomfort
Bladder neck obstruction Bladder pain Bleeding time
prolonged Blepharitis Blepharospasm Blindness Blister Blood
alkaline phosphatase increased Blood amylase increased Blood
bilirubin increased Blood cholesterol increased Blood creatine
phosphokinase increased Blood creatinine increased Blood
disorder Blood electrolytes abnormal Blood glucose decreased
Blood glucose increased Blood insulin increased Blood
lactate dehydrogenase increased Blood potassium decreased Blood
potassium increased Blood pressure abnormal Blood pressure
diastolic decreased Blood pressure fluctuation Blood pressure
increased Blood pressure systolic decreased Blood prolactin
increased Blood triglycerides increased Blood triglycerides
normal Blood urea increased Blood uric acid increased Blood
urine Blood urine present Blunted affect Body temperature
decreased Body temperature increased Bone disorder Bone pain
Bradycardia Bradykinesia Bradyphrenia Brain oedema
Breast atrophy Breast cancer Breast cyst Breast disorder
female Breast enlargement Breast feeding Breast neoplasm
Breast pain Breath odour Bronchitis Bronchopneumopathy
Bronchospasm Bronchospasm paradoxical Bruxism
Buccoglossal syndrome Bulimia nervosa Bundle branch block
Burning sensation Bursitis Cachexia Calculus urinary
Candidiasis Carbohydrate tolerance decreased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiac flutter Cardiac murmur
Cardiac output decreased Cardio-respiratory arrest
Cardiomegaly Cardiomyopathy Cardiopulmonary failure
Cardiovascular disorder Carpal tunnel syndrome Cataplexy

Cataract Catatonia Cells in urine Cellulitis Cerebellar
 syndrome Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cervix disorder Change of bowel habit Chapped
 lips Cheilitis Chest discomfort Chest pain Chills Choking
 Cholecystitis Cholelithiasis Cholestasis Cholinergic
 syndrome Chondropathy Chorea Choreoathetosis Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Ciliary muscle spasm Clonus Coccydynia Cognitive
 disorder Cogwheel rigidity Cold sweat Colitis Colitis
 ulcerative Colonic obstruction Coma Completed suicide Condition
 aggravated Conduction disorder Confusional state Congenital eye
 disorder Conjunctival disorder Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal degeneration Corneal lesion
 Corneal oedema Corneal opacity Coronary artery disease
 Costochondritis Cough Crying Cyanosis Cycloplegia
 Cystitis Cystitis noninfective Deafness Death Decreased
 appetite Decubitus ulcer Deep vein thrombosis Deficiency
 anaemia Dehydration Delirium Delusion Dementia Dental
 caries Dependence Depersonalisation Depressed level of
 consciousness Depression Depression suicidal Depressive
 symptom Derealisation Dermal cyst Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diabetes mellitus Diabetic coma Diabetic
 hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
 ketoacidosis Diarrhoea Diarrhoea haemorrhagic Diplopia
 Discomfort Disease progression Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness exertional
 Dizziness postural Drooling Drug abuse Drug dependence
 Drug eruption Drug hypersensitivity Drug ineffective Drug
 interaction Drug withdrawal syndrome Dry eye Dry mouth Dry
 skin Dry throat Duodenal ulcer Duodenitis Dysaesthesia
 Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphemia Dysphonia Dysphoria Dyspnoea
 Dystonia Dysuria Ear disorder Ear infection Ear
 pain Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Elastosis perforans Elderly
 Electrocardiogram QRS complex Electrocardiogram QT
 prolonged Electrocardiogram ST segment Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emphysema Encephalopathy
 Endocrine disorder Endometrial disorder Energy increased
 Enteritis Enterocolitis Enuresis Eosinophilia
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Euphoric mood Exfoliative rash Exophthalmos Exostosis
 Extensor plantar response Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye discharge Eye
 disorder Eye haemorrhage Eye infection Eye inflammation Eye
 irritation Eye pain Eyelid disorder Eyelid function disorder

Eyelid oedema Eyelid ptosis Face oedema Facial pain
 Facial paresis Faecal incontinence Faecalith Faecaloma
 Faeces hard Failure to thrive Fasciitis Fasting Fatigue
 Fear Feeling abnormal Feeling cold Feeling hot Feeling
 jittery Female sexual dysfunction Fibrocystic breast disease
 Fibrosis Flank pain Flat affect Flatulence Fluid retention
 Flushing Folliculitis Food interaction Formication
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gamma-glutamyltransferase increased
 Gangrene Gastric disorder Gastric pH decreased Gastric
 ulcer Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal motility disorder Gastrointestinal pain
 Gastrointestinal sounds abnormal Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Genital disorder female Genital disorder male
 Gigantism Gingival bleeding Gingival hyperplasia Gingival
 pain Gingival recession Gingivitis Glaucoma Globulins
 increased Glomerulonephritis membranous Glossitis Glossodynia
 Glucose tolerance decreased Glucose tolerance impaired
 Glycosuria Glycosylated haemoglobin increased Goitre Gout
 Grand mal convulsion Grimacing Groin pain Gynaecomastia
 Haematemesis Haematochezia Haematocrit decreased
 Haematoma Haematuria Haemoglobin decreased Haemoglobin
 increased Haemoglobinaemia Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhagic disorder Haemorrhoids Hair disorder Hair
 growth abnormal Hallucination Hallucination, auditory
 Hallucination, visual Halo vision Hangover Head and neck
 cancer Head discomfort Headache Hearing impaired Heart
 disease congenital Heart rate irregular Hemiparesis Hemiplegia
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatic steatosis Hepatitis Hepatitis
 viral Hepatobiliary disease Hepatomegaly Hepatosplenomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups Hirsutism Homicidal ideation Hormone
 level abnormal Hostility Hot flush Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hypercalcaemia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hypernatraemia
 Hyperparathyroidism Hyperpathia Hyperphosphataemia
 Hyperplasia Hyperprolactinaemia Hyperproteinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hypertensive crisis Hyperthermia
 Hyperthermia malignant Hyperthyroidism Hypertonia Hypertonic
 bladder Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hyphaema Hypoaesthesia Hypoaesthesia
 oral Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypoxia

Idiopathic thrombocytopenic purpura Ileitis Ileus Ileus
 paralytic Ill-defined disorder Illusion Immobile Immune
 system disorder Immunoglobulins increased Impaired gastric
 emptying Impulse-control disorder Inappropriate antidiuretic
 hormone secretion Incoherent Incontinence Increased appetite
 Increased bronchial secretion Induration Infarction
 Infection Infertility female Infestation Inflammation
 Influenza Influenza like illness Inguinal hernia Injection
 site mass Injection site pain Injection site phlebitis
 Injection site reaction Insomnia Intention tremor
 Intentional self-injury Interstitial lung disease
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intraocular pressure increased Iris
 adhesions Iritis Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Keratoconjunctivitis
 sicca Keratopathy Ketoacidosis Ketosis Laboratory test
 abnormal Labyrinthitis Lacrimal disorder Lacrimation decreased
 Lacrimation increased Laryngeal disorder Laryngeal oedema
 Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lichen planus Lichenoid keratosis Lip blister Lip dry
 Liver disorder Liver function test abnormal Logorrhoea Loss
 of consciousness Loss of libido Lower respiratory tract infection
 Lung adenocarcinoma stage I Lung disorder Lymphadenitis
 Lymphadenopathy Lymphocyte count abnormal Lymphocytic
 leukaemia Lymphocytosis Lymphoedema Lymphopenia Macular hole
 Macule Maculopathy Major depression Malaise Male sexual
 dysfunction Malignant melanoma Mania Masked facies Mass
 Mastitis Mediastinal disorder Megacolon Melaena
 Memory impairment Meningitis Menopausal symptoms Menorrhagia
 Menstrual disorder Menstruation irregular Mental disability
 Mental disorder Mental retardation Mental status changes
 Methaemoglobinaemia Metrorrhagia Microcytic anaemia
 Micturition disorder Micturition urgency Middle ear
 disorder Migraine Miosis Mitral valve incompetence
 Moaning Mobility decreased Monocytosis Mood swings
 Motion sickness Mouth haemorrhage Mouth ulceration Movement
 disorder Mucosal inflammation Mucosal ulceration Mucous
 membrane disorder Multiple hereditary exostosis Multiple
 sclerosis Muscle contractions involuntary Muscle contracture
 Muscle enzyme increased Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle tightness Muscle
 twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenic syndrome Mydriasis Myelitis Myocardial
 infarction Myocardial ischaemia Myocarditis Myoclonus Myopathy
 Myopia Myositis Nail discolouration Nail disorder
 Nasal congestion Nasal discomfort Nasal disorder Nasal
 dryness Nasal oedema Nasal polyps Nasal ulcer

Nasopharyngitis Nausea Neck pain Necrosis Necrosis
 ischaemic Negativism Neoplasm Neoplasm malignant Nephritis
 Nephrolithiasis Nephrotic syndrome Nervous system
 disorder Nervousness Neuralgia Neuritis Neurodermatitis
 Neuroleptic malignant syndrome Neurological symptom
 Neuropathy peripheral Neurosis Neutropenia Neutrophil count
 decreased Neutrophil count increased Night blindness Night
 sweats Nightmare Nocturia Nodal arrhythmia Nodal rhythm
 Normochromic normocytic anaemia Nuchal rigidity Nystagmus
 Obesity Obsessive thoughts Obstruction Obstructive
 airways disorder Ocular hyperaemia Oculogyric crisis Oedema mouth
 Oedema peripheral Oesophageal achalasia Oesophageal disorder
 Oesophageal stenosis Oesophageal ulcer Oesophagitis
 Oliguria Onychomycosis Open angle glaucoma Operative
 haemorrhage Opisthotonus Optic neuritis Oral candidiasis Oral
 disorder Oral pain Orchitis noninfective Orgasm abnormal
 Oropharyngeal discomfort Oropharyngeal pain
 Oropharyngeal spasm Orthostatic hypotension
 Osteoarthritis Osteoarthropathy Osteomyelitis
 Osteonecrosis Osteopenia Osteoporosis Otitis externa
 Otitis media Ovarian cyst Ovarian disorder Pain Pain
 in extremity Pain in jaw Pallor Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia Panic
 attack Panic disorder Panic disorder with agoraphobia Panic
 reaction Papule Paraesthesia Paraesthesia oral Paralysis
 Paranoia Parity Parkinsonian gait Paronychia Parosmia
 Parotid gland enlargement Parotitis Pathological fracture
 Pelvic pain Peptic ulcer Pericardial effusion Pericardial
 haemorrhage Pericarditis Periodontitis Periorbital oedema
 Peripheral ischaemia Peripheral vascular disorder Peritonitis
 Personality disorder Petechiae Pharyngeal disorder
 Pharyngeal erythema Pharyngeal oedema Pharyngitis Phlebitis
 Phlebitis superficial Phobia Phonological disorder
 Photophobia Photopsia Photosensitivity reaction
 Pigmentation disorder Plantar fasciitis Platelet count
 decreased Platelet disorder Pleural disorder Pleural effusion
 Pleurisy Pneumonia Pneumonia aspiration Poisoning
 Pollakiuria Polycythaemia Polydipsia Polyp Polyuria
 Porphyria Post procedural haemorrhage Postpartum disorder
 Pregnancy Premature baby Premature delivery Premature
 ejaculation Premenstrual syndrome Pressure of speech Presyncope
 Priapism Proctalgia Productive cough Prostate cancer
 Prostatic disorder Prostatitis Protein urine present
 Proteinuria Protrusion tongue Pruritus Pruritus genital
 Psoriasis Psychiatric symptom Psychomotor retardation
 Psychotic disorder Pulmonary congestion Pulmonary
 embolism Pulmonary fibrosis Pulmonary function test decreased
 Pulmonary hypertension Pulmonary oedema Punctate keratitis
 Pupils unequal Purpura Pyelonephritis Pyuria Rales
 Rash erythematous Rash generalised Rash macular Rash
 maculo-papular Rash morbilliform Rash papular Rash pustular
 Rash scarlatiniform Rash vesicular Rectal haemorrhage
 Rectal tenesmus Red blood cell abnormality Red blood cell
 count decreased Red blood cell sedimentation rate increased
 Reflux oesophagitis Regressive behaviour Renal failure

acute Renal impairment Renal pain Reproductive tract disorder
Respiratory alkalosis Respiratory arrest Respiratory
depression Respiratory disorder Respiratory distress Respiratory
failure Respiratory tract congestion Respiratory tract infection
Respiratory tract infection viral Restless legs syndrome
Retching Retinal deposits Retinal detachment Retinal
disorder Retinal haemorrhage Retinitis pigmentosa
Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
Salivary gland enlargement Salivary gland pain Salivary
hypersecretion Salpingitis Sarcosinaemia Scab Schizoaffective
disorder Schizophreniform disorder Sciatica Scleritis
Scleroderma Scotoma Seasonal allergy Seborrhoeic dermatitis
Sedation Sensation of heaviness Sensitisation Sensory
loss Sepsis Septic shock Sexual dysfunction Shock
Sialoadenitis Sicca syndrome Sinus arrest Sinus
arrhythmia Sinus bradycardia Sinus congestion Sinus disorder Sinus
headache Sinus tachycardia Sinusitis Skin discolouration Skin
disorder Skin exfoliation Skin hypertrophy Skin irritation Skin
odour abnormal Skin papilloma Skin ulcer Skin warm Sleep
apnoea syndrome Sleep disorder Sleep paralysis Sleep talking
Sluggishness Sneezing Social avoidant behaviour
Somnambulism Somnolence Speech disorder Sputum increased
Squamous cell carcinoma Status asthmaticus Status
epilepticus Stevens-Johnson syndrome Sticky skin Stomatitis
Strabismus Strangury Stridor Stupor Subarachnoid
haemorrhage Subdural haematoma Sudden death Suicidal ideation
Suicide attempt Sulphaemoglobinaemia Suppressed lactation
Supraventricular extrasystoles Supraventricular tachycardia
Surgery Suspiciousness Swelling Swelling face
Swollen tongue Syncope Synovitis Systemic lupus
erythematosus Tachyarrhythmia Tachycardia Tachypnoea Tardive
dyskinesia Tearfulness Temperature intolerance Tenderness
Tendon disorder Tendonitis Tenosynovitis Tension
Tension headache Teratogenicity Testicular disorder
Testicular pain Testicular swelling Tetanus Tetany
Thinking abnormal Thirst Thought blocking Throat irritation
Throat tightness Thrombocytopenia Thrombocytopenic purpura
Thrombocytosis Thrombophlebitis Thrombosis Thyroiditis Tic
Tinnitus Tongue coated Tongue discolouration Tongue
disorder Tongue dry Tongue geographic Tongue oedema Tongue
paralysis Tongue spasm Tongue ulceration Tonsillar hypertrophy
Tooth abscess Tooth disorder Tooth impacted Tooth
infection Tooth malformation Toothache Torsade de pointes
Torticollis Toxic epidermal necrolysis Tracheal disorder
Tracheostomy infection Transaminases increased Transient
ischaemic attack Tremor Trismus Tuberculin test positive
Tubulointerstitial nephritis Type I hypersensitivity Ulcer
haemorrhage Ulcerative keratitis Unintended pregnancy Upper
respiratory tract infection Urethral disorder Urethral pain
Urethritis Urinary hesitation Urinary incontinence
Urinary retention Urinary tract disorder Urinary tract
infection Urine abnormality Urine analysis abnormal Urine flow
decreased Urine odour abnormal Urine output increased Urogenital
disorder Urosepsis Urticaria Uterine disorder Uterine

haemorrhage Uterine leiomyoma Uterine neoplasm Uterine spasm
Uterovaginal prolapse VIIth nerve paralysis Vaginal discharge
Vaginal haemorrhage Vaginal infection Vaginal inflammation
Varicose vein Vascular headache Vascular purpura Vasculitis
Vasoconstriction Vasodilation procedure Venous thrombosis
Ventricular arrhythmia Ventricular extrasystoles Ventricular
failure Ventricular fibrillation Ventricular flutter
Ventricular tachycardia Vertigo Viral diarrhoea Viral
infection Vision blurred Visual acuity reduced Visual impairment
Vitreous detachment Vomiting Vulvovaginal candidiasis
Vulvovaginal mycotic infection Vulvovaginal pain
Vulvovaginal pruritus Vulvovaginitis Water intoxication
Weight decreased Weight fluctuation Weight increased
Wheezing White blood cell count decreased White blood cell
count increased White blood cell disorder White blood cells
urine positive Withdrawal syndrome Xerophthalmia Xerosis
Yawning

Glutamate receptor 4 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
associated side effects) Considered to be nature's "Brain food"
by improving mental capacities; helps speed the healing of ulcers;
gives a "lift" from fatigue; helps control alcoholism, schizophrenia
and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Non-receptor tyrosine-protein kinase TYK2 - Group: Enzyme

Treated with:

2-(1,1-dimethylethyl)9-fluoro-3,6-dihydro-7h-benz[h]-imidaz[4,5-
f]isoquinolin-7-one: experimental small molecule (0
associated side effects)
3-{(3r,4r)-4-methyl-3-[methyl(7h-pyrrolo[2,3-d]pyrimidin-4-
yl)amino]piperidin-1-yl}-3-oxopropanenitrile: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Glucocorticoid receptor - Group: Receptor

Treated with:

flunisolide: approved small molecule (116 associated side
effects) For the maintenance treatment of asthma as a prophylactic
therapy.
diflorasone: approved small molecule (0 associated side
effects) For relief of the inflammatory and pruritic
manifestations of corticosteroid responsive dermatoses.
alclometasone: approved small molecule (13 associated side
effects) For the relief of the inflammatory and pruritic
manifestations of corticosteroid-responsive dermatoses.

medrysone: approved small molecule (26 associated side effects)

For the treatment of allergic conjunctivitis, vernal conjunctivitis, episcleritis, and epinephrine sensitivity.

amcinonide: approved small molecule (24 associated side effects)

For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

fluorometholone: approved small molecule (27 associated side effects) For the ophthalmic treatment of corticosteroid-responsive inflammation of the palpebral and bulbar conjunctiva, cornea and anterior segment of the globe.

megestrol: approved small molecule (97 associated side effects)

For the treatment of anorexia, cachexia, or an unexplained, significant weight loss in patients with a diagnosis of acquired immunodeficiency syndrome (AIDS). Also used for the palliative management of recurrent, inoperable, or metastatic breast cancer, endometrial cancer, and prostate cancer in Canada and some other countries.

beclometasone dipropionate: approved small molecule (0 associated side effects) For the maintenance treatment of asthma as prophylactic therapy in patients 5 years of age and older. Also being investigated for oral treatment in mild-to-moderate Crohn's disease of ileal or ileal-right colonic localisation and for "topical" use mild-to-moderate graft versus host disease.

betamethasone: approved small molecule (0 associated side effects) Topical use (cream, lotion and ointment): for relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses
Topical use (foam): relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses of the scalp
Systemic use: for the treatment of endocrine disorders, rheumatic disorders, collagen diseases, dermatological diseases, allergic states, ophthalmic diseases, respiratory diseases, hematologic disorders, neoplastic diseases, edematous states, gastrointestinal diseases, tuberculous meningitis and trichinosis.

desoximetasone: approved small molecule (26 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

fluticasone propionate: approved small molecule (0 associated side effects) For the maintenance treatment of asthma as prophylactic therapy and for patients requiring oral corticosteroid therapy for asthma.

fluocinolone acetonide: approved small molecule (131 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. Also for the treatment of chronic non-infectious uveitis affecting the posterior segment of the eye (Retisert).

halobetasol propionate: approved small molecule (0 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

triamcinolone: approved small molecule (235 associated side effects) For the treatment of perennial and seasonal allergic rhinitis.

prednisone: approved small molecule (162 associated side effects) For the treatment of drug-induced allergic reactions,

perennial or seasonal allergic rhinitis, serum sickness, giant cell arteritis acute rheumatic or nonrheumatic carditis, systemic dermatomyositis, systemic lupus erythematosus, atopic dermatitis, contact dermatitis, exfoliative dermatitis, bullous dermatitis herpetiformis, severe seborrheic dermatitis, severe (Stevens-Johnson syndrome) erythema multiforme, mycosis fungoides, pemphigus, severe psoriasis, acute adrenocortical insufficiency, Addison's disease, secondary adrenocortical insufficiency, congenital adrenal hyperplasia, hypercalcemia associated with neoplasms, nonsuppurative thyroiditis, ulcerative colitis, Crohn's disease, acquired hemolytic anemia, congenital hypoplastic anemia, erythroblastopenia, adult secondary thrombocytopenia, adult idiopathic thrombocytopenia purpura, acute or subacute bursitis, epicondylitis, acute nonspecific tenosynovitis, acute or chronic lymphocytic leukemia, Hodgkin's or non-Hodgkin's lymphomas, Waldenstrom's macroglobulinemia, primary brain tumors (adjunct), nephrotic syndrome, tuberculous meningitis, multiple sclerosis, myasthenia gravis. cerebral edema, chorioretinitis, diffuse posterior choroiditis, allergic conjunctivitis, Herpes zoster ophthalmicus, anterior segment inflammation, iridocyclitis, iritis, keratitis, optic neuritis, sympathetic ophthalmia, corneal marginal allergic ulcers, symptomatic sarcoidosis, Loeffler's syndrome not manageable by other means, berylliosis, fulminating or disseminated pulmonary tuberculosis when used concurrently with appropriate antituberculous chemotherapy and aspiration pneumonitis.

flumethasone pivalate: approved small molecule (0 associated side effects) For the treatment of contact dermatitis, atopic dermatitis, exczema, psoriasis, diaper rash and other skin conditions

fludrocortisone: approved small molecule (81 associated side effects) For partial replacement therapy for primary and secondary adrenocortical insufficiency in Addison's disease and for the treatment of salt-losing adrenogenital syndrome.

hydrocortisone: approved small molecule (0 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. Also used to treat endocrine (hormonal) disorders (adrenal insufficiency, Addison's disease). It is also used to treat many immune and allergic disorders, such as arthritis, lupus, severe psoriasis, severe asthma, ulcerative colitis, and Crohn's disease.

mometasone: approved small molecule (97 associated side effects)

The inhaler is indicated for the maintenance treatment of asthma as prophylactic therapy. The nasal spray is indicated for the treatment of the nasal symptoms of seasonal allergic and perennial allergic rhinitis.

hydrocortamate: approved small molecule (0 associated side effects) Used topically as an antiinflammatory in the treatment of steroid-responsive dermatoses

mifepristone: approved small molecule (50 associated side effects) For the medical termination of intrauterine pregnancy through 49 days' pregnancy. Also indicated to control hyperglycemia secondary to hypercortisolism in adult patients with endogenous Cushing's syndrome who have type 2 diabetes mellitus or glucose intolerance.

clocortolone: approved small molecule (12 associated side effects) For short-term topical treatment of the inflammatory and pruritic manifestations of moderate to severe corticosteroid-responsive dermatoses of the scalp.

flurandrenolide: approved small molecule (0 associated side effects) For relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses, particularly dry, scaling localized lesions

prednisolone: approved small molecule (127 associated side effects) For the treatment of primary or secondary adrenocortical insufficiency, such as congenital adrenal hyperplasia, thyroiditis. Also used to treat psoriatic arthritis, rheumatoid arthritis, ankylosing spondylitis, bursitis, acute gouty arthritis and epicondylitis. Also indicated for treatment of systemic lupus erythematosus, pemphigus and acute rheumatic carditis. Can be used in the treatment of leukemias, lymphomas, thrombocytopenia purpura and autoimmune hemolytic anemia. Can be used to treat celiac disease, insulin resistance, ulcerative colitis and liver disorders.

loteprednol: approved small molecule (25 associated side effects) As an ophthalmic it is used for the treatment of steroid responsive inflammatory conditions of the eye such as allergic conjunctivitis, uveitis, acne rosacea, superficial punctate keratitis, herpes zoster keratitis, iritis, cyclitis, and selected infective conjunctivitides. As a nasal spray, used for the treatment and management of seasonal allergic rhinitis.

rimexolone: approved small molecule (32 associated side effects) For the treatment of postoperative inflammation following ocular surgery and in the treatment of anterior uveitis.

methylprednisolone: approved small molecule (138 associated side effects) Adjunctive therapy for short-term administration in rheumatoid arthritis.

clobetasol: approved small molecule (67 associated side effects) For short-term topical treatment of the inflammatory and pruritic manifestations of moderate to severe corticosteroid-responsive dermatoses of the scalp.

fluocinonide: approved small molecule (32 associated side effects) A topical anti-inflammatory product for the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

prednicarbate: approved small molecule (21 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses.

fluoxymesterone: illicit, approved small molecule (35 associated side effects) In males, used as replacement therapy in conditions associated with symptoms of deficiency or absence of endogenous testosterone. In females, for palliation of androgen responsive recurrent mammary cancer in women who are more than one year but less than five years postmenopausal.

budesonide: approved small molecule (196 associated side effects) For the treatment of mild to moderate active Crohn's disease. Also for the treatment of asthma, non-infectious rhinitis (including hay fever and other allergies), and for treatment and prevention of nasal polyposis.

dexamethasone: approved small molecule (147 associated side effects)

cortisone acetate: approved small molecule (0 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. Also used to treat endocrine (hormonal) disorders (adrenal insufficiency, Addison's disease). It is also used to treat many immune and allergic disorders.

paramethasone: approved small molecule (0 associated side effects) For the treatment of all conditions in which corticosteroid therapy is indicated except adrenal-deficiency states for which its lack of sodium-retaining properties makes it less suitable than hydrocortisone with supplementary fludrocortisone.

ciclesonide: approved small molecule (90 associated side effects) For the treatment of nasal symptoms associated with seasonal and perennial allergic rhinitis in adults and adolescents 12 years of age and older.

hexane-1,6-diol: experimental small molecule (0 associated side effects)

difluprednate: approved small molecule (0 associated side effects) For the treatment of inflammation and pain associated with ocular surgery.

546 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Abnormal sensation in eye Abscess
Abscess sterile Acne Acute coronary syndrome Adrenal
insufficiency Affect lability Ageusia Aggression Agitation
Alanine aminotransferase increased Albuminuria Alkalosis
hypokalaemic Alopecia Amblyopia Amenorrhoea Amnesia
Anaemia Anaphylactic shock Anaphylactoid reaction
Androgenetic alopecia Angioedema Angiopathy Anorectal
disorder Anosmia Anxiety Aortic dissection Application site
atrophy Application site reaction Arachnoiditis Arrhythmia
Arthralgia Arthritis Arthropathy Asteatosis Asthenia
Asthma Atopy Atrophy Azoospermia Back pain Bacterial
infection Balance disorder Benign intracranial hypertension
Bladder dysfunction Bladder pain Blepharitis Blindness
Blindness cortical Blister Blood alkaline phosphatase
increased Blood cholesterol increased Blood glucose decreased
Blood lactate dehydrogenase increased Blood potassium
decreased Blood potassium increased Body temperature increased
Bone density decreased Bone disorder Bradycardia Breast
cancer Breast disorder Breast feeding Bronchitis
Bronchospasm Bronchospasm paradoxical Burkitt's
lymphoma Burning sensation Calcinosis Candidiasis Capillary
fragility Carbohydrate tolerance decreased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiomegaly Cardiomyopathy Carpal tunnel syndrome
Cataract cortical Cataract nuclear Cataract subcapsular
Cerebrovascular accident Chest discomfort Chest pain
Chills Chorioretinopathy Choroidal detachment Cleft
palate Coagulopathy Cognitive disorder Coma Coma
hepatic Compression fracture Condition aggravated Confusional
state Congenital anomaly Congenital eye disorder
Conjunctival haemorrhage Conjunctival hyperaemia

Conjunctival oedema Conjunctivitis Connective tissue
 disorder Constipation Convulsion Corneal erosion Corneal
 infection Corneal oedema Corneal staining Cough Cushing's
 syndrome Cushingoid Cystitis Cystitis noninfective Deafness
 Deafness neurosensory Death Decreased appetite Deep vein
 thrombosis Delirium Delusion Dementia Dental plaque
 Dependence Dermatitis Dermatitis acneiform Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 infected Developmental delay Diabetes mellitus Diarrhoea
 Diplegia Discomfort Disease progression Dissociation
 Disturbance in sexual arousal Dizziness Dizziness
 postural Drug interaction Dry eye Dry mouth Dry skin Dry
 throat Dysgeusia Dysmenorrhoea Dyspepsia Dysphonia
 Dyspnoea Dysuria Ear discomfort Ear disorder Ear
 infection Ear pain Ecchymosis Ectopic pregnancy Eczema
 Elderly Electroencephalogram abnormal Electrolyte
 imbalance Embolism Embolism venous Emotional distress
 Endocrine disorder Endometritis Enlarged clitoris
 Enteritis Epistaxis Erectile dysfunction Erythema
 Erythema multiforme Erythema of eyelid Euphoric mood
 Exophthalmos External ear disorder Extravasation Eye
 discharge Eye disorder Eye infection Eye inflammation Eye
 irritation Eye pain Eye pruritus Eye swelling Eyelid
 oedema Eyelid ptosis Face oedema Fat embolism Fatigue
 Febrile neutropenia Feeling abnormal Fistula Flatulence
 Fluid retention Flushing Folliculitis Food allergy
 Food interaction Fungal infection Fungal skin infection
 Furuncle Gastric disorder Gastric haemorrhage
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 fistula Gastrointestinal pain Genital discharge Glaucoma
 Glossitis Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Gravitational oedema Growth retardation
 Gynaecomastia HIV infection Haematuria Haemoglobin
 Haemorrhage Haemorrhoids Hair growth abnormal
 Hallucination Headache Hearing impaired Heat rash
 Hepatic function abnormal Hepatomegaly Herpes simplex
 Herpes virus infection Hiccups Hirsutism Hormone level
 abnormal Hot flush Hydrocephalus Hyperadrenocorticism
 Hyperaemia Hyperaesthesia Hypercalcaemia Hyperglycaemia
 Hyperhidrosis Hyperkeratosis Hyperkinesia
 Hypernatraemia Hypersensitivity Hypertension
 Hyperthyroidism Hypertonia Hypertrichosis Hypertrophic
 cardiomyopathy Hypertrophy Hypoaesthesia Hypoglycaemia
 Hypokalaemia Hypokinesia Hypopyon Hypotension
 Hypothyroidism Ill-defined disorder Immune system disorder
 Immunosuppression Impaired healing Incontinence Increased
 appetite Increased tendency to bruise Induration Infarction
 Infection Infection susceptibility increased Infestation
 Inflammation Inflammatory bowel disease Influenza
 Injection site haemorrhage Injection site reaction
 Insomnia Interstitial lung disease Intestinal obstruction
 Intracranial pressure increased Intraocular pressure
 increased Iridocyclitis Irritability Ischaemic neuropathy
 Jaundice Jaundice cholestatic Joint swelling Keratitis
 Keratitis herpetic Keratosis pilaris Laboratory test

abnormal Lacrimation increased Laryngitis Lethargy
 Leukocytosis Leukoderma Leukopenia Libido decreased Lip
 swelling Lipids abnormal Lipoatrophy Lipohypertrophy Loss of
 consciousness Lung disorder Lupus miliaris disseminatus faciei
 Lymphadenopathy Macular oedema Maculopathy Malaise Mania
 Mass Mediastinal disorder Menopausal symptoms Menorrhagia
 Menstrual disorder Menstruation irregular Mental disability
 Mental disorder Metabolic alkalosis Metrorrhagia
 Migraine Monoplegia Mood swings Mucous membrane disorder
 Multiple hereditary exostosis Muscle mass Muscle spasms
 Muscular weakness Musculoskeletal chest pain Musculoskeletal
 discomfort Musculoskeletal pain Myalgia Mydriasis Myocardial
 infarction Myocardial rupture Myopathy Myringitis Nasal
 congestion Nasal discomfort Nasal dryness Nasal septum disorder
 Nasal septum perforation Nasal ulcer Nasopharyngitis
 Nausea Neck pain Necrosis Necrosis ischaemic
 Neoplasm malignant Nervous system disorder Nervousness
 Neuritis Neuropathy peripheral Neutropenia Nitrogen balance
 negative Nocturia Obstruction Obstructive airways disorder
 Ochronosis Ocular hypertension Oedema Oedema peripheral
 Oesophagitis Oesophagitis ulcerative Opportunistic
 infection Optic nerve disorder Optic neuritis Oral candidiasis
 Oral fungal infection Oropharyngeal candidiasis
 Oropharyngeal discomfort Oropharyngeal pain
 Osteoarthritis Osteonecrosis Osteopenia Osteoporosis
 Otitis externa Otitis media acute Ovarian disorder Pain
 Pain in extremity Palpitations Pancreatitis
 Pancreatitis haemorrhagic Papilloedema Papule
 Paraesthesia Parametritis Paraparesis Paraplegia
 Pathological fracture Peliosis hepatis Pelvic inflammatory
 disease Pelvic pain Peptic ulcer Personality change
 Petechiae Pharyngeal disorder Pharyngeal oedema Pharyngitis
 Pharyngitis streptococcal Photophobia Photopsia
 Photosensitivity reaction Pigmentation disorder Pleurisy
 Pneumonia Pollakiuria Polycythaemia Postmenopausal
 haemorrhage Premature baby Prostatic dysplasia Pruritus
 Psoriasis Psychiatric symptom Psychotic disorder
 Pulmonary congestion Pulmonary embolism Pulmonary oedema
 Purpura Pustular psoriasis Pyoderma Pyuria
 Quadriplegia Rash Rash follicular Rash maculo-papular
 Rash papular Rash pustular Red blood cell sedimentation
 rate increased Respiratory disorder Respiratory tract congestion
 Respiratory tract infection Retinal disorder Retinal
 haemorrhage Retinitis pigmentosa Retinopathy of prematurity
 Rhinitis Rhinitis perennial Rhinorrhoea Rosacea
 Ruptured ectopic pregnancy Salivary hypersecretion
 Salmonellosis Salpingitis Sarcoma Scab Schizophrenia
 Scleral disorder Seborrhoeic dermatitis Secondary
 adrenocortical insufficiency Sensation of foreign body Sensation
 of pressure Sensitisation Sensory loss Shock Sinus congestion
 Sinus headache Sinusitis Skin atrophy Skin bacterial
 infection Skin depigmentation Skin discolouration Skin
 disorder Skin exfoliation Skin hyperpigmentation Skin hypertrophy
 Skin infection Skin irritation Skin striae Skin test
 positive Skin tightness Skin warm Sleep disorder Small for

dates baby Sneezing Social avoidant behaviour Somnolence
Spinal cord infarction Stillbirth Stomatitis Stridor
Swelling Syncope Synovial cyst Tachycardia
Telangiectasia Tenderness Tension Teratogenicity
Thinking abnormal Throat irritation Thrombophlebitis Thrombosis
Tongue disorder Tongue oedema Tooth disorder Toothache
Toxic epidermal necrolysis Tremor Tumour flare
Tumour invasion Type 1 diabetes mellitus Type IV
hypersensitivity reaction Ulcer Ulcerative keratitis Upper
respiratory tract infection Urethral disorder Urinary incontinence
Urinary tract disorder Urinary tract infection Urticaria
Uterine haemorrhage Uterine spasm Uterovaginal prolapse
Uveitis Vaginal discharge Vaginal haemorrhage Vaginal
infection Vaginal inflammation Varicella Vascular purpura
Vasculitis Vasculitis necrotising Venous thrombosis Vertigo
Viral diarrhoea Viral infection Virilism Vision blurred
Visual acuity reduced Visual impairment Vitreous detachment
Vitreous floaters Vitreous haemorrhage Vitreous opacities
Vomiting Weight decreased Weight increased Wheezing White
blood cell count increased Wound dehiscence

Gamma-aminobutyric-acid receptor subunit alpha-6 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

ethchlorvynol: illicit, approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

butabarbital: illicit, approved small molecule (0 associated side effects) For short-term treatment of insomnia and anxiety disorders

butalbital: illicit, approved small molecule (0 associated side effects) Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.

talbutal: illicit, approved small molecule (0 associated side effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

clobazam: illicit, approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

meprobamate: illicit, approved small molecule (54 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety.

alprazolam: illicit, approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term

relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

chlordiazepoxide: illicit, approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

thiopental: approved small molecule (0 associated side effects) For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

clorazepate: illicit, approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit, approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit, approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

primidone: approved small molecule (16 associated side effects) For the treatment of epilepsy

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

methylphenobarbital: approved small molecule (37 associated side effects) For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

triazolam: illicit, approved, withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

amobarbital: illicit, approved small molecule (0 associated side effects)

aprobarbital: illicit, approved small molecule (0 associated side effects)

butethal: illicit, approved small molecule (0 associated side effects) For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects) Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects) For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit,experimental small molecule
(0 associated side effects)

flunitrazepam: illicit,approved small molecule (0 associated
side effects) For short-term treatment of severe insomnias, that
are not responsive to other hypnotics.

bromazepam: illicit,approved small molecule (47 associated side
effects) For the short-term treatment of insomnia, short-term
treatment of anxiety or panic attacks, if a benzodiazepine is
required, and the alleviation of the symptoms of alcohol- and
opiate-withdrawal.

361 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Acidosis Affect lability Aggression
Agitation Agranulocytosis Akathisia Alcohol poisoning
Alopecia Altered state of consciousness Amnesia
Anaemia Anaemia megaloblastic Anaphylactic shock
Anaphylactoid reaction Anger Angioedema Angiopathy Anterograde
amnesia Anuria Anxiety Aortic dissectionApathy
Aplasia Aplastic anaemia Apnoea Arrhythmia Arterial
spasm Arthralgia Aspartate aminotransferase increased Aspiration
Asthma Asthma Ataxia Athetosis Atrioventricular
block Back pain Balance disorder Bladder pain Blood alkaline
phosphatase increased Blood bilirubin increased Blood disorder
Blood glucose decreased Body temperature decreased Body
temperature increased Borderline personality disorder Bradycardia
Bradyphrenia Brain oedema Breast disorder Bronchitis
Bronchospasm Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardio-respiratory arrest
Chest discomfort Chest pain Chills Choking sensation
Clonic convulsionClonus Clumsiness Coagulopathy
Cognitive disorder Coma Completed suicideConfusional state
Connective tissue disorder Constipation Convulsion
Coordination abnormal Cough Cystitis Cystitis noninfective
Cytolytic hepatitis Death Decreased appetite Delirium
Delirium tremens Delusion Dependence Depersonalisation
Depressed level of consciousness Depressed mood Depression
Derealisation Dermatitis Dermatitis bullous Dermatitis
exfoliative Diarrhoea Diplopia Discomfort Disinhibition
Disorientation Disturbance in attention Disturbance in
sexual arousal Dizziness Drooling Drug abuse Drug dependence
Drug eruption Drug intolerance Drug withdrawal convulsions
Dry mouth Dysaesthesia Dysarthria Dysgeusia Dyskinesia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
pain Ecchymosis Effusion Emotional disorder Emotional
distress Encephalopathy Energy increased Eosinophilia
Epilepsy Epistaxis Erectile dysfunction Erythema
Erythema multiforme Euphoric mood Extrapyrarnidal
disorder Extrasystoles Eye disorder Eye irritation
Fatigue Feeling abnormal Feeling cold Feeling drunk
Feeling hot Feeling jittery Feeling of body temperature change
Flat affect Flushing Gait disturbance Galactorrhoea
Gangrene Gastric disorder Gastrointestinal disorder

Gastrointestinal haemorrhage Gastrointestinal pain Glossitis
 Glossodynia Gynaecomastia Haematoma Haemoglobin Haemoglobin
 decreased Haemorrhage Hallucination Hangover Headache
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatitis Hepatocellular injury Hiccups Homicidal
 ideation Hostility Hypercapnia Hyperhidrosis Hyperkinesia
 Hyperprolactinaemia Hyperpyrexia Hypersensitivity
 Hypersomnia Hypertension Hyperventilation Hypoaesthesia
 Hypochromic anaemia Hypomania Hyponatraemia Hypopnoea
 Hypotension Hypothermia Hypotonia Hypoventilation Hypoxia
 Ill-defined disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Induration
 Infection Infestation Influenza Injection site pain
 Injection site reaction Insomnia Intraocular pressure
 increased Irritability Jaundice Laryngospasm Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Liver function test abnormal Liver injury Logorrhoea Loss
 of consciousness Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Memory impairment Menstrual disorder Menstruation irregular
 Mental disability Mental disorder Mental retardation
 Miosis Mood swings Muscle relaxant therapy Muscle
 rigidity Muscle spasms Muscle spasticity Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 stiffness Myalgia Mydriasis Myoclonus Nasal congestion
 Nasopharyngitis Nausea Necrosis Nervous system
 disorder Nervousness Neuroleptic malignant syndrome Neuropathy
 peripheral Nightmare Nodal rhythm Nystagmus Obstruction
 Obstructive airways disorder Oedema Oedema peripheral
 Oliguria Oropharyngeal pain Osteoarthritis
 Osteomalacia Pain Pain in extremity Palpitations
 Pancytopenia Paraesthesia Paralysis Pericardial
 effusion Personality disorder Petechiae Phaeochromocytoma
 Phlebitis Phobia Photophobia Pneumonia Pneumothorax
 Post-traumatic stress disorder Premenstrual syndrome
 Presyncope Proctitis Pruritus Psychomotor retardation
 Psychotic disorder Pulmonary function test decreased
 Pulmonary haemorrhage Pulmonary hypertension Pulmonary oedema
 Purpura non-thrombocytopenic Rash Rash maculo-papular
 Respiratory arrest Respiratory depression Respiratory
 disorder Respiratory failure Respiratory rate decreased
 Respiratory tract infection Retching Retrograde amnesia
 Rhinitis allergic Rhinorrhoea Rhonchi Salivary
 hypersecretion Sedation Sexual dysfunction Shock Sinus
 tachycardia Skin exfoliation Skin necrosis Sleep apnoea syndrome
 Sleep disorder Sleep talking Sluggishness Sneezing
 Somnambulism Somnolence Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swollen tongue Syncope
 Tachycardia Tachypnoea Tenderness Tension Therapeutic
 response decreased Thinking abnormal Thirst Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Tinnitus Toothache Toxic epidermal necrolysis Tremor
 Upper airway obstruction Upper respiratory tract infection
 Urethral disorder Urinary incontinence Urinary retention

Urinary tract disorder Urinary tract infection Urticaria
Vascular purpura Ventricular arrhythmia Ventricular
extrasystoles Vertigo Vision blurred Visual impairment
Vomiting Weight decreased Weight increased Wheezing
Withdrawal syndrome Yawning

Electrogenic sodium bicarbonate cotransporter 1 - Group: Transporter
Treated with:

sodium bicarbonate: approved small molecule (10 associated
side effects) Sodium bicarbonate is used for the treatment of
metabolic acidosis which may occur in severe renal disease,
uncontrolled diabetes, circulatory insufficiency due to shock or
severe dehydration, extracorporeal circulation of blood, cardiac
arrest and severe primary lactic acidosis. Also is indicated in
severe diarrhea which is often accompanied by a significant loss of
bicarbonate. Further indicated in the treatment of certain drug
intoxications, including barbiturates (where dissociation of the
barbiturateprotein complex is desired), in poisoning by salicylates
or methyl alcohol and in hemolytic reactions requiring
alkalinization of the urine to diminish nephrotoxicity of blood
pigments.

10 known side effects mediated through drugs targeting this protein:
Aggression Alkalosis Cellulitis Extravasation Hypernatraemia
Irritability Metabolic alkalosis Necrosis Tetany
Ulcer

Acetylcholine receptor subunit alpha - Group: Channel

Treated with:

galantamine: approved small molecule (160 associated side
effects) For the treatment of mild to moderate dementia of the
Alzheimer's type. Has also been investigated in patients with mild
cognitive impairment who did not meet the diagnostic criteria for
Alzheimer's disease.

160 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Aggression Agitation
Anaemia Anxiety Apathy Aphasia Apraxia
Arrhythmia Arrhythmia supraventricular Arthralgia Arthritis
Asthenia Ataxia Atrial fibrillation Atrioventricular
block Back pain Bladder pain Blood alkaline phosphatase
increased Blood urea increased Body temperature increased Bone
pain Bradycardia Bronchitis Bundle branch block Cardiac failure
Cardiac fibrillation Cardiovascular disorder Cataract
Cerebrovascular accident Cerebrovascular disorder Chest
pain Coagulopathy Completed suicide Confusional state
Constipation Convulsion Cough Cystitis Cystitis
noninfective Decreased appetite Dehydration Delirium
Depression Dermatitis Diarrhoea Discomfort Disturbance in
sexual arousal Diverticulitis Dizziness Dry mouth Dysgeusia
Dyspepsia Dysphagia Electrocardiogram QT prolonged
Electrocardiogram T wave inversion Epistaxis Eye disorder

Fatigue Feeling abnormal Flat affect Flatulence Gastric
 disorder Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperkinesia Hypersensitivity Hypersomnia
 Hypertension Hypertonia Hypokalaemia Hypokinesia
 Hypotension Ill-defined disorder Immune system disorder
 Incontinence Infarction Infection Insomnia Ischaemia
 Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Mental disorder Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nausea
 Nephrolithiasis Nervous system disorder Nervousness
 Neuropathy peripheral Nightmare Nocturia Oedema
 Oedema peripheral Oesophageal disorder Oesophageal
 perforation Orthostatic hypotension Pain in extremity
 Palpitations Paraesthesia Paranoia Pneumonia
 Pollakiuria Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Salivary hypersecretion Shock Somnolence
 Suicidal ideation Suicide attempt Supraventricular tachycardia
 Syncope Tachycardia Tension Thrombocytopenia
 Thrombocytosis Tinnitus Transient ischaemic attack
 Tremor Upper respiratory tract infection Urethral disorder
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Vascular dementia Vascular purpura
 Ventricular tachycardia Vertigo Vision blurred
 Vomiting Weight decreased

Gamma-aminobutyric-acid receptor subunit alpha-2 - Group: Channel
 Treated with:

lorazepam: approved small molecule (126 associated side
 effects) For the management of anxiety disorders, and for
 treatment of status epilepticus.

ethchlorvynol: illicit, approved small molecule (0 associated
 side effects) Used for short-term hypnotic therapy in the
 management of insomnia for periods of up to one week in duration;
 however, this medication generally has been replaced by other
 sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects)
 For the short-term treatment of insomnia (generally 7-10
 days).

butabarbital: illicit, approved small molecule (0 associated
 side effects) For short-term treatment of insomnia and anxiety
 disorders

butalbital: illicit, approved small molecule (0 associated side
 effects) Used in combination with acetaminophen or aspirin and
 caffeine for its sedative and relaxant effects in the treatment of
 tension headaches, migraines, and pain.

talbutal: illicit, approved small molecule (0 associated side
 effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

meprobamate: illicit,approved small molecule (54 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety.

eszopiclone: approved small molecule (0 associated side effects) For the treatment of insomnia

alprazolam:illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

zolpidem: approved small molecule (282 associated side effects) For the short-term treatment of insomnia.

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam:approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

thiopental:approved small molecule (0 associated side effects) For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam:illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

primidone: approved small molecule (16 associated side effects) For the treatment of epilepsy

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and

premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects)
For the treatment of anxiety disorders and alcohol withdrawal.

methylphenobarbital: approved small molecule (37 associated side effects)
For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects)
For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects)
Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

flumazenil: approved small molecule (100 associated side effects)
For the complete or partial reversal of the sedative effects of benzodiazepines in cases where general anesthesia has been induced and/or maintained with benzodiazepines, and where sedation has been produced with benzodiazepines for diagnostic and therapeutic procedures. Also for the management of benzodiazepine overdose as an adjunct for appropriate supportive and symptomatic measures.

estazolam: illicit,approved small molecule (131 associated side effects)
For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

quinidine barbiturate: approved small molecule (0 associated side effects)

amobarbital: illicit,approved small molecule (0 associated side effects)

aprobarbital: illicit,approved small molecule (0 associated side effects)

butethal: illicit,approved small molecule (0 associated side effects)
For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects)
Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects)
For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit,experimental small molecule (0 associated side effects)

flunitrazepam: illicit,approved small molecule (0 associated side effects)
For short-term treatment of severe insomnias, that are not responsive to other hypnotics.

bromazepam: illicit,approved small molecule (47 associated side effects)
For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects)
For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

617 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal tenderness Abnormal dreams Abnormal faeces
 Abscess Acidosis Acne Acute coronary syndrome
 Affect lability Ageusia Aggression Agitation
 Agranulocytosis Akathisia Akinesia Alanine
 aminotransferase increased Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amenorrhoea Amnesia Anaemia
 Anaemia macrocytic Anaemia megaloblastic Anaphylactic
 shock Anaphylactoid reaction Anger Angina pectoris Angioedema
 Angiopathy Anorectal discomfort Anorectal disorder
 Anterograde amnesia Anuria Anxiety Aortic dissection
 Apathy Aphasia Aphonia Aplasia Aplastic anaemia
 Apnoea Appetite disorder Arrhythmia Arterial spasm
 Arteritis Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asphyxia Aspiration Asthenia
 Asthenopia Asthma Ataxia Athetosis Atrioventricular
 block Back pain Balance disorder Binge eating Bladder
 dysfunction Bladder pain Blindness Blood alkaline phosphatase
 increased Blood bilirubin increased Blood disorder Blood
 glucose decreased Blood pressure increased Blood thromboplastin
 decreased Blood urea increased Body temperature decreased Body
 temperature increased Borderline personality disorder Bradycardia
 Bradyphrenia Brain oedema Breast disorder Breast
 engorgement Breast enlargement Breast feeding Breast neoplasm
 Breast pain Breast swelling Breath odour Bronchitis
 Bronchospasm Bulimia nervosa Burning sensation Bursitis
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Cerebrovascular accident Cerebrovascular disorder Chest
 discomfort Chest pain Chills Choking sensation Cholelithiasis
 Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Colitis Coma
 Completed suicide Confusional state Congenital skin disorder
 Conjunctivitis Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Crying Cyanosis Cystitis Cystitis noninfective
 Cytolytic hepatitis Deafness Death Decreased appetite
 Dehydration Delirium Delirium tremens Delusion Dementia
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Depressed mood Depression Depressive symptom

Derealisation Dermatitis Dermatitis bullous Dermatitis
contact Dermatitis exfoliative Diarrhoea Diplopia Discomfort
Disinhibition Disorientation Disturbance in attention
Disturbance in sexual arousal Dizziness Dizziness
postural Drooling Drug abuse Drug dependence Drug eruption
Drug hypersensitivity Drug intolerance Drug withdrawal
convulsions Dry eye Dry mouth Dry skin Dry throat
Dysaesthesia Dysarthria Dysgeusia Dyskinesia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
infection Ear pain Ecchymosis Eczema Effusion Ejaculation
delayed Ejaculation failure Elderly Embolism Emotional
disorder Emotional distress Emotional poverty Encephalopathy
Encopresis Endometrial sarcoma Energy increased Enteritis
Enterocolitis Enuresis Eosinophilia Epilepsy
Epistaxis Erectile dysfunction Eructation Erythema
Erythema multiforme Euphoric mood Extrapyrarnidal
disorder Extrasystoles Eye disorder Eye irritation Eye
movement disorder Eye pain Eye swelling Eyelid ptosis Face
oedema Faecal incontinence Fatigue Fear Feeling abnormal
Feeling cold Feeling drunk Feeling hot Feeling jittery
Feeling of body temperature change Fibroadenoma of breast Flat
affect Flatulence Floppy infant Flushing Frequent bowel
movements Fungal infection Furuncle Gait disturbance
Galactorrhoea Gangrene Gastric disorder Gastric ulcer
Gastritis Gastroenteritis Gastrointestinal disorder
Gastrointestinal haemorrhage Gastrointestinal pain
Gastrooesophageal reflux disease Gingival pain Glaucoma
Glossitis Glossodynia Gout Grand mal convulsion
Gynaecomastia Haematoma Haematuria Haemoglobin Haemoglobin
decreased Haemoglobinaemia Haemorrhage Haemorrhage urinary tract
Haemorrhoids Hallucination Hangover Headache
Hearing impaired Heart rate irregular Hemiparesis Hepatic
enzyme increased Hepatic failure Hepatic function abnormal
Hepatitis Hepatocellular injury Hepatomegaly Hernia
Herpes simplex Herpes virus infection Herpes zoster
Hiccups Hirsutism Homicidal ideation Hordeolum
Hostility Hot flush Hunger Hyperacusis Hyperaemia
Hyperaesthesia Hyperbilirubinaemia Hypercapnia
Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
Hyperkinesia Hyperlipidaemia Hyperprolactinaemia
Hyperpyrexia Hypersensitivity Hypersomnia Hypertension
Hypertonia Hypertrophy Hyperventilation Hypoaesthesia
Hypochromic anaemia Hypokalaemia Hypokinesia Hypomania
Hyponatraemia Hypopnoea Hyporeflexia Hypotension
Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
disorder Illusion Inappropriate antidiuretic hormone secretion
Incontinence Increased appetite Induration Infarction
Infection Infectious mononucleosis Infestation
Inflammation Influenza Influenza like illness Injection
site pain Injection site reaction Insomnia Intestinal
obstruction Intraocular pressure increased Iritis
Irritability Jaundice Joint swelling Laboratory test
abnormal Labyrinthitis Lacrimal disorder Lacrimation increased
Laryngitis Laryngospasm Lethargy Leukocytosis

Leukopenia Libido decreased Libido increased Liver disorder
 Liver function test abnormal Liver injury Local reaction
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung disorder Lymphadenopathy Major
 depression Malaise Mania Mastitis Mean arterial pressure
 Mediastinal disorder Melaena Memory impairment Menopausal
 symptoms Menorrhagia Menstrual disorder Menstruation irregular
 Mental disability Mental disorder Mental retardation
 Metrorrhagia Micturition urgency Migraine Miosis
 Mood swings Motion sickness Mouth ulceration Movement disorder
 Muscle contractions involuntary Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal stiffness
 Myalgia Mydriasis Myocardial infarction Myoclonus
 Myopathy Nasal congestion Nasopharyngitis Nausea Neck
 pain Necrosis Neoplasm Nephrolithiasis Nervous system
 disorder Nervousness Neuralgia Neuritis Neuroleptic malignant
 syndrome Neuropathy peripheral Neurosis Neutropenia Nightmare
 Nocturia Nodal arrhythmia Nodal rhythm Nodule
 Nuchal rigidity Nystagmus Obstruction Obstructive airways
 disorder Ocular hyperaemia Oedema Oedema peripheral Oesophageal
 spasm Oliguria Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteomalacia Otitis externa Otitis
 media Pain Pain in extremity Pain in jaw Pallor Palpitations
 Pancytopenia Panic attack Panic disorder Panic
 reaction Paraesthesia Paraesthesia oral Paralysis Paranoia
 Paresis Parosmia Pelvic pain Penile discharge Pericardial
 effusion Periorbital oedema Personality disorder Petechiae
 Phaeochromocytoma Pharyngitis Phlebitis Phobia Photophobia
 Photopsia Photosensitivity reaction Pigmentation disorder
 Platelet count decreased Pleurisy Pneumonia
 Pneumothorax Pollakiuria Polyuria Post-traumatic stress
 disorder Precocious puberty Premenstrual syndrome Presyncope
 Proctalgia Proctitis Prothrombin level increased Pruritus
 Psychiatric symptom Psychomotor retardation Psychotic
 disorder Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary function test decreased Pulmonary haemorrhage
 Pulmonary hypertension Pulmonary oedema Purpura non-
 thrombocytopenic Pyelonephritis Rash Rash maculo-papular Rash
 pustular Rectal haemorrhage Rectal tenesmus Red blood cell
 sedimentation rate increased Renal failure acute Renal pain
 Respiratory arrest Respiratory depression Respiratory
 disorder Respiratory failure Respiratory moniliasis Respiratory
 rate decreased Respiratory tract congestion Respiratory tract
 infection Restless legs syndrome Retching Retrograde amnesia
 Rhinitis allergic Rhinorrhoea Rhonchi Saliva altered
 Salivary hypersecretion Sciatica Scleritis Scotoma
 Sedation Sensation of heaviness Sexual dysfunction Shock
 Sinus tachycardia Sinusitis Skin burning sensation Skin
 discolouration Skin disorder Skin exfoliation Skin necrosis
 Skin wrinkling Sleep apnoea syndrome Sleep disorder Sleep
 talking Sluggishness Sneezing Somnambulism Somnolence
 Speech disorder Stevens-Johnson syndrome Stomatitis
 Strabismus Stress Stridor Stupor Substance abuse

Suicidal ideationSuicide attempt Swelling Swelling face
 Swollen tongue Syncope TachycardiaTachypnoea Tenderness
 Tendonitis Tension Tetany Therapeutic response
 decreased Thinking abnormalThirst Throat irritation
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thyroid neoplasm Tinnitus
 Tongue coated Tongue disorder Tongue oedema Tooth
 disorder Toothache Toxic epidermal necrolysis Transaminases
 increased Tremor Tropical spastic paresis Ulcerative
 keratitis Upper airway obstruction Upper respiratory tract
 infection Urethral disorderUrethritis Urinary hesitation
 Urinary incontinence Urinary retentionUrinary tract disorder
 Urinary tract infection Urine colour abnormal Urine
 output increased Urticaria Uterine haemorrhage Uterovaginal
 prolapse Vaginal dischargeVaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasodilation procedure Venous thrombosisVentricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vestibular disorder Viral infection Vision
 blurred Visual acuity reduced Visual impairmentVomiting
 Vulvovaginal disorder Weight decreased Weight increased
 Wheezing Withdrawal syndrome Xeroderma Xerophthalmia
 Yawning

Solute carrier family 2, facilitated glucose transporter member 1 -
 Group: Transporter
 Treated with:
 etomidate: approved small molecule (27 associated side effects)
 Used in the induction of general anesthesia.

27 known side effects mediated through drugs targeting this protein:
 Analgesic therapyApnoea Arrhythmia Bradycardia Convulsion
 Disinhibition Hiccups Hyperventilation Hypotension
 Hypoventilation Hypoxia Injection site pain
 Laryngospasm Myoclonus Nausea Obstruction Obstructive
 airways disorder Pain Procedural nauseaRespiratory failure
 Snoring TachycardiaThrombophlebitis Thrombosis Upper
 airway obstruction Vein pain Vomiting

Retinoic acid receptor responder protein 1 - Group: Enzyme
 Treated with:
 tretinoin: approved,nutraceutical small molecule (0 associated
 side effects) For the the induction of remission in patients with
 acute promyelocytic leukemia (APL), French-American-British (FAB)
 classification M3 (including the M3 variant); For the topical
 treatment of acne vulgaris, flat warts and other skin conditions
 (psoriasis, ichthyosis congenita, ichthyosis vulgaris, lamellar
 ichthyosis, keratosis palmaris et plantaris, epidermolytic
 hyperkeratosis, senile comedones, senile keratosis, keratosis
 follicularis (Darier's disease), and basal cell carcinomas.); For
 palliative therapy to improve fine wrinkling, mottled
 hyperpigmentation, roughness associated with photodamage.

known side effects mediated through drugs targeting this protein:

Nuclear receptor ROR-beta - Group: Receptor

Treated with:

melatonin: approved, nutraceutical small molecule (0 associated side effects) Used orally for jet lag, insomnia, shift-work disorder, circadian rhythm disorders in the blind (evidence for efficacy), and benzodiazepine and nicotine withdrawal. Evidence indicates that melatonin is likely effective for treating circadian rhythm sleep disorders in blind children and adults. It has received FDA orphan drug status as an oral medication for this use. A number of studies have shown that melatonin may be effective for treating sleep-wake cycle disturbances in children and adolescents with mental retardation, autism, and other central nervous system disorders. It appears to decrease the time to fall asleep in children with developmental disabilities, such as cerebral palsy, autism, and mental retardation. It may also improve secondary insomnia associated with various sleep-wake cycle disturbances. Other possible uses for which there is some evidence for include: benzodiazepine withdrawal, cluster headache, delayed sleep phase syndrome (DSPS), primary insomnia, jet lag, nicotine withdrawal, preoperative anxiety and sedation, prostate cancer, solid tumors (when combined with IL-2 therapy in certain cancers), sunburn prevention (topical use), tardive dyskinesia, thrombocytopenia associated with cancer, chemotherapy and other disorders.

known side effects mediated through drugs targeting this protein:

TGF-beta receptor type-2 - Group: Enzyme

Treated with:

glycerol: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Ephrin type-A receptor 2 - Group: Enzyme

Treated with:

dasatinib: approved small molecule (251 associated side effects) For the treatment of adults with chronic, accelerated, or myeloid or lymphoid blast phase chronic myeloid leukemia with resistance or intolerance to prior therapy. Also indicated for the treatment of adults with Philadelphia chromosome-positive acute lymphoblastic leukemia with resistance or intolerance to prior therapy.

phosphoaminophosphonic acid-adenylate ester: experimental small molecule (0 associated side effects)

251 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Acne Acute coronary
syndrome Acute febrile neutrophilic dermatosis Acute respiratory
distress syndrome Affect lability Alanine aminotransferase increased
Alopecia Amnesia Anaemia Anal fissure Angina
pectoris Angiopathy Anxiety Aortic dissection Aplasia
Aplasia pure red cell Arrhythmia Arthralgia Ascites
Aspartate aminotransferase increased Asthenia Asthma
Atrial fibrillation Atrial flutter Blood bilirubin
increased Blood creatine phosphokinase increased Blood creatinine
increased Blood uric acid increased Body temperature increased
Breast disorder Bronchospasm Cardiac disorder Cardiac
failure Cardiac failure acute Cardiac failure congestive
Cardiac fibrillation Cardiac flutter Cardiomegaly
Cardiomyopathy Cell death Cerebrovascular accident Chest
pain Chills Cholecystitis Cholestasis Chronic myeloid
leukaemia Coagulopathy Colitis Confusional state Congestive
cardiomyopathy Conjunctival haemorrhage Conjunctivitis
Connective tissue disorder Constipation Convulsion Cor
pulmonale Cough Decreased appetite Deep vein thrombosis
Dermatitis Diarrhoea Diastolic dysfunction Discomfort
Disease progression Disturbance in sexual arousal
Dizziness Drug eruption Dry eye Dry skin Dysgeusia
Dyspepsia Dysphagia Dyspnoea Ear haemorrhage Ecchymosis
Eczema Effusion Ejection fraction decreased Embolism
Enterocolitis Epistaxis Erythema Erythema multiforme
Erythema nodosum Eye disorder Eye haemorrhage Fatigue
Febrile neutropenia Feeling abnormal Fluid retention
Flushing Gastritis Gastrointestinal disorder
Gastrointestinal haemorrhage Gastrointestinal pain
Gastrointestinal ulcer Generalised oedema Genital rash
Gingival bleeding Gynaecomastia Haematoma Haematuria
Haemoglobin Haemoptysis Haemorrhage Headache Heat rash
Hepatic function abnormal Hepatitis Hepatobiliary disease
Herpes virus infection Hyperhidrosis Hypersensitivity
Hypertension Hyperuricaemia Hypoalbuminaemia
Hypocalcaemia Hypokalaemia Hypophosphataemia Hypotension
Ileus Ill-defined disorder Immune system disorder Infarction
Infection Infestation Inflammation Insomnia
Interstitial lung disease Intra-abdominal haematoma Left
ventricular dysfunction Left ventricular failure
Leukoencephalopathy Libido decreased Livedo reticularis
Liver function test abnormal Lividity Localised oedema Loss
of consciousness Lung disorder Lung infiltration Malaise
Mediastinal disorder Menstruation irregular Mental disorder
Milia Mucosal inflammation Muscular weakness Musculoskeletal
discomfort Musculoskeletal pain Musculoskeletal stiffness
Myalgia Myocardial infarction Myocarditis Myositis Nail
disorder Nausea Neoplasm Nervous system disorder
Neuritis Neuropathy peripheral Neutropenia Neutropenic
colitis Oedema Oesophagitis Optic neuritis Pain
Palpitations Pancreatitis Pancytopenia
Panniculitis Pericardial effusion Pericarditis
Petechiae Photosensitivity reaction Pigmentation disorder
Platelet aggregation abnormal Pleural disorder Pleural
effusion Pneumonia Pollakiuria Posterior reversible

encephalopathy syndrome Protein urine present Protein-losing
gastroenteropathyProteinuria Prurigo Pruritus Pulmonary
arterial hypertension Pulmonary embolism Pulmonary hypertension
Pulmonary oedema Rash erythematousRash follicular Rash
generalisedRash macular Rash maculo-papular Rash papular
Rash pustular Rash vesicular Renal failure Respiratory
distress Respiratory tract infection Rhabdomyolysis Scleral
haemorrhageSepsis Shock Skin discolouration Skin disorder
Skin exfoliation Skin irritation Skin ulcer Soft tissue
disorder Somnolence Stomatitis Syncope Systemic lupus
erythematosus Systemic lupus erythematosus rash Tachycardia
Temperature intolerance Tendonitis Thrombocytopenia
Thrombophlebitis Thrombosis Tinnitus Toxic skin eruption
Transient ischaemic attack Tremor Tumour lysis syndrome
Ulcer Upper respiratory tract infection Urethral disorder
Urinary tract disorder Urticaria Urticaria vesiculosa
Uterine haemorrhage Vaginal haemorrhage Venous thrombosis
Ventricular arrhythmia Ventricular dysfunction Ventricular
failure Ventricular tachycardia Vertigo Viral infection
Vision blurred Visual acuity reduced Visual impairment
Vomiting Weight decreased Weight increased

Potassium voltage-gated channel subfamily KQT member 2 - Group:
Channel

Treated with:

amitriptyline: approved small molecule (109 associated side
effects) For the treatment of depression, chronic pain, irritable
bowel syndrome, sleep disorders, diabetic neuropathy, agitation and
insomnia, and migraine prophylaxis.

diclofenac: approved small molecule (310 associated side
effects) For the acute and chronic treatment of signs and symptoms
of osteoarthritis and rheumatoid arthritis.

346 known side effects mediated through drugs targeting this
protein:

Abdominal distension Abdominal pain upper Abscess Acne Acute
coronary syndromeAgeusia Agitation Agranulocytosis Alanine
aminotransferase increased Alopecia Amblyopia Anaemia
Anaphylactic shock Anaphylactoid reaction Angina pectoris
Angioedema Angiopathy Anorectal disorder Antinuclear
antibody positiveAnxiety Aortic dissectionAphasia Aphthous
stomatitis Aplastic anaemia Application site reaction Arrhythmia
Arteriosclerosis Arthralgia Arthritis Aspartate
aminotransferase increased Asthenia Asthma Ataxia
Atrioventricular block Atrophy Azotaemia Back pain
Bladder pain Bleeding time prolonged Blindness
Blister Blood creatine phosphokinase increased Blood
creatinine increased Body temperature increased Bone pain
BradycardiaBreast disorder Breast enlargement Breath
odour Bronchitis Burning sensationCardiac disorder Cardiac failure
Cardiac failure congestive Cardiomyopathy Cardiovascular
disorder Cerebrovascular accident Chest pain Chills
Colitis ulcerative Coma Confusional stateConjunctival
hyperaemia Conjunctivitis allergic Constipation Convulsion

Coordination abnormal Corneal deposits Corneal disorder
 Corneal erosion Corneal infiltrates Corneal oedema
 Corneal opacity Cough Cystitis Cystitis noninfective
 Deafness Death Decreased appetite Delusion Dental
 caries Dependence Dermatitis atopic Dermatitis bullous
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diarrhoea haemorrhagic Diplopia Discomfort Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drug dependence Drug ineffective Dry mouth Dry
 skin Dysarthria Dysgeusia Dyskinesia Dyspepsia Dyspnoea
 Dysthymic disorder Dysuria Ear pain Ecchymosis
 Eczema Enterocolitis haemorrhagic Eosinophilia
 Epistaxis Erectile dysfunction Eructation Erythema
 multifforme Erythema of eyelid Extrapyrarnidal disorder Eye
 allergy Eye disorder Eye inflammation Eye irritation Eye
 pain Eye pruritus Eyelid oedema Eyelids pruritus Face oedema
 Fatigue Feeling abnormal Flatulence Fluid retention
 Flushing Furuncle Gait disturbance Galactorrhoea
 Gastric pH decreased Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingivitis Glossitis Gout
 Gynaecomastia Haematemesis Haematuria Haemoglobin
 Haemolytic anaemia Haemorrhage Haemorrhoids Hair
 disorder Hallucination Headache Hearing impaired Henoch-
 Schonlein purpura Hepatic cirrhosis Hepatic enzyme increased
 Hepatic failure Hepatic function abnormal Hepatic necrosis
 Hepatitis Hepatitis fulminant Hepatobiliary disease
 Hepatorenal syndrome Hereditary disorder Hernia
 Herpes simplex Herpes virus infection Hyperaemia
 Hyperaesthesia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hyperpyrexia Hypertension Hypertonia Hypertrophy
 Hyperventilation Hypoaesthesia Hypoglycaemia Hypokinesia
 Hypomania Hypotension Ileus paralytic Ill-defined disorder
 Immune system disorder Inappropriate antidiuretic hormone
 secretion Infarction Infection Infestation Influenza Insomnia
 Intestinal perforation Intraocular pressure increased
 Iritis Irritability Jaundice Keratitis Lacrimal
 disorder Lacrimation increased Laryngeal oedema Laryngitis
 Laryngospasm Leukopenia Libido decreased Lip swelling
 Loss of consciousness Lymphadenopathy Malaise Mania
 Melaena Memory impairment Meningitis aseptic Mental
 disability Mental disorder Mental status changes Migraine Mouth
 ulceration Muscle rigidity Muscle spasms Muscular weakness
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mydriasis Myocardial
 infarction Nail disorder Nausea Neck pain Necrosis
 Neoplasm malignant Nephritis Nephropathy Nephrotic
 syndrome Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral Night
 blindness Nightmare Nocturia Nodule Nuchal rigidity
 Ocular hyperaemia Oedema Oedema peripheral Oesophageal
 disorder Oesophagitis Oliguria Orthostatic hypotension
 Osteoarthritis Pain Palpitations Pancreatitis
 Pancytopenia Papule Paraesthesia Parotid gland

enlargement Peptic ulcer Pharyngitis Phlebitis Photosensitivity
 reaction Pneumonia Pollakiuria Polyuria Proctitis Prostatic
 specific antigen increased Protein urine present Proteinuria
 Pruritus Psychotic disorder Pulmonary function test
 decreased Punctate keratitis Purpura Rash Rash maculo-
 papular Rash pustular Rectal haemorrhage Renal failure
 acute Renal impairment Renal papillary necrosis Respiratory
 depression Respiratory disorder Rhinitis Scotoma Seborrhoeic
 dermatitis Sensory loss Sepsis Shock Sinusitis Skin cancer
 Skin discolouration Skin exfoliation Skin hypertrophy Skin
 irritation Skin mass Skin odour abnormal Skin ulcer Sleep
 disorder Social avoidant behaviour Somnolence Speech disorder
 Stevens-Johnson syndrome Stomatitis Swelling Syncope
 Systemic lupus erythematosus Tachycardia Tardive dyskinesia
 Tension Testicular disorder Testicular swelling
 Thinking abnormal Thirst Thrombocytopenia Tic Tinnitus
 Tongue coated Tongue discolouration Tooth abscess Toxic
 epidermal necrolysis Tremor Tubulointerstitial nephritis
 Ulcerative keratitis Urethral disorder Urinary retention
 Urinary tract disorder Urine output increased Urticaria
 Vaginal haemorrhage Vascular purpura Vasculitis
 Vasodilation procedure Ventricular extrasystoles Vertigo
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitreous floaters Vomiting Weight decreased
 Weight increased

Delta-type opioid receptor - Group: Receptor

Treated with:

tramadol: approved small molecule (490 associated side
 effects) Indicated in the treatment of moderate to severe pain.
 Consider for those prone to constipation or respiratory depression.
 Tramadol is used to treat postoperative, dental, cancer, and acute
 musculoskeletal pain and as an adjuvant to NSAID therapy in patients
 with osteoarthritis.

morphine: approved small molecule (208 associated side
 effects) For the relief and treatment of severe pain.

codeine: illicit, approved small molecule (43 associated side
 effects) For treatment and management of pain (Systemic), also
 used as an Antidiarrheal and as a cough suppressant.

amitriptyline: approved small molecule (109 associated side
 effects) For the treatment of depression, chronic pain, irritable
 bowel syndrome, sleep disorders, diabetic neuropathy, agitation and
 insomnia, and migraine prophylaxis.

hydromorphone: illicit, approved small molecule (355 associated
 side effects) For the relief of moderate to severe pain such as
 that due to surgery, cancer, trauma/injury, or burns.

methadone: approved small molecule (87 associated side effects)
 For the treatment of dry cough, drug withdrawal syndrome,
 opioid type drug dependence, and pain.

oxycodone: illicit, approved small molecule (215 associated side
 effects) For the treatment of diarrhoea, pulmonary oedema and for
 the relief of moderate to moderately severe pain.

butorphanol: illicit, approved small molecule (122 associated
 side effects) For the relief of moderate to severe pain.

propoxyphene: illicit, approved small molecule (79 associated side effects) For the relief of mild to moderate pain

naltrexone: approved small molecule (238 associated side effects) Used as an adjunct to a medically supervised behaviour modification program in the maintenance of opiate cessation in individuals who were formerly physically dependent on opiates and who have successfully undergone detoxification. Also used for the management of alcohol dependence in conjunction with a behavioural modification program.

sufentanil: approved small molecule (38 associated side effects) Used as an analgesic adjunct in anesthesia and as a primary anesthetic drug in procedures requiring assisted ventilation and in the relief of pain.

fentanyl: illicit, approved small molecule (393 associated side effects) For the treatment of cancer patients with severe pain that breaks through their regular narcotic therapy.

loperamide: approved small molecule (41 associated side effects) For the control and symptomatic relief of acute nonspecific diarrhea and of chronic diarrhea associated with inflammatory bowel disease or gastroenteritis. Also used for reducing the volume of discharge from ileostomies.

nalbuphine: approved small molecule (68 associated side effects) For the relief of moderate to severe pain.

levorphanol: approved small molecule (0 associated side effects) For the management of moderate to severe pain or as a preoperative medication where an opioid analgesic is appropriate

remifentanyl: approved small molecule (134 associated side effects) For use during the induction and maintenance of general anesthesia.

buprenorphine: illicit, approved small molecule (170 associated side effects) For the treatment of moderate to severe pain, peri-operative analgesia, and opioid dependence.

hydrocodone: illicit, approved small molecule (0 associated side effects) For relief of moderate to moderately severe pain. Also used for the symptomatic relief of nonproductive cough, alone or in combination with other antitussives or expectorants.

diphenoxylate: illicit, approved small molecule (0 associated side effects) For as adjunctive therapy in the management of diarrhea

naloxone: approved small molecule (54 associated side effects) For the complete or partial reversal of narcotic depression, including respiratory depression, induced by opioids including natural and synthetic narcotics, propoxyphene, methadone and the narcotic-antagonist analgesics: nalbuphine, pentazocine and butorphanol.

oxymorphone: approved small molecule (0 associated side effects) For the treatment of moderate-to-severe pain.

3-methylthiofentanyl: illicit, experimental small molecule (0 associated side effects)

dimethylthiambutene: illicit, experimental small molecule (0 associated side effects) Dimethylthiambutene is an opioid analgesic previously used in moderate pain relief.

heroin: illicit, experimental small molecule (0 associated side effects) Used in the treatment of acute pain, myocardial infarction, acute pulmonary oedema, and chronic pain.

etorphine: illicit,experimental small molecule (0 associated side effects)
 carfentanil: illicit,experimental small molecule (0 associated side effects) Carfentanil is similar (but more potent) to the opioid analgesic fentanyl. It is used as a tranquilizer for large animals.
 diprenorphine: illicit,experimental small molecule (0 associated side effects) Diprenorphine is used to reverse the effects of the super-potent opioid analgesics such as etorphine and carfentanil that are used for tranquilizing large animals in veterinary medicine. Not used in humans.
 dihydromorphine: illicit,experimental small molecule (0 associated side effects) Dihydromorphine is an opioid analgesic used for moderate to severe pain relief.
 3-methylfentanyl:illicit,experimental small molecule (0 associated side effects)
 alvimopan: approved small molecule (12 associated side effects)
 Used to accelerate the time to upper and lower gastrointestinal recovery following partial large or small bowel resection surgery with primary anastomosis. Also investigated for use in the treatment of pain (acute or chronic).

830 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
 Abdominal pain upper Abdominal tenderness Abnormal
 behaviour Abnormal dreams Abnormal faeces Abortion missed
 Abscess Acidosis Acne Acute coronary syndrome Acute
 myocardial infarction Adrenal insufficiency Affect lability
 Ageusia Aggression Agitation Agranulocytosis Akathisia
 Alanine aminotransferase decreasedAlanine aminotransferase
 increased AlbuminuriaAlcohol abuse Alcohol poisoningAlcohol
 withdrawal syndrome Alcoholism Alopecia Altered state of
 consciousness Amblyopia AmenorrhoeaAmnesia Anaemia Anal
 fissure Analgesic therapyAnaphylactic shock Anaphylactoid
 reaction Aneurysm Angina pectoris Angina unstable Angioedema
 Angiopathy Anogenital dysplasia Anorectal disorder
 Anorgasmia Anosmia Antinuclear antibody positive
 Anxiety Aortic aneurysm Aortic dissectionApathy
 Aphasia Aphthous stomatitis Apnoea Appendicitis
 Appetite disorderApplication site reaction Arrhythmia
 Arterial occlusive disease Arteriosclerosis Arteriosclerosis
 coronary artery Arthralgia Arthritis ArthropathyAscites
 Aspartate aminotransferase increased Asthenia Asthma
 Ataxia AtelectasisAtrial fibrillation Atrial flutter
 Atrioventricular block Atrioventricular block complete
 Atrioventricular block first degree Atrioventricular block
 second degree Atrophy Azotaemia Back disorder Back pain
 Bacterial infection Balance disorder Bedridden Benign
 breast neoplasm Bezoar Biliary colic Biliary tract disorder
 Bipolar I disorder Bipolar disorder Bladder pain
 Bladder spasm Bleeding time prolonged Blepharitis
 Blindness Blister Blood alkaline phosphatase increased
 Blood amylase increased Blood bilirubin increased Blood
 cholesterol increased Blood creatine phosphokinase increased Blood

creatinine increased Blood creatinine normal Blood glucose
abnormal Blood glucose increased Blood lactate dehydrogenase
increased Blood potassium abnormal Blood potassium decreased
Blood potassium increased Blood pressure fluctuation Blood
pressure increased Blood sodium increased Blood testosterone
decreased Blood triglycerides increased Blood urea increased
Blood uric acid increased Body temperature decreased Body
temperature increased Bone disorder Bone pain Bradycardia Brain
cancer metastatic Breast cancer Breast disorder Breast
enlargement Breast neoplasm Breast pain Breath odour Breath
sounds abnormal Bronchitis Bronchospasm Burning sensation
Bursitis Cachexia Cancer in remission Cancer pain
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiac flutter Cardiac murmur
Cardiac output decreased Cardio-respiratory arrest
Cardiomegaly Cardiomyopathy Cardiovascular disorder
Carpal tunnel syndrome Cataract Cellulitis Cerebral
infarction Cerebral ischaemia Cerebrovascular accident
Cerumen impaction Change of bowel habit Cheilitis Chest
discomfort Chest pain Chills Choking Cholangitis
Cholecystitis Cholecystitis acute Cholelithiasis
Cholestasis Chronic hepatitis Chronic obstructive pulmonary
disease Clonic convulsion Coagulopathy Cognitive disorder
Cold sweat Colitis Colitis ulcerative Coma Completed
suicide Compression fracture Confusional state Conjunctivitis
Connective tissue disorder Constipation Convulsion
Coordination abnormal Cough Cough decreased Crying
Crystal urine Crystalluria Cyanosis Cystitis
Cystitis noninfective Cytolytic hepatitis Deafness
Deafness permanent Deafness transitory Death Decreased
appetite Decubitus ulcer Deep vein thrombosis Deficiency
anaemia Dehydration Delirium Delusion Dementia Dental
caries Dependence Depersonalisation Depressed level of
consciousness Depressed mood Depression Derealisation
Dermal cyst Dermatitis atopic Dermatitis bullous Dermatitis
contact Dermatitis exfoliative Dermoid cyst Diabetes mellitus
Diarrhoea Diplopia Discomfort Disorientation Disturbance
in attention Disturbance in sexual arousal Diverticulitis
Diverticulum Dizziness Drug abuse Drug dependence Drug
hypersensitivity Drug interaction Drug tolerance Drug withdrawal
syndrome Drug withdrawal syndrome neonatal Dry eye Dry mouth
Dry skin Dry throat Duodenitis Dysarthria Dyschezia
Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia
Dysphonia Dysphoria Dyspnoea Dyspnoea exertional
Dystonia Dysuria Ear congestion Ear discomfort Ear
disorder Ear infection Ear pain Early satiety Ecchymosis
Eczema Effusion Ejaculation delayed Ejaculation
disorder Electrocardiogram QT prolonged Electrocardiogram ST
segment depression Electrocardiogram abnormal Electrocardiogram
change Electrolyte imbalance Embolism Emotional disorder
Emotional distress Encephalopathy Endocarditis
Endocrine disorder Endometrial sarcoma Energy increased
Enterocolitis Eosinophil count increased Eosinophilia
Eosinophilic pneumonia Epistaxis Erectile dysfunction

Eructation Erysipelas Erythema Erythema multiforme
 Euphoric mood Eustachian tube disorder Exostosis
 Extrapyrarnidal disorder Extrasystoles Eye disorder
 Eye haemorrhage Eye pain Eye swelling Eyelid disorder
 Eyelid ptosis Face oedema Faecal incontinence Faecalith
 Faecaloma Faeces discoloured Fasciitis Fatigue Fear
 Feeling abnormal Feeling cold Feeling drunk Feeling hot
 Feeling jittery Feeling of body temperature change Flank pain
 Flat affect Flatulence Fluid retention Flushing Frequent
 bowel movements Fungal infection Gait disturbance Galactorrhoea
 Gamma-glutamyltransferase increased Gastric atony
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal motility disorder Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Gingival bleeding Gingival pain
 Gingival ulceration Gingivitis Glossitis Glossodynia Gout
 Grand mal convulsion Granuloma Groin pain Gynaecomastia
 HIV infection Haematemesis Haematochezia Haematocrit
 decreased Haematocrit increased Haematoma Haematuria Haemoglobin
 decreased Haemoglobin increased Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhoids Hair disorder Hallucination
 Hangover Headache Hearing impaired Heat rash
 Helicobacter infection Hemiplegia Hepatic enzyme increased
 Hepatic failure Hepatic function abnormal Hepatic steatosis
 Hepatitis Hepatitis C Hepatobiliary disease Hepatocellular
 injury Hepatomegaly Hepatorenal syndrome Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups High density lipoprotein decreased Hordeolum
 Hormone level abnormal Hostility Hot flush Hydronephrosis
 Hyperacusis Hyperaesthesia Hypercalcaemia Hypercalciuria
 Hypercapnia Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hyperlipidaemia Hyperpathia Hyperpyrexia
 Hyperreflexia Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoalbuminaemia
 Hypocalcaemia Hypoglycaemia Hypogonadism
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hyponatraemia Hypophosphataemia Hypopnoea Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovolaemia Hypovolaemic
 shock Hypoxia Idiopathic thrombocytopenic purpura Ileus
 paralytic Ill-defined disorder Immune system disorder Impaired
 gastric emptying Impaired healing Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Increased
 bronchial secretion Induration Infarction Infection Infestation
 Inflammation Influenza Influenza like illness Infusion
 site reaction Ingrowing nail Injection site haematoma
 Injection site haemorrhage Injection site pain Injection
 site reaction Injection site urticaria Insomnia
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intra-uterine
 death Intracranial aneurysm Intracranial pressure increased
 Intraocular pressure increased Iron deficiency Iron

deficiency anaemia Irritability Irritable bowel syndrome
 Ischaemia Ischaemic stroke Jaundice Jaundice cholestatic
 Joint crepitation Joint stiffness Joint swelling
 Labyrinthitis Lacrimal disorder Lacrimation increased Large
 intestinal haemorrhage Large intestine perforation Laryngeal oedema
 Laryngitis Laryngospasm Leiomyoma Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Light anaesthesia Lip blister Lip pain Lip ulceration Liver
 function test abnormal Liver injury Liver tenderness Localised
 infection Loss of consciousness Low density lipoprotein increased
 Lung disorder Lymphadenitis Lymphadenopathy Lymphocyte
 count decreased Lymphocyte count increased Lymphoedema Lymphoma
 Lymphopenia Malaise Mammogram abnormal Mania Mediastinal
 disorder Megacolon Melaena Memory impairment Menometrorrhagia
 Menopausal symptoms Menopause Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metabolic
 acidosis Metastases to central nervous system Metastasis
 Micturition disorder Micturition urgency Migraine
 Miosis Monocyte count increased Mood swings Mouth
 ulceration Mucosal inflammation Mucous membrane disorder
 Muscle contractions involuntary Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 twitching Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Mydriasis Myocardial infarction Myocardial ischaemia
 Myoclonus Myopathy Nasal congestion Nasal discomfort Nasal
 oedema Nasopharyngitis Nausea Neck pain Necrosis
 Neoplasm Neoplasm malignant Nephrolithiasis Nervous
 system disorder Nervousness Neuralgia Neuroleptic malignant
 syndrome Neuropathy peripheral Neutropenia Neutrophil count
 decreased Neutrophil count increased Night sweats Nightmare
 Nocturia Nodule Nuchal rigidity Nystagmus Obsessive-
 compulsive disorder Obstruction Obstructive airways disorder
 Oculogyric crisis Oedema peripheral Oesophageal disorder
 Oesophageal stenosis Oesophagitis Oliguria Oral
 candidiasis Oral herpes Oral pain Oropharyngeal discomfort
 Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Osteopenia Osteoporosis Otitis externa
 Otitis media Oxygen saturation decreased Pain in extremity
 Pallor Palpitations Pancreatitis Pancreatitis
 acute Pancytopenia Panic attack Panic reaction Papule
 Paraesthesia Paralysis Paranoia Paresis Parosmia
 Parotid gland enlargement Pathological fracture Pelvic pain
 Pericarditis Peripheral coldness Peripheral ischaemia
 Peripheral vascular disorder Perirectal abscess Peroneal
 nerve palsy Persistent generalised lymphadenopathy Personality
 disorder Petechiae Pharyngitis Pharyngitis streptococcal
 Phlebitis Photophobia Photopsia Photosensitivity reaction
 Piloerection Plantar fasciitis Platelet count decreased
 Pleural disorder Pleural effusion Pneumonia Pneumothorax
 Poisoning Pollakiuria Polyp Polyuria Poor peripheral
 circulation Poor quality sleep Post procedural complication Post
 procedural haemorrhage Post procedural infection Premenstrual

syndrome Presyncope Procedural pain Proctalgia Productive cough
 Prolonged labour Prostatic disorder Prostatitis
 Prostatomegaly Protein total decreased Protein urine
 present Proteinuria Prurigo Pruritus Pruritus generalised
 Pruritus genital Pseudolymphoma Psychomotor retardation
 Psychotic disorder Pulmonary congestion Pulmonary
 embolism Pulmonary function test decreased Pulmonary oedema
 Purpura Pyelonephritis Rales Rash Rash erythematous Rash
 maculo-papular Rash papular Rash pustular Rectal
 haemorrhage Rectal prolapse Red blood cell count decreased Red
 blood cell count increased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regurgitation Renal failure
 Renal impairment Renal pain Respiration abnormal Respiratory
 acidosis Respiratory arrest Respiratory depression Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 rate decreased Respiratory tract congestion Respiratory tract
 infection viral Retching Retinal artery occlusion Rheumatoid
 arthritis Rhinalgia Rhinitis Rhinitis allergic Rhinitis seasonal
 Rhinorrhoea Rhonchi Rosacea Salivary hypersecretion
 Scleral haemorrhage Scrotal oedema Seasonal allergy
 Seborrhoeic dermatitis Sedation Sensory loss Sepsis
 Sexual dysfunction Shock Sinus congestion Sinus headache
 Sinus tachycardia Sinusitis Skin discolouration Skin
 disorder Skin hyperpigmentation Skin lesion Skin reaction Skin
 ulcer Sleep apnoea syndrome Sleep disorder Sluggishness Small
 intestinal obstruction Sneezing Social avoidant behaviour
 Somnolence Speech disorder Sputum increased Sticky skin
 Stomatitis Strabismus Stridor Stupor Subdural
 haematoma Suicidal ideation Suicide attempt Supraventricular
 tachycardia Swelling Syncope Synovial cyst Synovitis
 Systemic lupus erythematosus Tachycardia Tardive dyskinesia
 Tearfulness Tenderness Tendon disorder Tendonitis Tension
 Testicular swelling Thinking abnormal Thirst Thought
 blocking Throat irritation Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinea pedis Tinnitus Tongue
 discolouration Tongue disorder Tongue oedema Tooth abscess
 Tooth disorder Tooth impacted Tooth infection Tooth loss
 Toothache Torsade de pointes Toxic epidermal necrolysis
 Tracheitis Tremor Tumour invasion Ulcer Upper respiratory
 tract infection Upper-airway cough syndrome Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urogenital disorder Urticaria Uterine leiomyoma
 Uterovaginal prolapse VIIIth nerve paralysis Vaginal cyst
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vascular insufficiency Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Viral diarrhoea Viral infection Vision
 blurred Visual acuity reduced Visual impairment Vomiting
 Weight decreased Weight increased Wheezing White blood cell
 count increased Withdrawal syndrome Wound haemorrhage Wound
 infection Yawning

Glycine receptor subunit alpha-2 - Group: Channel

Treated with:

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

lindane: approved small molecule (9 associated side effects)

For the treatment of patients infested with *Sarcoptes scabiei* or pediculosis capitis who have either failed to respond to adequate doses, or are intolerant of other approved therapies.

picROTOXIN: approved small molecule (0 associated side effects)

Used internally for relieving respiratory distress. Also for use as an antidote in poisoning by CNS depressants, especially barbiturates.

ethanol: approved small molecule (11 associated side effects)

For therapeutic neurolysis of nerves or ganglia for the relief of intractable chronic pain in such conditions as inoperable cancer and trigeminal neuralgia (tic douloureux), in patients for whom neurosurgical procedures are contraindicated.

52 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Alopecia Angina pectoris Back pain
Blindness Blindness transient Chills Coma Convulsion
Cranial nerve paralysis Dehydration Dermatitis contact
Diarrhoea Dizziness Dry mouth Electrolyte imbalance
Encephalopathy Erectile dysfunction Fluid overload
Headache Hyperaesthesia Hyperammonaemia Hyperkinesia
Hypersensitivity Hyponatraemia Hypotension Incontinence
Lung disorder Meningitis Nausea Neuritis Neuropathy
peripheral Oedema Pain Paraesthesia Paralysis Polyuria
Pruritus Pulmonary congestion Respiratory tract congestion
Rhinitis Salivary hypersecretion Synovial cyst
Tachycardia Thirst Thrombophlebitis Urinary retention
Urticaria Vertigo Visual impairment Vomiting

Sigma 1-type opioid receptor - Group: Receptor

Treated with:

remoxipride: approved, withdrawn small molecule (0 associated side effects) Remoxipride is an atypical antipsychotic once used for the treatment of schizophrenia.

dextromethorphan: approved small molecule (0 associated side effects) For treatment and relief of dry cough.

pentazocine: approved small molecule (51 associated side effects) For the relief of moderate to severe pain.

dimethyltryptamine: illicit, experimental small molecule (0 associated side effects) Some people use this compound as a psychedelically inducing agent.

phencyclidine: illicit, experimental small molecule (0 associated side effects)

51 known side effects mediated through drugs targeting this protein:

Agitation Apnoea Asthenia Chills Confusional state
 Constipation Dependence Dermatitis Diarrhoea Diplopia
 Disorientation Dizziness Drug dependence Dry mouth
 Dysgeusia Dyspnoea Eosinophilia Euphoric mood Face
 oedema Feeling abnormal Flushing Hallucination Headache
 Hyperhidrosis Hypersensitivity Hypertension Induration
 Insomnia Irritability Loss of consciousness Miosis
 Muscle spasms Nausea Nodule Nystagmus Oedema
 Paraesthesia Pruritus Pulmonary function test decreased
 Respiratory depression Sedation Shock Syncope Tachycardia
 Tinnitus Toxic epidermal necrolysis Tremor Ulcer
 Urinary retention Vision blurred Vomiting

G protein-activated inward rectifier potassium channel 1 - Group:
 Channel

Treated with:

halothane: approved small molecule (10 associated side effects)
 For the induction and maintenance of general anesthesia

10 known side effects mediated through drugs targeting this protein:
 Arrhythmia Cardiac arrest Chills Hepatic necrosis
 Hyperpyrexia Hypotension Nausea Necrosis Respiratory
 arrest Vomiting

Gamma-aminobutyric acid receptor subunit gamma-2 - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects)
 For the management of anxiety disorders, and for treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects)
 For the short-term treatment of insomnia (generally 7-10

days).

clobazam: illicit, approved small molecule (58 associated side effects)
 For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit, approved small molecule (178 associated side effects)
 For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide: illicit, approved small molecule (20 associated side effects)
 For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects)
 For the treatment of anxiety and status epilepticus.

clorazepate: illicit, approved small molecule (0 associated side effects)
 For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit, approved small molecule (119 associated side effects)
 For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

ginkgo biloba: approved,nutraceutical small molecule (0 associated side effects) Appears to be effective in: alleviating age-related memory impairment in some elderly people with mild to moderate age-related memory or cognitive impairment; improving cognitive function in healthy young to middle-aged people; improving symptoms of Alzheimer's, vascular or mixed dementia; improving damage to the visual field in patients with normal tension glaucoma; decreasing the number of painful attacks in patients with Raynaud's syndrome; and may improve symptoms of vertigo and dizziness in some patients.

bromazepam: illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit,approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as

difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Acidosis Acne Affect
labiality Ageusia Aggression Agitation Agranulocytosis
Akathisia Akinesia Alcohol poisoning Alopecia Altered
state of consciousness Amblyopia Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anger Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anterograde amnesia Anxiety Aortic dissection Apathy
Aphonia Apnoea Appetite disorder Arrhythmia Arterial
spasm Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrioventricular block Back pain Balance disorder Bladder
dysfunction Bladder pain Blindness Blood alkaline phosphatase
increased Blood bilirubin increased Blood disorder Blood
glucose decreased Blood thromboplastin decreased Body temperature
decreased Body temperature increased Borderline personality
disorder Bradycardia Bradyphrenia Brain oedema Breast
disorder Breast pain Breast swelling Bronchitis Bronchospasm
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chromaturia Clonic convulsion Clonus Clumsiness
Coagulopathy Cognitive disorder Coma Completed suicide
Confusional state Connective tissue disorder Constipation
Conversion disorder Convulsion Coordination abnormal Cough
Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Deafness Death Decreased appetite Dehydration
Delirium Delirium tremens Delusion Dependence
Depersonalisation Depressed level of consciousness Depressed
mood Depression Depressive symptom Derealisation Dermatitis
Dermatitis contact Dermatitis exfoliative Diarrhoea
Diplopia Discomfort Disinhibition Disorientation
Disturbance in attention Disturbance in sexual arousal
Dizziness Drooling Drug abuse Drug dependence Drug
eruption Drug intolerance Drug withdrawal convulsions Dry mouth
Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
infection Ear pain Ecchymosis Effusion Ejaculation delayed
Ejaculation failure Emotional disorder Emotional
distress Emotional poverty Encephalopathy Encopresis Endometrial
sarcoma Energy increased Enterocolitis Enuresis
Eosinophilia Epilepsy Epistaxis Erectile dysfunction
Erythema Erythema multiforme Euphoric mood
Extrapyramidal disorder Extrasystoles Eye disorder
Eye irritation Eye movement disorder Eye pain Eye
swelling Face oedema Faecal incontinence Fatigue Feeling
abnormal Feeling cold Feeling drunk Feeling hot Feeling
jittery Feeling of body temperature change Flat affect Flatulence

Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test

decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliiasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Voltage-dependent calcium channel gamma-1 subunit - Group: Channel
 Treated with:
 ibutilide: approved small molecule (53 associated side effects)
 Indicated for the rapid conversion of atrial fibrillation or
 atrial flutter of recent onset to sinus rhythm.
 diltiazem: approved small molecule (213 associated side
 effects) For the treatment of Hypertension
 lercanidipine: approved small molecule (0 associated side
 effects) For the treatment of Hypertension, management of angina
 pectoris and Raynaud's syndrome
 magnesium sulfate: approved small molecule (0 associated
 side effects) Used for immediate control of life-threatening
 convulsions in the treatment of severe toxemias (pre-eclampsia and
 eclampsia) of pregnancy and in the treatment of acute nephritis in
 children. Also indicated for replacement therapy in magnesium
 deficiency, especially in acute hypomagnesemia accompanied by signs
 of tetany similar to those of hypocalcemia. Also used in uterine
 tetany as a myometrial relaxant.
 nitrendipine: approved small molecule (0 associated side
 effects) For the treatment of mild to moderate hypertension

fluspirilene: approved small molecule (0 associated side effects) Used for the treatment of schizophrenia.

229 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Acute coronary syndrome Acute generalised exanthematous pustulosis
Albuminuria Alopecia Amblyopia Amnesia Anaemia
Angioedema Angiopathy Aortic dissection Arthralgia Arthropathy
Aspartate aminotransferase increased Asthenia
Atrioventricular block first degree Atrioventricular block second degree
Bladder pain Bleeding time prolonged Blood creatine phosphokinase increased
Blood creatinine increased Blood urea increased Blood uric acid increased
Body temperature increased Bone pain Bradycardia Bronchitis Bundle branch block
Bursitis Cardiac arrest Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac index Cerebrovascular accident Chest pain Colitis Conduction disorder Confusional state
Conjunctivitis Constipation Cough Crystal urine Crystalluria Cystitis
Cystitis noninfective Decreased appetite Dermatitis contact Dermatitis exfoliative
Diarrhoea Diplopia Discomfort Dissociation Dizziness Drug interaction Dry mouth
Dysgeusia Dysmenorrhoea Dyspepsia Dyspnoea Ear infection Ear pain Ecchymosis
Electrocardiogram PR prolongation Electrocardiogram ST segment elevation
Endophthalmitis Epistaxis Erectile dysfunction Eructation Erythema
Erythema multiforme Extrapyrarnidal disorder Extrasystoles Eye disorder
Eye haemorrhage Eye irritation Face oedema Fatigue Feeling abnormal Feeling jittery
Flatulence Flushing Gait disturbance Gastric disorder Gastric ulcer
Gastrointestinal disorder Gastrointestinal haemorrhage Gingival hyperplasia
Gout Gynaecomastia Haemoglobin decreased Haemolytic anaemia Haemorrhage
Hallucination Headache Hyperglycaemia Hyperhidrosis Hyperkeratosis
Hyperplasia Hypersensitivity Hypertension Hypertonia Hypertrophy
Hyperuricaemia Hypotension Ill-defined disorder Infarction Infection
Influenza Injection site reaction Insomnia Ischaemia Joint swelling
Left ventricular dysfunction Lethargy Leukocytoclastic vasculitis Leukocytosis
Leukopenia Lichenoid keratosis Liver function test abnormal Local swelling
Loss of consciousness Lymphadenopathy Malaise Mediastinal disorder
Melanocytic naevus Mental disability Muscle rigidity Muscle spasms
Musculoskeletal discomfort Musculoskeletal stiffness Myalgia Myocardial infarction
Myocardial ischaemia Myopathy Nasal congestion Nasopharyngitis Nausea Neck pain
Nephrolithiasis Nervous system disorder Nervousness Neuropathy peripheral
Nocturia Nodal arrhythmia Nodal rhythm Nuchal rigidity Oedema Oedema peripheral
Orthostatic hypotension Osteoarthritis Otitis media Pain Pallor Palpitations
Panophthalmitis Paraesthesia Periorbital oedema Personality change
Petechiae Pharyngitis Phlebitis Photosensitivity reaction Platelet disorder
Pollakiuria Polyuria Prostatic disorder Pruritus Purpura Pyelonephritis
Rash generalised Renal failure Respiratory

disorder Respiratory distress Respiratory tract infection
 Retinal disorder Rhinitis Rhythm idioventricular Shock Sick
 sinus syndrome Sinus arrest Sinus arrhythmia Sinus bradycardia
 Sinus congestion Sinus headache Sinus tachycardia Sinusitis
 Skin hyperpigmentation Skin hypertrophy Somnolence
 Supraventricular extrasystoles Supraventricular tachycardia
 Swelling Syncope Tachyarrhythmia Tension Thinking
 abnormal Thirst Thrombocytopenia Tinnitus Tooth disorder
 Toxic epidermal necrolysis Tremor Ulcer Unevaluable event
 Upper respiratory tract infection Urethral disorder Urinary
 tract disorder Urinary tract infection Urine output increased
 Urticaria Vaginal infection Vaginal inflammation Vascular
 purpura Vascular resistance systemic Vasculitis Vasodilation
 procedure Ventricular arrhythmia Ventricular dysfunction
 Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vision blurred
 Vitreous floaters Vomiting Weight increased

Retinoic acid receptor beta - Group: Receptor

Treated with:

adapalene: approved small molecule (35 associated side effects)
 For the topical treatment of comedo, papular and pustular acne
 (acne vulgaris) of the face, chest or back.
 acitretin: approved small molecule (165 associated side
 effects) For the treatment of severe psoriasis in adults.
 alitretinoin: approved small molecule (0 associated side
 effects) For topical treatment of cutaneous lesions in patients
 with AIDS-related Kaposi's sarcoma.
 tazarotene: approved small molecule (23 associated side effects)
 Used to treat psoriasis, acne and sun damaged skin
 (photodamage).
 etretinate: withdrawn small molecule (0 associated side effects)
 For the treatment of severe psoriasis in adults.
 ttnpb: experimental small molecule (0 associated side
 effects)
 tamibarotene: approved small molecule (0 associated side
 effects) Investigated for use/treatment in leukemia (unspecified).

195 known side effects mediated through drugs targeting this protein:

Abdominal pain Acne Ageusia Alcohol intolerance Alopecia
 Angioedema Anorectal discomfort Anorectal disorder
 Arthralgia Arthritis Arthropathy Asthenia Atopy Atrophy
 Back pain Balanoposthitis Benign intracranial hypertension
 Bleeding time prolonged Blepharitis Blister Blood
 creatinine increased Blood triglycerides increased Blood uric
 acid increased Body temperature increased Bone pain Burning
 sensation Bursitis Calcinosis Candidiasis Cataract subcapsular
 Cerumen impaction Chapped lips Cheilitis Chest pain
 Chills Cold sweat Congenital eye disorder
 Conjunctivitis Constipation Convulsion Corneal
 neovascularisation Cough Crocodile tears syndrome Deafness
 Decreased appetite Dermatitis atopic Dermatitis bullous
 Dermatitis contact Diarrhoea Discomfort Dry eye Dry

mouth Dry skin Dysgeusia Dyspepsia Dysphonia Dysuria Ear
infection Ear pain Eczema Epistaxis Erectile dysfunction
Erythema Exostosis Eye disorder Eye irritation Eye
pain Eyelid oedema Face oedema Facial pain Fatigue Febrile
neutropenia Feeling abnormal Flushing Foetal disorder Gait
disturbance Gastrointestinal pain Genital discharge Gingival bleeding
Gingivitis Glossitis Granuloma Haemoglobin Haemorrhage Hair
texture abnormal Headache Hepatitis Herpes simplex Herpes
virus infection High density lipoprotein decreased Hordeolum Hot
flush Hyperaesthesia Hypercholesterolaemia Hyperhidrosis
Hyperlipidaemia Hypersensitivity Hypertonia
Hypertriglyceridaemia Hypertrophy Hypervitaminosis
Hypervitaminosis A Hypoaesthesia Ill-defined disorder
Impaired healing Increased appetite Infection
Inflammation Insomnia Interstitial lung disease
Iritis Jaundice Keratitis Lacrimation decreased
Lacrimation increased Laryngitis Lip dry Lip swelling
Liver function test abnormal Localised oedema Madarosis
Malaise Mass Melaena Menopausal symptoms Mouth
ulceration Muscle spasms Muscular weakness Musculoskeletal
discomfort Myalgia Nasal dryness Nausea Nervousness
Neutropenia Nodule Oedema Oedema peripheral Optic
neuritis Osteoarthritis Otitis externa Pain Pancreatitis
Pancytopenia Papilloedema Pharyngitis Photophobia
Photosensitivity reaction Proctalgia Pruritus Purpura
Pyogenic granuloma Rash Rash vesicular Rectal tenesmus
Retinal haemorrhage Rhinitis Saliva altered Salivary
hypersecretion Scab Scotoma Seborrhoeic dermatitis
Sensitisation Sinusitis Skin atrophy Skin
discolouration Skin disorder Skin exfoliation Skin fissures
Skin hyperpigmentation Skin hypertrophy Skin irritation Skin
mass Skin oedema Skin ulcer Somnolence Sticky skin Stomatitis
Swelling Tension Thirst Tinnitus Tongue ulceration
Ulcer Urinary tract infection Urine abnormality Urine
analysis abnormal Urticaria Vascular purpura Vasculitis Vision
blurred Visual acuity reduced Vulvovaginitis Weight decreased
White blood cell count decreased Xerophthalmia

Large neutral amino acids transporter small subunit 2 - Group:

Transporter

Treated with:

l-phenylalanine: approved, nutraceutical small molecule (0 associated side effects) L-phenylalanine may be helpful in some with depression. It may also be useful in the treatment of vitiligo. There is some evidence that L-phenylalanine may exacerbate tardive dyskinesia in some schizophrenic patients and in some who have used neuroleptic drugs.

l-glutamine: approved, nutraceutical small molecule (0 associated side effects) Used for nutritional supplementation, also for treating dietary shortage or imbalance.

l-alanine: approved, nutraceutical small molecule (0 associated side effects) Used for protein synthesis.

known side effects mediated through drugs targeting this protein:

Choline transporter-like protein 2 - Group: Transporter

Treated with:

choline: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Histamine H3 receptor - Group: Receptor

Treated with:

histamine phosphate: approved small molecule (0 associated side effects) Histamine phosphate is indicated as a diagnostic aid for evaluation of gastric acid secretory function.

betahistidine: approved small molecule (18 associated side effects) For the reduction of episodes of vertigo association with Ménière's disease.

18 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Anaphylactic shock Angioedema Dermatitis
Dermatitis atopic Emotional distress Extrasystoles
Gastrointestinal disorder Headache Hypersensitivity
Nausea Nervous system disorder Oedema Pruritus
Rash Somnolence Urticaria Ventricular extrasystoles

Somatostatin receptor type 1 - Group: Receptor

Treated with:

octreotide: approved small molecule (0 associated side effects)
For treatment of acromegaly and reduction of side effects from cancer chemotherapy

known side effects mediated through drugs targeting this protein:

Proton-coupled amino acid transporter 1 - Group: Transporter

Treated with:

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

L-alanine: approved, nutraceutical small molecule (0 associated side effects) Used for protein synthesis.

38 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Angina pectoris Back pain Blindness
Blindness transient Chills Coma Convulsion Dehydration
Diarrhoea Dizziness Dry mouth Electrolyte imbalance
Encephalopathy Fluid overload Hyperammonaemia
Hyperkinesia Hypersensitivity Hyponatraemia Hypotension

Lung disorder Nausea Oedema Pain Polyuria
Pulmonary congestion Respiratory tract congestion Rhinitis
Salivary hypersecretion Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Trace amine-associated receptor 1 - Group: Receptor

Treated with:

amphetamine: illicit, approved small molecule (95 associated side effects) For treatment of Attention Deficit Disorder with Hyperactivity (ADDH) and narcolepsy in children.

dextroamphetamine: illicit, approved small molecule (0 associated side effects) Used to treat attention deficit hyperactivity disorder (ADHD).

methamphetamine: illicit, approved small molecule (30 associated side effects) For the treatment of Attention Deficit Disorder with Hyperactivity (ADHD) and exogenous obesity.

propylhexedrine: approved small molecule (0 associated side effects) It is used to provide temporary symptomatic relief of nasal congestion due to colds, allergies and allergic rhinitis.

105 known side effects mediated through drugs targeting this protein:

Abdominal pain Abdominal pain upper Acute coronary syndrome
Affect lability Aggression Agitation Anaphylactic shock
Angina pectoris Angioedema Anxiety Arrhythmia Asthenia
Attention deficit/hyperactivity disorder Blood pressure increased
Blood pressure systolic increased Body temperature increased
Cardiac arrest Cardiac death Cardio-respiratory arrest
Cardiomyopathy Cerebrovascular accident Chest pain
Chills Coma Confusional state Constipation Convulsion
Death Decreased appetite Delirium Dependence Depression
Dermatitis Diarrhoea Disturbance in sexual arousal
Dizziness Drug abuse Drug dependence Dry mouth Dyskinesia
Dysmenorrhoea Dyspepsia Dysphoria Dyspnoea Erectile dysfunction
Erythema multiforme Euphoric mood Extrasystoles
Fatigue Feeling abnormal Flushing Gastrointestinal pain
Hallucination Headache Hyperhidrosis Hyperpyrexia
Hypersensitivity Hypertension Hyperthermia Hypotension
Infarction Infection Insomnia Irritability Lethargy
Libido decreased Loss of consciousness Mood swings Muscle spasms
Muscle twitching Myocardial infarction Nausea
Nervousness Pain Pallor Palpitations Panic attack
Panic reaction Personality change Photosensitivity
Poisoning Polyuria Psychotic disorder Rash
Rhabdomyolysis Schizophrenia Sedation Shock Skin disorder
Somnolence Speech disorder Stevens-Johnson syndrome
Sudden death Syncope Tachycardia Tension Tic Tooth disorder
Toxic epidermal necrolysis Tremor Urinary tract infection
Urticaria Viral infection Vomiting Weight decreased

Cannabinoid receptor 1 - Group: Receptor

Treated with:

dronabinol: illicit, approved small molecule (0 associated side effects) For the treatment of anorexia associated with weight loss in patients with AIDS, and nausea and vomiting associated with cancer chemotherapy in patients who have failed to respond adequately to conventional antiemetic treatments

nabilone: approved small molecule (133 associated side effects) Used for the control of nausea and vomiting, caused by chemotherapeutic agents used in the treatment of cancer, in patients who have failed to respond adequately to conventional antiemetic treatments.

rimonabant: approved small molecule (0 associated side effects) For use in conjunction with diet and exercise for patients with a body mass index greater than 30 kg/m², or patients with a BMI greater than 27 kg/m²; with associated risk factors, such as type 2 diabetes or dyslipidaemia.

133 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Affect
lability Agitation Akathisia Amblyopia Anaemia Anhidrosis
Anxiety Apathy Aphthous stomatitis Arrhythmia
Arthralgia Asthenia Ataxia Back pain Bacterial
infection Blindness Body temperature increased Cerebrovascular
accident Chest pain Chills Confusional state Constipation
Convulsion Cough Decreased appetite Depersonalisation
Depressed level of consciousness Dermatitis Diarrhoea
Discomfort Disorientation Disturbance in attention
Dizziness postural Dry eye Dry mouth Dry throat
Dyspepsia Dysphoria Dyspnoea Dystonia Dysuria
Emotional disorder Epistaxis Euphoric mood Eye
disorder Eye irritation Eye swelling Eyelid disorder Face
oedema Fatigue Feeling abnormal Flat affect Flushing
Gastritis Gastrointestinal pain Hallucination Headache
Hot flush Hyperhidrosis Hyperkinesia Hypersensitivity
Hypertension Hypoaesthesia Hypotension Hypotonia Ill-
defined disorder Illusion Increased appetite Infection
Insomnia Irritability Leukopenia Loss of consciousness
Malaise Memory impairment Menopausal symptoms Mental
disability Mood swings Muscle relaxant therapy Muscle twitching
Musculoskeletal discomfort Myalgia Mydriasis Nasal
congestion Nasal dryness Neck pain Nervousness Neurosis
Oedema Orthostatic hypotension Pain Palpitations
Panic disorder Panic reaction Paraesthesia oral Paranoia
Pharyngitis Phobia Photophobia Photosensitivity reaction
Pollakiuria Pruritus Psychotic disorder Rash Scotoma
Sedation Sensory loss Shock Sinus headache Sleep
disorder Somnolence Speech disorder Stomatitis Stupor
Swelling Syncope Tachycardia Tension Thinking abnormal
Thirst Tinnitus Tongue disorder Tongue oedema
Tremor Ulcer Urinary retention Vertigo Visual acuity
reduced Visual impairment Wheezing

Membrane copper amine oxidase - Group: Enzyme

Treated with:

phenelzine: approved small molecule (67 associated side effects)

For the treatment of major depressive disorder. Has also been used with some success in the management of bulimia nervosa.

hydralazine: approved small molecule (46 associated side effects) For the treatment of essential hypertension, alone or as an adjunct. Also for the management of severe hypertension when the drug cannot be given orally or when blood pressure must be lowered immediately, congestive heart failure (in combination with cardiac glycosides and diuretics and/or with isosorbide dinitrate), and hypertension secondary to pre-eclampsia/eclampsia.

6-hydroxydopa quinone: experimental small molecule (0 associated side effects)

99 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Agranulocytosis Angina pectoris Anorgasmia
Anxiety Arthralgia Asthenia Ataxia Blood creatine
phosphokinase increased Blood disorder Body temperature
increased Chills Coma Conjunctivitis Constipation
Convulsion Cytolytic hepatitis Decreased appetite
Delirium Dermatitis Diarrhoea Discomfort Disorientation
Dizziness Dry mouth Dyspnoea Dysuria Eosinophilia
Erectile dysfunction Euphoric mood Fatigue Feeling
abnormal Feeling jittery Flushing Glaucoma Headache
Hepatitis Hepatocellular injury Hyperhidrosis
Hypernatraemia Hyperpyrexia Hyperreflexia
Hypersensitivity Hypersomnia Hypertonia Hypoaesthesia
Hypotension Hypoxia Ileus paralytic Ill-defined disorder
Insomnia Jaundice Lacrimation increased Laryngeal oedema
Leukopenia Liver injury Lymphadenopathy Malaise Mania
Metabolic acidosis Muscle rigidity Muscle spasms
Muscle twitching Musculoskeletal discomfort Nasal congestion
Nausea Nervousness Neuritis Neuropathy peripheral
Nightmare Nystagmus Oedema Orthostatic hypotension
Palpitations Paradoxical pressor response Paraesthesia
Pruritus Psychotic disorder Purpura Rash Repetitive
speech Schizophrenia Sensory loss Shock Sleep disorder
Somnolence Splenomegaly Systemic lupus erythematosus
Tachycardia Tachypnoea Tremor Urinary retention Urticaria
Vascular purpura Vision blurred Vomiting Weight increased
Withdrawal syndrome

Transferrin Receptor Protein - Group: Receptor

Treated with:

gallium nitrate: approved small molecule (0 associated side effects) For the treatment of hypercalcemia. Also intended for the treatment of non-hodgkin's lymphoma.

known side effects mediated through drugs targeting this protein:

Monocarboxylate transporter 1 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

valproic acid: approved small molecule (272 associated side effects) For treatment and management of seizure disorders, mania, and prophylactic treatment of migraine headache.

aminohippurate: approved small molecule (0 associated side effects) Used to measure effective renal plasma flow (ERPF) and to determine the functional capacity of the tubular excretory mechanism.

foscarnet: approved small molecule (169 associated side effects) For the treatment of CMV retinitis in patients with acquired immunodeficiency syndrome (AIDS) and for treatment of acyclovir-resistant mucocutaneous HSV infections in immunocompromised patients.

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

niacin: approved, nutraceutical small molecule (0 associated side effects) For the treatment of type IV and V hyperlipidemia. It is indicated as adjunctive therapy.

nateglinide: approved small molecule (32 associated side effects) For the treatment of non-insulin dependent-diabetes mellitus in conjunction with diet and exercise.

salicylic acid: approved small molecule (33 associated side effects) Key additive in many skin-care products for the treatment of acne, psoriasis, callouses, corns, keratosis pilaris and warts.

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

gamma hydroxybutyric acid: illicit, approved small molecule (0 associated side effects) Used as a general anesthetic, to treat conditions such as insomnia, clinical depression, narcolepsy, and alcoholism, and to improve athletic performance.

acetoacetic acid: experimental small molecule (0 associated side effects)

d-lactic acid: experimental small molecule (0 associated side effects)

alpha-ketoisovalerate: experimental small molecule (0 associated side effects)

quercetin: experimental small molecule (0 associated side effects)

6-deoxyglucose: experimental small molecule (0 associated side effects)

taurocholic acid:experimental small molecule (0 associated side effects)
niflumic acid: approved small molecule (0 associated side effects) Used in the treatment of rheumatoid arthritis.

456 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain upper
Abnormal dreams Abscess Acidosis Acne Adenoma benign
Affect lability Aggression Agitation Agranulocytosis
Alanine aminotransferase increased Albuminuria Alopecia
Alveolitis Alveolitis allergic Amblyopia Amenorrhoea Amino
acid metabolism disorder Ammonia increased Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anxiety
Aphasia Aplastic anaemia Arrhythmia Arterial thrombosis
Arthralgia Arthropathy Aspartate aminotransferase increased
Assisted fertilisation Asterixis Asthenia Asthma
Ataxia Atrioventricular block Atrioventricular block first
degree Atrophy Aura Autism spectrum disorder Azoospermia
Azotaemia Back pain Bacterial infection Bladder pain
Bleeding time prolonged Blindness Blindness transient
Blood albumin decreased Blood alkaline phosphatase
increased Blood amylase increased Blood creatinine decreased
Blood creatinine increased Blood fibrinogen decreased Blood
lactate dehydrogenase increased Blood urea increased Blood uric
acid increased Body temperature decreased Body temperature
increased Bone disorder Bone pain Bradycardia Breast
enlargement Breast feeding Bronchitis Bronchospasm Cachexia
Candidiasis Cardiac arrest Catatonia Cell death Cerebral
artery thrombosis Cerebral atrophy Cerebral thrombosis
Cerebrovascular accident Cerebrovascular disorder Chest
pain Chills Cluster headache Cognitive disorder Coma
Confusional state Congenital anomaly Congenital eye
disorder Conjunctivitis Constipation Convulsion
Coordination abnormal Cough Cryptococcosis Cutaneous lupus
erythematosus Cutaneous vasculitis Cyanosis Cystitis
Cystitis noninfective Cytomegalovirus infection Deafness
Death Decreased appetite Deep vein thrombosis Dehydration
Dementia Dental plaque Depressed level of consciousness
Dermatitis Dermatitis bullous Dermatitis exfoliative
Developmental delay Diabetes insipidus Diabetes mellitus
Diarrhoea Diplopia Discomfort Disease progression
Dizziness Drug interaction Drug level increased Drug
withdrawal syndrome Dry eye Dry mouth Dry skin Duodenal
ulcer Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
Dysphagia Dysplasia Dyspnoea Dysuria Ear disorder
Ear infection Ear pain Ecchymosis Effusion
Electroencephalogram abnormal Electrolyte imbalance
Embolism Emotional distress Encephalopathy Enteritis
Enuresis Eosinophilia Epidermal necrosis Epistaxis
Erectile dysfunction Eructation Erythema Erythema
multiforme Erythema nodosum Euphoric mood Extravasation Eye
disorder Eye pain Face oedema Factor I deficiency Faecal
incontinence Fanconi syndrome Fasting Fatigue Febrile
neutropenia Feeling abnormal Fibrosarcoma Fibrosis Flatulence

Flushing Foetor hepaticus Folate deficiencyFolliculitis
 Fungal infection Furuncle Gait disturbance Galactorrhoea
 Gamma-glutamyltransferase increased Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal oedema Gastrointestinal pain
 Gastrointestinal toxicity Gingival bleedingGingival pain
 Gingivitis Glossitis Grand mal convulsion Growth
 retardationGynaecomastia Haematemesis Haematocrit decreased
 Haematoma Haematuria HaemoglobinHaemolytic anaemia
 HaemoptysisHaemorrhageHallucination Headache Hearing
 impaired HemiparesisHepatic cirrhosisHepatic enzyme increased
 Hepatic failure Hepatic function abnormal Hepatic necrosis
 Hepatitis Hepatitis acute Hepatitis cholestatic
 Hepatobiliary disease Hepatocellular injury Herpes virus
 infection Herpes zoster Hiccups Histoplasmosis
 Hyperammonaemia Hyperbilirubinaemia Hyperhidrosis
 Hyperphosphataemia Hyperreflexia Hypersensitivity
 Hypertension Hypertonia HypertrophyHyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypocoagulable state
 Hypogammaglobulinaemia Hypoglycaemia Hypokalaemia
 HypokinesiaHypomagnesaemia Hyponatraemia Hypophosphataemia
 Hypoproteinaemia HypotensionHypothermiaIll-defined disorder
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Infection InfertilityInflammation
 Influenza Influenza like illness Injection site inflammation
 Injection site pain Injection site reaction Insomnia
 Interstitial lung disease Intra-uterine death
 Irritability Jaundice Lethargy Leukoencephalopathy
 Leukopenia Liver disorder Liver function test abnormalLoss
 of libido Lung disorder Lung infection Lung infiltration
 Lymphadenopathy Lymphocytosis Lymphoma
 Lymphoproliferative disorderMacrocytosis Maculopathy
 Malaise Melaena Melkersson-Rosenthal syndrome
 Meningitis Meningitis aseptic Menstrual disorder
 Menstruation irregular Mental disabilityMetrorrhagia
 Microsomia Migraine Mood swingsMouth ulceration Muscle
 contractions involuntary Muscle rigidity Muscle spasms
 Muscle twitching Muscular weaknessMusculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Myopathy Myositis
 Nausea Neck pain Necrosis Neoplasm Neoplasm
 malignant Nephrolithiasis NephropathyNephrotic syndrome Nerve
 root lesionNervousnessNeural tube defect Neuropathy peripheral
 NeutropeniaNocardiosisNocturia Nonketotic hyperglycinaemia
 Nuchal rigidity Nystagmus ObstructionObstructive airways
 disorder Oedema Oedema peripheralOesophagitis
 Opportunistic infection Orthostatic hypotension
 Osteoarthritis Osteonecrosis Osteoporosis Otitis
 mediaOvarian disorder Pain Palpitations Pancreatic disorder
 Pancreatitis acute Pancytopenia Paraesthesia
 Paresis Pericardial effusion Pericarditis Personality
 disorder Petechiae Petit mal epilepsy Pharyngitis Phlebitis
 PhotophobiaPhotosensitivity reaction Platelet disorder
 Pleural disorder Pleural effusion Pneumocystis jiroveci
 pneumonia Pneumonia Pneumonia cytomegaloviral Pneumothorax
 PollakiuriaPolycystic ovaries Polyuria Porphyria

Porphyria acute Productive cough Protein urine present
 Proteinuria Pruritus Pruritus generalised Psychotic
 disorder Pulmonary embolism Pulmonary fibrosis Pulmonary
 oedema Pulmonary toxicity Radiculopathy Rales Rash Rash
 erythematous Rash maculo-papular Rash papular Rash
 pustular Rectal haemorrhage Renal colic Renal failure Renal
 failure acute Renal impairment Renal tubular disorder Respiratory
 disorder Respiratory failure Respiratory tract infection
 Retinal vein thrombosis Retinitis pigmentosa
 Rhabdomyolysis Rhinitis Sarcoma Seborrhoeic dermatitis
 Sedation Sepsis Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin exfoliation Skin
 necrosis Skin ulcer Sleep disorder Social avoidant behaviour
 Soft tissue necrosis Somnolence Speech disorder Spina
 bifida Spinal cord disorder Stomatitis Stridor Stupor
 Sudden death Swelling Systemic lupus erythematosus
 Tachycardia Tardive dyskinesia Telangiectasia Tenderness
 Tension Teratogenicity Testicular atrophy Thinking
 abnormal Thirst Thrombocytopenia Thrombophlebitis Thrombosis
 Thyroid disorder Thyroid function test abnormal Tinnitus
 Tooth abscess Tooth disorder Toxic epidermal necrolysis
 Tremor Tumour lysis syndrome Ulcer Upper respiratory
 tract infection Ureteric obstruction Urethral disorder Urinary
 incontinence Urinary retention Urinary tract infection Urine
 output increased Urticaria Vaginal discharge Vaginal haemorrhage
 Vaginal infection Vaginal inflammation Vascular anomaly
 Vasculitis Vasodilation procedure Venous thrombosis Ventricular
 arrhythmia Vertigo Viral infection Vision blurred Visual
 acuity reduced Visual impairment Vomiting Weight decreased
 Weight increased White blood cell disorder X-linked
 lymphoproliferative syndrome

Granulocyte colony-stimulating factor receptor - Group: Receptor
 Treated with:
 pegfilgrastim: approved biotech (0 associated side effects)
 Increases leukocyte production, for treatment in non-myeloid
 cancer, neutropenia and bone marrow transplant

known side effects mediated through drugs targeting this protein:

Mitochondrial folate transporter/carrier - Group: Transporter
 Treated with:
 folic acid: approved, nutraceutical small molecule (0 associated
 side effects) For treatment of folic acid deficiency,
 megaloblastic anemia and in anemias of nutritional supplements,
 pregnancy, infancy, or childhood.

known side effects mediated through drugs targeting this protein:

Solute carrier organic anion transporter family member 1A2 - Group:
Transporter

Treated with:

cyclosporine: approved biotech (0 associated side effects)

For treatment of transplant rejection, rheumatoid arthritis,
severe psoriasis

pravastatin: approved small molecule (147 associated side
effects) For the treatment of hypercholesterolemia and to reduce
the risk of cardiovascular disease.

erythromycin: approved small molecule (53 associated side
effects) For use in the treatment of infections caused by
susceptible strains of microorganisms in the following diseases:
respiratory tract infections (upper and lower) of mild to moderate
degree, pertussis (whooping cough), as adjunct to antitoxin in
infections due to *Corynebacterium diphtheriae*, in
the treatment of infections due to *Corynebacterium*
minutissimum, intestinal amebiasis caused by
Entamoeba histolytica, acute pelvic inflammatory
disease caused by *Neisseria gonorrhoeae*, skin and
soft tissue infections of mild to moderate severity caused by
Streptococcus pyogenes and
Staphylococcus aureus, primary syphilis caused by
Treponema pallidum, infections caused by
Chlamydia trachomatis, nongonococcal urethritis
caused by *Ureaplasma urealyticum*, and
Legionnaires' disease caused by *Legionella*
pneumophila.

nelfinavir: approved small molecule (87 associated side effects)

Used in combination with other antiviral drugs in the
treatment of HIV in both adults and children.

indinavir: approved small molecule (89 associated side effects)

Indinavir is an antiretroviral drug for the treatment of HIV
infection.

lovastatin: approved small molecule (100 associated side
effects) For management as an adjunct to diet to reduce elevated
total-C, LDL-C, apo B, and TG levels in patients with primary
hypercholesterolemia and mixed dyslipidemia. For primary prevention
of coronary heart disease and to slow progression of coronary
atherosclerosis in patients with coronary heart disease.

liothyronine: approved small molecule (0 associated side
effects) Used as replacement or supplemental therapy in patients
with hypothyroidism of any etiology, except transient hypothyroidism
during the recovery phase of subacute thyroiditis.

conjugated estrogens: approved small molecule (219 associated
side effects) For the treatment of moderate to severe vasomotor
symptoms associated with the menopause, atrophic vaginitis,
osteoporosis, hypoestrogenism due to hypogonadism, castration,
primary ovarian failure, breast cancer (for palliation only), and
Advanced androgen-dependent carcinoma of the prostate (for
palliation only)

indomethacin: approved small molecule (164 associated side
effects) For moderate to severe rheumatoid arthritis including
acute flares of chronic disease, ankylosing spondylitis,
osteoarthritis, acute painful shoulder (bursitis and/or tendinitis)
and acute gouty arthritis.

aminohippurate: approved small molecule (0 associated side effects) Used to measure effective renal plasma flow (ERPF) and to determine the functional capacity of the tubular excretory mechanism.

digoxin: approved small molecule (56 associated side effects)

For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

spironolactone: approved small molecule (34 associated side effects) Used primarily to treat low-renin hypertension, hypokalemia, and Conn's syndrome.

quinine: approved small molecule (0 associated side effects)

For the treatment of malaria and leg cramps

ritonavir: approved small molecule (297 associated side effects) Indicated in combination with other antiretroviral agents for the treatment of HIV-infection.

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

enalapril: approved small molecule (0 associated side effects)

For the treatment of essential or renovascular hypertension and symptomatic congestive heart failure. It may be used alone or in combination with thiazide diuretics.

testosterone: approved small molecule (274 associated side effects) To be used as hormone replacement or substitution of diminished or absent endogenous testosterone. Use in males: For management of congenital or acquired hypogonadism, hypogonadism associated with HIV infection, and male climacteric (andopause). Use in females: For palliative treatment of androgen-responsive, advanced, inoperable, metastatic (skeletal) carcinoma of the breast in women who are 1-5 years postmenopausal; testosterone esters may be used in combination with estrogens in the management of moderate to severe vasomotor symptoms associated with menopause in women who do not respond to adequately to estrogen therapy alone.

prednisone: approved small molecule (162 associated side effects) For the treatment of drug-induced allergic reactions, perennial or seasonal allergic rhinitis, serum sickness, giant cell arteritis acute rheumatic or nonrheumatic carditis, systemic dermatomyositis, systemic lupus erythematosus, atopic dermatitis, contact dermatitis, exfoliative dermatitis, bullous dermatitis herpetiformis, severe seborrheic dermatitis, severe (Stevens-Johnson syndrome) erythema multiforme, mycosis fungoides, pemphigus, severe psoriasis, acute adrenocortical insufficiency, Addison's disease, secondary adrenocortical insufficiency, congenital adrenal hyperplasia, hypercalcemia associated with neoplasms, nonsuppurative thyroiditis, ulcerative colitis, Crohn's disease, acquired hemolytic anemia, congenital hypoplastic anemia, erythroblastopenia, adult secondary thrombocytopenia, adult idiopathic thrombocytopenia purpura, acute or subacute bursitis, epicondylitis, acute nonspecific tenosynovitis, acute or chronic lymphocytic leukemia, Hodgkin's or non-Hodgkin's lymphomas, Waldenstrom's macroglobulinemia, primary brain tumors (adjunct), nephrotic syndrome, tuberculous meningitis, multiple sclerosis, myasthenia gravis. cerebral edema, chorioretinitis, diffuse posterior

choroiditis, allergic conjunctivitis, Herpes zoster ophthalmicus, anterior segment inflammation, iridocyclitis, iritis, keratitis, optic neuritis, sympathetic ophthalmia, corneal marginal allergic ulcers, symptomatic sarcoidosis, Loeffler's syndrome not manageable by other means, berylliosis, fulminating or disseminated pulmonary tuberculosis when used concurrently with appropriate antituberculous chemotherapy and aspiration pneumonitis.

simvastatin: approved small molecule (116 associated side effects) For the treatment of hypercholesterolemia.

estrone: approved small molecule (0 associated side effects) For management of perimenopausal and postmenopausal symptoms.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

sumatriptan: approved small molecule (317 associated side effects) For the treatment of migraine attacks with or without aura.

rocuronium: approved small molecule (25 associated side effects)

For inpatients and outpatients as an adjunct to general anesthesia to facilitate both rapid sequence and routine tracheal intubation, and to provide skeletal muscle relaxation during surgery or mechanical ventilation.

hydrocortisone: approved small molecule (0 associated side effects) For the relief of the inflammatory and pruritic manifestations of corticosteroid-responsive dermatoses. Also used to treat endocrine (hormonal) disorders (adrenal insufficiency, Addison's disease). It is also used to treat many immune and allergic disorders, such as arthritis, lupus, severe psoriasis, severe asthma, ulcerative colitis, and Crohn's disease.

estradiol: approved small molecule (315 associated side effects) For the treatment of urogenital symptoms associated with post-menopausal atrophy of the vagina (such as dryness, burning, pruritus and dyspareunia) and/or the lower urinary tract (urinary urgency and dysuria).

naproxen: approved small molecule (322 associated side effects) For the treatment of rheumatoid arthritis, osteoarthritis, ankylosing spondylitis, tendinitis, bursitis, and acute gout. Also for the relief of mild to moderate pain and the treatment of primary dysmenorrhea.

prednisolone: approved small molecule (127 associated side effects) For the treatment of primary or secondary adrenocortical insufficiency, such as congenital adrenal hyperplasia, thyroiditis. Also used to treat psoriatic arthritis, rheumatoid arthritis, ankylosing spondylitis, bursitis, acute gouty arthritis and epicondylitis. Also indicated for treatment of systemic lupus erythematosus, pemphigus and acute rheumatic carditis. Can be used in the treatment of leukemias, lymphomas, thrombocytopenia purpura and autoimmune hemolytic anemia. Can be used to treat celiac disease, insulin resistance, ulcerative colitis and liver disorders.

bumetanide: approved small molecule (50 associated side effects)

For the treatment of edema associated with congestive heart failure, hepatic and renal disease including the nephrotic syndrome.

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

fexofenadine: approved small molecule (65 associated side effects) For management of Seasonal allergic rhinitis

ketoprofen: approved small molecule (126 associated side effects) For symptomatic treatment of acute and chronic rheumatoid arthritis, osteoarthritis, ankylosing spondylitis, primary dysmenorrhea and mild to moderate pain associated with musculoskeletal trauma (sprains and strains), postoperative (including dental surgery) or postpartum pain.

glyburide: approved small molecule (52 associated side effects)

Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

ketoconazole: approved small molecule (59 associated side effects) For the treatment of the following systemic fungal

infections: candidiasis, chronic mucocutaneous candidiasis, oral thrush, candiduria, blastomycosis, coccidioidomycosis, histoplasmosis, chromomycosis, and paracoccidioidomycosis.

probenecid: approved small molecule (27 associated side effects)

For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

rifampin: approved small molecule (0 associated side effects)

For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

ibuprofen: approved small molecule (252 associated side effects)

atorvastatin: approved small molecule (195 associated side effects) May be used as primary prevention in individuals with multiple risk factors for coronary heart disease (CHD) and as secondary prevention in individuals with CHD to reduce the risk of myocardial infarction (MI), stroke, angina, and revascularization procedures. May be used to reduce the risk of cardiovascular events in patients with acute coronary syndrome (ACS). May be used in the treatment of primary hypercholesterolemia and mixed dyslipidemia, homozygous familial hypercholesterolemia, primary dysbetalipoproteinemia, and/or hypertriglyceridemia as an adjunct to dietary therapy to decrease serum total and low-density lipoprotein cholesterol (LDL-C), apolipoprotein B (apoB), and triglyceride concentrations, while increasing high-density lipoprotein cholesterol (HDL-C) levels.

ouabain: approved small molecule (0 associated side effects)
For the treatment of atrial fibrillation and flutter and heart failure

tolbutamide: approved small molecule (0 associated side effects)
For treatment of NIDDM (non-insulin-dependent diabetes mellitus) in conjunction with diet and exercise.

phenobarbital: approved small molecule (54 associated side effects)
For the treatment of all types of seizures except absence seizures.

naloxone: approved small molecule (54 associated side effects)
For the complete or partial reversal of narcotic depression, including respiratory depression, induced by opioids including natural and synthetic narcotics, propoxyphene, methadone and the narcotic-antagonist analgesics: nalbuphine, pentazocine and butorphanol.

saquinavir: approved small molecule (321 associated side effects)
For the treatment of HIV-1 with advanced immunodeficiency together with antiretroviral nucleoside analogues.

dexamethasone: approved small molecule (147 associated side effects)

digitoxin: approved small molecule (0 associated side effects)
For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

liotrix: approved small molecule (0 associated side effects)
May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

ursodeoxycholic acid: approved small molecule (210 associated side effects)
The drug reduces cholesterol absorption and is used to dissolve (cholesterol) gallstones in patients who want an alternative to surgery.

glycochenodeoxycholic acid: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

estriol: approved small molecule (0 associated side effects)
Used as a test to determine the general health of an unborn fetus.

aldosterone: experimental small molecule (0 associated side effects)

methyltestosterone: approved small molecule (29 associated side effects)
Methyltestosterone is an anabolic steroid hormone used to treat men with a testosterone deficiency. It is also used in women to treat breast cancer, breast pain, swelling due to pregnancy, and with the addition of estrogen it can treat symptoms of menopause.

1202 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
 Abdominal pain Abdominal pain upper Abdominal symptom
 Abnormal dreams Abnormal faeces Abnormal labour Abscess
 Abscess sterile Acidosis Acne Activated partial
 thromboplastin time prolonged Acute coronary syndrome Acute
 leukaemia Acute myeloid leukaemia Acute tonsillitis Adenoma
 benign Adrenal insufficiency Affect lability Affective
 disorder Ageusia Aggression Agitation Agranulocytosis
 Akathisia Akinesia Alanine aminotransferase increased
 Albuminuria Alcohol intolerance Alkalosis Alkalosis
 hypokalaemic Alopecia Alveolitis Alveolitis allergic
 Amblyopia Amenorrhoea Amnesia Amyloidosis Anaemia
 Anaemia megaloblastic Anal pruritus Analgesic therapy
 Anaphylactic shock Anaphylactoid reaction Androgenetic
 alopecia Aneurysm Anger Angina pectoris Angioedema Angiopathy
 Anorectal discomfort Anorectal disorder Antinuclear
 antibody positive Anxiety Aortic aneurysm Aortic dissection
 Aortic valve stenosis Apathy Aphasia Aphthous
 stomatitis Aplastic anaemia Apnoea Appetite disorder Application
 site oedema Application site reaction Arachnoiditis Arrhythmia
 Arterial disorder Arterial occlusive disease Arterial
 thrombosis Arteriosclerosis Arteriospasm coronary Arteritis
 Arthralgia Arthritis Arthropathy Artificial menopause
 Ascites Aspartate aminotransferase increased Aspiration
 Asterixis Asthenia Asthma Ataxia Atelectasis Atopy
 Atrial fibrillation Atrial tachycardia Atrioventricular
 block complete Atrioventricular block first degree
 Atrioventricular block second degree Atrioventricular
 dissociation Atrophy Azoospermia Azotaemia Back pain
 Bacteraemia Bacterial infection Balance disorder Basal cell
 carcinoma Benign intracranial hypertension Benign neoplasm
 Benign prostatic hyperplasia Benign vaginal neoplasm
 Biliary colic Bladder disorder Bladder dysfunction
 Bladder irritation Bladder pain Bleeding time
 prolonged Blepharitis Blindness Blindness transient Blister
 Blood albumin decreased Blood alkaline phosphatase
 increased Blood bilirubin increased Blood cholesterol increased
 Blood creatine phosphokinase increased Blood creatinine
 decreased Blood creatinine increased Blood disorder Blood
 glucose decreased Blood glucose increased Blood lactate
 dehydrogenase increased Blood magnesium decreased Blood
 potassium decreased Blood potassium increased Blood pressure
 diastolic decreased Blood pressure increased Blood pressure
 systolic increased Blood prolactin increased Blood
 testosterone decreased Blood thyroid stimulating hormone increased
 Blood triglycerides increased Blood urea increased Blood
 uric acid increased Body temperature decreased Body temperature
 increased Bone disorder Bone pain Bradycardia Breast cancer
 Breast cancer in situ Breast cancer stage IV Breast discharge
 Breast discomfort Breast disorder Breast engorgement
 Breast enlargement Breast feeding Breast malformation
 Breast mass Breast neoplasm Breast pain Breast swelling
 Breast tenderness Bronchitis Bronchospasm Bruxism
 Bundle branch block Bundle branch block right Burning
 sensation Bursitis Cachexia Calcinosis Calculus urinary

Candidiasis Carbohydrate tolerance decreased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiac murmur Cardiac valve disease
Cardioactive drug level Cardiomegaly Cardiomyopathy
Cardiovascular disorder Carpal tunnel syndrome Cataract
Cataract subcapsular Cell death Cells in urine Cellulitis
gangrenous Cerebral artery thrombosis Cerebral haemorrhage
Cerebral ischaemia Cerebral thrombosis Cerebral venous
thrombosis Cerebrovascular accident Cerebrovascular disorder
Cervical discharge Cervix carcinoma Cervix disorder
Chalazion Cheilitis Chest discomfort Chest pain Chills
Chloasma Cholangitis Cholangitis sclerosing Cholecystitis
Cholelithiasis Cholestasis Chorea Choreoathetosis
Chorioretinopathy Coagulopathy Cognitive disorder Cold
sweat Colitis Colitis ischaemic Colitis ulcerative Colorectal
cancer Coma Coma hepatic Completed suicide Compression
fracture Conduction disorder Confusional state Congenital cystic
kidney disease Congenital generalised lipodystrophy
Conjunctival haemorrhage Conjunctival hyperaemia
Conjunctivitis Connective tissue disorder Constipation
Contact lens intolerance Conversion disorder Convulsion
Coordination abnormal Corneal deposits Corneal infection
Corneal opacity Coronary artery disease Coronary artery
thrombosis Cough Crohn's disease Cryptococcosis Crystal urine
Crystalluria Cushing's syndrome Cushingoid Cutaneous
vasculitis Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Cytomegalovirus chorioretinitis Cytomegalovirus
infection Dandruff Deafness Death Decreased appetite Deep
vein thrombosis Deformity Dehydration Delirium Dementia
Dental plaque Dependence Depersonalisation Depressed level
of consciousness Depressed mood Depression Depression suicidal
Depressive symptom Dermatitis Dermatitis acneiform
Dermatitis atopic Dermatitis bullous Dermatitis contact
Dermatitis exfoliative Dermatomyositis Diabetes mellitus
Diarrhoea Diarrhoea haemorrhagic Diplegia Diplopia
Discomfort Disorientation Disseminated intravascular
coagulation Dissociation Disturbance in attention Disturbance
in sexual arousal Diverticulitis Diverticulum Dizziness Drug
abuse Drug dependence Drug eruption Drug hypersensitivity Drug
interaction Drug rash with eosinophilia and systemic symptoms Drug
tolerance Dry eye Dry mouth Dry skin Duodenal ulcer
Dysaesthesia Dysarthria Dyschezia Dysentery Dysgeusia
Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia
Dysphoria Dysplasia Dyspnoea Dysthymic disorder
Dystonia Dysuria Ear discomfort Ear disorder Ear
infection Ear pain Ecchymosis Ectropion of cervix Eczema
Effusion Ejaculation disorder Elderly Electrocardiogram
PR interval Electrocardiogram PR prolongation Electrocardiogram QT
prolonged Electrocardiogram ST segment Electrocardiogram ST segment
depression Electrocardiogram abnormal Electrocardiogram change
Electrocardiogram normal Electroencephalogram abnormal
Electrolyte imbalance Embolism Embolism venous Emotional
disorder Emotional distress Encephalitis Encephalopathy
Endocrine disorder Endometrial cancer Endometrial
disorder Endometrial hypertrophy Endometrial sarcoma

Endometriosis Enlarged clitoris Enteritis Enterocolitis
 Enzyme abnormality Eosinophilia Epidermal necrosis
 Epidermodysplasia verruciformis Epidermolysis bullosa
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Erythropenia Euphoric mood Exophthalmos
 Extrapyrarnidal disorder Extrasystoles Extravasation
 Eye disorder Eye haemorrhage Eye infection Eye
 inflammation Eye irritation Eye oedema Eye pain Eye
 pruritus Eye swelling Eyelid oedema Eyelid ptosis Face
 oedema Facial pain Facial paresis Factor VIII deficiency
 Faecal incontinence Faeces discoloured Family stress
 Fasciitis Fasting Fat embolism Fat redistribution
 Fat tissue increased Fatigue Febrile neutropenia
 Feeling abnormal Feeling cold Feeling of body temperature
 change Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid retention Flushing Foetal disorder
 Foetor hepaticus Folliculitis Fontanelle bulging
 Frequent bowel movements Fungal infection Fungal skin
 infection Furuncle Gait disturbance Galactorrhoea Gallbladder
 disorder Gamma-glutamyltransferase increased Gastric disorder
 Gastric haemorrhage Gastric perforation Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal necrosis
 Gastrointestinal oedema Gastrointestinal pain
 Gastrointestinal perforation Gastrointestinal toxicity
 Gastrointestinal ulcer Gastrooesophageal reflux disease
 Generalised oedema Genital candidiasis Genital discharge
 Genital disorder female Gingival bleeding Gingival blister
 Gingival erythema Gingival hyperplasia Gingival pain
 Gingivitis Glaucoma Glomerular filtration rate decreased
 Glomerulonephritis Glossitis Glossodynia Glucose tolerance
 decreased Glucose tolerance impaired Glycosuria Goitre Gout
 Grand mal convulsion Granulomatous liver disease Growth
 accelerated Gynaecomastia Haemangioma Haemarthrosis
 Haematemesis Haematochezia Haematocrit decreased
 Haematocrit increased Haematoma Haematuria Haemoglobin
 Haemoglobin abnormal Haemoglobin decreased Haemoglobin
 increased Haemoglobinuria Haemolysis Haemolytic anaemia
 Haemolytic uraemic syndrome Haemoptysis Haemorrhage Haemorrhage
 intracranial Haemorrhage urinary tract Haemorrhagic disorder
 Haemorrhagic stroke Haemorrhoids Hair colour changes
 Hair growth abnormal Hair texture abnormal Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Heat rash Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatic neoplasm malignant Hepatic steatosis
 Hepatitis acute Hepatitis cholestatic Hepatitis chronic
 active Hepatobiliary disease Hepatocellular injury
 Hepatomegaly Hepatorenal syndrome Hepatosplenomegaly
 Hereditary angioedema Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups High density
 lipoprotein decreased Hirsutism Histoplasmosis Hormone level
 abnormal Hostility Hot flush Hunger Hydronephrosis
 Hyperadrenocorticism Hyperaemia Hyperaesthesia

Hyperamylasaemia Hyperbilirubinaemia Hypercalcaemia
Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
Hyperkalaemia Hyperkeratosis Hyperkinesia
Hyperlactacidaemia Hyperlipidaemia Hypernatraemia
Hyperphosphataemia Hyperplasia Hyperprolactinaemia
Hyperreflexia Hypersensitivity Hypertension
Hyperthyroidism Hypertonia Hypertonic bladder
Hypertrichosis Hypertriglyceridaemia Hypertrophic
cardiomyopathy Hypertrophy Hyperuricaemia Hyperventilation
Hypervigilance Hypoaesthesia Hypoaesthesia facial
Hypoaesthesia oral Hypoalbuminaemia Hypocalcaemia
Hypochloraemia Hypogammaglobulinaemia Hypogeusia
Hypoglycaemia Hypokalaemia Hypomagnesaemia
Hyponatraemia Hypophosphataemia Hypopituitarism Hypopnoea
Hypoproteinaemia Hypoprothrombinaemia Hyporeflexia
Hypotension Hypothermia Hypothyroidism Hypoventilation
Hypovitaminosis Hypoxia IIIrd nerve paralysis Ichthyosis
acquired Idiopathic thrombocytopenic purpura Ileitis Ileus
Ileus paralytic Ill-defined disorder Immune system disorder
Immunosuppression Impaired healing Impatience Impetigo
Inappropriate antidiuretic hormone secretion Incontinence
Increased appetite Induration Infarction Infection
Infection susceptibility increased Infertility Infertility
female Infestation Inflammation Inflammatory bowel disease
Influenza Influenza like illness Ingrowing nail Inguinal
hernia Injection site inflammation Injection site pain
Injection site reaction Insomnia Insulin resistance
Intermittent claudication International normalised ratio
increased Interstitial lung disease Intervertebral disc disorder
Intestinal ischaemia Intestinal obstruction Intestinal ulcer
Intra-uterine death Intracranial pressure increased
Intraocular pressure increased Intraventricular haemorrhage
Iridocyclitis Iritis Irritability Ischaemia
Ischaemic neuropathy Ischaemic stroke Jaundice Jaundice
cholestatic Joint swelling Keratitis Keratoconjunctivitis sicca
Ketoacidosis Laboratory test abnormal Lacrimal disorder
Lacrimation decreased Lacrimation increased Laryngeal
disorder Laryngeal oedema Laryngitis Laryngospasm Left
ventricular dysfunction Leiomyoma Lens disorder Lenticular
opacities Lethargy Leukaemia Leukocytoclastic vasculitis
Leukoderma Leukoencephalopathy Leukopenia Leukoplakia
Libido decreased Libido increased Lichen planus Lip dry
Lipids abnormal Lipids increased Lipoatrophy Lipodystrophy
acquired Lipohypertrophy Liver disorder Liver function test
abnormal Liver injury Loss of consciousness Loss of libido
Lower respiratory tract infection Lung disorder Lung
infection Lung infiltration Lung neoplasm Lupus miliaris
disseminatus faciei Lymphadenopathy Lymphocytosis Lymphoma
Lymphoproliferative disorder Macule Maculopathy Malaise
Malignant melanoma Malnutrition Mammogram abnormal
Mania Mantle cell lymphoma Mass Mediastinal disorder
Medical device complication Melaena Memory impairment
Meniere's disease Meningioma benign Meningitis Meningitis
aseptic Menometrorrhagia Menopausal symptoms Menopause
Menorrhagia Menstrual disorder Menstruation irregular

Mental disabilityMental disorder Mesenteric vascular
 insufficiency Metabolic acidosis Metabolic alkalosis
 Metrorrhagia Micturition disorder Micturition urgency
 Migraine Molluscum contagiosum Monoplegia Mood swings Motor
 dysfunctionMouth ulceration Movement disorderMucosal inflammation
 Mucosal ulceration Mucous membrane disorder Multiple
 hereditary exostosis Muscle atrophy Muscle contractions
 involuntaryMuscle contracture Muscle fatigue Muscle mass
 Muscle rigidity Muscle spasms Muscle tightness Muscle
 twitching Muscular weaknessMusculoskeletal deformity
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Mydriasis Myeloid leukaemiaMyeloproliferative disorder
 Myocardial infarction Myocardial ischaemia Myocardial
 rupture Myopathy Myositis Nail discolouration Nail
 disorder Nail-patella syndrome Nasal congestion Nasal discomfort
 Nasal inflammation Nasal oedema Nasopharyngitis
 Nausea Neck pain Necrosis Necrotising colitis
 Necrotising enterocolitis neonatalNecrotising fasciitis
 Neoplasm malignant Neoplasm prostateNeoplasm skin
 Nephritic syndrome Nephritis Nephrolithiasis Nephropathy
 Nephropathy toxicNephrosclerosis Nephrotic syndrome Nerve
 root lesionNervous system disorder NervousnessNeuralgia
 Neuritis Neuropathy peripheral Neurosis NeutropeniaNight
 blindness Night sweats Nightmare Nipple disorder Nipple pain
 Nitrogen balance negative NocardiosisNocturia Nodule
 Nuchal rigidity Nystagmus ObstructionObstructive airways
 disorder Ocular hypertension Oedema Oedema genital
 Oedema peripheralOesophageal achalasia Oesophageal disorder
 Oesophageal spasmOesophageal ulcerOesophagitis
 Oesophagitis ulcerative Oestrogenic effect
 Oligomenorrhoea Oliguria Onycholysis Onychomycosis
 Ophthalmoplegia Opportunistic infection Optic ischaemic
 neuropathy Optic nerve disorder Optic neuritis Oral candidiasis
 Oral disorder Oral pruritus Oropharyngeal candidiasis
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotensionOsteoarthritis Osteomalacia Osteonecrosis
 Osteopenia Osteoporosis Otitis externa Otitis media
 Ovarian cancer Ovarian cyst Pain Pain in extremityPain
 in jaw Pain of skin Pallor Palpitations Pancreatic
 disorder Pancreatitis Pancreatitis haemorrhagic
 Pancytopenia Panic disorder Panic reaction
 Papilloedema Papilloma Paraesthesia Paraesthesia oral
 Paralysis Paranoia Paraparesis Paraplegia Paresis
 Paronychia Parosmia Patent ductus arteriosus
 Pathological fracture Peliosis hepatis Pelvic painPenile pain
 Penis disorder Peptic ulcer Pericardial effusion
 Pericarditis Perineal pain Peripheral sensory
 neuropathy Peripheral vascular disorder Peritonsillar abscess
 Personality change Personality disorder Petechiae
 Pharyngeal haemorrhage Pharyngitis Phlebitis Phobia
 Phonophobia Photophobia Photopsia Photosensitivity reaction
 Pigmentation disorder Piloerection Pituitary tumour
 Plasmodium falciparum infection Platelet aggregation
 decreased Platelet count decreased Pleural disorder Pleural

effusion Pleural infection Pneumocystis jiroveci pneumonia
 Pneumonia Pneumonia bacterial Pneumonia cytomegaloviral
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polyarteritis nodosa Polyarthritits Polycythaemia
 Polydipsia Polymyalgia rheumatica Polyp Polyuria Porphyria
 Porphyria non-acute Portal hypertension Postmenopausal
 haemorrhage Precocious puberty Premature baby Premature
 ejaculation Premature labour Presyncope Priapism Prinzmetal angina
 Proctalgia Proctitis Productive cough Progressive multifocal
 leukoencephalopathy Prostate cancer Prostatic adenoma Prostatic
 disorder Prostatic specific antigen increased Prostatitis
 Prostatomegaly Protein urine present Proteinuria Prothrombin
 level increased Prurigo Pruritus Pruritus generalised
 Pruritus genital Pseudomembranous colitis Pseudoporphyria
 Psoriasis Psychiatric symptom Psychotic disorder
 Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary eosinophilia Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary haemorrhage Pulmonary
 hypertension Pulmonary oedema Pulmonary toxicity Pulse
 abnormal Purpura Pyelonephritis Pyogenic granuloma
 Pyuria Quadriparesis Radiculopathy Rales Rash Rash
 erythematous Rash follicular Rash generalised Rash maculo-
 papular Rash papular Rash pustular Raynaud's phenomenon
 Rectal haemorrhage Rectal tenesmus Red blood cell
 abnormality Red blood cell count increased Red blood cell
 sedimentation rate increased Refraction disorder Regressive
 behaviour Regurgitation Renal cancer Renal colic Renal
 failure Renal failure acute Renal impairment Renal pain Renal
 papillary necrosis Renal tubular disorder Renal tubular necrosis
 Reproductive tract disorder Respiration abnormal Respiratory
 depression Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retching Retinal artery occlusion Retinal disorder
 Retinal haemorrhage Retinal vascular occlusion Retinal
 vein thrombosis Retinitis pigmentosa Retinogram abnormal
 Retinopathy of prematurity Reye's syndrome Rhabdomyolysis
 Rhinitis Rhinitis allergic Rhinitis perennial Rhinorrhoea
 Rhonchi Riley-Day syndrome Salivary gland disorder
 Salivary gland enlargement Salivary hypersecretion
 Sarcoma Sarcosinaemia Scar Schizophrenia Scleral
 disorder Scleritis Scotoma Seborrhoeic dermatitis Secondary
 adrenocortical insufficiency Sedation Sensation of foreign body
 Sensation of pressure Sensitisation Sensory disturbance
 Sensory loss Sepsis Serum sickness Sexual
 dysfunction Shock Sialoadenitis Sicca syndrome Sinus arrest
 Sinus arrhythmia Sinus bradycardia Sinus congestion Sinus
 headache Sinus tachycardia Sinusitis Skin atrophy Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin fragility Skin hyperpigmentation Skin hypertrophy
 Skin irritation Skin lesion Skin mass Skin necrosis Skin
 papilloma Skin striae Skin test positive Skin tightness Skin
 ulcer Skin wrinkling Sleep apnoea syndrome Sleep disorder Small
 for dates baby Smear cervix abnormal Sneezing Social avoidant
 behaviour Soft tissue disorder Soft tissue necrosis Somnolence
 Speech disorder Spinal cord disorder Splenomegaly

Staphylococcal infection Stevens-Johnson syndrome
 Sticky skin Stomatitis Stupor Subarachnoid haemorrhage
 Subcutaneous nodule Subdural haematoma Substance abuse
 Sudden death Sudden visual loss Suicidal ideation
 Suicide attempt Supraventricular extrasystoles Surgery
 Swelling Swelling face Syncope Systemic lupus
 erythematosus Tachycardia Telangiectasia Temperature
 intolerance Temporal arteritis Tenderness Tendinous contracture
 Tendon disorder Tenosynovitis Tension Tension headache
 Teratogenicity Testicular atrophy Tetany Thinking
 abnormal Thirst Thought blocking Throat irritation
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis superficial Thrombosis Thrombotic
 thrombocytopenic purpura Tinnitus Tongue disorder Tongue
 oedema Tooth abscess Tooth disorder Toothache Torsade de
 pointes Torticollis Toxic epidermal necrolysis Toxic shock
 syndrome Toxicity to various agents Tracheobronchitis
 Transaminases increased Transient ischaemic attack
 Tremor Tubulointerstitial nephritis Tumour invasion
 Tumour lysis syndrome Type 2 diabetes mellitus Ulcer Ulcer
 haemorrhage Ulcerative keratitis Upper respiratory tract infection
 Ureteric obstruction Urethral disorder Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urogenital disorder
 Urticaria Uterine cancer Uterine cervical erosion
 Uterine enlargement Uterine haemorrhage Uterine leiomyoma
 Uterine pain Uterine spasm Uterovaginal prolapse
 Uveitis VIIIth nerve paralysis Vaginal discharge Vaginal
 disorder Vaginal haemorrhage Vaginal infection Vaginal
 inflammation Vaginal neoplasm Vaginal ulceration Vaginismus
 Varicocele Varicose vein Vascular anomaly Vascular
 occlusion Vascular purpura Vascular resistance pulmonary increased
 Vascular resistance systemic Vasculitis Vasculitis necrotising
 Vasoconstriction Vasodilatation Vasodilation procedure
 Vasospasm Venous thrombosis Ventricular dysfunction
 Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vestibular disorder
 Viral infection Virilism Vision blurred Visual acuity
 reduced Visual impairment Vitreous detachment Vitreous disorder
 Vomiting Vulval disorder Vulvovaginal candidiasis
 Vulvovaginal discomfort Vulvovaginal mycotic infection
 Vulvovaginal pain Vulvovaginal pruritus Vulvovaginitis
 Weight decreased Weight increased Wheezing White blood cell
 disorder White blood cells urine positive Withdrawal bleed
 Withdrawal syndrome Wound haemorrhage X-linked
 lymphoproliferative syndrome Xanthomatosis Xanthopsia Xeroderma
 Xerophthalmia Yawning

Voltage-dependent anion-selective channel protein 1 - Group: Channel
 Treated with:
 dihydroxyaluminium: approved small molecule (0 associated
 side effects)

known side effects mediated through drugs targeting this protein:

Nicotinic acid receptor 2 - Group: Receptor

Treated with:

niacin: approved, nutraceutical small molecule (0 associated side effects) For the treatment of type IV and V hyperlipidemia. It is indicated as adjunctive therapy.

known side effects mediated through drugs targeting this protein:

Reticulon-4 receptor - Group: Receptor

Treated with:

alpha-d-mannose: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Potassium voltage-gated channel subfamily E member 1 - Group: Channel

Treated with:

indapamide: approved small molecule (192 associated side effects) For the treatment of hypertension, alone or in combination with other antihypertensive drugs, as well as for the treatment of salt and fluid retention associated with congestive heart failure or edema from pregnancy (appropriate only in the management of edema of pathologic origin during pregnancy when clearly needed). Also used for the management of edema as a result of various causes.

192 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain upper Acne
Agitation Agranulocytosis Amblyopia Amnesia Anaemia
Anaphylactic shock Angina pectoris Angioedema Anxiety
Aplastic anaemia Application site reaction Arrhythmia
Arthralgia Arthritis Arthropathy Asthenia Ataxia
Atrial fibrillation Atrial flutter Back pain Blister
Blood uric acid increased Body temperature increased Bone
disorder Bone pain Bradycardia Bronchitis Bundle branch block
Candidiasis Cardiac fibrillation Cardiac flutter Cataract
Cerebrovascular accident Chest pain Chondrodystrophy Coma
Conjunctivitis Constipation Cough Decreased appetite
Dermatitis bullous Dermatitis exfoliative Diabetes mellitus
Diabetic hyperosmolar coma Diarrhoea Discomfort Disturbance
in sexual arousal Dizziness Dry mouth Duodenitis Dysgeusia
Dysmenorrhoea Dyspepsia Dysphagia Dyspnoea Dysuria
Ear disorder Ear infection Ear pain Ecchymosis
Electrocardiogram normal Electrolyte imbalance Erectile
dysfunction Erythema Erythema multiforme Extrasystoles Face

oedema Fatigue Feeling abnormal Flatulence Flushing
 Gastritis Gastroenteritis Gastrointestinal pain Glycosuria
 Gout Headache Heart rate irregular Hepatic function
 abnormal Hepatitis Hernia Hyperaesthesia Hyperglycaemia
 Hyperhidrosis Hypertonia Hyperuricaemia Hypoaesthesia
 Hypochloraemia Hypokalaemia Hyponatraemia Hypotension
 Ill-defined disorder Increased appetite Infection
 Influenza Insomnia Irritability Jaundice Jaundice
 cholestatic Laryngitis Lethargy Leukopenia Libido decreased Liver
 function test abnormal Loss of consciousness Lung disorder
 Malaise Migraine Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Myalgia
 Myopathy Myopia Nail disorder Nasopharyngitis
 Nausea Neoplasm malignant Nephritis Nervousness
 Neuritis Neuropathy peripheral Nocturia Nodule
 Oedema peripheral Oesophagitis Oliguria Optic neuritis
 Oral candidiasis Orthostatic hypotension Osteoarthritis
 Pain Palpitations Pancreatitis Paraesthesia oral
 Pharyngitis Photophobia Photosensitivity reaction Pneumonia
 Pollakiuria Polyuria Proctitis Prostatic disorder
 Pruritus Purpura Rash Renal failure Renal pain
 Respiratory distress Rhabdomyolysis Rhinitis Rhinorrhoea
 Sensory loss Shock Sialoadenitis Sinus bradycardia
 Sinusitis Skin mass Somnolence Stomatitis Supraventricular
 tachycardia Syncope Tachycardia Tension Thrombocytopenia
 Thyroid disorder Tinnitus Tooth disorder Toxic epidermal
 necrolysis Tubulointerstitial nephritis Urinary tract infection
 Urine output increased Urticaria Vaginal infection Vaginal
 inflammation Vascular purpura Vasculitis Vasculitis necrotising
 Vasodilation procedure Ventricular arrhythmia Ventricular
 extrasystoles Vertigo Vision blurred Visual impairment
 Vomiting Weight decreased Xanthopsia

Sodium channel subunit beta-1 - Group: Channel

Treated with:

zonisamide: approved small molecule (190 associated side
 effects) For use as adjunctive treatment of partial seizures in
 adults with epilepsy.

190 known side effects mediated through drugs targeting this protein:

Abdominal pain Abnormal dreams Acne Agitation Alanine
 aminotransferase increased Albuminuria Alopecia Amblyopia
 Amenorrhoea Anaemia Anxiety Apnoea Arthralgia
 Arthritis Aspartate aminotransferase increased Asthenia
 Ataxia Atrial fibrillation Bladder pain Blood
 lactate dehydrogenase increased Bradycardia Calculus bladder
 Cardiac failure Cardiac fibrillation Cerebrovascular
 accident Chest pain Cholangitis Cholecystitis Cholelithiasis
 Cognitive disorder Colitis Confusional state
 Conjunctivitis Constipation Convulsion Coordination
 abnormal Cough Deafness Decreased appetite Dehydration
 Depressed level of consciousness Dermatitis Dermatitis
 bullous Diarrhoea Diplopia Discomfort Disturbance in sexual

arousal Dizziness Dry mouth Dry skin Duodenal ulcer
 Duodenitis Dysarthria Dysgeusia Dyskinesia Dyspepsia
 Dysphagia Dyspnoea Dystonia Dysuria Ecchymosis
 Eczema Embolism Encephalopathy Enuresis Erectile
dysfunction Euphoric mood Extrasystoles Face oedema Faecal
incontinence Fatigue Feeling abnormal Flank pain Flatulence
 Gait disturbance Gastritis Gastroenteritis Gastrointestinal
pain Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
 Glossitis Gynaecomastia Haematemesis Haematuria
 Haemoglobin Haemoptysis Haemorrhage Headache Hirsutism
 Hyperaesthesia Hyperhidrosis Hyperkinesia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension Hypertonia
 Hypoglycaemia Hypokinesia Hyponatraemia Hypotension
 Hypotonia Ill-defined disorder Immunodeficiency
 Incontinence Influenza Insomnia Iritis
 Irritability Jaundice Jaundice cholestatic Leukopenia
 Libido decreased Loss of consciousness Lymphadenopathy
 Malaise Mastitis Melaena Menorrhagia Microcytic
anaemia Micturition urgency Mouth ulceration Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Myoclonus Nausea
 Nervousness Neuritis Neuropathy peripheral Nocturia
 Nuchal rigidity Nystagmus Oculogyric crisis Oedema
 Oedema peripheral Oesophagitis Osteoarthritis Pain
 Palpitations Paraesthesia oral Paralysis Parosmia
 Petechiae Pharyngitis Photophobia Pollakiuria Polyuria
 Pruritus Psychotic disorder Pulmonary embolism Rash
 Rash maculo-papular Rash pustular Rectal haemorrhage
 Rhinitis Scotoma Shock Somnolence Speech disorder
 Stomatitis Syncope Systemic lupus erythematosus Tachycardia
 Tension Thirst Thrombocytopenia Thrombophlebitis
 Tinnitus Tremor Ulcer Urinary incontinence Urinary
retention Urine output increased Urticaria VIIth nerve paralysis
 Vascular insufficiency Ventricular extrasystoles Vertigo
 Vomiting Weight decreased Weight increased

Glutamate [NMDA] receptor subunit epsilon-2 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

meperidine: approved small molecule (50 associated side effects)
Used to control moderate to severe pain.

haloperidol: approved small molecule (79 associated side effects) For the management of psychotic disorders (eg. schizophrenia) and delirium, as well as to control tics and vocal utterances of Tourette's syndrome (Gilles de la Tourette's syndrome). Also used for the treatment of severe behavioural problems in children with disruptive behaviour disorder or ADHD (attention-deficit hyperactivity disorder). Haloperidol has been used in the prevention and control of severe nausea and vomiting.

felbamate: approved small molecule (249 associated side effects) For use only in those patients who respond inadequately to alternative treatments and whose epilepsy is so severe that a substantial risk of aplastic anemia and/or liver failure is deemed acceptable in light of the benefits conferred by its use.

memantine: approved small molecule (250 associated side effects) For the treatment of moderate to severe dementia of the Alzheimer's type.

tenocyclidine: illicit, experimental small molecule (0 associated side effects) Because of its high affinity for the phencyclidine binding site on the NMDA receptor, the 3H radiolabelled form of tenocyclidine is widely used in research into NMDA receptors.

405 known side effects mediated through drugs targeting this protein:

Abdominal pain Acne Acute coronary syndrome Acute leukaemia
Affect lability Aggression Agitation Agranulocytosis
Akathisia Alanine aminotransferase increased Alopecia
Altered state of consciousness Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anencephaly
Angina pectoris Angiopathy Antinuclear antibody positive
Anxiety Aortic dissection Apathy Aphasia Apnoea
Argininosuccinate synthetase deficiency Arrhythmia Arrhythmia
supraventricular Arthralgia Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Atrial
fibrillation Atrioventricular block Azotaemia Back pain
Blepharitis Blindness Blood alkaline phosphatase increased
Blood creatinine increased Blood lactate dehydrogenase
increased Body temperature decreased Body temperature increased
Bradycardia Brain oedema Breast engorgement Breast
feeding Breast pain Bronchitis Bronchospasm Cardiac arrest
Cardiac disorder Cardiac failure Cardiac fibrillation
Carpal tunnel syndrome Cataract Catatonia Cellulitis
Cerebral haemorrhage Cerebral infarction Cerebrovascular
accident Cerebrovascular disorder Chest pain Chills
Cholelithiasis Choreoathetosis Coagulopathy Colitis
Coma Completed suicide Confusional state Congenital anomaly
Congenital genital malformation Conjunctival haemorrhage
Conjunctivitis Connective tissue disorder Constipation
Convulsion Coordination abnormal Corneal opacity Cough
Crocodile tears syndrome Crying Deafness Death
Decreased appetite Deep vein thrombosis Dehydration
Delirium Delusion Depersonalisation Depressed level of
consciousness Dermatitis Dermatitis bullous Developmental
delay Diabetes mellitus Diarrhoea Diplopia Discomfort
Disorientation Disseminated intravascular coagulation
Dissociation Disturbance in attention Disturbance in
sexual arousal Diverticulitis Dizziness Drug interaction Drug
withdrawal syndrome Dry mouth Dysarthria Dysgeusia Dyskinesia
Dyspepsia Dysphagia Dysphoria Dyspnoea Dystonia
Dysuria Ear infection Eczema Effusion Elastosis
perforans Electrocardiogram QT prolonged Electrocardiogram
change Embolism Encephalocele Encephalopathy Endocrine
disorder Enteritis Eosinophilia Epistaxis Erectile

dysfunction Erythema multiforme Euphoric mood Extrapyrarnidal
disorder Eye pain Eyelid ptosis Face oedema Faecal
incontinence Fatigue Feeling abnormal Flat affect Flatulence
Flushing Foetal disorder Gait disturbance Gangrene
Gastric dilatation Gastric ulcer Gastritis
Gastroenteritis Gastrointestinal disorder Gastrointestinal
haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
Gingival bleeding Glaucoma Glossitis Grand mal convulsion
Gynaecomastia Haematemesis Haematuria Haemoglobin
Haemolytic anaemia Haemolytic uraemic syndrome Haemoptysis
Haemorrhage Haemorrhage intracranial Hallucination
Headache Hearing impaired Hemianopia Hemiplegia Hepatic
failure Hepatic function abnormal Hepatitis Hepatitis
cholestatic Hepatobiliary disease Hepatorenal syndrome Hiccups
Hormone level abnormal Hyperaemia Hyperammonaemia
Hyperglycaemia Hyperhidrosis Hyperkinesia
Hyperlipidaemia Hypernatraemia Hyperpyrexia
Hypersensitivity Hypertension Hypertonia Hypoaesthesia
Hypocalcaemia Hypochromic anaemia Hypoglycaemia
Hypokalaemia Hypokinesia Hypomagnesaemia Hyponatraemia
Hypophosphataemia Hypotension Hypothermia Hypoxia Ileus Ill-
defined disorder Inappropriate antidiuretic hormone secretion
Incontinence Increased appetite Induration Infarction
Infection Infestation Influenza Injection site pain
Insomnia Intermittent claudication International
normalised ratio increased Intestinal obstruction Intra-uterine
death Irritability Ischaemia Jaundice Lacrimation increased
Laryngospasm Lethargy Leukaemia Leukocytosis
Leukopenia Libido increased Lichen planus Livedo
reticularis Lividity Loss of consciousness Lymphadenopathy
Lymphoma Lymphoproliferative disorder Macular degeneration
Macule Malaise Mania Mean cell volume Mean cell volume
increased Mediastinal disorder Megacolon Melaena Menstrual
disorder Menstruation irregular Mental disability Mental disorder
due to a general medical condition Microcephaly Migraine
Miosis Mononeuritis Mood swings Mouth ulceration
Mucous membrane disorder Muscle contractions involuntary
Muscle spasms Muscle spasticity Muscle twitching Muscular
weakness Musculoskeletal discomfort Myalgia Myeloid leukaemia
Myocardial infarction Myoclonus Myopia Nasopharyngitis
Nausea Necrosis Necrosis ischaemic Neoplasm
Nephrotic syndrome Nervous system disorder Nervousness
Neuralgia Neuroleptic malignant syndrome Neuropathy
peripheral Neurosis Neutropenia Nightmare Nystagmus Obstruction
Oculogyric crisis Oedema Oedema mucosal Oedema peripheral
Oesophageal disorder Oesophageal ulcer Oesophagitis
Opisthotonus Orthostatic hypotension Osteoarthritis
Osteonecrosis Otitis media Pain Pain in extremity
Palpitations Pancreatitis Pancreatitis acute
Pancytopenia Paraesthesia Paralysis Paranoia
Peripheral ischaemia Personality disorder Pharyngitis
Phlebitis Photosensitivity allergic reaction Photosensitivity
reaction Placental disorder Platelet disorder Pleural disorder
Pleural effusion Pneumonia Pneumonia aspiration Priapism
Prothrombin time shortened Protrusion tongue Pruritus

Psychotic disorder Pulmonary embolism Pulmonary
 function test decreased Pulmonary haemorrhage Pulmonary oedema
 Purpura Rash Rash erythematous Rash papular Rectal
 haemorrhage Renal failure acute Renal function test abnormal Renal
 impairment Respiratory arrest Respiratory depression Respiratory
 failure Respiratory tract infection Retinal detachment
 Retinal disorder Retinal haemorrhage Rhabdomyolysis
 Rhinitis Salivary hypersecretion Sedation Sepsis
 Shock Sinusitis Skin disorder Skin odour abnormal Skin
 ulcer Sleep disorder Somnolence Status epilepticus Stevens-
 Johnson syndrome Stomach dilation procedure Stomatitis Stupor
 Sudden death Sudden infant death syndrome Suicidal ideation
 Suicide attempt Supraventricular tachycardia Swelling
 Syncope Tachycardia Tardive dyskinesia Tension
 Thinking abnormal Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombophlebitis Thrombosis
 Thrombotic thrombocytopenic purpura Tinnitus Torsade de
 pointes Toxic epidermal necrolysis Transient ischaemic attack
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urticaria Uterovaginal
 prolapse Vaginal haemorrhage Vascular dementia Vascular purpura
 Vasculitis Venous thrombosis Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased X-linked lymphoproliferative syndrome
 Xerophthalmia

Sodium channel protein type 1 subunit alpha - Group: Channel

Treated with:

phenytoin: approved small molecule (247 associated side
 effects) For the control of generalized tonic-clonic (grand mal)
 and complex partial (psychomotor, temporal lobe) seizures and
 prevention and treatment of seizures occurring during or following
 neurosurgery.

topiramate: approved small molecule (365 associated side
 effects) Used for the treatment and control of partial seizures
 and severe tonic-clonic (grand mal) seizures and also for the
 prevention of migraine headaches. In children it is also used for
 treatment of Lennox-Gastaut syndrome.

zonisamide: approved small molecule (190 associated side
 effects) For use as adjunctive treatment of partial seizures in
 adults with epilepsy.

phenacemide: approved small molecule (0 associated side
 effects) Used to control certain seizures in the treatment of
 epilepsy.

phenazopyridine: approved small molecule (20 associated side
 effects) For the symptomatic relief of pain, burning, urgency,
 frequency, and other discomforts arising from irritation of the
 lower urinary tract mucosa caused by infection, trauma, surgery,
 endoscopic procedures, or the passage of sounds or catheters.

nitrazepam: approved small molecule (44 associated side effects)

Used to treat short-term sleeping problems (insomnia), such as
 difficulty falling asleep, frequent awakenings during the night, and
 early-morning awakening.

permethrin: approved small molecule (17 associated side effects)
For the treatment of infestation with <i>Sarcoptes scabiei</i> (scabies).

508 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Acidosis Acne Affect lability Ageusia
Aggression Agitation Agranulocytosis Akathisia Alanine
aminotransferase increased Albuminuria Alcohol intolerance
Alkalosis Alopecia Amblyopia Amenorrhoea Amnesia
Anaemia Anaemia megaloblastic Anaphylactic shock
Anaphylactoid reaction Anger Angina pectoris Angiopathy Angle
closure glaucoma Anorectal discomfort Anxiety Apathy
Aphasia Apnoea Apraxia Arrhythmia Arthralgia
Arthritis Arthropathy Aspartate aminotransferase increased
Aspiration Asterixis Asthenia Asthma Ataxia
Atelectasis Atrial fibrillation Atrial flutter
Atrioventricular block Autonomic neuropathy Back pain Basal
cell carcinoma Bipolar I disorder Bipolar disorder Bladder
disorder Bladder pain Blindness Blister Blood alkaline
phosphatase increased Blood creatinine increased Blood lactate
dehydrogenase increased Body temperature decreased Body
temperature increased Bone pain Bradycardia Brain oedema
Breast discharge Breast disorder female Breast pain Breath
odour Bronchitis Bronchospasm Bundle branch block Cachexia
Calculus bladder Candidiasis Cardiac arrest Cardiac failure
Cardiac failure congestive Cardiac fibrillation Cardiac
flutter Cardiomegaly Cardiovascular disorder Cataract
Cerebellar syndrome Cerebral haemorrhage Cerebral
infarction Cerebrovascular accident Chest pain Chills
Chloasma Cholangitis Cholecystitis Cholelithiasis
Chorea Coagulopathy Cognitive disorder Colitis
Collagen disorder Colour blindness Coma Completed suicide
Confusional state Congenital eye disorder Conjunctivitis
Connective tissue disorder Constipation Convulsion
Coordination abnormal Cough Cryptococcosis Cyanosis
Cystitis Cystitis noninfective Cytolytic hepatitis
Deafness Death Decreased appetite Deep vein thrombosis
Dehydration Delirium Delirium tremens Delusion Dental
caries Depersonalisation Depressed level of consciousness
Depression Dermatitis bullous Dermatitis contact
Diabetes insipidus Diabetes mellitus Diabetic neuropathy
Diarrhoea Diplopia Discomfort Disorientation Disturbance
in attention Disturbance in sexual arousal Dizziness Drug
interaction Drug rash with eosinophilia and systemic symptoms Drug
withdrawal syndrome Dry mouth Dry skin Duodenal ulcer
Duodenitis Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea
Dyspepsia Dysphagia Dysphonia Dyspnoea Dystonia
Dysuria Ear infection Ear pain Ecchymosis Eczema
Ejaculation disorder Electroencephalogram abnormal
Embolism Emotional disorder Emotional distress
Encephalitis Encephalopathy Endocrine disorder
Enuresis Eosinophilia Epidermodysplasia verruciformis
Epilepsy Epistaxis Erectile dysfunction Eructation

Erythema multiforme Euphoric mood Expressive language
 disorder Extensor plantar response Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye disorder Eye pain
 Eyelid ptosis Face oedema Faecal incontinence Fatigue
 Feeling abnormal Flank pain Flat affect Flatulence Fluid
 retention Flushing Folliculitis Gait disturbance Gallbladder
 disorder Gastric disorder Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrooesophageal reflux disease
 Generalised oedema Genital candidiasis Genital discharge
 Gingival bleeding Gingival hyperplasia Gingivitis Glaucoma
 Glossitis Goitre Grand mal convulsion Gynaecomastia
 Haematemesia Haematoma Haematuria Haemoglobin Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhoids Hair texture
 abnormal Hallucination Hangover Headache Hearing impaired
 Hemiplegia Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hiccups Hirsutism Hormone level abnormal Hostility Hot
 flush Hyperacusis Hyperaesthesia Hyperammonaemia Hyperchloraemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperlipidaemia Hypernatraemia Hyperplasia
 Hyperreflexia Hypersensitivity Hypertension
 Hyperthermia Hypertonia Hypertrichosis Hypertrophy
 Hyperventilation Hypoaesthesia Hypocalcaemia
 Hypocholesterolaemia Hypochromic anaemia Hypoglycaemia
 Hypohidrosis Hypokalaemia Hypokinesia Hyponatraemia
 Hypophosphataemia Hyporeflexia Hypotension Hypothermia
 Hypotonia Hypoxia Ileus Ill-defined disorder
 Immunodeficiency Incontinence Increased appetite
 Increased bronchial secretion Infarction Infection
 Inflammation Influenza Insomnia Intracranial pressure
 increased Iritis Irritability Jaundice Jaundice
 cholestatic Ketosis Lacrimal disorder Lacrimation increased
 Laryngospasm Lethargy Leukocytosis Leukopenia
 Libido decreased Libido increased Liver function test abnormal
 Liver injury Loss of consciousness Lymphadenopathy
 Lymphocytosis Lymphoma Lymphopenia Macrocytosis
 Maculopathy Malaise Mania Mastitis Melaena Memory
 impairment Meningitis Meningitis aseptic Menopausal symptoms
 Menorrhagia Menstrual disorder Mental disability Mental
 disorder Metabolic acidosis Methaemoglobinaemia
 Metrorrhagia Microcytic anaemia Micturition urgency
 Migraine Mood swings Mouth ulceration Movement disorder
 Muscle contractions involuntary Muscle relaxant therapy
 Muscle rigidity Muscle spasms Muscle spasticity Muscle
 twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Myopathy Myopia Nail disorder Nausea Necrosis
 Neoplasm Neoplasm malignant Nephrolithiasis Nervous
 system disorder Nervousness Neuritis Neuropathy peripheral
 Neurosis Neutropenia Nightmare Nocturia Nodule
 Nuchal rigidity Nystagmus Obesity Oculogyric crisis
 Oedema genital Oedema peripheral Oesophagitis Oliguria
 Orthostatic hypotension Osteoarthritis Osteoarthropathy

Osteomalacia Osteoporosis Otitis media Pain Pain
 in extremity Pallor Palpitations Pancreatitis
 Pancytopenia Paraesthesia oralParalysis Paranoia
 Parosmia Pelvic pain Pemphigus Personality disorder
 Petechiae Pharyngitis Phlebitis Photophobia Photosensitivity
 reaction Pneumonia aspiration Pneumothorax Poisoning
 Pollakiuria Polyarteritis nodosa Polycythaemia
 Polyneuropathy Polyuria Premature ejaculation Proctalgia
 Prostatic disorder Prothrombin level increased Pruritus
 Pseudolymphoma Psychotic disorder Pulmonary embolism
 Purpura Rash Rash erythematousRash maculo-papular Rash
 morbilliform Rash pustular Rectal haemorrhage Rectal
 tenesmus Renal failure Renal pain Renal tubular acidosis Renal
 tubular disorder Respiratory disorder Respiratory tract infection
 Rhinitis Road traffic accident Salivary hypersecretion
 Scotoma Seborrhoeic dermatitis Sedation Sensory
 disturbance Sensory loss Sepsis Shock Sinus bradycardia
 Sinusitis Skin discolouration Skin disorder Skin mass
 Skin odour abnormal Sleep disorder Somnolence Speech
 disorder Sputum increased Stomatitis Strabismus Stupor
 Subdural haematoma Sudden death Suicidal behaviour
 Suicidal ideationSuicide attempt Sulphaemoglobinaemia
 Syncope Systemic lupus erythematosus Tachycardia Temperature
 intoleranceTenderness Tension Testicular disorder Thinking
 abnormal Thirst Thrombocytopenia Thrombocytosis
 Thrombophlebitis Thrombosis Thyroid disorder Tinnitus
 Tongue disorder Tongue oedema Tongue paralysis Tooth
 disorder Toothache Toxic epidermal necrolysis Tremor Ulcer
 Unintended pregnancy Upper motor neurone lesion Upper
 respiratory tract infection Urethral disorderUrethral pain
 Urinary incontinence Urinary retentionUrinary tract disorder
 Urinary tract infection Urine abnormalityUrine analysis
 abnormal Urine output increased Urticaria Uterovaginal prolapse
 VIIth nerve paralysis Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vascular insufficiency Vascular purpura
 Vasodilation procedure Vasospasm Venous thrombosisVentricular
 extrasystoles Ventricular fibrillation Vertigo Viral
 infection Vision blurred Visual acuity reduced Visual impairment
 Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
 infection Weight decreased Weight increased Xerophthalmia

Solute carrier organic anion transporter family member 1B3 - Group:
 Transporter

Treated with:
 valsartan: approved small molecule (80 associated side effects)
 May be used as a first line agent to treat uncomplicated
 hypertension, isolated systolic hypertension and left ventricular
 hypertrophy. May be used as a first line agent to delay progression
 of diabetic nephropathy. Losartan may be also used as a second line
 agent in the treatment of congestive heart failure, systolic
 dysfunction, myocardial infarction and coronary artery disease in
 those intolerant of ACE inhibitors.
 olmesartan: approved small molecule (0 associated side effects)
 For the treatment of hypertension.

liothyronine: approved small molecule (0 associated side effects) Used as replacement or supplemental therapy in patients with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

digoxin: approved small molecule (56 associated side effects) For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

casopfungin: approved small molecule (76 associated side effects) For the treatment of esophageal candidiasis and invasive aspergillosis in patients who are refractory to or intolerant of other therapies.

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

rifampin: approved small molecule (0 associated side effects) For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

ouabain: approved small molecule (0 associated side effects) For the treatment of atrial fibrillation and flutter and heart failure

pioglitazone: approved small molecule (36 associated side effects) Treatment of Type II diabetes mellitus

liotrix: approved small molecule (0 associated side effects) May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

cholic acid: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

445 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal pain Abdominal pain upper Abscess Acne Acute coronary syndrome
Acute interstitial pneumonitis Acute respiratory distress syndrome
Affect lability Aggression Agitation
Agranulocytosis Alanine aminotransferase increased Alopecia
Alveolitis Alveolitis allergic Alveolitis fibrosing
Amenorrhoea Anaemia Anaphylactic shock Anaphylactoid

reaction Angioedema Angiopathy Anxiety Apathy Aphasia
 Aplastic anaemia Arrhythmia Arterial thrombosis Arthralgia
 Arthropathy Aspartate aminotransferase increased Asthenia
 Asthma Ataxia Atrial fibrillation Atrial
 tachycardia Atrioventricular block complete Atrioventricular block
 first degree Atrioventricular block second degree
 Atrioventricular dissociation Azoospermia Azotaemia Back
 pain Benign neoplasm Bladder cancer Bladder neoplasm Bladder
 pain Blindness Blindness transient Blood albumin decreased
 Blood alkaline phosphatase increased Blood bicarbonate
 decreased Blood bilirubin increased Blood creatine phosphokinase
 increased Blood creatinine increased Blood glucose decreased
 Blood glucose increased Blood phosphorus increased Blood
 potassium decreased Blood potassium increased Blood pressure
 increased Blood triglycerides increased Blood urea increased
 Blood uric acid increased Body temperature increased Bone
 disorder Bone pain Bradycardia Breast discharge Breast discomfort
 Breast disorder Breast enlargement Breast mass Breast
 neoplasm Breast pain Breast swelling Breast tenderness Bronchitis
 Bronchospasm Candidiasis Carbohydrate tolerance decreased
 Cardiac arrest Cardiac disorder Cardiac fibrillation
 Cardioactive drug level Cell death Cerebral artery
 thrombosis Cerebral thrombosis Cerebrovascular accident
 Cervical discharge Cervix disorder Chest pain Chills
 Chloasma Chorea Cognitive disorder Colitis ischaemic
 Coma Conduction disorder Confusional state Conjunctivitis
 Connective tissue disorder Constipation Convulsion
 Coronary artery thrombosis Cough Cryptococcosis Cyanosis
 Cystitis Cystitis noninfective Cytomegalovirus infection
 Death Decreased appetite Deep vein thrombosis Delirium
 Dementia Dental plaque Depression Dermatitis Dermatitis
 exfoliative Diabetes mellitus Diabetic retinal oedema Diarrhoea
 Discomfort Disease progression Dissociation Dizziness
 Drug interaction Dry eye Dry mouth Dysarthria
 Dysmenorrhoea Dyspepsia Dysplasia Dyspnoea Dysuria
 Ear pain Ecchymosis Ectropion of cervix Effusion
 Electrocardiogram PR prolongation Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram
 abnormal Electrocardiogram change Embolism Embolism venous
 Encephalopathy Endometrial cancer Endometrial
 hypertrophy Endometriosis Enteritis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Erythema nodosum Extrasystoles Extravasation Eye
 disorder Fatigue Febrile neutropenia Feeling abnormal
 Feeling hot Fibrocystic breast disease Fibrosis Flat affect
 Flatulence Fluid retention Flushing Folliculitis
 Furuncle Galactorrhoea Gallbladder disorder Gamma-
 glutamyltransferase decreased Gastritis Gastrointestinal
 disorder Gastrointestinal necrosis Gastrointestinal pain
 Gastrointestinal toxicity Generalised oedema Genital
 discharge Gingivitis Glossitis Glucose tolerance decreased
 Glucose tolerance impaired Gynaecomastia Haemangioma
 Haematemesis Haematocrit decreased Haematological
 malignancy Haematuria Haemoglobin decreased Haemoptysis Haemorrhage
 Haemorrhagic disorder Hallucination Headache Hemiparesis

Hepatic cirrhosis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatitis acute
 Hepatobiliary disease Herpes virus infection Herpes zoster
 Hirsutism Histoplasmosis Hyperbilirubinaemia
 Hypercalcaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypogammaglobulinaemia
 Hypokalaemia Hypomagnesaemia Hypotension Hypothyroidism
 Idiopathic pulmonary fibrosis Ill-defined disorder
 Induration Infarction Infection Infertility Inflammation
 Influenza Injection site pain Insomnia Interstitial lung
 disease Intestinal ischaemia Intra-uterine death
 Irritability Ischaemia Jaundice Jaundice cholestatic
 Lacrimal disorder Lacrimation increased Laryngitis Leiomyoma
 Lethargy Leukoencephalopathy Leukopenia Liver function
 test abnormal Loss of consciousness Loss of libido Lung
 disorder Lung infection Lymphadenopathy Lymphoma
 Lymphoproliferative disorder Maculopathy Malaise Mass
 Melaena Meningioma benign Meningitis Meningitis aseptic
 Menorrhagia Menstrual disorder Mental disorder Mesenteric
 vascular insufficiency Metrorrhagia Microcytic anaemia
 Migraine Mood swings Mouth ulceration Muscle rigidity
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myocardial infarction Myocardial ischaemia Myositis
 Nausea Neck pain Necrosis Neoplasm Neoplasm
 malignant Nephropathy Nerve root lesion Nervous system disorder
 Nervousness Neuritis Neuropathy peripheral Neutropenia
 Nipple pain Nocardiosis Nodule Nuchal rigidity Obstruction
 Obstructive airways disorder Oedema Oedema peripheral
 Opportunistic infection Optic neuritis Oropharyngeal
 candidiasis Osteoarthritis Osteonecrosis Osteoporosis
 Ovarian cancer Pain Pain in extremity Palpitations
 Pancreatic disorder Pancreatitis Pancytopenia
 Paraesthesia Paresis Pelvic pain Pericardial effusion
 Pericarditis Petechiae Pharyngitis Phlebitis
 Photosensitivity reaction Pigmentation disorder Pleural
 disorder Pleural effusion Pneumocystis jiroveci pneumonia
 Pneumonia Pneumonia cytomegaloviral Poisoning Pollakiuria
 Polyuria Porphyria Precocious puberty Productive cough
 Protein urine present Proteinuria Pruritus Pruritus genital
 Psychotic disorder Puberty Pulmonary embolism
 Pulmonary fibrosis Pulmonary function test decreased
 Pulmonary oedema Pulmonary toxicity Purpura
 Radiculopathy Rales Rash Rash generalised Rash maculo-
 papular Renal failure Renal failure acute Renal impairment
 Renal tubular disorder Respiratory depression Respiratory
 distress Respiratory failure Respiratory tract infection
 Retinal vein thrombosis Retinitis pigmentosa
 Rhabdomyolysis Rhinitis Sensory loss Sepsis Shock
 Sinus bradycardia Sinusitis Skin burning sensation Skin
 exfoliation Skin necrosis Skin ulcer Smear cervix abnormal
 Social avoidant behaviour Soft tissue necrosis Somnolence

Speech disorder Spinal cord disorder Stomatitis
Subcutaneous nodule Sudden death Swelling Swelling
face Syncope Tachycardia Tachypnoea Telangiectasia Tenderness
Tension Thrombocytopenia Thrombophlebitis superficial
Thrombosis Tinnitus Tooth abscess Tooth disorder Toxic
epidermal necrolysis Tremor Tumour lysis syndrome Ulcer Upper
respiratory tract infection Ureteric obstruction Urethral disorder
Urinary tract disorder Urinary tract infection Urine
output increased Urticaria Uterine cancer Uterine cervical
erosion Uterine leiomyoma Uterine spasm Vaginal discharge
Vaginal haemorrhage Varicose vein Vasculitis
Vasodilation procedure Venous thrombosis Ventricular
extrasystoles Ventricular fibrillation Ventricular
tachycardia Vertigo Viral infection Vision blurred Visual
acuity reduced Visual impairment Vomiting Vulvovaginal
candidiasis Vulvovaginal mycotic infection Vulvovaginal pruritus
Weight increased Withdrawal bleed X-linked lymphoproliferative
syndrome Xanthopsia

Activin receptor type 1B - Group: Enzyme

Treated with:

adenosine triphosphate: approved, nutraceutical small molecule
(0 associated side effects) For nutritional supplementation,
also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

47 kDa membrane antigen - Group: Other

Treated with:

2,3-di-o-sulfo-alpha-d-gluco-pyranose: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Insulin receptor - Group: Enzyme

Treated with:

insulin recombinant: approved biotech (0 associated side
effects) For treatment of Type I and II diabetes mellitus.

insulin lispro: approved biotech (49 associated side effects)

For the treatment of Type 1 or 2 diabetes mellitus. To be used
in conjunction with an intermediate or long-acting insulin except
when used in a continuous insulin infusion pump.

insulin glargine: approved biotech (54 associated side effects)

For the treatment of Type 1 or 2 diabetes mellitus in patients
over 17 years old who require a long-acting (basal) insulin for the
control of hyperglycemia. May be used in pediatric patients with
Type 1 diabetes mellitus who require a long-acting (basal) insulin
for glycemic control.

insulin, porcine: approved biotech (0 associated side effects)

For the treatment of type I and II diabetes mellitus.

mecasermin: approved biotech (0 associated side effects) For the long-term treatment of growth failure in pediatric patients with Primary IGFD or with GH gene deletion who have developed neutralizing antibodies to GH. It is not indicated to treat Secondary IGFD resulting from GH deficiency, malnutrition, hypothyroidism or other causes; it is not a substitute for GH therapy.

insulin aspart: approved biotech (42 associated side effects) For the treatment of Type 1 or 2 diabetes mellitus. Should normally be used in conjunction with an intermediate or long-acting insulin.

insulin detemir: approved biotech (0 associated side effects) For the treatment of type 1 or 2 diabetes mellitus. May be used in combination with oral anti-diabetic agents in type 2 diabetic patients who are not in adequate metabolic control with oral anti-diabetic agents alone.

insulin glulisine: approved biotech (0 associated side effects) For the treatment of Type 1 and 2 diabetes mellitus. Should be used in regimens including a long-acting or basal insulin analogue unless it is used in a continuous infusion pump. May be used with oral antidiabetic agents.

adenosine-5'-[beta, gamma-methylene]triphosphate: experimental small molecule (0 associated side effects)

[4-({5-(aminocarbonyl)-4-[(3-methylphenyl)amino]pyrimidin-2-yl}amino)phenyl]acetic acid: experimental small molecule (0 associated side effects)

81 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Angioedema Angiopathy
Arthralgia Asthenia Back pain Body temperature increased
Bone pain Bronchitis Bronchospasm Cataract Chest pain
Coma Cough Death Dermatitis Diabetic retinopathy Diarrhoea
Disease progression Drug hypersensitivity Dysmenorrhoea
Dyspepsia Dyspnoea Erythema Gastrointestinal pain
Glycosuria Headache Hyperhidrosis Hypernatraemia
Hypersensitivity Hypertension Hypertrophy Hypoglycaemia
Hypokalaemia Hyporeflexia Hypotension Infection
Inflammation Influenza Infusion site reaction Injection
site pain Injection site reaction Ketosis Lipoatrophy
Lipodystrophy acquired Lipohypertrophy Loss of consciousness
Musculoskeletal discomfort Myalgia Nausea Neuropathy
peripheral Normal pressure hydrocephalus Obstruction Oedema
Oedema peripheral Onychomycosis Pain Pain in extremity
Pharyngitis Polyarteritis nodosa Pruritus Rash Refraction
disorder Respiratory tract infection Retinal disorder Retinal
vascular disorder Rhinitis Sensory disturbance Shock Sinusitis
Skin disorder Swelling Tachycardia Type 1 diabetes
mellitus Type 2 diabetes mellitus Upper respiratory tract
infection Urinary tract infection Urticaria Weight increased
Wheezing

Low affinity immunoglobulin gamma Fc region receptor III-B - Group:
Receptor
Treated with:

cetuximab: approved biotech (0 associated side effects) For treatment of EGFR-expressing metastatic colorectal cancer in patients who are refractory to other irinotecan-based chemotherapy regimens. Cetuximab is also indicated for treatment of squamous cell carcinoma of the head and neck in conjunction with radiation therapy.

etanercept: approved biotech (0 associated side effects) For treatment of severe active rheumatoid arthritis in adults, severe juvenile idiopathic arthritis, ankylosing spondylitis, and severe plaque psoriasis.

intravenous immunoglobulin: approved biotech (0 associated side effects) IVIg is used in the treatment of immunodeficiencies, as well as autoimmune and inflammatory disorders. These indications includes idiopathic thrombocytopenic purpura, Kawasaki disease, hypogammaglobulinemia, B cell chronic lymphocytic leukemia, bone marrow transplant complications, Guillain-Barré syndrome, chronic inflammatory demyelinating polyneuropathy (CIDP), multiple sclerosis, rheumatoid arthritis, myesthesia gravis, Wiskott-Aldrich syndrome and inflammatory skin diseases.

adalimumab: approved biotech (0 associated side effects) For treatment of rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, and Crohn's disease.

abciximab: approved biotech (0 associated side effects)
gemtuzumab ozogamicin: approved biotech (0 associated side effects) For treatment of CD33-positive acute myeloid leukemia in patients 60 and over who are not candidates for other chemotherapy.

trastuzumab: approved biotech (0 associated side effects)
For treatment of early stage HER2-positive breast cancer, or metastatic breast cancer that substantially overexpress HER2.

rituximab: approved biotech (0 associated side effects) For treatment of CD20-positive non-Hodgkins lymphoma, chronic lymphocytic leukemia, and rheumatoid arthritis.

basiliximab: approved biotech (0 associated side effects)
For prophylactic treatment of kidney transplant rejection

muromonab: approved biotech (0 associated side effects) For treatment of organ transplant recipients, prevention of organ rejection

ibrutumomab: approved biotech (0 associated side effects)
For treatment of non-Hodgkin's lymphoma

tositumomab: approved biotech (0 associated side effects)
For treatment of non-Hodgkin's lymphoma (CD20 positive, follicular)

alemtuzumab: approved biotech (0 associated side effects)
Alemtuzumab (Campath) is a monoclonal antibody therapy used for treatment of B-cell chronic lymphocytic leukemia.

alefacept: approved biotech (0 associated side effects) As an immunosuppressive drug, Alefacept can be used for treatment of moderate to severe chronic plaque psoriasis

efalizumab: approved biotech (0 associated side effects) For the treatment of adult patients with moderate to severe chronic plaque psoriasis, who are candidates for phototherapy or systemic therapy.

natalizumab: approved biotech (0 associated side effects)
For treatment of multiple sclerosis.

palivizumab: approved biotech (0 associated side effects)
For prophylaxis of respiratory diseases caused by respiratory syncytial virus.

daclizumab: approved biotech (0 associated side effects)
Zenapax is a humanized monoclonal antibody used for prevention of renal transplant rejection

bevacizumab: approved biotech (0 associated side effects)
As part of combination therapy for metastatic colorectal cancer and HER2-negative metastatic breast cancer.

known side effects mediated through drugs targeting this protein:

Glutamate [NMDA] receptor subunit epsilon-4 - Group: Channel
Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

meperidine: approved small molecule (50 associated side effects)
Used to control moderate to severe pain.

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

tenocyclidine: illicit, experimental small molecule (0 associated side effects) Because of its high affinity for the phencyclidine binding site on the NMDA receptor, the 3H radiolabelled form of tenocyclidine is widely used in research into NMDA receptors.

60 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Affect lability
Agitation Anaemia Anaphylactic shock Aplastic anaemia
Asthenia Bradycardia Cardiac arrest Confusional state
Constipation Convulsion Coordination abnormal Delirium
Dermatitis Disorientation Dizziness Dry mouth Dyskinesia
Dysphoria Euphoric mood Feeling abnormal Flushing
Hallucination Headache Hyperhidrosis Hypersensitivity
Hypotension Induration Injection site pain Loss of
consciousness Mood swings Muscle spasms Muscle twitching
Mydriasis Myoclonus Nausea Palpitations Paralysis
Phlebitis Pruritus Pulmonary function test decreased Rash
Respiratory arrest Respiratory depression Sedation Shock
Skin disorder Somnolence Syncope Tachycardia Tension
Tremor Urinary hesitation Urinary retention Urticaria
Vision blurred Visual impairment Vomiting

Melatonin receptor type 1B - Group: Receptor

Treated with:

ramelteon: approved small molecule (20 associated side effects)
For the treatment of insomnia characterized by difficulty with sleep onset.

melatonin: approved, nutraceutical small molecule (0 associated side effects) Used orally for jet lag, insomnia, shift-work disorder, circadian rhythm disorders in the blind (evidence for efficacy), and benzodiazepine and nicotine withdrawal. Evidence indicates that melatonin is likely effective for treating circadian rhythm sleep disorders in blind children and adults. It has received FDA orphan drug status as an oral medication for this use. A number of studies have shown that melatonin may be effective for treating sleep-wake cycle disturbances in children and adolescents with mental retardation, autism, and other central nervous system disorders. It appears to decrease the time to fall asleep in children with developmental disabilities, such as cerebral palsy, autism, and mental retardation. It may also improve secondary insomnia associated with various sleep-wake cycle disturbances. Other possible uses for which there is some evidence for include: benzodiazepine withdrawal, cluster headache, delayed sleep phase syndrome (DSPS), primary insomnia, jet lag, nicotine withdrawal, preoperative anxiety and sedation, prostate cancer, solid tumors (when combined with IL-2 therapy in certain cancers), sunburn prevention (topical use), tardive dyskinesia, thrombocytopenia associated with cancer, chemotherapy and other disorders.

agomelatine: approved small molecule (0 associated side effects) Agomelatine is indicated for the treatment of major depressive episodes in adults.

20 known side effects mediated through drugs targeting this protein:
 Anaphylactic shock Anaphylactoid reaction Arthralgia Asthenia
 Diarrhoea Dizziness Dysgeusia Fatigue Headache
 Infection Influenza Insomnia Mental disability
 Musculoskeletal discomfort Myalgia Nausea Respiratory
 tract infection Somnolence Thinking abnormal Upper respiratory
 tract infection

Solute carrier organic anion transporter family member 2A1 - Group:
 Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

furosemide: approved small molecule (112 associated side effects) For the treatment of edema associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome. Also for the treatment of hypertension alone or in combination with other antihypertensive agents.

alprostadiol: approved small molecule (0 associated side effects) For palliative, not definitive, therapy to temporarily maintain the patency of the ductus arteriosus until corrective or palliative surgery can be performed in neonates who have congenital heart defects and who depend upon the patent ductus for survival. Also for the treatment of erectile dysfunction due to neurogenic, vasculogenic, psychogenic, or mixed etiology.

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as

calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

iloprost: approved small molecule (46 associated side effects)

Used for the treatment of pulmonary arterial hypertension.

phosphoenolpyruvate: experimental small molecule (0 associated side effects)

glyceraldehyde-3-phosphate: experimental small molecule (0 associated side effects)

glucose-6-phosphate: experimental small molecule (0 associated side effects)

lactic acid: experimental small molecule (0 associated side effects)

fructose-1,6-diphosphate: experimental small molecule (0 associated side effects)

arachidonic acid: experimental small molecule (0 associated side effects)

145 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain Acute generalised exanthematous pustulosis Agitation Agranulocytosis Alkalosis Anaemia Anaphylactic shock Anaphylactoid reaction Angiopathy Aplastic anaemia Asthenia Back pain Benign prostatic hyperplasia Bladder pain Bladder spasm Blood alkaline phosphatase increased Blood uric acid increased Body temperature increased Bronchospasm Cardiac failure Cardiac failure congestive Chest pain Confusional state Constipation Cough Deafness permanent Decreased appetite Dehydration Dermatitis bullous Dermatitis exfoliative Diabetes mellitus Diarrhoea Discomfort Disturbance in attention Dizziness Drug eruption Dysgeusia Dyspnoea Electrolyte depletion Encephalopathy Eosinophilia Epidermolysis bullosa Epistaxis Erythema Erythema multiforme Eye disorder Feeling abnormal Flatulence Flushing Gamma-glutamyltransferase increased Gastrointestinal disorder Gastrointestinal pain Gingival bleeding Glossitis Glossodynia Glucose tolerance impaired Glycosuria Gout Haemoglobin Haemolytic anaemia Haemoptysis Haemorrhage Headache Hearing impaired Hepatic encephalopathy Hepatic enzyme increased Hepatobiliary disease Hydronephrosis Hypercoagulation Hyperglycaemia Hyperhidrosis Hypersensitivity Hypertrophy Hyperuricaemia Hypoproteinaemia Hypotension Hypovolaemia Immune system disorder Influenza Injection site pain Insomnia Jaundice Jaundice cholestatic Laboratory test abnormal Lethargy Leukopenia Loss of consciousness Mental disability Metabolic alkalosis Muscle spasms Muscular weakness Nausea Nephrocalcinosis

Nephrolithiasis Nervous system disorder Obstruction
 Oedema Oedema peripheral Orthostatic hypotension
 Orthostatic intolerance Pain Palpitations
 Pancreatitis acute Paraesthesia Patent ductus
 arteriosus Pemphigoid Photosensitivity reaction Pneumonia
 Pollakiuria Polydipsia Polyuria Pruritus Purpura Rash
 Renal failure Shock Social avoidant behaviour Somnolence
 Supraventricular tachycardia Syncope Tachycardia Tetany
 Thirst Thrombocytopenia Thrombophlebitis Tinnitus Toxic
 epidermal necrolysis Trismus Tubulointerstitial nephritis
 Urethral disorder Urinary retention Urinary tract disorder Urine
 output increased Urticaria Vascular purpura Vasculitis Vasculitis
 necrotising Vasodilation procedure Vertigo Vision blurred
 Vomiting Wheezing Xanthopsia

Glutamate receptor 1 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
 associated side effects) Considered to be nature's "Brain food"
 by improving mental capacities; helps speed the healing of ulcers;
 gives a "lift" from fatigue; helps control alcoholism, schizophrenia
 and the craving for sugar.

enflurane: approved small molecule (15 associated side effects)
 Used for the induction and maintenance of general anaesthesia
 during surgery and cesarean section and also used for analgesia
 during vaginal delivery.

isoflurane: approved small molecule (31 associated side effects)
 For induction and maintenance of general anaesthesia.

methoxyflurane: approved small molecule (0 associated side
 effects) For use in the induction and maintenance of general
 anaesthesia

phenobarbital: approved small molecule (54 associated side
 effects) For the treatment of all types of seizures except absence
 seizures.

desflurane: approved small molecule (110 associated side
 effects) For use as an inhalation agent for induction and/or
 maintenance of anaesthesia for inpatient and outpatient surgery in
 adults.

sevoflurane: approved small molecule (107 associated side
 effects) Used for induction and maintenance of general anaesthesia
 in adult and pediatric patients for inpatient and outpatient
 surgery.

200 known side effects mediated through drugs targeting this
 protein:

Abdominal pain Acidosis Acute coronary syndrome Agitation
 Alanine aminotransferase increased Albuminuria Amblyopia
 Ammonia increased Anaemia Anaemia megaloblastic
 Anaphylactic shock Anaphylactoid reaction Angioedema
 Angiopathy Anxiety Aortic dissection Apnoea Arrhythmia
 Arrhythmia supraventricular Arthralgia Aspartate
 aminotransferase increased Asthenia Asthma Ataxia
 Atrial fibrillation Atrioventricular block Atrioventricular
 block complete Atrioventricular block second degree Blindness

Blindness transient Blood creatinine increased Body
 temperature decreased Body temperature increased Bone disorder
 Bradycardia Breath holding Bronchospasm Burning sensation
 Cardiac arrest Cardiac disorder Cardiac fibrillation
 Chills Cholestasis Coagulopathy Confusional state
 Conjunctival hyperaemia Conjunctivitis Constipation
 Convulsion Cough Cytolytic hepatitis Delirium Depressed
 level of consciousness Dermatitis Dermatitis exfoliative Discomfort
 Dizziness Drug administration error Dry mouth Dysgeusia
 Dyspnoea Dysuria Electrocardiogram QT prolonged
 Electrocardiogram T wave inversion Electrocardiogram abnormal
 Emotional disorder Encephalopathy Erythema
 Extrasystoles Eye disorder Eye inflammation Eye
 irritation Eye pain Eyelid oedema Fatigue Feeling abnormal
 Foetor hepaticus Gastrointestinal disorder Gastrointestinal
 pain Glycosuria Haemoglobin Haemoptysis Haemorrhage Hallucination
 Hangover Headache Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatitis Hepatobiliary disease
 Hepatocellular injury Hiccups Hyperaemia
 Hyperbilirubinaemia Hyperglycaemia Hyperkalaemia
 Hyperkinesia Hypersensitivity Hypertension
 Hyperthermia malignant Hypertonia Hyperventilation Hypocapnia
 Hypokalaemia Hypokinesia Hypophosphataemia Hypotension
 Hypothermia Hypoventilation Hypoxia Ileus Ill-defined
 disorder Increased bronchial secretion Infarction Injection
 site reaction Insomnia Irritability Ischaemia Jaundice
 Keratitis Laryngospasm Lethargy Leukocytosis Liver
 disorder Liver injury Loss of consciousness Malaise
 Malignant hypertension Mediastinal disorder Metabolic
 acidosis Migraine Muscle rigidity Musculoskeletal discomfort
 Myalgia Mycobacterium avium complex infection
 Mycobacterium test Myocardial infarction Myocardial
 ischaemia Nausea Necrosis Nephritis Nervous system
 disorder Nervousness Nightmare Nodal arrhythmia Obstruction
 Obstructive airways disorder Ocular hyperaemia Oedema
 Oliguria Osteomalacia Pain Palpitations
 Pancreatitis acute Pharyngitis Phobia Pruritus
 Pulmonary function test decreased Rash Renal failure
 Respiratory arrest Respiratory depression Respiratory
 distress Respiratory failure Rhabdomyolysis Salivary
 hypersecretion Shock Skin burning sensation Skin disorder
 Somnolence Sputum increased Stridor Supraventricular
 extrasystoles Swelling Syncope Tachyarrhythmia Tachycardia
 Tension Thrombocytopenia Torsade de pointes Toxic
 epidermal necrolysis Tubulointerstitial nephritis Ulcerative
 keratitis Urethral disorder Urinary retention Urinary tract disorder
 Urine abnormality Urine analysis abnormal Urticaria
 Vasodilation procedure Ventricular extrasystoles Ventricular
 failure Ventricular fibrillation Ventricular hypokinesia
 Ventricular tachycardia Vertigo Visual acuity reduced
 Vomiting Wheezing

Sodium- and chloride-dependent glycine transporter 2 - Group:
 Transporter

Treated with:

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

38 known side effects mediated through drugs targeting this protein:

Acidosis Agitation Angina pectoris Back pain Blindness
Blindness transient Chills Coma Convulsion Dehydration
Diarrhoea Dizziness Dry mouth Electrolyte imbalance
Encephalopathy Fluid overload Hyperammonaemia
Hyperkinesia Hypersensitivity Hyponatraemia Hypotension
Lung disorder Nausea Oedema Pain Polyuria
Pulmonary congestion Respiratory tract congestion Rhinitis
Salivary hypersecretion Tachycardia Thirst
Thrombophlebitis Urinary retention Urticaria Vertigo
Visual impairment Vomiting

Voltage-dependent L-type calcium channel subunit alpha-1C - Group:
Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)

For the management of mild to moderate essential hypertension. It may be used alone or concurrently with thiazide-type diuretics.

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or atrial flutter of recent onset to sinus rhythm.

amlodipine: approved small molecule (136 associated side effects) For the treatment of hypertension and chronic stable angina.

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

nisoldipine: approved small molecule (161 associated side effects) For the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

magnesium sulfate: approved small molecule (0 associated side effects) Used for immediate control of life-threatening convulsions in the treatment of severe toxemias (pre-eclampsia and eclampsia) of pregnancy and in the treatment of acute nephritis in children. Also indicated for replacement therapy in magnesium deficiency, especially in acute hypomagnesemia accompanied by signs of tetany similar to those of hypocalcemia. Also used in uterine tetany as a myometrial relaxant.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

felodipine: approved small molecule (96 associated side effects) For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side effects) For the treatment of mild to moderate hypertension

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

calcium: experimental small molecule (31 associated side effects) Calcium plays a vital role in the anatomy, physiology and biochemistry of organisms and of the cell, particularly in signal transduction pathways. It is vital in cell signaling, muscular contractions, bone health, and signalling cascades.

mibefradil: withdrawn small molecule (0 associated side effects) For the treatment of angina and high blood pressure.

nilvadipine: approved small molecule (0 associated side effects) For the management of vasospastic angina, chronic stable angina and hypertension.

drotaverine: approved small molecule (0 associated side effects) Used in the treatment of functional bowel disorders and alleviating pain in renal colic.

390 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams Abscess
 Accommodation disorder Acidosis Acne Acute coronary
 syndrome Acute generalised exanthematous pustulosis Affect
 lability Agitation Alanine aminotransferase increased Alopecia
 Amblyopia Amnesia Anaemia Anaphylactic shock
 Angina pectoris Angioedema Angiopathy Anxiety Anxiety
 disorder Apathy Arrhythmia Arteriosclerosis Arthralgia
 Arthritis Arthropathy Asthenia Asthma Ataxia
 Atrial fibrillation Atrioventricular block complete
 Atrioventricular block first degree Atrioventricular block
 second degree Atrioventricular dissociation Back pain
 Balance disorder Bezoar Blepharitis Blindness Blindness
 transient Blister Blood alkaline phosphatase increased Blood
 creatine phosphokinase increased Blood creatinine increased Blood
 lactate dehydrogenase increased Blood pressure increased Blood
 prolactin increased Blood urea increased Blood uric acid Body
 temperature increased Bradycardia Breast engorgement Breast pain
 Bronchitis Bronchospasm Bundle branch block Calcinosis
 Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiac fibrillation Cardiac murmur
 Cardiogenic shock Cardiomyopathy Cellulitis Cerebral
 ischaemia Cerebrovascular accident Chest discomfort Chest pain
 Chills Cholestasis Chronic obstructive pulmonary disease
 Cold sweat Colitis Coma Confusional state Conjunctivitis
 Constipation Convulsion Coombs direct test positive Cough
 Crocodile tears syndrome Decreased appetite Deep vein
 thrombosis Delirium Depersonalisation Depressed level of

consciousness Depressive symptom Dermatitis Dermatitis
bullous Dermatitis exfoliative Diabetes mellitus Diarrhoea
Diplopia Discomfort Disease progression Disseminated
intravascular coagulation Dissociation Disturbance in
attention Disturbance in sexual arousal Dizziness Dizziness
postural Dry mouth Dry skin Dysgeusia Dyspepsia Dysphagia
Dyspnoea Dysuria Ear disorder Ear infection Ear
pain Ecchymosis Effusion Electrocardiogram ST segment
Electrocardiogram ST segment depression Electrocardiogram T
wave inversion Electrocardiogram abnormal Eosinophilia
Epistaxis Erectile dysfunction Eructation Erythema
Erythema multiforme Erythema nodosum Erythromelalgia
Extrapyramidal disorder Extrasystoles Eye disorder
Eye haemorrhage Eye pain Eye pruritus Face oedema
Fasting Fatigue Feeling abnormal Feeling cold
Feeling hot Feeling jittery Flat affect Flatulence Fluid
retention Flushing Fungal skin infection Galactorrhoea
Gamma-glutamyltransferase increased Gastritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal obstruction Gastrointestinal pain
Gastrointestinal tract irritation Gastroesophageal reflux
disease Gingival bleeding Gingival disorder Gingival hyperplasia
Glaucoma Glomerulonephritis membranous Glossitis Gout
Gynaecomastia Haematoma Haematuria Haemoglobin decreased
Haemolysis Haemolytic anaemia Haemorrhage Haemorrhage
intracranial Headache Hepatic enzyme increased Hepatic
function abnormal Hepatitis Hepatitis cholestatic Hepatomegaly
Herpes simplex Herpes virus infection Herpes zoster Hot
flush Hyperaemia Hypercalcaemia Hyperglycaemia Hyperhidrosis
Hyperkeratosis Hyperkinesia Hyperplasia
Hyperprolactinaemia Hypersensitivity Hypertension
Hypertonia Hypertrophic cardiomyopathy Hypertrophy
Hypoaesthesia Hypokalaemia Hyponatraemia
Hypophosphataemia Hypotension Hypoxia Ileus paralytic Ill-
defined disorder Incontinence Increased appetite Infarction
Infection Inflammation Influenza Injection site pain
Injection site reaction Insomnia Intermittent
claudication Irritability Ischaemia Jaundice Joint
stiffness Joint swelling Keratitis Laboratory test abnormal
Lacrimation increased Laryngitis Laryngospasm Lethargy
Leukocytoclastic vasculitis Leukocytosis Leukopenia
Libido decreased Liver function test abnormal Loss of
consciousness Lung disorder Lymphadenopathy Macule
Malaise Melaena Menopausal symptoms Menstrual
disorder Mental disability Metabolic acidosis Micturition
disorder Micturition urgency Migraine Mood swings Mouth
ulceration Muscle fatigue Muscle spasms Muscle twitching
Muscular weakness Musculoskeletal discomfort Musculoskeletal
stiffness Myalgia Myocardial infarction Myocardial ischaemia
Myositis Nasal congestion Nasopharyngitis Nausea Neck
pain Necrosis Nephrolithiasis Nervousness Neuropathy peripheral
Nightmare Nocturia Nodal arrhythmia Nystagmus Obstruction
Obstructive airways disorder Oedema Oedema peripheral
Oesophagitis Oligomenorrhoea Oliguria Oropharyngeal
discomfort Oropharyngeal pain Orthostatic hypotension

Osteoarthritis Otitis media Pain Pain in extremity
 Palpitations Pancreatitis Paraesthesia Paralysis
 Paranoia Parosmia Pelvic pain Pericardial haemorrhage
 Pericarditis Periorbital oedema Peripheral ischaemia
 Peripheral vascular disorder Petechiae Pharyngitis Phlebitis
 Photosensitivity reaction Platelet count decreased
 Platelet disorder Pleural disorder Pleural effusion Poisoning
 Pollakiuria Polyuria Pruritus Psychotic disorder
 Pulmonary congestion Pulmonary oedema Purpura
 Quadripareisis Rales Rash Rash erythematous Rash maculo-
 papular Rash pustular Regurgitation Renal failure Renal
 failure chronic Renal impairment Respiratory disorder Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retinal detachment Rhinitis Rhinorrhoea Rhythm
 idioventricular Salivary gland enlargement Sense of oppression
 Sensory loss Sexual dysfunction Shock Sinus arrest
 Sinus arrhythmia Sinus bradycardia Sinus tachycardia Sinusitis
 Skin discolouration Skin ulcer Sleep disorder Sneezing
 Somnolence Sticky skin Stomatitis Stridor Stupor
 Supraventricular extrasystoles Supraventricular tachycardia
 Syncope Tachyarrhythmia Tachycardia Tenderness
 Tenosynovitis Tension Thinking abnormal Thirst
 Thrombocytopenia Thrombophlebitis Thrombosis Thyroiditis
 Tinnitus Toxic epidermal necrolysis Tremor Ulcer Upper
 respiratory tract infection Urinary incontinence Urinary tract
 infection Urine output increased Urogenital disorder Urticaria
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Vascular purpura Vasculitis Vasodilation procedure Vasospasm
 Venous insufficiency Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia
 Vertigo Vision blurred Visual acuity reduced Visual
 impairment Vitreous floaters Vomiting Weight decreased Weight
 increased Wheezing Xerophthalmia

Outer membrane protein X precursor - Group: Other

Treated with:

(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
 molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Thiamine transporter 2 - Group: Transporter

Treated with:

l-cysteine: approved, nutraceutical small molecule (0 associated
 side effects) For the prevention of liver damage and kidney
 damage associated with overdoses of acetaminophen

known side effects mediated through drugs targeting this protein:

Canalicular multispecific organic anion transporter 1 - Group:
Transporter

Treated with:

vasopressin: approved biotech (0 associated side effects)

For the treatment of enuresis, polyuria, diabetes insipidus, polydipsia and oesophageal varices with bleeding

cyclosporine: approved biotech (0 associated side effects)

For treatment of transplant rejection, rheumatoid arthritis, severe psoriasis

tetrahydrofolic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance.

glutathione: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

adenosine triphosphate: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

pravastatin: approved small molecule (147 associated side effects) For the treatment of hypercholesterolemia and to reduce the risk of cardiovascular disease.

reserpine: approved small molecule (44 associated side effects)

For the treatment of hypertension

indinavir: approved small molecule (89 associated side effects)

Indinavir is an antiretroviral drug for the treatment of HIV infection.

phenytoin: approved small molecule (247 associated side effects) For the control of generalized tonic-clonic (grand mal) and complex partial (psychomotor, temporal lobe) seizures and prevention and treatment of seizures occurring during or following neurosurgery.

clotrimazole: approved small molecule (28 associated side effects) For the local treatment of oropharyngeal candidiasis and vaginal yeast infections, also used in fungal infections of the skin such as ringworm, athlete's foot, and jock itch.

olmesartan: approved small molecule (0 associated side effects)

For the treatment of hypertension.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

indomethacin: approved small molecule (164 associated side effects) For moderate to severe rheumatoid arthritis including acute flares of chronic disease, ankylosing spondylitis, osteoarthritis, acute painful shoulder (bursitis and/or tendinitis) and acute gouty arthritis.

aminohippurate: approved small molecule (0 associated side effects) Used to measure effective renal plasma flow (ERPF) and to determine the functional capacity of the tubular excretory mechanism.

grepafloxacin: approved, withdrawn small molecule (0 associated side effects) For treatment of adults with mild to

moderate infections caused by susceptible strains of <i>Haemophilus influenzae</i>, <i>Streptococcus pneumoniae</i>, or <i>Moraxella catarrhalis</i>. sorafenib: approved small molecule (130 associated side effects) For the treatment of patients with advanced renal cell carcinoma.

spironolactone: approved small molecule (34 associated side effects) Used primarily to treat low-renin hypertension, hypokalemia, and Conn's syndrome.

streptozocin: approved small molecule (0 associated side effects) For the treatment of malignant neoplasms of pancreas (metastatic islet cell carcinoma).

cerivastatin: withdrawn small molecule (118 associated side effects) Used as an adjunct to diet for the reduction of elevated total and LDL cholesterol levels in patients with primary hypercholesterolemia and mixed dyslipidemia (Fredrickson Types IIa and IIb) when the response to dietary restriction of saturated fat and cholesterol and other non-pharmacological measures alone has been inadequate.

ritonavir: approved small molecule (297 associated side effects) Indicated in combination with other antiretroviral agents for the treatment of HIV-infection.

cisplatin: approved small molecule (111 associated side effects) For the treatment of metastatic testicular tumors, metastatic ovarian tumors and advanced bladder cancer.

vincristine: approved small molecule (118 associated side effects) For treatment of acute leukaemia, malignant lymphoma, Hodgkin's disease, acute erythraemia, acute panmyelosis

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

vinblastine: approved small molecule (0 associated side effects) For treatment of breast cancer, testicular cancer, lymphomas, neuroblastoma, Hodgkin's and non-Hodgkin's lymphomas, mycosis fungoides, histiocytosis, and Kaposi's sarcoma.

ivermectin: approved small molecule (47 associated side effects) For the treatment of intestinal (i.e., nondisseminated) strongyloidiasis due to the nematode parasite <i>Strongyloides stercoralis</i>. Also for the treatment of onchocerciasis (river blindness) due to the nematode parasite <i>Onchocerca volvulus</i>. Can be used to treat scabies caused by <i>Sarcoptes scabiei</i>.

leucovorin: approved small molecule (34 associated side effects) For the treatment of osteosarcoma (after high dose methotrexate therapy). Used to diminish the toxicity and counteract the effects of impaired methotrexate elimination and of inadvertent overdoses of folic acid antagonists, and to treat megaloblastic anemias due to folic acid deficiency. Also used in combination with 5-fluorouracil to prolong survival in the palliative treatment of patients with advanced colorectal cancer.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

daunorubicin: approved small molecule (55 associated side effects) For remission induction in acute nonlymphocytic leukemia (myelogenous, monocytic, erythroid) of adults and for remission induction in acute lymphocytic leukemia of children and adults.

furosemide: approved small molecule (112 associated side effects) For the treatment of edema associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome. Also for the treatment of hypertension alone or in combination with other antihypertensive agents.

etoposide: approved small molecule (109 associated side effects) For use in combination with other chemotherapeutic agents in the treatment of refractory testicular tumors and as first line treatment in patients with small cell lung cancer. Also used to treat other malignancies such as lymphoma, non-lymphocytic leukemia, and glioblastoma multiforme.

sulfasalazine: approved small molecule (114 associated side effects) For the treatment of Crohn's disease and rheumatoid arthritis as a second-line agent.

eprosartan: approved small molecule (146 associated side effects) For the management of hypertension alone or in combination with other classes of antihypertensive agents. Also used as a first-line agent in the treatment of diabetic nephropathy, as well as a second-line agent in the treatment of congestive heart failure (only in those intolerant of ACE inhibitors).

quinidine: approved small molecule (146 associated side effects) For the treatment of ventricular pre-excitation and cardiac dysrhythmias

norgestimate: approved small molecule (0 associated side effects) For the prevention of pregnancy

telmisartan: approved small molecule (174 associated side effects) Used alone or in combination with other classes of antihypertensives for the treatment of hypertension. Also used in the treatment of diabetic nephropathy in hypertensive patients with type 2 diabetes mellitus, as well as the treatment of congestive heart failure (only in patients who cannot tolerate ACE inhibitors).

ezetimibe: approved small molecule (52 associated side effects) For use as adjunctive therapy to diet for the reduction of elevated total-C, LDL-C, and Apo B in patients with primary (heterozygous familial and non-familial) hypercholesterolemia.

ethinyl estradiol: approved small molecule (0 associated side effects) For treatment of moderate to severe vasomotor symptoms associated with the menopause, female hypogonadism, prostatic carcinoma-palliative therapy of advanced disease, breast cancer, as an oral contraceptive, and as emergency contraceptive.

lomefloxacin: approved small molecule (204 associated side effects) For the treatment of bacterial infections of the respiratory tract (chronic bronchitis) and urinary tract, and as a pre-operative prophylactic to prevent urinary tract infection caused by: <i>S.pneumoniae</i>;, <i>H.influenzae</i>;, <i>S.aureus</i>;, <i>P.aeruginosa</i>;, <i>E. cloacae</i>;, <i>P. mirabilis</i>;, <i>C. civersus</i>;, <i>S. asprphyticus</i>;, <i>E.coli</i>;, and <i>K.pneumoniae</i>.

glyburide: approved small molecule (52 associated side effects)

Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

probenecid: approved small molecule (27 associated side effects)

For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

rifampin: approved small molecule (0 associated side effects)

For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

sulfipyrazone: approved small molecule (0 associated side effects) For the treatment of gout and gouty arthritis.

ofloxacin: approved small molecule (407 associated side effects) For the treatment of infections (respiratory tract, kidney, skin, soft tissue, UTI), urethral and cervical gonorrhoea.

arsenic trioxide: approved small molecule (172 associated side effects) For induction of remission and consolidation in patients with acute promyelocytic leukemia (APL), and whose APL is characterized by the presence of the t(15;17) translocation or PML/RAR-alpha gene expression

phenobarbital: approved small molecule (54 associated side effects) For the treatment of all types of seizures except absence seizures.

levetiracetam: approved small molecule (157 associated side effects) Used as adjunctive therapy in the treatment of partial onset seizures in adults and children 4 years of age and older with epilepsy.

sparfloxacin: approved small molecule (0 associated side effects) For the treatment of adults with the following infections caused by susceptible strains microorganisms: community-acquired pneumonia (caused by *Chlamydia pneumoniae*, *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Moraxella catarrhalis*, *Mycoplasma pneumoniae*, or *Streptococcus pneumoniae*) and acute bacterial exacerbations of chronic bronchitis (caused by *Chlamydia pneumoniae*, *Enterobacter cloacae*, *Haemophilus influenzae*, *Haemophilus parainfluenzae*, *Klebsiella pneumoniae*, *Moraxella catarrhalis*, *Staphylococcus aureus*, or *Streptococcus pneumoniae*).

saquinavir: approved small molecule (321 associated side effects) For the treatment of HIV-1 with advanced immunodeficiency together with antiretroviral nucleoside analogues.

dexamethasone: approved small molecule (147 associated side effects)

sunitinib: approved small molecule (198 associated side effects) For the treatment of advanced renal cell carcinoma as well as the treatment of gastrointestinal stromal tumor after disease progression on or intolerance to imatinib mesylate.

pranlukast: approved small molecule (0 associated side effects)
Used as an adjunct to the standard therapy of inhaled steroids with inhaled long- and/or short-acting beta-agonists.

ursodeoxycholic acid: approved small molecule (210 associated side effects) The drug reduces cholesterol absorption and is used to dissolve (cholesterol) gallstones in patients who want an alternative to surgery.

hyperforin: nutraceutical small molecule (0 associated side effects)

fusidic acid: approved small molecule (0 associated side effects) For the treatment of bacterial infections.

(1,10 phenanthroline)-(tri-carbon monoxide) rhenium (i):
experimental small molecule (0 associated side effects)

quercetin: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

5-methyltetrahydrofolate: experimental small molecule (0 associated side effects)

1164 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
Abdominal pain Abdominal pain upper Abdominal tenderness
Abnormal behaviour Abnormal dreams Abnormal faeces
Abnormal sensation in eye Abscess Abscess sterile
Acidosis Acne Acute abdomen Acute coronary syndrome
Acute generalised exanthematous pustulosis Acute
interstitial pneumonitis Acute leukaemia Acute myeloid
leukaemia Acute respiratory distress syndrome Acute tonsillitis
Adrenal disorder Adrenal insufficiency Affect lability
Ageusia Aggression Agitation Agranulocytosis Akathisia
Alanine aminotransferase increased Albuminuria Alcohol
intolerance Alkalosis Alkalosis hypokalaemic Alopecia Altered
state of consciousness Alveolitis Alveolitis allergic Alveolitis
fibrosing Amblyopia Amenorrhoea Amnesia Amyloidosis Anaemia
Anaemia megaloblastic Anal pruritus Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angioedema Angiopathy
Anorectal discomfort Anorectal disorder Anosmia
Antinuclear antibody positive Antisocial behaviour
Antisocial personality disorder Anuria Anxiety
Aortic dissection Apathy Aphasia Aphthous stomatitis
Aplastic anaemia Apnoea Apoptosis Application site
reaction Arachnoiditis Arrhythmia Arrhythmia supraventricular
Arterial disorder Arterial stenosis Arterial thrombosis
Arteritis Arthralgia Arthritis Arthropathy Ascites
Asocial behaviour Aspartate aminotransferase increased
Aspiration Asterixis Asthenia Asthma Ataxia
Atelectasis Atonic urinary bladder Atopy Atrial fibrillation
Atrial flutter Atrioventricular block Atrioventricular block
complete Atrioventricular dissociation Atrophy Autonomic

neuropathy Azoospermia Azotaemia Back pain Bacteraemia Bacterial
 infection Balance disorder Benign intracranial hypertension
 Benign neoplasm Benign prostatic hyperplasia Bezoar
 Biliary colic Bladder dysfunction Bladder pain
 Bladder spasm Blepharitis Blindness Blindness cortical
 Blindness transient Blister Blood albumin decreased
 Blood albumin increased Blood alkaline phosphatase
 increased Blood amylase increased Blood bilirubin increased
 Blood cholesterol increased Blood creatine phosphokinase
 increased Blood creatinine increased Blood disorder Blood
 electrolytes abnormal Blood glucose abnormal Blood glucose
 decreased Blood glucose increased Blood lactate dehydrogenase
 increased Blood magnesium decreased Blood phosphorus decreased
 Blood potassium decreased Blood potassium increased Blood
 pressure increased Blood prolactin increased Blood sodium
 increased Blood thyroid stimulating hormone increased Blood
 triglycerides increased Blood urea increased Blood uric acid
 increased Body temperature decreased Body temperature increased
 Bone disorder Bone pain Bradycardia Brain oedema
 Breast cancer Breast discharge Breast discomfort Breast
 disorder Breast engorgement Breast enlargement Breast mass
 Breast neoplasm Breast pain Breast swelling Breast tenderness
 Breath odour Breath sounds abnormal Bronchitis
 Bronchospasm Bundle branch block Bundle branch block
 right Burning sensation Bursitis Cachexia Caecitis Calcinosis
 Calculus urinary Cancer in remission Candidiasis Candiduria
 Capillary leak syndrome Carbohydrate tolerance decreased
 Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiac fibrillation Cardiac flutter
 Cardiac murmur Cardiac valve disease Cardio-respiratory
 arrest Cardiogenic shock Cardiomegaly Cardiomyopathy
 Cardiovascular disorder Cataract Cataract subcapsular
 Cauda equina syndrome Cell death Cellulitis gangrenous
 Cerebral arteritis Cerebral artery thrombosis Cerebral
 haemorrhage Cerebral infarction Cerebral ischaemia Cerebral
 thrombosis Cerebral venous thrombosis Cerebrovascular accident
 Cerebrovascular disorder Cervical discharge Cervix
 disorder Chalazion Cheilitis Chemical eye injury Chest
 discomfort Chest pain Chills Chloasma Cholangitis Cholangitis
 sclerosing Cholecystitis Cholelithiasis Cholestasis Chorea
 Choreoathetosis Chorioretinitis Choroiditis Chromaturia
 Chronic obstructive pulmonary disease Clonus
 Coagulopathy Cognitive disorder Colitis ischaemic
 Colitis ulcerative Colorectal cancer Coma Coma hepatic
 Completed suicide Compression fracture Condition aggravated
 Confusional state Congenital generalised lipodystrophy
 Congenital skin disorder Conjunctival haemorrhage
 Conjunctival hyperaemia Conjunctival oedema
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coombs direct test positive Coordination abnormal
 Corneal deposits Corneal erosion Coronary artery disease
 Coronary artery thrombosis Cough Crocodile tears syndrome
 Crohn's disease Cryptococcosis Crystal urine
 Crystalluria Cushing's syndrome Cushingoid Cutaneous
 vasculitis Cyanosis Cystitis Cystitis noninfective Cytolytic

hepatitis Cytomegalovirus chorioretinitis Cytomegalovirus
 infection Deafness Deafness bilateral Deafness permanent
 Death Decreased appetite Deep vein thrombosis Dehydration
 Delirium Dementia Dental plaque Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Dermatitis Dermatitis
 acneiform Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Dermatitis psoriasiform Dermatomyositis Diabetes
 insipidus Diabetes mellitus Diarrhoea Diarrhoea haemorrhagic
 Diplegia Diplopia Discomfort Disease progression
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulum Dizziness Drug abuse Drug
 eruption Drug hypersensitivity Drug interaction Drug level
 increased Drug rash with eosinophilia and systemic symptoms Drug
 withdrawal convulsions Dry eye Dry mouth Dry skin Duodenal
 ulcer Dysaesthesia Dysarthria Dyschezia Dysentery Dysgeusia
 Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia
 Dysplasia Dyspnoea Dystonia Dysuria Ear disorder
 Ear haemorrhage Ear infection Ear pain Ecchymosis
 Ectropion of cervix Eczema Effusion Ejaculation
 failure Ejection fraction Ejection fraction decreased Elderly
 Electrocardiogram PR interval Electrocardiogram QT
 prolonged Electrocardiogram abnormal Electrocardiogram change
 Electrocardiogram normal Electroencephalogram abnormal
 Electrolyte depletion Electrolyte imbalance Embolism
 Embolism venous Emotional disorder Emotional distress
 Emphysema Encephalitis Encephalopathy Endocarditis
 Endocrine disorder Endometrial cancer Endometrial
 hypertrophy Endometriosis Enteritis Enterocolitis Enuresis
 Enzyme abnormality Eosinophilia Eosinophilic
 myocarditis Epidermolysis bullosa Epididymitis Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythema nodosum Erythromelalgia
 Erythropenia Euphoric mood Exophthalmos Extensor
 plantar response Extrapyrmidal disorder Extrasystoles
 Extravasation Eye disorder Eye haemorrhage Eye
 infection Eye inflammation Eye irritation Eye pain Eye
 pruritus Eyelid oedema Eyelid ptosis Face oedema Facial
 nerve disorder Facial pain Facial paresis Factor VIII deficiency
 Faecal incontinence Faeces discoloured Fasciitis
 Fasting Fat embolism Fat redistribution Fat tissue
 increased Fatigue Febrile neutropenia Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Fibrocystic
 breast disease Fibrosis Fistula Flank pain Flat affect
 Flatulence Fluid overload Fluid retention Flushing
 Foetor hepaticus Folliculitis Frequent bowel movements
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gallbladder disorder Gamma-
 glutamyltransferase increased Gangrene Gastric disorder
 Gastric haemorrhage Gastric perforation Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal necrosis
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal toxicity Gastrointestinal tract irritation

Gastrointestinal ulcer Gastrooesophageal reflux disease
 Generalised oedema Genital candidiasis Genital discharge
 Gingival bleedingGingival disorderGingival hyperplasia
 Gingival pain Gingivitis Glaucoma Glomerulonephritis
 Glossitis Glossodynia Glucose tolerance decreased Glucose
 tolerance impaired Glycosuria Goitre Gout Grand mal
 convulsion Granulomatous liver disease Gravitational oedema
 Gynaecomastia Haemangioma Haemarthrosis Haematemesis
 Haematochezia Haematocrit decreased Haematoma Haematuria
 Haemoglobin decreased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemolytic uraemic syndrome Haemoptysis Haemorrhage
 Haemorrhage intracranial Haemorrhage urinary tract
 Haemorrhagic disorder Haemorrhoids Hair colour changes
 Hallucination Hangover Headache Hearing impaired Heat
 rash Hemiparesis Hemiplegia Hepatic cirrhosisHepatic encephalopathy
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatic neoplasm malignant Hepatic
 steatosis Hepatitis acute Hepatitis chronic active Hepatitis
 fulminant Hepatobiliary disease Hepatocellular injury
 Hepatomegaly Hepatosplenomegaly Herpes simplex
 Herpes virus infection Herpes zoster Hiccups Hirsutism
 Histoplasmosis Hormone level abnormalHostility Hot flush
 Hydronephrosis Hyperacusis Hyperaemia Hyperaesthesia
 Hyperamylasaemia Hyperbilirubinaemia Hypercalcaemia
 Hypercholesterolaemia Hypercoagulation Hyperglycaemia
 Hyperhidrosis Hyperkalaemia Hyperkeratosis
 Hyperkinesia Hyperlactacidaemia Hyperlipidaemia
 Hypernatraemia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperreflexia Hypersensitivity
 Hypersomnia Hypertension Hypertensive crisis
 Hyperthyroidism Hypertonia Hypertrichosis
 Hypertriglyceridaemia Hypertrophic cardiomyopathy Hypertrophy
 Hyperuricaemia Hyperventilation Hypoaesthesia
 Hypoaesthesia facial Hypoalbuminaemia Hypocalcaemia
 Hypochromic anaemia Hypogammaglobulinaemia Hypogeusia
 Hypoglycaemia Hypokalaemia Hypokinesia Hypomagnesaemia
 Hyponatraemia HypophosphataemiaHypopituitarism
 Hypoproteinaemia Hypoprothrombinaemia Hyporeflexia
 Hyposthenuria Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovitaminosis Hypovolaemia
 Hypoxia IIIrd nerve paralysis Ichthyosis acquired
 Idiopathic pulmonary fibrosis Idiopathic thrombocytopenic
 purpura Ileitis Ileus Ileus paralytic Ill-defined disorder
 Immune system disorder Impaired healing Inappropriate
 antidiuretic hormone secretion Incontinence Increased
 appetite Increased bronchial secretion Induration Infantile
 genetic agranulocytosis Infarction Infection Infertility
 Infestation Inflammation Inflammatory bowel disease
 Influenza Influenza like illness Ingrowing nail Injection
 site inflammationInjection site pain Injection site reaction
 Inner ear disorder Insomnia Insulin resistance
 Intermittent claudication Interstitial lung disease
 Intestinal obstruction Intestinal perforation Intestinal ulcer
 Intra-uterine death Intracranial pressure increased
 Intraocular pressure increased Iridocyclitis Iritis

Irritability Ischaemia Jaundice Jaundice cholestatic
 Joint stiffness Joint swelling Keratitis Keratoacanthoma
 Keratoconjunctivitis sicca Ketoacidosis Ketosis
 Laboratory test abnormal Lacrimal disorder Lacrimation
 decreased Lacrimation increased Large intestine carcinoma
 Laryngeal disorder Laryngeal oedema Laryngitis
 Laryngospasm Left ventricular dysfunction Leiomyoma Lens
 disorder Lenticular opacities Lethargy Leukaemia
 Leukocytoclastic vasculitis Leukocytosis Leukoderma
 Leukoencephalopathy Leukopenia Libido decreased Lip dry
 Lipase increased Lipodystrophy acquired Lipohypertrophy Liver
 disorder Liver function test abnormal Liver injury Local
 reaction Loss of consciousness Loss of libido Lung disorder
 Lung infection Lung infiltration Lung neoplasm malignant
 Lupus miliaris disseminatus faciei Lymphadenopathy
 Lymphocytosis Lymphoma Lymphopenia Lymphoproliferative
 disorder Macrocytosis Macule Maculopathy Major depression
 Malaise Malignant melanoma Malnutrition Mania Mass
 Mediastinal disorder Melaena Memory impairment Meningioma
 benign Meningitis Meningitis aseptic Menopausal symptoms
 Menorrhagia Menstrual disorder Menstruation irregular
 Mental disability Mental disorder Mental retardation
 Metabolic acidosis Metabolic alkalosis Metastasis
 Metastatic renal cell carcinoma Methaemoglobinaemia
 Metrorrhagia Microangiopathy Micturition disorder
 Migraine Molluscum contagiosum Monocytosis Monoplegia Mood
 swings Mouth ulceration Mucosal dryness Mucosal inflammation
 Mucosal ulceration Multi-organ failure Muscle atrophy
 Muscle contractions involuntary Muscle fatigue Muscle mass
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myasthenia gravis
 Mydriasis Myelitis Myelitis transverse Myelodysplastic
 syndrome Myeloid leukaemia Myeloproliferative disorder Myocardial
 infarction Myocardial ischaemia Myocardial rupture Myocarditis
 Myoclonus Myoglobinuria Myopathy Myositis Nail
 disorder Nasal congestion Nasal discomfort Nasopharyngitis
 Nausea Neck pain Necrosis Necrotising colitis
 Necrotising enterocolitis neonatal Necrotising fasciitis
 Neoplasm Neoplasm malignant Nephritic syndrome
 Nephritis Nephrocalcinosis Nephrolithiasis Nephropathy toxic
 Nephrotic syndrome Nerve root lesion Nervous system
 disorder Nervousness Neuralgia Neuritis Neurological symptom
 Neuropathy peripheral Neurosis Neutropenia Neutropenic
 colitis Neutrophilia Night blindness Night sweats
 Nightmare Nipple pain Nitrogen balance negative Nocardiosis
 Nocturia Nodule Nuchal rigidity Nystagmus Obstruction
 Obstructive airways disorder Ocular hyperaemia Ocular
 hypertension Oedema Oedema genital Oedema peripheral
 Oesophageal disorder Oesophageal ulcer Oesophagitis
 Oesophagitis ulcerative Oligohydramnios Oligomenorrhoea
 Oliguria Onychomycosis Ophthalmoplegia Opportunistic
 infection Optic atrophy Optic nerve disorder Optic neuritis
 Oral candidiasis Oral pain Orchitis noninfective Organ

failure Oropharyngeal discomfort Oropharyngeal pain
 Orthostatic hypotension Orthostatic intolerance
 Osteoarthritis Osteoarthropathy Osteomalacia
 Osteomyelitis Osteonecrosis Osteoporosis Otitis
externa Otitis media Ovarian cancer Pain Pain in extremity
 Pain in jaw Pallor Palmar-plantar erythrodysesthesia
syndrome Palpitations Pancreatic disorder Pancreatitis
 Pancreatitis acute Pancytopenia Panniculitis
 Papilloedema Papilloma Paraesthesia Paraesthesia oral
 Paralysis Paranoia Paraparesis Paraplegia Parapsoriasis
 Paresis Paronychia Parosmia Parotitis Partial seizures
 Patent ductus arteriosus Pathological fracture Pelvic pain
 Pemphigoid Penis disorder Peptic ulcer Pericardial
effusion Pericarditis Perineal pain Periodontitis
 Periorbital oedema Peripheral ischaemia Peripheral
sensory neuropathy Peripheral vascular disorder Peritonsillar
abscess Peroneal nerve palsy Personality change Personality
disorder Petechiae Pharyngitis Phlebitis Phobia Photophobia
 Photosensitivity reaction Pigmentation disorder Pityriasis
lichenoides et varioliformis acuta Plantar erythema Plantar fasciitis
 Plasmodium falciparum infection Platelet aggregation
decreased Platelet count decreased Platelet disorder Pleural
disorder Pleural effusion Pleurisy Pneumocystis jirovecii
pneumonia Pneumonia aspiration Pneumonia cytomegaloviral
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polyarteritis nodosa Polyarthritides Polydipsia Polymyalgia
rheumatica Polyneuropathy Polyp Polyuria Porphyria Porphyria
non-acute Portal hypertension Posterior reversible
encephalopathy syndrome Postmenopausal haemorrhage Precocious
puberty Premature baby Primary hypothyroidism Proctalgia
 Proctitis Productive cough Progressive multifocal
leukoencephalopathy Prostatic disorder Prostatomegaly
 Protein urine present Proteinuria Prothrombin level decreased
 Prothrombin level increased Prurigo Pruritus Pruritus
genital Pseudolymphoma Pseudomembranous colitis Psoriasis
 Psychiatric symptom Psychotic disorder Puberty
 Pulmonary congestion Pulmonary embolism Pulmonary
fibrosis Pulmonary function test decreased Pulmonary haemorrhage
 Pulmonary hypertension Pulmonary oedema Pulmonary toxicity
 Purpura Pyelonephritis Pyuria Quadriparesis
 Radiculopathy Rales Rash Rash erythematous Rash follicular
 Rash generalised Rash macular Rash maculo-papular Rash
morbilliform Rash papular Rash pustular Raynaud's
phenomenon Recall phenomenon Rectal haemorrhage Rectal tenesmus
 Reflux oesophagitis Regressive behaviour Regurgitation
 Renal artery stenosis Renal colic Renal failure Renal
failure acute Renal failure chronic Renal impairment Renal pain
 Renal tubular disorder Respiratory arrest Respiratory
depression Respiratory disorder Respiratory distress Respiratory
failure Respiratory tract congestion Respiratory tract infection
 Retinal disorder Retinal pigmentation Retinal vein
thrombosis Retinitis pigmentosa Retinogram abnormal Retinoic
acid syndrome Retinopathy of prematurity Rhabdomyolysis
 Rhinitis Rhinitis allergic Rhinorrhoea Rhonchi Salivary
gland disorder Salivary gland enlargement Salivary

hypersecretion Sarcoma Sciatica Scleral disorder Scleral
hyperaemia Scotoma Seborrhoeic dermatitis Secondary
adrenocortical insufficiency Sedation Sensation of foreign body
Sensitisation Sensory loss Sepsis Serum sickness
Sexual dysfunction Shock Sialoadenitis Sicca syndrome
Sinus arrest Sinus bradycardia Sinusitis Skin atrophy
Skin burning sensation Skin cancer Skin discolouration Skin
disorder Skin exfoliation Skin hyperpigmentation Skin hypertrophy
Skin irritation Skin mass Skin necrosis Skin papilloma
Skin striae Skin test positive Skin ulcer Sleep disorder
Small for dates baby Smear cervix abnormal Social avoidant
behaviour Soft tissue necrosis Somnolence Speech disorder
Spinal cord disorder Splenomegaly Splinter haemorrhages
Sputum increased Squamous cell carcinoma Staphylococcal
infection Status epilepticus Stickler's syndrome Stomatitis
Strabismus Strangury Stridor Stupor Subcutaneous
nodule Subdural haematoma Sudden death Sudden visual
loss Suicidal behaviour Suicidal ideation Suicide attempt
Supraventricular tachycardia Swelling Swelling face
Swollen tongue Syncope Synovitis Systemic lupus
erythematosus Tachycardia Tachypnoea Telangiectasia Tenderness
Tendon disorder Tendon pain Tendonitis Tenosynovitis
Tension Testicular pain Tetany Thinking abnormal
Thirst Thought blocking Throat irritation Throat tightness
Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
Thrombophlebitis Thrombophlebitis superficial Thrombosis
Thrombotic microangiopathy Thrombotic thrombocytopenic
purpura Thyroid disorder Thyroiditis Tinnitus Tongue
discolouration Tongue disorder Tongue oedema Tongue ulceration
Tooth abscess Tooth disorder Tooth impacted Toothache
Torsade de pointes Toxic epidermal necrolysis Toxic skin
eruption Toxicity to various agents Tracheobronchitis
Transaminases increased Transient ischaemic attack
Tremor Tubulointerstitial nephritis Tumour lysis syndrome
Tumour necrosis Tumour pain Ulcer Ulcer haemorrhage Upper
respiratory tract infection Upper-airway cough syndrome Ureteric
obstruction Urethral disorder Urethral pain Urethritis Urinary
incontinence Urinary retention Urinary tract disorder Urinary
tract infection Urine abnormality Urine analysis abnormal Urine
colour abnormal Urine output increased Urogenital disorder
Urticaria Uterine cancer Uterine cervical erosion
Uterine leiomyoma Uterine spasm Uterovaginal prolapse
Uveitis VIIIth nerve paralysis Vaginal discharge Vaginal
haemorrhage Vaginal infection Vaginal inflammation Varices
oesophageal Varicose vein Vascular purpura Vascular resistance
systemic Vasculitis Vasculitis necrotising Vasoconstriction
Vasodilatation Vasodilation procedure Vasospasm Venous
thrombosis Ventricular arrhythmia Ventricular dysfunction
Ventricular extrasystoles Ventricular fibrillation
Ventricular tachycardia Vertigo Vestibular disorder
Viral infection Vision blurred Visual acuity reduced
Visual impairment Vitreous detachment Vitreous disorder
Vitreous floaters Vocal cord paralysis Vocal cord paresis
Vomiting Vulvovaginal burning sensation Vulvovaginal
candidiasis Vulvovaginal mycotic infection Vulvovaginal pruritus

Weight decreased Weight increased Wheezing White blood cell
count decreased White blood cell disorder White blood cells
urine positive Withdrawal bleed Withdrawal syndrome Wound
haemorrhage X-linked lymphoproliferative syndrome Xanthomatosis
Xanthopsia Xeroderma Xerophthalmia Yellow skin

Tyrosine-protein phosphatase non-receptor type 4 - Group: Enzyme

Treated with:

alendronate: approved small molecule (52 associated side
effects) For the treatment and prevention of osteoporosis in women
and Paget's disease of bone in both men and women.

52 known side effects mediated through drugs targeting this protein:

Alopecia Anaemia Anastomotic ulcerAngioedema Asthenia Body
temperature increased Calcinosis Discomfort Duodenal ulcer
Endometrial sarcoma Episcleritis Erosive oesophagitis
Feeling abnormal Gastric ulcer Gastrointestinal disorder
Gastroesophageal reflux disease Haemoglobin Haemorrhage
Hypersensitivity Hypocalcaemia Ill-defined disorder
Impaired healing Infection Influenza Joint swelling
Leukaemia Lymphopenia Malaise Melaena Musculoskeletal
discomfort Musculoskeletal pain Myalgia Neoplasm malignant
Oedema Oedema peripheral Oesophageal stenosis
Oesophagitis Oral disorder Osteogenesis imperfecta
Osteomalacia Osteomyelitis Osteonecrosis of jaw
Peptic ulcer Photosensitivity reaction Pruritus
Scleritis Swelling Toxic epidermal necrolysis
Transaminases increased Urticaria Uveitis Vertigo

Vascular endothelial growth factor receptor 2 - Group: Enzyme

Treated with:

sorafenib: approved small molecule (130 associated side
effects) For the treatment of patients with advanced renal cell
carcinoma.

sunitinib: approved small molecule (198 associated side
effects) For the treatment of advanced renal cell carcinoma as
well as the treatment of gastrointestinal stromal tumor after
disease progression on or intolerance to imatinib mesylate.

n-(4-{4-amino-6-[4-(methoxy)phenyl]furo[2,3-d]pyrimidin-5-
yl}phenyl)-n'-[2-fluoro-5-(trifluoromethyl)phenyl]urea:

experimental small molecule (0 associated side effects)

4-[[2-[[4-chloro-3-(trifluoromethyl)phenyl]amino]-3h-benzimidazol-5-
yl]oxy]-n-methyl-pyridine-2-carboxamide: experimental small
molecule (0 associated side effects)

n-(4-phenoxyphenyl)-2-[(pyridin-4-ylmethyl)amino]nicotinamide:
experimental small molecule (0 associated side effects)

n-cyclopropyl-6-[(6,7-dimethoxyquinolin-4-yl)oxy]naphthalene-1-
carboxamide: experimental small molecule (0 associated
side effects)

6-chloro-n-pyrimidin-5-yl-3-[[3-(trifluoromethyl)phenyl]amino]-1,2-
benzisoxazole-7-carboxamide: experimental small molecule (0
associated side effects)

CN(C1CC1)C2=CC=C(C=C2)C(=O)N3C=CC=CC3 n-(cyclopropylmethyl)-4-(methoxy)-3-({5-[3-(3-pyridinyl)phenyl]-1,3-oxazol-2-yl}amino)benzenesulfonamide: experimental small molecule (0 associated side effects)
CN(C1CC1)C2=CC=C(C=C2)C(=O)N3C=CC=CC3 n-[5-(ethylsulfonyl)-2-methoxyphenyl]-5-[3-(2-pyridinyl)phenyl]-1,3-oxazol-2-amine: experimental small molecule (0 associated side effects)
CN(C1CC1)C2=CC=C(C=C2)C(=O)N3C=CC=CC3 3-(2-aminoquinazolin-6-yl)-1-(3,3-dimethylindolin-6-yl)-4-methylpyridin-2(1h)-one: experimental small molecule (0 associated side effects)
CN(C1CC1)C2=CC=C(C=C2)C(=O)N3C=CC=CC3 3-(2-aminoquinazolin-6-yl)-4-methyl-1-[3-(trifluoromethyl)phenyl]pyridin-2(1h)-one: experimental small molecule (0 associated side effects)
CN(C1CC1)C2=CC=C(C=C2)C(=O)N3C=CC=CC3 n'-(6-aminopyridin-3-yl)-n-(2-cyclopentylethyl)-4-methyl-benzene-1,3-dicarboxamide: experimental small molecule (0 associated side effects)
CN(C1CC1)C2=CC=C(C=C2)C(=O)N3C=CC=CC3 n~4~-methyl-n~4~-(3-methyl-1h-indazol-6-yl)-n~2~-(3,4,5-trimethoxyphenyl)pyrimidine-2,4-diamine: experimental small molecule (0 associated side effects)

251 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain upper Acne
 Acute coronary syndrome Adrenal insufficiency Ageusia
 Alanine aminotransferase increased Alopecia Anaemia
 Angioedema Angiopathy Aortic dissection Aphthous stomatitis
 Apoptosis Arrhythmia Arthralgia Ascites Aspartate
 aminotransferase increased Asthenia Back pain Blindness
 Blindness cortical Blister Blood albumin decreased
 Blood alkaline phosphatase increased Blood amylase
 increased Blood bilirubin increased Blood creatinine increased
 Blood glucose decreased Blood glucose increased Blood
 magnesium decreased Blood phosphorus decreased Blood potassium
 decreased Blood potassium increased Blood sodium increased Blood
 thyroid stimulating hormone increased Blood uric acid increased
 Body temperature increased Bradycardia Breast disorder
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cell death Cerebral haemorrhage Cerebral infarction
 Cerebrovascular accident Chest pain Chills Cholangitis
 Cholecystitis Completed suicide Congenital skin disorder
 Connective tissue disorder Constipation Convulsion Cough
 Decreased appetite Deep vein thrombosis Dehydration
 Depressed mood Dermatitis Dermatitis bullous Dermatitis
 exfoliative Dermatitis psoriasiform Diarrhoea Discomfort
 Dizziness Dry mouth Dry skin Dysgeusia Dyspepsia
 Dysphagia Dysphonia Dyspnoea Eczema Effusion
 Ejection fraction Ejection fraction decreased Electrocardiogram
 PR interval Embolism Embolism venous Endocrine disorder
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Eye disorder Fatigue Febrile neutropenia
 Fistula Flank pain Flatulence Flushing Folliculitis
 Gastric haemorrhage Gastritis Gastrointestinal disorder
 Gastrointestinal pain Gastroesophageal reflux disease
 Gingival pain Gingivitis Glossitis Glossodynia
 Gynaecomastia Haematemesis Haematochezia Haematoma
 Haemoglobin decreased Haemoptysis Haemorrhage Haemorrhoids

Hair colour changes Headache Hepatic failure Hepatic
 function abnormal Hepatic neoplasm malignant Hepatobiliary disease
 Hormone level abnormal Hypercalcaemia Hyperglycaemia
 Hyperkalaemia Hypernatraemia Hypersensitivity
 Hypertension Hypertensive crisis Hyperthyroidism
 Hyperuricaemia Hypoalbuminaemia Hypocalcaemia Hypogeusia
 Hypoglycaemia Hypokalaemia Hyponatraemia
 Hypophosphataemia Hypothyroidism Immune system disorder
 Infarction Infection Infestation Inflammation Influenza
 Influenza like illness Insomnia Ischaemia Jaundice
 Keratoacanthoma Lacrimation increased Left ventricular
 dysfunction Leukoderma Leukoencephalopathy Leukopenia Lipase
 increased Loss of consciousness Lung neoplasm malignant
 Lymphopenia Malaise Mediastinal disorder Melaena
 Mental disorder Metastasis Metastatic renal cell carcinoma
 Metrorrhagia Microangiopathy Mood swings Mouth ulceration
 Mucosal dryness Mucosal inflammation Musculoskeletal
 discomfort Myalgia Myocardial ischaemia Myopathy
 Nasopharyngitis Nausea Necrosis Neoplasm malignant
 Nephritis Nephrotic syndrome Nervous system disorder
 Neuropathy peripheral Neutropenia Oedema Oedema peripheral
 Oesophageal disorder Oesophagitis Oral pain Pain
 in extremity Palmar-plantar erythrodysesthesia syndrome
 Pancreatic disorder Pancreatitis Periorbital oedema
 Peripheral sensory neuropathy Platelet count decreased
 Pleural disorder Pleural effusion Posterior reversible
 encephalopathy syndrome Primary hypothyroidism Protein urine
 present Proteinuria Prurigo Pruritus Pulmonary embolism
 Pulmonary haemorrhage Rash Rash erythematous Rash follicular
 Rash papular Reflux oesophagitis Regressive behaviour
 Renal failure Renal failure acute Renal impairment
 Respiratory tract infection Rhabdomyolysis Rhinorrhoea Shock
 Skin cancer Skin discolouration Skin exfoliation Social
 avoidant behaviour Splinter haemorrhages Squamous cell
 carcinoma Stomatitis Syncope Thrombocytopenia Thrombosis
 Thrombotic microangiopathy Thyroid disorder Thyroiditis
 Tinnitus Tongue ulceration Transient ischaemic attack
 Tubulointerstitial nephritis Tumour lysis syndrome Tumour
 necrosis Tumour pain Ulcer Upper respiratory tract infection
 Urticaria Varices oesophageal Varicose vein Venous
 thrombosis Ventricular dysfunction Visual acuity reduced
 Visual impairment Vomiting Weight decreased Wound haemorrhage
 Yellow skin

High affinity immunoglobulin epsilon receptor subunit alpha - Group:
 Receptor

Treated with:

omalizumab: approved biotech (0 associated side effects) For
 treatment of asthma caused by allergies
 benzylpenicilloyl polylysine: approved small molecule (0
 associated side effects) For use as a adjunct in assessing the
 risk of administering penicillin (benzylpenicillin or penicillin G).
 alpha-d-mannose: experimental small molecule (0 associated
 side effects)

known side effects mediated through drugs targeting this protein:

Interferon-gamma receptor alpha chain - Group: Receptor

Treated with:

interferon gamma-1b: approved biotech (0 associated side effects) Interferon gamma-1b is used for the treatment of Chronic granulomatous disease and Osteopetrosis.

known side effects mediated through drugs targeting this protein:

Solute carrier organic anion transporter family member 2B1 - Group: Transporter

Treated with:

pravastatin: approved small molecule (147 associated side effects) For the treatment of hypercholesterolemia and to reduce the risk of cardiovascular disease.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

digoxin: approved small molecule (56 associated side effects) For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

montelukast: approved small molecule (104 associated side effects) For the treatment of asthma

niacin: approved, nutraceutical small molecule (0 associated side effects) For the treatment of type IV and V hyperlipidemia. It is indicated as adjunctive therapy.

latanoprost: approved small molecule (54 associated side effects) For the reduction of elevated intraocular pressure in patients with open-angle glaucoma or ocular hypertension.

estrone: approved small molecule (0 associated side effects) For management of perimenopausal and postmenopausal symptoms.

alprostadil: approved small molecule (0 associated side effects) For palliative, not definitive, therapy to temporarily maintain the patency of the ductus arteriosus until corrective or palliative surgery can be performed in neonates who have congenital heart defects and who depend upon the patent ductus for survival. Also for the treatment of erectile dysfunction due to neurogenic, vasculogenic, psychogenic, or mixed etiology.

estradiol: approved small molecule (315 associated side effects) For the treatment of urogenital symptoms associated with post-menopausal atrophy of the vagina (such as dryness, burning, pruritus and dyspareunia) and/or the lower urinary tract (urinary urgency and dysuria).

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second

trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

salicylic acid: approved small molecule (33 associated side effects) Key additive in many skin-care products for the treatment of acne, psoriasis, callouses, corns, keratosis pilaris and warts.

fexofenadine: approved small molecule (65 associated side effects) For management of Seasonal allergic rhinitis

glyburide: approved small molecule (52 associated side effects) Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

rifampin: approved small molecule (0 associated side effects) For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

ergoloid mesylate: approved small molecule (0 associated side effects) For use as an adjunct therapy for patients with dementia

ibuprofen: approved small molecule (252 associated side effects)

penicillin G: approved small molecule (0 associated side effects) For use in the treatment of severe infections caused by penicillin G-susceptible microorganisms when rapid and high penicillin levels are required such as in the treatment of septicemia, meningitis, pericarditis, endocarditis and severe pneumonia.

iloprost: approved small molecule (46 associated side effects) Used for the treatment of pulmonary arterial hypertension.

tolbutamide: approved small molecule (0 associated side effects) For treatment of NIDDM (non-insulin-dependent diabetes mellitus) in conjunction with diet and exercise.

phthalic acid: experimental small molecule (0 associated side effects)

acetic acid: approved small molecule (0 associated side effects) Used to treat infections in the ear canal.

naringenin: experimental small molecule (0 associated side effects)

benzoic acid: experimental small molecule (0 associated side effects)

oxalic acid: experimental small molecule (0 associated side effects)

quercetin: experimental small molecule (0 associated side effects)

citric acid: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

lactic acid: experimental small molecule (0 associated side effects)

629 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
Abdominal pain Abdominal pain upper Abnormal dreams
Abnormal faeces Abscess Acidosis Acne Acute coronary
syndrome Adrenal insufficiency Affect lability Aggression
Agitation Agranulocytosis Alanine aminotransferase increased
Allergic granulomatous angiitis Alopecia Amblyopia
Amenorrhoea Amnesia Anaemia Anal pruritus
Anaphylactic shock Anaphylactoid reaction Angina pectoris
Angioedema Angiopathy Anorectal discomfort Antinuclear
antibody positive Anxiety Aortic dissection Apathy Aplastic
anaemia Apnoea Application site reaction Arrhythmia
Arthralgia Arthritis Arthropathy Artificial menopause
Aspartate aminotransferase increased Aspiration Asthenia
Asthma Atelectasis Atopy Atrial fibrillation Atrial
tachycardia Atrioventricular block complete Atrioventricular block
first degree Atrioventricular block second degree
Atrioventricular dissociation Azotaemia Back pain
Bacteraemia Bacterial infection Balance disorder Basal cell
carcinoma Benign intracranial hypertension Benign neoplasm
Benign prostatic hyperplasia Benign vaginal neoplasm
Bladder disorder Bladder pain Bleeding time prolonged
Blepharitis Blindness Blood alkaline phosphatase increased
Blood cholesterol increased Blood creatine phosphokinase
increased Blood creatinine decreased Blood creatinine increased
Blood glucose decreased Blood glucose increased Blood
lactate dehydrogenase increased Blood pressure increased Blood
triglycerides increased Blood urea increased Body temperature
increased Bone disorder Bone pain Bradycardia Breast cancer in
situ Breast cancer stage IV Breast discharge Breast discomfort
Breast disorder Breast engorgement Breast enlargement
Breast feeding Breast malformation Breast mass Breast
neoplasm Breast pain Breast swelling Breast tenderness Bronchitis
Bronchospasm Bruxism Candidiasis Carbohydrate tolerance
decreased Cardiac arrest Cardiac disorder Cardiac failure
Cardiac failure congestive Cardiac fibrillation
Cardioactive drug level Carpal tunnel syndrome Cataract
Cellulitis gangrenous Cerebrovascular accident
Cerebrovascular disorder Cervical discharge Cervix
carcinoma Cervix disorder Chest discomfort Chest pain Chills
Chloasma Cholecystitis Cholelithiasis Cholestasis
Chorea Cognitive disorder Cold sweat Colitis ischaemic
Colorectal cancer Coma Completed suicide Conduction disorder
Confusional state Conjunctival hyperaemia Conjunctivitis
Connective tissue disorder Constipation Contact lens
intolerance Convulsion Corneal oedema Coronary artery thrombosis
Cough Cystitis Cystitis noninfective Cystoid macular oedema
Deafness Death Decreased appetite Deep vein thrombosis
Delirium Depressed level of consciousness Depression
Dermatitis Dermatitis atopic Dermatitis contact Dermatitis
exfoliative Dermatomyositis Diabetic retinopathy Diarrhoea

Diplopia Discomfort Dissociation Disturbance in sexual
 arousal Diverticulitis Dizziness Drug interaction Drug rash
 with eosinophilia and systemic symptoms Dry eye Dry mouth Dry
 skin Duodenal ulcer Dysarthria Dysgeusia Dysmenorrhoea
 Dyspepsia Dysphagia Dysphonia Dysplasia Dyspnoea
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Ectropion of cervix Eczema Elderly
 Electrocardiogram PR prolongation Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram
 change Embolism Embolism venous Emotional disorder
 Encephalitis Endocrine disorder Endometrial cancer
 Endometrial disorder Endometrial hypertrophy
 Endometriosis Enterocolitis Eosinophilia Epidermal
 necrosis Epidermodysplasia verruciformis Epilepsy Epistaxis
 Erectile dysfunction Eructation Erythema Erythema
 multiforme Erythema nodosum Erythropenia Euphoric mood
 Extrasystoles Eye discharge Eye disorder Eye
 infection Eye inflammation Eye irritation Eye pain Eyelid
 oedema Facial paresis Family stress Fasciitis Fatigue
 Feeling abnormal Fibrocystic breast disease Flat affect
 Flatulence Fluid retention Flushing Foetal disorder
 Foetor hepaticus Fungal infection Galactorrhoea Gallbladder
 disorder Gamma-glutamyltransferase increased Gastric disorder
 Gastric ulcer Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal necrosis
 Gastrointestinal pain Gastrointestinal perforation
 Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Genital discharge Genital disorder
 female Gingival bleeding Glomerular filtration rate decreased
 Glomerulonephritis Glossitis Glossodynia Glucose tolerance
 decreased Glucose tolerance impaired Glycosuria Goitre
 Gynaecomastia Haemangioma Haematemesis Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhagic disorder
 Haemorrhoids Hallucination Headache Hearing impaired
 Heart rate irregular Hemiparesis Hepatic cirrhosis Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatic neoplasm malignant Hepatic steatosis
 Hepatitis cholestatic Hepatitis chronic active
 Hepatobiliary disease Hepatocellular injury Hepatorenal
 syndrome Hereditary angioedema Hernia Herpes simplex
 Herpes virus infection Herpes zoster Hiccups Hirsutism
 Hormone level abnormal Hot flush Hyperaemia Hyperaesthesia
 Hypercalcaemia Hyperglycaemia Hyperhidrosis
 Hyperkinesia Hyperlipidaemia Hypernatraemia Hyperplasia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypoaesthesia
 Hypoalbuminaemia Hypocalcaemia Hypoglycaemia
 Hypokalaemia Hyponatraemia Hypopituitarism Hypopnoea
 Hypoproteinaemia Hypotension Hypothyroidism IIIrd nerve
 paralysis Ichthyosis acquired Ileus Ill-defined disorder
 Immune system disorder Inappropriate antidiuretic hormone
 secretion Incontinence Increased appetite Infarction
 Infection Infestation Inflammation Influenza Influenza
 like illness Inguinal hernia Injection site pain Injection

site reaction Insomnia Interstitial lung disease Intestinal
 ischaemia Intestinal obstruction Intraventricular haemorrhage
 Iritis Irritability Ischaemia Ischaemic stroke
 Jaundice Jaundice cholestatic Keratitis herpetic
 Keratopathy Laboratory test abnormal Lacrimal disorder
 Lacrimation increased Laryngitis Leiomyoma Lens disorder
 Lenticular opacities Lethargy Leukocytoclastic vasculitis
 Leukopenia Libido decreased Libido increased Lip swelling
 Liver disorder Liver function test abnormal Loss of
 consciousness Loss of libido Lung infection Lymphadenopathy
 Macular oedema Malaise Malnutrition Mammogram
 abnormal Mantle cell lymphoma Mass Mediastinal disorder
 Medical device complication Melaena Memory impairment
 Meningioma benign Meningitis Meningitis aseptic Menopausal
 symptoms Menopause Menorrhagia Menstrual disorder
 Menstruation irregular Mental disorder Mesenteric vascular
 insufficiency Metabolic acidosis Metrorrhagia Migraine
 Mood swings Mouth ulceration Muscle contractions involuntary
 Muscle rigidity Muscle spasms Muscular weakness
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mydriasis Myocardial
 infarction Myopathy Myopia Nail disorder Nasal congestion
 Nasopharyngitis Nausea Neck pain Necrosis Necrotising
 colitis Necrotising enterocolitis neonatal Necrotising fasciitis
 Neoplasm Nephritis Nephropathy Nephropathy toxic Nervous
 system disorder Nervousness Neuralgia Neuritis Neuropathy
 peripheral Neutropenia Nightmare Nipple pain Nocturia Nodule
 Nuchal rigidity Obstruction Oedema Oedema genital
 Oedema peripheral Oesophageal disorder Oesophageal spasm
 Oesophagitis Oestrogenic effect Oliguria
 Ophthalmoplegia Optic neuritis Oropharyngeal pain
 Osteoarthritis Otitis media Ovarian cancer Ovarian
 cyst Pain Pain in extremity Palpitations Pancreatitis
 Pancytopenia Paraesthesia Paralysis Paranoia
 Paresis Pathological fracture Pelvic pain Perineal pain
 Pharyngitis Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Pleural disorder Pleural infection
 Pneumonia Pneumonia bacterial Poisoning Pollakiuria
 Polyarteritis nodosa Polymyalgia rheumatica Polyuria
 Porphyria Porphyria non-acute Postmenopausal haemorrhage
 Precocious puberty Protein urine present Proteinuria
 Prurigo Pruritus Pruritus generalised Pruritus genital
 Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary function test decreased
 Purpura Pyuria Rash Rash erythematous Rash generalised
 Rash maculo-papular Rectal haemorrhage Regressive
 behaviour Renal cancer Renal failure Renal failure acute
 Renal impairment Renal papillary necrosis Renal tubular
 disorder Renal tubular necrosis Reproductive tract disorder
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retinal artery embolism Retinal detachment Retinal
 disorder Reye's syndrome Rhabdomyolysis Rhinitis Rhinitis
 perennial Rhinorrhoea Sarcosinaemia Scab Scotoma Sensation
 of foreign body Sensory loss Sepsis Serum sickness

Sexual dysfunction Shock Sinus bradycardia Sinus congestion
 Sinus headache Sinus tachycardia Sinusitis Skin disorder
 Skin exfoliation Skin hypertrophy Skin infection Skin
 irritation Skin lesion Skin reaction Skin ulcer Sleep disorder
 Smear cervix abnormal Somnolence Stevens-Johnson syndrome
 Sticky skin Stomatitis Subcutaneous nodule Supraventricular
 tachycardia Swelling Syncope Systemic lupus erythematosus
 Tachycardia Tenderness Tension Tension headache Thirst
 Throat irritation Thrombocytopenia Thrombocytosis
 Thrombophlebitis superficial Thrombosis Tinnitus Tonsillitis
 Tooth abscess Tooth disorder Tooth infection Toothache
 Toxic epidermal necrolysis Toxic shock syndrome
 Tracheobronchitis Transaminases increased Tremor
 Trismus Tubulointerstitial nephritis Ulcer Upper respiratory
 tract infection Urethral disorder Urinary incontinence Urinary
 retention Urinary tract disorder Urinary tract infection Urine
 output increased Urticaria Uterine cancer Uterine cervical
 erosion Uterine enlargement Uterine haemorrhage Uterine
 leiomyoma Uterine pain Uterine spasm Uveitis VIIth nerve
 paralysis Vaginal discharge Vaginal disorder Vaginal haemorrhage
 Vaginal infection Vaginal neoplasm Vaginal ulceration
 Vaginismus Varicella Varicose vein Vascular purpura
 Vasculitis Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Viral infection Vision blurred Visual
 acuity reduced Visual impairment Vitreous haemorrhage Vomiting
 Vulval disorder Vulvovaginal candidiasis Vulvovaginal
 discomfort Vulvovaginal mycotic infection Vulvovaginal pain
 Vulvovaginal pruritus Vulvovaginitis Weight decreased
 Weight increased Wheezing Withdrawal bleed Wound haemorrhage
 Xanthopsia

Potassium voltage-gated channel subfamily KQT member 1 - Group:
 Channel

Treated with:

indapamide: approved small molecule (192 associated side effects)
 For the treatment of hypertension, alone or in combination with other antihypertensive drugs, as well as for the treatment of salt and fluid retention associated with congestive heart failure or edema from pregnancy (appropriate only in the management of edema of pathologic origin during pregnancy when clearly needed). Also used for the management of edema as a result of various causes.

bepridil: approved small molecule (0 associated side effects)
 For the treatment of chronic stable angina (classic effort-associated angina).

192 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain upper Acne
 Agitation Agranulocytosis Amblyopia Amnesia Anaemia
 Anaphylactic shock Angina pectoris Angioedema Anxiety
 Aplastic anaemia Application site reaction Arrhythmia
 Arthralgia Arthritis Arthropathy Asthenia Ataxia

Atrial fibrillation Atrial flutter Back pain Blister
 Blood uric acid increased Body temperature increased Bone
 disorder Bone pain Bradycardia Bronchitis Bundle branch block
 Candidiasis Cardiac fibrillation Cardiac flutter Cataract
 Cerebrovascular accident Chest pain Chondrodystrophy Coma
 Conjunctivitis Constipation Cough Decreased appetite
 Dermatitis bullous Dermatitis exfoliative Diabetes mellitus
 Diabetic hyperosmolar coma Diarrhoea Discomfort Disturbance
 in sexual arousal Dizziness Dry mouth Duodenitis Dysgeusia
 Dysmenorrhoea Dyspepsia Dysphagia Dyspnoea Dysuria
 Ear disorder Ear infection Ear pain Ecchymosis
 Electrocardiogram normal Electrolyte imbalance Erectile
 dysfunction Erythema Erythema multiforme Extrasystoles Face
 oedema Fatigue Feeling abnormal Flatulence Flushing
 Gastritis Gastroenteritis Gastrointestinal pain Glycosuria
 Gout Headache Heart rate irregular Hepatic function
 abnormal Hepatitis Hernia Hyperaesthesia Hyperglycaemia
 Hyperhidrosis Hypertonia Hyperuricaemia Hypoaesthesia
 Hypochloroemia Hypokalaemia Hyponatraemia Hypotension
 Ill-defined disorder Increased appetite Infection
 Influenza Insomnia Irritability Jaundice Jaundice
 cholestatic Laryngitis Lethargy Leukopenia Libido decreased Liver
 function test abnormal Loss of consciousness Lung disorder
 Malaise Migraine Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Myalgia
 Myopathy Myopia Nail disorder Nasopharyngitis
 Nausea Neoplasm malignant Nephritis Nervousness
 Neuritis Neuropathy peripheral Nocturia Nodule
 Oedema peripheral Oesophagitis Oliguria Optic neuritis
 Oral candidiasis Orthostatic hypotension Osteoarthritis
 Pain Palpitations Pancreatitis Paraesthesia oral
 Pharyngitis Photophobia Photosensitivity reaction Pneumonia
 Pollakiuria Polyuria Proctitis Prostatic disorder
 Pruritus Purpura Rash Renal failure Renal pain
 Respiratory distress Rhabdomyolysis Rhinitis Rhinorrhoea
 Sensory loss Shock Sialoadenitis Sinus bradycardia
 Sinusitis Skin mass Somnolence Stomatitis Supraventricular
 tachycardia Syncope Tachycardia Tension Thrombocytopenia
 Thyroid disorder Tinnitus Tooth disorder Toxic epidermal
 necrolysis Tubulointerstitial nephritis Urinary tract infection
 Urine output increased Urticaria Vaginal infection Vaginal
 inflammation Vascular purpura Vasculitis Vasculitis necrotising
 Vasodilation procedure Ventricular arrhythmia Ventricular
 extrasystoles Vertigo Vision blurred Visual impairment
 Vomiting Weight decreased Xanthopsia

Sodium/bile acid cotransporter - Group: Transporter

Treated with:

cyclosporine: approved biotech (0 associated side effects)

For treatment of transplant rejection, rheumatoid arthritis,
 severe psoriasis

liothyronine: approved small molecule (0 associated side
 effects) Used as replacement or supplemental therapy in patients

with hypothyroidism of any etiology, except transient hypothyroidism during the recovery phase of subacute thyroiditis.

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

indomethacin: approved small molecule (164 associated side effects) For moderate to severe rheumatoid arthritis including acute flares of chronic disease, ankylosing spondylitis, osteoarthritis, acute painful shoulder (bursitis and/or tendinitis) and acute gouty arthritis.

progesterone: approved small molecule (256 associated side effects) For progesterone supplementation or replacement as part of an Assisted Reproductive Technology (ART) treatment for infertile women with progesterone deficiency and for the treatment of secondary amenorrhea. Also used for the reduction of the incidence of endometrial hyperplasia and the attendant risk of endometrial carcinoma in postmenopausal women receiving estrogen replacement therapy, as well as treatment of abnormal uterine bleeding due to hormonal imbalance in the absence of organic pathology such as fibroids or uterine cancer.

testosterone: approved small molecule (274 associated side effects) To be used as hormone replacement or substitution of diminished or absent endogenous testosterone. Use in males: For management of congenital or acquired hypogonadism, hypogonadism associated with HIV infection, and male climacteric (andropause). Use in females: For palliative treatment of androgen-responsive, advanced, inoperable, metastatic (skeletal) carcinoma of the breast in women who are 1-5 years postmenopausal; testosterone esters may be used in combination with estrogens in the management of moderate to severe vasomotor symptoms associated with menopause in women who do not respond to adequately to estrogen therapy alone.

bumetanide: approved small molecule (50 associated side effects) For the treatment of edema associated with congestive heart failure, hepatic and renal disease including the nephrotic syndrome.

ethinyl estradiol: approved small molecule (0 associated side effects) For treatment of moderate to severe vasomotor symptoms associated with the menopause, female hypogonadism, prostatic carcinoma-palliative therapy of advanced disease, breast cancer, as an oral contraceptive, and as emergency contraceptive.

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

phenobarbital: approved small molecule (54 associated side effects) For the treatment of all types of seizures except absence seizures.

liotrix: approved small molecule (0 associated side effects) May be used to treat primary, secondary or tertiary hypothyroidism. May also be used to suppress thyroid stimulating

hormone (TSH) secretion in patients with simple (nontoxic) goiter, subacute or chronic lymphocytic thyroiditis multinodular goiter, and in the management of thyroid cancer. May be used in conjunction with other antithyroid agents to treat thyrotoxicosis to prevent goitrogenesis and hypothyroidism. May also be used for differential diagnosis of suspected mild hyperthyroidism or thyroid gland autonomy.

ursodeoxycholic acid: approved small molecule (210 associated side effects) The drug reduces cholesterol absorption and is used to dissolve (cholesterol) gallstones in patients who want an alternative to surgery.

glycochenodeoxycholic acid: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

626 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal pain Abdominal pain upper Abdominal symptom
Abnormal dreams Abortion spontaneous Abscess Acidosis
Acne Activated partial thromboplastin time prolonged Acute coronary syndrome
Adenoma benign Affect lability Affective disorder Aggression Agitation Agranulocytosis Alanine aminotransferase increased Alcohol poisoning Alkalosis Alopecia
Amblyopia Amenorrhoea Amnesia Amyloidosis Anaemia
Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction
Androgenetic alopecia Anger Angina pectoris Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anxiety Aortic dissection Apathy Aplastic anaemia
Apnoea Appetite disorder Application site oedema
Application site reaction Arrhythmia Arterial disorder
Arthralgia Arthritis Arthropathy Aspartate aminotransferase increased
Asterixis Asthenia Asthma Ataxia Atrial fibrillation
Atrioventricular block Atrioventricular block complete
Atrophy Autonomic neuropathy Azoospermia Azotaemia
Back pain Benign neoplasm Benign prostatic hyperplasia
Biliary colic Bladder irritation Bladder pain
Blindness Blister Blood bilirubin increased Blood cholesterol increased
Blood creatinine increased Blood glucose decreased Blood glucose increased
Blood potassium increased Blood pressure diastolic decreased Blood pressure increased
Blood pressure systolic increased Blood testosterone decreased
Blood triglycerides increased Blood uric acid increased
Body temperature increased Bone disorder Bone pain
Bradycardia Breast cancer Breast discharge Breast discomfort
Breast disorder Breast enlargement Breast mass Breast neoplasm
Breast pain Breast swelling Breast tenderness
Bromsulphthalein test abnormal Bronchitis Candidiasis
Carbohydrate tolerance decreased Cardiac disorder Cardiac failure
Cardiac failure congestive Cardiac fibrillation
Cardiac septal defect Cardiomegaly Cardiomyopathy
Cardiovascular disorder Cataract Cellulitis gangrenous
Cerebral artery thrombosis Cerebral haemorrhage Cerebral thrombosis
Cerebrovascular accident Cervical discharge

Cervix disorder Chest pain Chills Chloasma Choking
 Cholecystitis Cholestasis Chorea Cleft lip Cleft
 palate Coagulopathy Cognitive disorder Colitis ischaemic
 Colitis ulcerative Coma Confusional state Congenital cystic
 kidney disease Conjunctivitis Connective tissue disorder
 Constipation Convulsion Corneal deposits Coronary artery
 disease Coronary artery thrombosis Cough Crohn's disease
 Crying Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Deep vein
 thrombosis Dehydration Delirium Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depression suicidal Dermatitis Dermatitis acneiform
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Diabetes mellitus Diaphragmatic hernia
 Diarrhoea Diplopia Discomfort Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulum Dizziness Drug abuse Drug dependence Drug
 hypersensitivity Drug interaction Drug tolerance Dry eye Dry
 mouth Dry skin Duodenal ulcer Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspareunia Dyspepsia Dysphagia Dysplasia
 Dyspnoea Dysuria Ear discomfort Ear disorder Ear
 infection Ear pain Ecchymosis Ectropion of cervix Effusion
 Electrolyte imbalance Embolism Embolism venous Emotional
 disorder Emotional distress Encephalopathy Endocrine
 disorder Endometrial cancer Endometrial hypertrophy
 Endometrial sarcoma Endometriosis Enlarged clitoris
 Enterocolitis Epidermal necrosis Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythema nodosum Eye
 disorder Face oedema Fasciitis Fasting Fatigue Feeling
 abnormal Feeling drunk Fibrocystic breast disease Fibrosis
 Flat affect Flatulence Fluid retention Flushing Foetor
 hepatic Folliculitis Fungal infection Gait disturbance
 Galactorrhoea Gallbladder disorder Gamma-
 glutamyltransferase increased Gastric disorder Gastric
 perforation Gastric ulcer Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrooesophageal reflux disease
 Generalised oedema Genital candidiasis Genital discharge
 Gingival blister Gingival erythema Gingival pain Gingivitis
 Glucose tolerance decreased Glucose tolerance impaired
 Glycosuria Granuloma Growth accelerated Gynaecomastia
 Haemangioma Haemarthrosis Haematocrit increased Haematuria
 Haemoglobin Haemoglobin abnormal Haemoglobin increased
 Haemolytic anaemia Haemoptysis Haemorrhage intracranial
 Haemorrhagic disorder Hair colour changes Hair growth
 abnormal Hallucination Hangover Headache Hearing impaired
 Heart disease congenital Heat rash Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatic neoplasm Hepatic neoplasm malignant Hepatitis
 Hepatitis cholestatic Hepatobiliary disease Hepatocellular
 injury Hereditary disorder Hernia Herpes simplex
 Herpes virus infection High density lipoprotein decreased
 Hirsutism Hormone level abnormal Hostility Hot flush

Hyperaesthesia Hypercalcaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperlipidaemia Hypernatraemia Hyperplasia
 Hypersensitivity Hypertension Hypertonia Hypertonic
 bladder Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypocalcaemia
 Hypochloraemia Hypogeusia Hypoglycaemia Hypokalaemia
 Hyponatraemia Hypotension Hypothyroidism Hypoventilation
 Hypoxia Ileitis Ileus Ill-defined disorder Immune
 system disorder Impatience Incontinence Increased appetite
 Induration Infarction Infection Infestation Inflammation
 Influenza Influenza like illness Injection site inflammation
 Injection site pain Injection site reaction Insomnia
 International normalised ratio increased Interstitial lung
 disease Intestinal ulcer Irritability Jaundice Jaundice
 cholestatic Laboratory test abnormal Lacrimal disorder Lacrimation
 increased Laryngeal oedema Laryngitis Leiomyoma Lethargy
 Leukaemia Leukopenia Leukoplakia Libido decreased Libido
 increased Lipids abnormal Lipids increased Liver disorder Liver
 function test abnormal Liver injury Loss of consciousness Lung
 disorder Lung infection Lung infiltration Lung neoplasm
 Lymphadenopathy Macule Malaise Mass Mediastinal
 disorder Melaena Memory impairment Meningioma benign Menopausal
 symptoms Menorrhagia Menstrual disorder Menstruation irregular
 Mental disability Mental disorder Metrorrhagia Micturition
 urgency Migraine Mood swings Mouth ulceration Muscle rigidity
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myopathy Nasal congestion Nasal discomfort Nasal oedema
 Nasopharyngitis Nausea Neck pain Necrosis Necrotising
 colitis Necrotising enterocolitis neonatal Necrotising fasciitis
 Neoplasm Neoplasm malignant Neoplasm prostate Nephritic
 syndrome Nephritis Nephropathy Nephrotic syndrome Nervous
 system disorder Nervousness Neuritis Neuropathy peripheral Night
 sweats Nightmare Nipple disorder Nipple pain Nocturia
 Nodule Nuchal rigidity Obstruction Oedema Oedema
 peripheral Oesophageal disorder Oesophagitis Oliguria Optic
 neuritis Oral disorder Orthostatic hypotension
 Osteoarthritis Osteomalacia Otitis media Ovarian
 cancer Ovarian cyst Ovarian failure Ovarian
 hyperstimulation syndrome Pain in extremity Palpitations
 Pancreatitis Pancreatitis acute Pancytopenia
 Paraesthesia Parosmia Patent ductus arteriosus
 Pathological fracture Peliosis hepatis Pelvic pain Penile pain
 Penis disorder Peptic ulcer Pericardial effusion
 Pericarditis Perineal pain Peripheral vascular disorder
 Personality disorder Petechiae Pharyngitis Phlebitis
 Phobia Photosensitivity reaction Pigmentation disorder
 Pituitary tumour Platelet aggregation decreased Platelet
 count decreased Pleural disorder Pleural effusion Pneumonia
 Pneumothorax Pollakiuria Polycythaemia Polyp Polyuria
 Porphyria Precocious puberty Premature ejaculation
 Premenstrual syndrome Presyncope Priapism Proctalgia
 Proctitis Prostate cancer Prostatic adenoma Prostatic

disorder Prostatic specific antigen increased Prostatitis
 Prostatomegaly Protein urine present Proteinuria Prothrombin
 level increased Pruritus genital Psoriasis Psychotic disorder
 Puberty Pulmonary embolism Pulmonary fibrosis
 Pulmonary function test decreased Pulmonary haemorrhage
 Pulmonary hypertension Pulmonary oedema Purpura Rash
 generalised Rash papular Rectal haemorrhage Rectal tenesmus
 Red blood cell count increased Renal colic Renal failure
 Renal impairment Respiratory depression Respiratory disorder
 Respiratory failure Respiratory tract infection Retinal
 disorder Retinopathy of prematurity Rhinitis Salivary gland
 enlargement Scar Seborrhoeic dermatitis Sedation Sensitisation
 Sensory loss Serum sickness Shock Sinusitis Skin
 discolouration Skin disorder Skin exfoliation Skin hypertrophy
 Skin irritation Skin mass Skin papilloma Skin tightness
 Skin ulcer Sleep apnoea syndrome Sleep disorder Smear
 cervix abnormal Soft tissue disorder Somnolence Speech disorder
 Stomatitis Stupor Subcutaneous nodule Suicidal ideation
 Surgery Swelling Swollen tongue Syncope Tachycardia
 Tenderness Tension Testicular atrophy Thirst
 Throat tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombophlebitis superficial Thrombosis Tinnitus Tooth
 abscess Tooth disorder Toothache Toxic epidermal necrolysis
 Transaminases increased Transient ischaemic attack
 Tremor Tubulointerstitial nephritis Ulcer Ulcer haemorrhage
 Upper respiratory tract infection Urethral disorder Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine output increased
 Urogenital disorder Urticaria Uterine cancer Uterine
 cervical erosion Uterine leiomyoma Uterine spasm Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicocele Varicose vein Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular septal
 defect Vertigo Viral infection Virilism Vision blurred
 Visual acuity reduced Visual impairment Vitreous detachment
 Vomiting Vulvovaginal candidiasis Vulvovaginal
 discomfort Vulvovaginal dryness Vulvovaginal mycotic infection
 Vulvovaginal pruritus Weight decreased Weight increased
 Withdrawal bleed Xerophthalmia

Glutamate receptor 3 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
 associated side effects) Considered to be nature's "Brain food"
 by improving mental capacities; helps speed the healing of ulcers;
 gives a "lift" from fatigue; helps control alcoholism, schizophrenia
 and the craving for sugar.

lithium: approved small molecule (141 associated side
 effects) Lithium is used as a mood stabilizer, and is used for
 treatment of depression and mania. It is often used in bipolar
 disorder treatment.

aniracetam: experimental small molecule (0 associated side
 effects)

141 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Agitation Albuminuria
Alopecia Anaemia Angioedema Arrhythmia Arthralgia
Asthenia Ataxia Atrophy Benign intracranial
hypertension Blindness Blood creatinine decreased Blood
thyroid stimulating hormone increased Body temperature increased
Bradycardia Brugada syndrome Chest discomfort Clonus
Cogwheel rigidity Coma Confusional state Convulsion
Coordination abnormal Death Decreased appetite Dehydration
Dental caries Depressed level of consciousness Dermatitis
Diabetes insipidus Diabetes mellitus Diarrhoea Discomfort
Disorientation Dizziness Dry mouth Dry skin Dysarthria
Dysgeusia Dyspepsia Dystonia Electrocardiogram change
Electrolyte imbalance Encephalopathy Erectile dysfunction
Exophthalmos Extrapyrarnidal disorder Faecal
incontinence Fatigue Feeling abnormal Feeling cold
Flatulence Folliculitis Gastritis Gastrointestinal pain
Glycosuria Goitre Hallucination Headache
Hypercalcaemia Hyperglycaemia Hyperparathyroidism
Hyperreflexia Hypersensitivity Hyperthyroidism Hypertonia
Hypertrophy Hyperventilation Hypotension Hypothyroidism
Incontinence Infection Intracranial pressure increased
Lethargy Leukocytoclastic vasculitis Leukocytosis
Leukopenia Lip swelling Loss of consciousness Mass
Memory impairment Mental disorder due to a general medical
condition Muscle contractions involuntary Muscle rigidity
Muscle twitching Muscular weakness Musculoskeletal discomfort
Myasthenia gravis Myxoedema Nausea Nephrogenic diabetes
insipidus Nephropathy toxic Nystagmus Oedema Oedema peripheral
Oliguria Optic atrophy Optic neuritis Pain
Papilloedema Parathyroid disorder Peripheral coldness
Poisoning Polydipsia Polyuria Pruritus Pruritus
generalised Psoriasis Psychomotor retardation Rash Raynaud's
phenomenon Salivary gland enlargement Salivary hypersecretion
Scotoma Sexual dysfunction Shock Sinus arrhythmia Skin
ulcer Sluggishness Somnolence Stupor Swelling Syncope
Thirst Tic Tinnitus Tremor Ulcer Urinary
incontinence Urine output increased Vasculitis Vertigo
Vision blurred Vomiting Weight decreased Weight increased
Xerosis

Small conductance calcium-activated potassium channel protein 2 -
Group: Channel

Treated with:

miconazole: approved small molecule (33 associated side effects)

For topical application in the treatment of tinea pedis
(athlete's foot), tinea cruris, and tinea corporis caused
by *Trichophyton rubrum*, *Trichophyton*
mentagrophytes, and *Epidermophyton*
floccosum, in the treatment of cutaneous candidiasis
(moniliasis), and in the treatment of tinea versicolor.

33 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Anaphylactoid reaction
 Angioedema Breast disorder Burning sensation Cardiac disorder
 Dermatitis Dermatitis contact Erythema Gastrointestinal
 pain Genital burning sensation Genital discharge Headache
 Immune system disorder Muscle spasms Nausea Nervous
 system disorder Oedema Pain Pelvic pain Pruritus genital Rash
 Respiratory disorder Respiratory tract infection Upper
 respiratory tract infection Urethral disorder Urinary tract disorder
 Urinary tract infection Urticaria Vaginal discharge
 Vulvovaginal discomfort Vulvovaginal erythema

Lutropin-choriogonadotropic hormone receptor - Group: Receptor

Treated with:

goserelin: approved small molecule (0 associated side effects)

Used to treat hormone-sensitive cancers of the breast (in pre- and peri-menopausal women) and prostate, and some benign gynaecological disorders (endometriosis, uterine fibroids and endometrial thinning). In addition, goserelin is used in assisted reproduction and in the treatment of precocious puberty.

menotropins: approved biotech (0 associated side effects)

For the treatment of female infertility

lutropin alfa: approved biotech (0 associated side effects)

For treatment of female infertility

cetrorelix: approved small molecule (30 associated side effects)

For the inhibition of premature LH surges in women undergoing controlled ovarian stimulation

choriogonadotropin alfa: approved biotech (0 associated side effects) For the treatment of female infertility

buserelin: approved biotech (0 associated side effects)

30 known side effects mediated through drugs targeting this protein:

Anaphylactic shock Anaphylactoid reaction Anencephaly Ascites
 Assisted fertilisation Cardiac septal defect Congenital
 anomaly Developmental delay Developmental glaucoma
 Diaphragmatic hernia Erythema Glaucoma Headache
 Hernia Hypersensitivity Hypovolaemia Imperforate hymen
 Klinefelter's syndrome Melanocytic naevus Nausea
 Oliguria Ovarian hyperstimulation syndrome Pruritus
 Stillbirth Strabismus Supernumerary nipple Swelling
 Trisomy 18 Trisomy 21 Ventricular septal defect

Mast/stem cell growth factor receptor - Group: Enzyme

Treated with:

sorafenib: approved small molecule (130 associated side effects) For the treatment of patients with advanced renal cell carcinoma.

imatinib: approved small molecule (248 associated side effects) For the treatment Philadelphia chromosome positive chronic myeloid leukemia (CML) and malignant gastrointestinal stromal tumors (GIST).

dasatinib: approved small molecule (251 associated side effects) For the treatment of adults with chronic, accelerated, or myeloid or lymphoid blast phase chronic myeloid leukemia with

resistance or intolerance to prior therapy. Also indicated for the treatment of adults with Philadelphia chromosome-positive acute lymphoblastic leukemia with resistance or intolerance to prior therapy.

sunitinib: approved small molecule (198 associated side effects) For the treatment of advanced renal cell carcinoma as well as the treatment of gastrointestinal stromal tumor after disease progression on or intolerance to imatinib mesylate.

phosphotyrosine: experimental small molecule (0 associated side effects)

adenosine-5'-diphosphate: experimental small molecule (0 associated side effects)

nilotinib: approved small molecule (223 associated side effects) For the potential treatment of various leukemias, including chronic myeloid leukemia (CML).

518 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Acne Acute coronary syndrome Acute febrile neutrophilic dermatosis Acute generalised exanthematous pustulosis Acute hepatic failure Acute respiratory distress syndrome Adrenal insufficiency Affect lability Ageusia
Alanine aminotransferase increased Alopecia Alveolar proteinosis Amnesia Anaemia Anal fissure Angina pectoris
Angioedema Angiopathy Anxiety Aortic dissection Aphagia
Apthous stomatitis Aplasia Aplasia pure red cell
Aplastic anaemia Apoptosis Arrhythmia Arterial disorder
Arthralgia Arthritis Ascites Aspartate aminotransferase increased Assisted fertilisation Asthenia Asthma Atrial fibrillation Atrial flutter Back pain Blepharitis Blindness
Blindness cortical Blister Blood albumin decreased
Blood alkaline phosphatase increased Blood amylase increased
Blood bilirubin increased Blood bilirubin unconjugated increased
Blood creatine phosphokinase increased Blood creatinine increased
Blood disorder Blood glucose decreased Blood glucose increased
Blood lactate dehydrogenase increased Blood magnesium decreased
Blood phosphorus decreased Blood potassium decreased
Blood potassium increased Blood sodium increased Blood thyroid stimulating hormone increased
Blood urea increased Blood uric acid increased Body temperature increased Bone marrow necrosis
Bone pain Bradycardia Brain oedema Breast disorder Breast enlargement Breast feeding Breast pain
Bronchitis Bronchospasm Calcinosis Candidiasis Cardiac disorder Cardiac failure
Cardiac failure acute Cardiac failure congestive Cardiac fibrillation Cardiac flutter Cardiac hypertrophy
Cardiac murmur Cardiac tamponade Cardiogenic shock Cardiomegaly Cardiomyopathy Cell death
Cerebral haemorrhage Cerebral infarction Cerebrovascular accident Chest pain Chills
Cholangitis Cholecystitis Cholestasis Chronic myeloid leukaemia Coagulopathy Colitis Completed suicide
Confusional state Congenital skin disorder Congestive cardiomyopathy Conjunctival haemorrhage
Conjunctivitis Connective tissue disorder Constipation Convulsion Cor pulmonale
Coronary artery disease Cough Cytogenetic

abnormality Deafness Death Decreased appetite Deep vein
thrombosis Dehydration Delirium tremens Depressed mood Dermatitis
Dermatitis bullous Dermatitis exfoliative Dermatitis
psoriasiform Diabetes mellitus Diarrhoea Diastolic dysfunction
Diplopia Discomfort Disease progression Disorientation
Disturbance in sexual arousal Diverticulitis Dizziness
Drug eruption Drug interaction Dry eye Dry mouth Dry
skin Dysgeusia Dyspepsia Dysphagia Dysphonia Dyspnoea
Dyspnoea exertional Dysuria Ear haemorrhage Ear pain
Ecchymosis Eczema Effusion Ehlers-Danlos syndrome
Ejection fraction decreased Electrocardiogram PR interval
Electrocardiogram QT prolonged Embolism Embolism venous
Endocrine disorder Enterocolitis Eosinophilia
Epistaxis Erectile dysfunction Erythema Erythema
multiforme Erythema nodosum Extrasystoles Eye disorder Eye
haemorrhage Eye irritation Eye oedema Eye pain Eye swelling
Face oedema Fatigue Febrile neutropenia Feeling abnormal
Feeling cold Fibrosis Fistula Flank pain Flatulence
Fluid retention Flushing Folliculitis Gastric
haemorrhage Gastric ulcer Gastritis Gastroenteritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal neoplasm Gastrointestinal pain
Gastrointestinal perforation Gastrointestinal tract irritation
Gastrointestinal ulcer Gastrooesophageal reflux disease
Generalised oedema Genital rash Gingival bleeding
Gingival pain Gingivitis Glaucoma Glossitis Glossodynia
Gout Gravitational oedema Gynaecomastia Haematemesis
Haematochezia Haematological malignancy Haematoma
Haematuria Haemoglobin decreased Haemoptysis Haemorrhage
Haemorrhage intracranial Haemorrhoids Hair colour
changes Headache Hearing impaired Heat rash Hepatic enzyme
increased Hepatic failure Hepatic function abnormal Hepatic
necrosis Hepatic neoplasm malignant Hepatitis Hepatobiliary
disease Hepatomegaly Herpes simplex Herpes virus infection
Herpes zoster Hormone level abnormal Hyperaesthesia
Hypercalcaemia Hyperglycaemia Hyperhidrosis
Hyperkalaemia Hypernatraemia Hyperphosphataemia
Hyperplasia Hypersensitivity Hypertension Hypertensive
crisis Hyperthyroidism Hypertrophy Hyperuricaemia
Hypoaesthesia Hypoalbuminaemia Hypocalcaemia Hypogeusia
Hypoglycaemia Hypokalaemia Hypomagnesaemia
Hyponatraemia Hypophosphataemia Hypotension Hypothyroidism
Ileus Ill-defined disorder Immune system disorder
Immunosuppression Incontinence Increased appetite
Infarction Infection Infestation Inflammation Influenza
Influenza like illness Insomnia Interstitial lung disease
Intestinal obstruction Intra-abdominal haematoma
Intracranial pressure increased Ischaemia Jaundice Joint
swelling Keratoacanthoma Lacrimation increased Left ventricular
dysfunction Left ventricular failure Leukocytosis Leukoderma
Leukoencephalopathy Leukopenia Libido decreased Lipase
increased Livedo reticularis Liver disorder Liver function
test abnormal Lividity Localised oedema Loss of consciousness
Lower respiratory tract infection Lung disorder Lung
infiltration Lung neoplasm malignant Lymphoma Lymphopenia

Macular oedema Malaise Mastocytic leukaemia Mastocytoma
 Mediastinal disorder Melaena Memory impairment Menorrhagia
 Menstruation irregular Mental disorder Metastasis Metastatic
 neoplasm Metastatic renal cell carcinoma Metrorrhagia
 Microangiopathy Micturition urgency Migraine Milia Mood
 swings Mouth ulceration Mucosal dryness Mucosal inflammation
 Muscle spasms Muscular weakness Musculoskeletal chest pain
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myelodysplastic syndrome Myeloproliferative disorder
 Myocardial infarction Myocardial ischaemia Myocarditis
 Myopathy Myositis Nail disorder Nasopharyngitis
 Nausea Necrosis Necrosis ischaemic Neoplasm
 malignant Nephritis Nephropathy Nephropathy toxic Nephrotic
 syndrome Nervous system disorder Neuritis Neuropathy
 peripheral Neutropenia Neutropenic colitis Night sweats
 Nocturia Obstruction Oedema Oedema peripheral Oesophageal
 disorder Oesophagitis Oesophagitis ulcerative
 Opportunistic infection Optic neuritis Oral pain
 Oropharyngeal discomfort Oropharyngeal pain
 Osteonecrosis Ovarian disorder Pain Pain in extremity
 Palmar-plantar erythrodysaesthesia syndrome Palpitations
 Pancreatic disorder Pancreatitis Pancytopenia
 Panniculitis Papilloedema Papilloma Paraesthesia
 Parity Pericardial effusion Pericarditis Periorbital
 oedema Peripheral coldness Peripheral sensory neuropathy
 Petechiae Pharyngitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet aggregation abnormal
 Platelet count decreased Pleural disorder Pleural effusion
 Pleurisy Pleuritic pain Pneumonia Pollakiuria Posterior
 reversible encephalopathy syndrome Primary hypothyroidism Protein
 urine present Protein-losing gastroenteropathy Proteinuria
 Prurigo Pruritus Psoriasis Pulmonary arterial
 hypertension Pulmonary embolism Pulmonary fibrosis
 Pulmonary haemorrhage Pulmonary hypertension Pulmonary oedema
 Purpura Rash Rash erythematous Rash follicular Rash
 generalised Rash macular Rash maculo-papular Rash papular
 Rash pustular Rash vesicular Reflux oesophagitis
 Regressive behaviour Renal failure Renal failure acute
 Renal impairment Renal tubular disorder Respiratory distress
 Respiratory tract infection Retinal haemorrhage
 Retroperitoneal haemorrhage Rhabdomyolysis Rhinitis
 Rhinorrhoea Sciatica Scleral haemorrhage Sepsis
 Sexual dysfunction Sexually active Shock Shock
 haemorrhagic Sinusitis Skin cancer Skin discolouration Skin
 disorder Skin exfoliation Skin irritation Skin ulcer Social
 avoidant behaviour Soft tissue disorder Somnolence Splinter
 haemorrhages Squamous cell carcinoma Stomatitis Sibileus
 Swelling Swelling face Syncope Systemic lupus
 erythematosus Systemic lupus erythematosus rash Systemic
 mastocytosis Tachycardia Temperature intolerance Tenderness
 Tendonitis Testicular disorder Throat irritation
 Thrombocytopenia Thrombocytosis Thrombophlebitis Thrombosis
 Thrombotic microangiopathy Thyroid disorder Thyroiditis
 Tinnitus Tongue ulceration Torsade de pointes Toxic

epidermal necrolysis Toxic skin eruption Transient ischaemic
 attack Tremor Tubulointerstitial nephritis Tumour lysis
 syndrome Tumour necrosis Tumour pain Ulcer Upper respiratory
 tract infection Urethral disorder Urinary incontinence Urinary
 tract disorder Urinary tract infection Urticaria Urticaria
 vesiculosa Uterine haemorrhage Vaginal discharge Vaginal
 haemorrhage Varicella Varices oesophageal Varicose vein
 Vascular purpura Venous thrombosis Ventricular arrhythmia
 Ventricular dysfunction Ventricular failure Ventricular
 tachycardia Vertigo Viral infection Vision blurred Visual
 acuity reduced Visual impairment Vitreous haemorrhage Vomiting
 Weight decreased Weight increased Wound haemorrhage Yellow skin

Ephrin type-B receptor 4 - Group: Enzyme

Treated with:

n-(5-chloro-1,3-benzodioxol-4-yl)-6-methoxy-7-(3-piperidin-1-ylpropoxy)quinazolin-4-amine: experimental small molecule
 (0 associated side effects)
 n'-(5-chloro-1,3-benzodioxol-4-yl)-n-(3,4,5-trimethoxyphenyl)pyrimidine-2,4-diamine: experimental small molecule
 (0 associated side effects)
 n'-(3-chloro-4-methoxy-phenyl)-n-(3,4,5-trimethoxyphenyl)-1,3,5-triazine-2,4-diamine: experimental small molecule (0 associated side effects)
 3-({4-[(5-chloro-1,3-benzodioxol-4-yl)amino]pyrimidin-2-yl}amino)benzenesulfonamide: experimental small molecule (0 associated side effects)
 n'-(5-chloro-1,3-benzodioxol-4-yl)-n-(3-methylsulfonylphenyl)pyrimidine-2,4-diamine: experimental small molecule (0 associated side effects)
 n-[3-[[4-[(5-chloro-1,3-benzodioxol-4-yl)amino]pyrimidin-2-yl]amino]phenyl]methanesulfonamide: experimental small molecule (0 associated side effects)
 n'-(5-chloro-1,3-benzodioxol-4-yl)-n-(3-morpholin-4-ylphenyl)pyrimidine-2,4-diamine: experimental small molecule (0 associated side effects)
 3-({4-[(5-chloro-1,3-benzodioxol-4-yl)amino]pyrimidin-2-yl}amino)benzamide: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Outer-membrane lipoprotein lolB - Group: Receptor

Treated with:

1-methoxy-2-[2-(2-methoxy-ethoxy)-ethane]: experimental small molecule
 (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric acid receptor subunit epsilon - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam:illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is

required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

ketazolam: approved small molecule (0 associated side effects)

Ketazolam could be used for the treatment of anxiety. In approved countries, it is indicated for the treatment of anxiety, tension, irritability and similar stress related symptoms.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects)

Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Abnormal faeces Acidosis Acne Affect
labiality Ageusia Aggression Agitation Agranulocytosis
Akathisia Akinesia Alcohol poisoning Alopecia Altered
state of consciousness Amblyopia Amnesia Anaemia
Anaphylactic shock Anaphylactoid reaction Anger Angioedema
Angiopathy Anorectal discomfort Anorectal disorder
Anterograde amnesia Anxiety Aortic dissection Apathy
Aphonia Apnoea Appetite disorder Arrhythmia Arterial
spasm Arthralgia Arthritis Aspartate aminotransferase increased
Aspiration Asthenia Asthma Ataxia Athetosis
Atrioventricular block Back pain Balance disorder Bladder
dysfunction Bladder pain Blindness Blood alkaline phosphatase
increased Blood bilirubin increased Blood disorder Blood
glucose decreased Blood thromboplastin decreased Body temperature
decreased Body temperature increased Borderline personality
disorder Bradycardia Bradyphrenia Brain oedema Breast
disorder Breast pain Breast swelling Bronchitis Bronchospasm
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardio-respiratory arrest
Cardiovascular disorder Cellulitis Cerebellar syndrome
Chest discomfort Chest pain Chills Choking sensation
Chorea Chromaturia Clonic convulsion Clonus Clumsiness
Coagulopathy Cognitive disorder Coma Completed suicide
Confusional state Connective tissue disorder Constipation
Conversion disorder Convulsion Coordination abnormal Cough
Cyanosis Cystitis Cystitis noninfective Cytolytic
hepatitis Deafness Death Decreased appetite Dehydration
Delirium Delirium tremens Delusion Dependence

Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enterocolitis Enuresis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Euphoric mood
 Extrapyrarnidal disorder Extrasystoles Eye disorder
 Eye irritation Eye movement disorder Eye pain Eye
 swelling Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms

Muscle spasticityMuscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Nuclear receptor coactivator 2 - Group: Other

Treated with:

genistein: experimental small molecule (0 associated side effects)

methyltrienolone: experimental small molecule (0 associated side effects)

17-methyl-17-alpha-dihydroequilenin: experimental small molecule (0 associated side effects)

4-(2-amino-1-methyl-1h-imidazo[4,5-b]pyridin-6-yl)phenol: experimental small molecule (0 associated side effects)

n-(2,2,2-trifluoroethyl)-n-{4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl}benzenesulfonamide: experimental small molecule (0 associated side effects)

4-[(1s,2s,5s)-5-(hydroxymethyl)-8-methyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

4-[(1s,2s,5s,9r)-5-(hydroxymethyl)-8,9-dimethyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

4-[(1s,2s,5s)-5-(hydroxymethyl)-6,8,9-trimethyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

(9alpha,13beta,17beta)-2-[(1z)-but-1-en-1-yl]estra-1,3,5(10)-triene-3,17-diol: experimental small molecule (0 associated side effects)

(9beta,11alpha,13alpha,14beta,17alpha)-11-(methoxymethyl)estra-1(10),2,4-triene-3,17-diol: experimental small molecule (0 associated side effects)

3-chloro-2-(4-hydroxyphenyl)-2h-indazol-5-ol: experimental small molecule (0 associated side effects)

3-ethyl-2-(4-hydroxyphenyl)-2h-indazol-5-ol: experimental small molecule (0 associated side effects)

2-chloro-5-nitro-n-phenylbenzamide: experimental small molecule (0 associated side effects)

dimethyl (1r,4s)-5,6-bis(4-hydroxyphenyl)-7-oxabicyclo[2.2.1]hept-2,5-diene-2,3-dicarboxylate: experimental small molecule (0 associated side effects)

4-[1-allyl-7-(trifluoromethyl)-1h-indazol-3-yl]benzene-1,3-diol: experimental small molecule (0 associated side effects)

4-(6-hydroxy-1h-indazol-3-yl)benzene-1,3-diol: experimental small molecule (0 associated side effects)

(2e,4e)-11-methoxy-3,7,11-trimethyldodeca-2,4-dienoic acid: experimental small molecule (0 associated side effects)

diethyl (1r,2s,3r,4s)-5,6-bis(4-hydroxyphenyl)-7-oxabicyclo[2.2.1]hept-5-ene-2,3-dicarboxylate: experimental small molecule (0 associated side effects)

2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine: experimental small molecule (0 associated side effects)

2-[(2,4-dichlorobenzoyl)amino]-5-(pyrimidin-2-yloxy)benzoic acid: experimental small molecule (0 associated side effects)

4-[(1s,2r,5s)-4,4,8-trimethyl-3-oxabicyclo[3.3.1]non-7-en-2-yl]phenol: experimental small molecule (0 associated side effects)

tributylstannanyl: experimental small molecule (0 associated side effects)

raloxifene core: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Monocarboxylate transporter 3 - Group: Transporter

Treated with:

pyruvic acid: approved, nutraceutical small molecule (0 associated side effects) For nutritional supplementation, also for treating dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Cannabinoid receptor 2 - Group: Receptor

Treated with:

dronabinol: illicit, approved small molecule (0 associated side effects) For the treatment of anorexia associated with weight loss in patients with AIDS, and nausea and vomiting associated with cancer chemotherapy in patients who have failed to respond adequately to conventional antiemetic treatments

nabilone: approved small molecule (133 associated side effects) Used for the control of nausea and vomiting, caused by chemotherapeutic agents used in the treatment of cancer, in patients who have failed to respond adequately to conventional antiemetic treatments.

133 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Affect
lability Agitation Akathisia Amblyopia Anaemia Anhidrosis
Anxiety Apathy Aphthous stomatitis Arrhythmia
Arthralgia Asthenia Ataxia Back pain Bacterial
infection Blindness Body temperature increased Cerebrovascular
accident Chest pain Chills Confusional state Constipation
Convulsion Cough Decreased appetite Depersonalisation
Depressed level of consciousness Dermatitis Diarrhoea
Discomfort Disorientation Disturbance in attention
Dizziness postural Dry eye Dry mouth Dry throat
Dyspepsia Dysphoria Dyspnoea Dystonia Dysuria
Emotional disorder Epistaxis Euphoric mood Eye
disorder Eye irritation Eye swelling Eyelid disorder Face
oedema Fatigue Feeling abnormal Flat affect Flushing
Gastritis Gastrointestinal pain Hallucination Headache
Hot flush Hyperhidrosis Hyperkinesia Hypersensitivity
Hypertension Hypoaesthesia Hypotension Hypotonia Ill-
defined disorder Illusion Increased appetite Infection
Insomnia Irritability Leukopenia Loss of consciousness
Malaise Memory impairment Menopausal symptoms Mental
disability Mood swings Muscle relaxant therapy Muscle twitching
Musculoskeletal discomfort Myalgia Mydriasis Nasal
congestion Nasal dryness Neck pain Nervousness Neurosis

Oedema Orthostatic hypotension Pain Palpitations
Panic disorder Panic reaction Paraesthesia oralParanoia
Pharyngitis Phobia Photophobia Photosensitivity reaction
Pollakiuria Pruritus Psychotic disorder Rash Scotoma
Sedation Sensory loss Shock Sinus headache Sleep
disorder Somnolence Speech disorder Stomatitis Stupor
Swelling Syncope Tachycardia Tension Thinking abnormal
Thirst Tinnitus Tongue disorder Tongue oedema
Tremor Ulcer Urinary retentionVertigo Visual acuity
reduced Visual impairmentWheezing

Voltage-dependent L-type calcium channel subunit beta-2 - Group:
Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)

For the management of mild to moderate essential hypertension.
It may be used alone or concurrently with thiazide-type diuretics.

amlodipine: approved small molecule (136 associated side effects)
For the treatment of hypertension and chronic stable angina.

nimodipine: approved small molecule (47 associated side effects)

For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

nisoldipine: approved small molecule (161 associated side effects)
For the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

nicardipine: approved small molecule (107 associated side effects)
Used for the management of patients with chronic stable angina and for the treatment of hypertension.

magnesium sulfate: approved small molecule (0 associated side effects)
Used for immediate control of life-threatening convulsions in the treatment of severe toxemias (pre-eclampsia and eclampsia) of pregnancy and in the treatment of acute nephritis in children. Also indicated for replacement therapy in magnesium deficiency, especially in acute hypomagnesemia accompanied by signs of tetany similar to those of hypocalcemia. Also used in uterine tetany as a myometrial relaxant.

verapamil: approved small molecule (113 associated side effects)
For the treatment of hypertension, angina, and cluster headache prophylaxis.

felodipine: approved small molecule (96 associated side effects)

For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side effects)
For the treatment of mild to moderate hypertension

nifedipine: approved small molecule (217 associated side effects)
For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

mibefradil: withdrawn small molecule (0 associated side effects)

For the treatment of angina and high blood pressure.

nilvadipine: approved small molecule (0 associated side effects) For the management of vasospastic angina, chronic stable angina and hypertension.

367 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abnormal dreams
Accommodation disorder Acidosis Acne Acute coronary
syndrome Acute generalised exanthematous pustulosis Affect
lability Agitation Alanine aminotransferase increased Alopecia
Amblyopia Amnesia Anaemia Anaphylactic shock
Angina pectoris Angioedema Angiopathy Anxiety Anxiety
disorder Apathy Arrhythmia Arteriosclerosis Arthralgia
Arthritis Arthropathy Asthenia Asthma Ataxia
Atrial fibrillation Atrioventricular block complete
Atrioventricular block first degree Atrioventricular
dissociation Back pain Balance disorder Bezoar Blepharitis
Blindness Blindness transient Blister Blood alkaline
phosphatase increased Blood lactate dehydrogenase increased Blood
pressure increased Blood prolactin increased Blood urea
increased Blood uric acid Body temperature increased Bradycardia
Breast engorgement Breast pain Bronchitis Bronchospasm
Cardiac arrest Cardiac disorder Cardiac failure congestive
Cardiac fibrillation Cardiac murmur Cardiogenic shock
Cardiomyopathy Cellulitis Cerebral ischaemia
Cerebrovascular accident Chest discomfort Chest pain
Chills Cholestasis Chronic obstructive pulmonary disease
Cold sweat Colitis Coma Confusional state Conjunctivitis
Constipation Convulsion Coombs direct test positive Cough
Crocodile tears syndrome Decreased appetite Deep vein
thrombosis Depersonalisation Depressive symptom Dermatitis
Dermatitis bullous Dermatitis exfoliative Diabetes mellitus
Diarrhoea Diplopia Discomfort Disease progression
Disseminated intravascular coagulation Dissociation
Disturbance in attention Disturbance in sexual arousal
Dizziness postural Dry mouth Dry skin Dysgeusia
Dyspepsia Dysphagia Dyspnoea Dysuria Ear disorder
Ear infection Ear pain Ecchymosis Effusion
Electrocardiogram ST segment Electrocardiogram ST segment
depression Electrocardiogram T wave inversion Electrocardiogram
abnormal Eosinophilia Epistaxis Erectile dysfunction
Eructation Erythema Erythema multiforme Erythema nodosum
Erythromelalgia Extrapyrarnidal disorder Extrasystoles
Eye disorder Eye haemorrhage Eye pain Eye pruritus
Face oedema Fasting Fatigue Feeling abnormal Feeling
cold Feeling hot Feeling jittery Flat affect Flatulence Fluid
retention Flushing Fungal skin infection Galactorrhoea
Gamma-glutamyltransferase increased Gastritis
Gastrointestinal disorder Gastrointestinal haemorrhage
Gastrointestinal obstruction Gastrointestinal pain
Gastrointestinal tract irritation Gastrooesophageal reflux
disease Gingival bleeding Gingival disorder Gingival hyperplasia
Glaucoma Glomerulonephritis membranous Glossitis Gout
Gynaecomastia Haematoma Haematuria Haemoglobin Haemolysis
Haemolytic anaemia Haemorrhage Haemorrhage intracranial

Headache Hepatic enzyme increased Hepatic function
 abnormal Hepatitis Hepatitis cholestatic Hepatomegaly
 Herpes simplex Herpes virus infection Herpes zoster Hot
 flush Hyperaemia Hyperglycaemia Hyperhidrosis Hyperkeratosis
 Hyperkinesia Hyperplasia Hyperprolactinaemia
 Hypersensitivity Hypertension Hypertonia Hypertrophic
 cardiomyopathy Hypertrophy Hypoaesthesia Hypokalaemia
 Hyponatraemia Hypophosphataemia Hypotension Hypoxia Ileus
 paralytic Ill-defined disorder Incontinence Increased
 appetite Infarction Infection Inflammation Influenza
 Injection site pain Injection site reaction Insomnia
 Intermittent claudication Irritability Ischaemia
 Jaundice Joint stiffness Joint swelling Keratitis
 Laboratory test abnormal Lacrimation increased Laryngitis
 Laryngospasm Lethargy Leukocytoclastic vasculitis
 Leukopenia Libido decreased Liver function test abnormal Loss
 of consciousness Lung disorder Lymphadenopathy Macule
 Malaise Melaena Menopausal symptoms Menstrual
 disorder Mental disability Metabolic acidosis Micturition
 disorder Micturition urgency Migraine Mood swings Mouth
 ulceration Muscle fatigue Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 stiffness Myalgia Myocardial infarction Myocardial ischaemia
 Myositis Nasal congestion Nasopharyngitis Nausea Neck
 pain Nephrolithiasis Nervousness Neuropathy peripheral Nightmare
 Nocturia Nystagmus Obstruction Obstructive airways disorder
 Oedema Oedema peripheral Oesophagitis Oligomenorrhoea
 Oliguria Oropharyngeal discomfort Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Otitis media
 Pain Pain in extremity Palpitations Pancreatitis
 Paraesthesia Paralysis Paranoia Parosmia Pelvic pain
 Pericardial haemorrhage Pericarditis Periorbital
 oedema Peripheral ischaemia Peripheral vascular disorder
 Petechiae Pharyngitis Phlebitis Photosensitivity reaction
 Platelet count decreased Pleural disorder Pleural effusion
 Poisoning Pollakiuria Polyuria Pruritus Psychotic
 disorder Pulmonary congestion Pulmonary oedema Purpura
 Quadripareisis Rales Rash Rash erythematous Rash maculo-
 papular Rash pustular Regurgitation Renal failure Renal
 failure chronic Renal impairment Respiratory disorder Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retinal detachment Rhinitis Rhinorrhoea Salivary gland
 enlargement Sensory loss Sexual dysfunction Shock Sinus
 arrest Sinus arrhythmia Sinusitis Skin discolouration Skin
 ulcer Sleep disorder Sneezing Somnolence Sticky skin Stomatitis
 Stridor Supraventricular tachycardia Syncope Tachycardia
 Tenderness Tenosynovitis Tension Thinking abnormal
 Thirst Thrombocytopenia Thrombophlebitis Thrombosis
 Thyroiditis Tinnitus Toxic epidermal necrolysis Tremor
 Ulcer Upper respiratory tract infection Urinary incontinence
 Urine output increased Urogenital disorder Urticaria
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Vascular purpura Vasculitis Vasodilation procedure Vasospasm
 Venous insufficiency Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia

Vertigo Vision blurred Visual acuity reduced Visual
impairment Vitreous floaters Vomiting Weight decreased Weight
increased Wheezing Xerophthalmia

Voltage-dependent T-type calcium channel subunit alpha-1H - Group:
Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)

For the management of mild to moderate essential hypertension.
It may be used alone or concurrently with thiazide-type diuretics.

cinnarizine: approved small molecule (0 associated side
effects) For the treatment of vertigo/meniere's disease, nausea
and vomiting, motion sickness and also useful for vestibular
symptoms of other origins.

zonisamide: approved small molecule (190 associated side
effects) For use as adjunctive treatment of partial seizures in
adults with epilepsy.

felodipine: approved small molecule (96 associated side effects)
For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side
effects) For the treatment of mild to moderate hypertension

nifedipine: approved small molecule (217 associated side
effects) For the management of vasospastic angina, chronic stable
angina, hypertension, and Raynaud's phenomenon. May be used as a
first line agent for left ventricular hypertrophy and isolated
systolic hypertension (long-acting agents).

amiodarone: approved small molecule (192 associated side
effects) Intravenously, for initiation of treatment and
prophylaxis of frequently recurring ventricular fibrillation and
hemodynamically unstable ventricular tachycardia in patients
refractory to other therapy. Orally, for the treatment of life-
threatening recurrent ventricular arrhythmias such as recurrent
ventricular fibrillation and recurrent hemodynamically unstable
ventricular tachycardia.

bepridil: approved small molecule (0 associated side effects)
For the treatment of chronic stable angina (classic effort-
associated angina).

mibefradil: withdrawn small molecule (0 associated side effects)
For the treatment of angina and high blood pressure.

flunarizine: approved small molecule (0 associated side
effects) Used in the prophylaxis of migraine, occlusive peripheral
vascular disease, vertigo of central and peripheral origin, and as
an adjuvant in the therapy of epilepsy.

418 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Abnormal dreams Acidosis
Acne Acute coronary syndrome Acute generalised
exanthematous pustulosis Acute interstitial pneumonitis Acute
respiratory distress syndrome Affect lability Agitation
Agranulocytosis Akinesia Alanine aminotransferase increased
Albuminuria Alopecia Alveolitis fibrosing Amblyopia
Amenorrhoea Amnesia Anaemia Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angioedema Anxiety

Anxiety disorder Aplastic anaemia Apnoea Arrhythmia
 Arthralgia Arthritis Arthropathy Aspartate aminotransferase
 increased Asthenia Ataxia Atrial fibrillation
 Atrioventricular block Atrioventricular block second degree
 Back pain Benign intracranial hypertension Bezoar
 Bladder pain Blindness Blindness transient Blister
 Blood lactate dehydrogenase increased Blood pressure
 increased Blood uric acid Body temperature increased Bradycardia
 Bradykinesia Breast engorgement Breast pain
 Bronchiolitis Bronchitis Bronchospasm Bundle branch
 block Bundle branch block left Calculus bladder Cardiac arrest
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiogenic shock Cellulitis
 Cerebrovascular accident Chest pain Chills Cholangitis
 Cholecystitis Cholelithiasis Cholestasis Cognitive
 disorder Colitis Coma Conduction disorder Confusional state
 Congenital cardiovascular anomaly Conjunctivitis
 Constipation Convulsion Coombs direct test positive
 Coordination abnormal Corneal degeneration Corneal deposits
 Cough Crocodile tears syndrome Deafness Decreased
 appetite Dehydration Delirium Demyelinating polyneuropathy
 Depressed level of consciousness Dermatitis Dermatitis
 bullous Dermatitis exfoliative Diarrhoea Diplopia Discomfort
 Disorientation Dissociation Disturbance in attention
 Disturbance in sexual arousal Dizziness Drug eruption
 Dry eye Dry mouth Dry skin Duodenal ulcer Duodenitis
 Dysarthria Dysgeusia Dyskinesia Dyspepsia Dysphagia
 Dyspnoea Dystonia Dysuria Ecchymosis Eczema
 Effusion Electrocardiogram QT prolonged Embolism
 Encephalopathy Enuresis Eosinophilia Eosinophilic
 pneumonia Epididymitis Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Erythromelalgia Euphoric mood Extrasystoles Eye
 disorder Eye haemorrhage Face oedema Faecal incontinence
 Fasting Fatigue Feeling abnormal Feeling hot Feeling
 jittery Fibrosis Flank pain Flatulence Flushing Foetor
 hepaticus Gait disturbance Gamma-glutamyltransferase increased
 Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal obstruction
 Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Gingival bleeding Gingival
 disorder Gingival hyperplasia Gingivitis Glaucoma
 Glomerulonephritis membranous Glossitis Goitre Gout
 Granuloma Gynaecomastia Haematemesis Haematuria
 Haemoglobin Haemolysis Haemolytic anaemia Haemoptysis
 Haemorrhage Hallucination Headache Hepatic cirrhosis
 Hepatic enzyme increased Hepatic function abnormal
 Hepatitis cholestatic Hepatocellular injury Hepatomegaly
 Hirsutism Hot flush Hyperaemia Hyperaesthesia
 Hyperglycaemia Hyperhidrosis Hyperkeratosis
 Hyperkinesia Hyperplasia Hyperreflexia Hypersensitivity
 Hypertension Hyperthyroidism Hypertonia Hypertrophy
 Hypoaesthesia Hypoglycaemia Hypokinesia Hyponatraemia
 Hypotension Hypothyroidism Hypotonia Hypoxia Idiopathic
 pulmonary fibrosis Ill-defined disorder Immunodeficiency

Inappropriate antidiuretic hormone secretion Incontinence
 Increased tendency to bruise Infarction Infection
 Inflammation Influenza Injection site reaction
 Insomnia Iritis Irritability Jaundice Jaundice
 cholestatic Joint stiffness Laboratory test abnormal Lacrimation
 increased Lens disorder Lenticular opacities Leukocytoclastic
 vasculitis Leukopenia Libido decreased Liver disorder Liver
 function test abnormal Loss of consciousness Lung disorder Lung
 infiltration Lymphadenopathy Macular degeneration Malaise
 Mass Mastitis Melaena Menopausal symptoms Menorrhagia
 Menstrual disorder Mental disability Metabolic acidosis
 Microcytic anaemia Micturition urgency Migraine Mood
 swings Mouth ulceration Movement disorder Muscle relaxant
 therapy Muscle rigidity Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 stiffness Myalgia Myocardial infarction Myocardial ischaemia
 Myoclonus Myopathy Nasal congestion Nasopharyngitis
 Nausea Neck pain Necrosis Neoplasm malignant
 Nephrolithiasis Nervousness Neuritis Neuropathy peripheral
 Notropenia Nightmare Nocturia Nodal arrhythmia Nodule
 Nuchal rigidity Nystagmus Obliterative bronchiolitis
 Obstruction Oculogyric crisis Oedema Oedema peripheral
 Oesophagitis Oliguria Onycholysis Optic nerve disorder
 Optic neuritis Organising pneumonia Oropharyngeal
 discomfort Oropharyngeal pain Orthostatic hypotension
 Osteoarthritis Pain Pain in extremity Palpitations
 Pancreatitis Pancytopenia Papilloedema
 Paraesthesia oral Paralysis Paranoia Parosmia Pelvic pain
 Periorbital oedema Petechiae Pharyngitis Phlebitis
 Photodermatitis Photophobia Photosensitivity reaction
 Pigmentation disorder Pleural disorder Pleural effusion
 Pleurisy Pneumonia Poisoning Pollakiuria Polyneuropathy
 Polyserositis Polyuria Pruritus Psoriasis Psychotic
 disorder Pulmonary congestion Pulmonary embolism Pulmonary
 fibrosis Pulmonary oedema Pulmonary toxicity Pulse absent
 Pulseless electrical activity Purpura Pustular
 psoriasis Rales Rash Rash erythematous Rash maculo-papular Rash
 pustular Rectal haemorrhage Regurgitation Renal failure
 Renal failure acute Renal failure chronic Renal impairment
 Respiratory disorder Respiratory tract congestion Respiratory
 tract infection Rhabdomyolysis Rhinitis Rhinorrhoea Salivary
 gland enlargement Salivary hypersecretion Scotoma Sexual
 dysfunction Shock Sinus arrest Sinus bradycardia Sinusitis Skin
 cancer Skin discolouration Skin disorder Skin exfoliation
 Skin necrosis Sleep disorder Sneezing Somnolence
 Speech disorder Stomatitis Stridor Syncope Systemic
 lupus erythematosus Tachycardia Tenderness Tension Thirst
 Thrombocytopenia Thrombophlebitis Thrombosis Thyroid cancer
 Thyroid disorder Thyroid neoplasm Tinnitus Torsade de
 pointes Toxic epidermal necrolysis Tremor Ulcer Upper
 respiratory tract infection Urinary incontinence Urinary retention
 Urine output increased Urogenital disorder Urticaria VIIth
 nerve paralysis Vascular insufficiency Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular tachycardia

Vertigo Vision blurred Visual acuity reduced Visual impairment Vomiting Weight decreased Weight increased Wheezing

Toll-like receptor 4 - Group: Receptor

Treated with:

3-hydroxy-myristic acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Organic solute transporter subunit beta - Group: Transporter

Treated with:

conjugated estrogens: approved small molecule (219 associated side effects) For the treatment of moderate to severe vasomotor symptoms associated with the menopause, atrophic vaginitis, osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

digoxin: approved small molecule (56 associated side effects)

For the treatment and management of congestive cardiac insufficiency, arrhythmias and heart failure.

dinoprostone: approved small molecule (0 associated side effects) For the termination of pregnancy during the second trimester (from the 12th through the 20th gestational week as calculated from the first day of the last normal menstrual period), as well as for evacuation of the uterine contents in the management of missed abortion or intrauterine fetal death up to 28 weeks of gestational age as calculated from the first day of the last normal menstrual period. Also used in the management of nonmetastatic gestational trophoblastic disease (benign hydatidiform mole). Other indications include improving the cervical inducibility (cervical "ripening") in pregnant women at or near term with a medical or obstetrical need for labor induction, and the management of postpartum hemorrhage.

taurocholic acid: experimental small molecule (0 associated side effects)

257 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
Abdominal pain Abscess Acne Acute coronary syndrome
Affect lability Agitation Alopecia Amenorrhoea
Anaphylactic shock Anaphylactoid reaction Angioedema
Angiopathy Anxiety Apathy Arrhythmia Arthralgia
Arthropathy Asthenia Asthma Atrial tachycardia
Atrioventricular block complete Atrioventricular block first degree
Atrioventricular block second degree Atrioventricular dissociation
Back pain Benign neoplasm Bladder pain
Blindness Blood glucose decreased Blood glucose increased
Blood pressure increased Blood triglycerides increased
Body temperature increased Bone disorder Bone pain

Bradycardia Breast discharge Breast discomfort Breast disorder
 Breast enlargement Breast mass Breast neoplasm Breast pain
 Breast swelling Breast tenderness Bronchitis Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardioactive drug level Cerebrovascular accident
 Cervical discharge Cervix disorder Chest pain Chills
 Chloasma Chorea Colitis ischaemic Conduction disorder
 Confusional state Conjunctivitis Connective tissue disorder
 Constipation Coronary artery thrombosis Cough Cystitis
 Cystitis noninfective Death Decreased appetite Deep vein
 thrombosis Delirium Depression Dermatitis Diarrhoea Discomfort
 Dissociation Dizziness Drug interaction Dry eye
 Dysmenorrhoea Dyspepsia Dysplasia Dyspnoea Dysuria
 Ear pain Ecchymosis Ectropion of cervix Electrocardiogram
 PR prolongation Electrocardiogram ST segment Electrocardiogram ST
 segment depression Electrocardiogram change Embolism
 Embolism venous Endometrial cancer Endometrial
 hypertrophy Endometriosis Epilepsy Erythema Erythema
 multiforme Erythema nodosum Extrasystoles Eye disorder
 Fatigue Feeling abnormal Fibrocystic breast disease Flat
 affect Flatulence Fluid retention Galactorrhoea Gallbladder
 disorder Gastrointestinal disorder Gastrointestinal necrosis
 Gastrointestinal pain Generalised oedema Genital discharge
 Glucose tolerance decreased Glucose tolerance impaired
 Gynaecomastia Haemangioma Haemoptysis Haemorrhagic disorder
 Hallucination Headache Hepatic function abnormal
 Hepatobiliary disease Hirsutism Hypercalcaemia
 Hyperglycaemia Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypoaesthesia
 Hypocalcaemia Hypotension Hypothyroidism Infarction
 Infection Influenza Injection site pain Insomnia
 Intestinal ischaemia Irritability Ischaemia Jaundice
 Jaundice cholestatic Lacrimal disorder Lacrimation increased
 Laryngitis Leiomyoma Loss of consciousness Mass Meningioma
 benign Menorrhagia Menstrual disorder Mental disorder
 Mesenteric vascular insufficiency Metrorrhagia Migraine
 Mood swings Mouth ulceration Muscle rigidity Muscle spasms
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Nausea Neck pain Necrosis Neoplasm Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Nipple pain
 Nodule Nuchal rigidity Oedema Oedema peripheral Optic
 neuritis Osteoarthritis Ovarian cancer Pain in extremity
 Palpitations Pancreatitis Paraesthesia Pelvic pain
 Pharyngitis Phlebitis Pigmentation disorder Poisoning
 Pollakiuria Porphyria Precocious puberty Pruritus genital
 Psychotic disorder Puberty Pulmonary embolism
 Pulmonary function test decreased Purpura Rash generalised
 Rash maculo-papular Respiratory depression Respiratory tract
 infection Rhinitis Sensory loss Shock Sinus bradycardia
 Sinusitis Smear cervix abnormal Somnolence Stomatitis
 Subcutaneous nodule Swelling Syncope Tachycardia
 Tenderness Tension Thrombocytopenia Thrombophlebitis
 superficial Thrombosis Tooth abscess Ulcer Upper respiratory

tract infection Urethral disorder Urinary tract disorder Urticaria
Uterine cancer Uterine cervical erosion Uterine leiomyoma
Uterine spasm Vaginal haemorrhage Varicose vein
Vasodilation procedure Venous thrombosis Ventricular
extrasystoles Ventricular fibrillation Ventricular
tachycardia Vertigo Visual acuity reduced Visual impairment
Vomiting Vulvovaginal candidiasis Vulvovaginal mycotic
infection Vulvovaginal pruritus Weight increased Withdrawal bleed
Xanthopsia

Gamma-aminobutyric acid receptor subunit gamma-3 - Group: Channel
Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit, approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit, approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide: illicit, approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

clorazepate: illicit, approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit, approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit, approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit, approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit, approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit, approved, withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit, approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit, approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam: illicit, approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal dreams Abnormal faeces Acidosis Acne Affect
 lability Ageusia Aggression Agitation Agranulocytosis
 Akathisia Akinesia Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amnesia Anaemia
 Anaphylactic shock Anaphylactoid reaction Anger Angioedema
 Angiopathy Anorectal discomfort Anorectal disorder
 Anterograde amnesia Anxiety Aortic dissection Apathy
 Aphonia Apnoea Appetite disorder Arrhythmia Arterial
 spasm Arthralgia Arthritis Aspartate aminotransferase increased
 Aspiration Asthenia Asthma Ataxia Athetosis
 Atrioventricular block Back pain Balance disorder Bladder
 dysfunction Bladder pain Blindness Blood alkaline phosphatase
 increased Blood bilirubin increased Blood disorder Blood
 glucose decreased Blood thromboplastin decreased Body temperature
 decreased Body temperature increased Borderline personality
 disorder Bradycardia Bradyphrenia Brain oedema Breast
 disorder Breast pain Breast swelling Bronchitis Bronchospasm
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Chest discomfort Chest pain Chills Choking sensation

Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Coma Completed suicide
 Confusional state Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Dehydration
 Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enterocolitis Enuresis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Euphoric mood
 Extrapyrarnidal disorder Extrasystoles Eye disorder
 Eye irritation Eye movement disorder Eye pain Eye
 swelling Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of

libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura

Vasodilation procedure Venous thrombosis Ventricular arrhythmia
Ventricular extrasystoles Vertigo Viral infection
Vision blurred Visual acuity reduced Visual impairment
Vomiting Weight decreased Weight increased Wheezing
Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Schistosome Calcium (Ca 2+) Channel - Group: Channel

Treated with:

praziquantel: approved small molecule (39 associated side effects) For the treatment of infections due to all species of schistosoma.

39 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Arrhythmia Asthenia
Atrioventricular block Body temperature increased Bradycardia
Cardiac disorder Cardiac fibrillation Convulsion Death
Decreased appetite Diarrhoea Diarrhoea haemorrhagic
Discomfort Dizziness Eosinophilia Feeling abnormal
Gastrointestinal disorder Gastrointestinal pain Headache
Hypersensitivity Ill-defined disorder Immune system disorder
Infestation Liver disorder Malaise Musculoskeletal
discomfort Myalgia Nausea Nervous system disorder
Obstruction Pain Polyserositis Somnolence Urticaria
Ventricular fibrillation Vertigo Vomiting

Gamma-aminobutyric acid receptor subunit delta - Group: Channel

Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10

days).

clobazam: illicit, approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit, approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide: illicit, approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

clorazepate: illicit, approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit, approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit, approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit, approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit, approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit, approved, withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit, approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit, approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam: illicit, approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

ketazolam: approved small molecule (0 associated side effects) Ketazolam could be used for the treatment of anxiety. In approved countries, it is indicated for the treatment of anxiety, tension, irritability and similar stress related symptoms.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort	Abdominal distension	Abdominal pain
Abnormal dreams	Abnormal faeces	Acidosis
	Acne	Affect

lability Ageusia Aggression Agitation Agranulocytosis
 Akathisia Akinesia Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amnesia Anaemia
 Anaphylactic shock Anaphylactoid reaction Anger Angioedema
 Angiopathy Anorectal discomfort Anorectal disorder
 Anterograde amnesia Anxiety Aortic dissection Apathy
 Aphonia Apnoea Appetite disorder Arrhythmia Arterial
 spasm Arthralgia Arthritis Aspartate aminotransferase increased
 Aspiration Asthenia Asthma Ataxia Athetosis
 Atrioventricular block Back pain Balance disorder Bladder
 dysfunction Bladder pain Blindness Blood alkaline phosphatase
 increased Blood bilirubin increased Blood disorder Blood
 glucose decreased Blood thromboplastin decreased Body temperature
 decreased Body temperature increased Borderline personality
 disorder Bradycardia Bradyphrenia Brain oedema Breast
 disorder Breast pain Breast swelling Bronchitis Bronchospasm
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Chest discomfort Chest pain Chills Choking sensation
 Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Coma Completed suicide
 Confusional state Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Dehydration
 Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enterocolitis Enuresis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Euphoric mood
 Extrapiramidal disorder Extrasystoles Eye disorder
 Eye irritation Eye movement disorder Eye pain Eye
 swelling Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination

Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea

Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Retinoic acid receptor RXR-alpha - Group: Receptor

Treated with:

adapalene: approved small molecule (35 associated side effects)

For the topical treatment of comedo, papular and pustular acne (acne vulgaris) of the face, chest or back.

bexarotene: approved small molecule (153 associated side effects) Used orally for the treatment of skin manifestations of cutaneous T-cell lymphoma (CTCL) in patients who are refractory to at least one prior systemic therapy. Also used topically for the treatment of skin lesions in early (stage IA and IB) CTCL in patients who experience refractory or persistent disease with the use of other therapies or are intolerant of other therapies.

acitretin: approved small molecule (165 associated side effects) For the treatment of severe psoriasis in adults.

alitretinoin: approved small molecule (0 associated side effects) For topical treatment of cutaneous lesions in patients with AIDS-related Kaposi's sarcoma.

etodolac: approved small molecule (167 associated side effects) For acute and long-term management of signs and symptoms of osteoarthritis and rheumatoid arthritis, as well as for the management of pain.

etretinate: withdrawn small molecule (0 associated side effects) For the treatment of severe psoriasis in adults.

(5beta)-pregnane-3,20-dione: experimental small molecule (0 associated side effects)

2-chloro-5-nitro-n-phenylbenzamide: experimental small molecule (0 associated side effects)

1-benzyl-3-(4-methoxyphenylamino)-4-phenylpyrrole-2,5-dione:
 experimental small molecule (0 associated side effects)
 2-[(2,4-dichlorobenzoyl)amino]-5-(pyrimidin-2-yl)oxy)benzoic acid:
 experimental small molecule (0 associated side effects)
 tributylstannanyl: experimental small molecule (0
 associated side effects)

336 known side effects mediated through drugs targeting this
 protein:

Abdominal discomfort Abdominal distension Abdominal infection
 Abdominal pain Abdominal pain upper Abnormal faeces Acne
 Acute coronary syndrome Ageusia Agitation
 Agranulocytosis Alanine aminotransferase increased Albuminuria
 Alcohol intolerance Alopecia Anaemia Anaphylactic
 shock Anaphylactoid reaction Angina pectoris Angioedema Anorectal
 discomfort Anorectal disorder Anxiety Aplastic anaemia
 Arrhythmia Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asthenia Asthma Ataxia Atopy
 Atrophy Back pain Bacterial infection Balanoposthitis
 Benign intracranial hypertension Bladder pain Bleeding
 time prolonged Blepharitis Blood amylase increased Blood
 creatinine increased Blood lactate dehydrogenase increased Blood
 triglycerides increased Blood urea increased Blood uric acid
 increased Body temperature increased Bone pain Breast pain
 Bronchitis Bronchospasm Burning sensation Bursitis
 Calcinosis Candidiasis Cardiac failure Cardiac failure
 congestive Cataract Cataract subcapsular Cellulitis
 Cerebrovascular accident Cerumen impaction Chapped lips
 Cheilitis Chest pain Chills Coagulation time prolonged
 Cold sweat Colitis Coma Confusional state Congenital eye
 disorder Conjunctivitis Constipation Convulsion Corneal
 lesion Corneal neovascularisation Cough Crocodile tears
 syndrome Cutaneous vasculitis Cystitis Cystitis noninfective
 Deafness Death Decreased appetite Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diarrhoea Discomfort Dizziness Dry eye Dry mouth
 Dry skin Duodenitis Dysgeusia Dyspepsia Dysphonia
 Dyspnoea Dysuria Ear infection Ear pain Ecchymosis
 Eczema Effusion Eosinophilia Epidermal necrosis
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Exostosis Eye disorder Eye
 irritation Eye pain Eyelid oedema Face oedema Fasting
 Fatigue Febrile neutropenia Feeling abnormal Flatulence
 Flushing Foetal disorder Gait disturbance Gastric ulcer
 Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Genital discharge Gingival bleeding
 Gingivitis Glossitis Granuloma Haematemesi Haematoma
 Haematuria Haemoglobin Haemolytic anaemia Haemoptysis
 Haemorrhage Hair texture abnormal Hallucination Headache
 Hearing impaired Hepatic enzyme increased Hepatic failure
 Hepatic necrosis Hepatitis Hepatitis cholestatic Herpes
 simplex Herpes virus infection High density lipoprotein decreased
 Hordeolum Hot flush Hyperaesthesia Hyperbilirubinaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperlipidaemia Hypernatraemia

Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypervitaminosis
 Hypervitaminosis A Hypoaesthesia Hypocalcaemia
 Hypochromic anaemia Hyponatraemia Hypoproteinaemia
 Hypotension Hypothyroidism Hypoxia Ill-defined disorder
 Impaired healing Incontinence Increased appetite
 Infarction Infection Inflammation Influenza Insomnia
 Interstitial lung disease Intestinal ulcer Iritis
 Irritability Jaundice Jaundice cholestatic Keratitis
 Lacrimation decreased Lacrimation increased Laryngitis
 Lethargy Leukocytoclastic vasculitis Leukopenia Lip dry
 Lip swelling Liver function test abnormal Loss of
 consciousness Lung infiltration Lymphadenopathy Lymphocytosis
 Madarosis Malaise Mass Melaena Meningitis Menopausal
 symptoms Micturition urgency Mouth ulceration Muscle spasms
 Muscular weakness Musculoskeletal discomfort Myalgia
 Myocardial infarction Nasal dryness Nausea Necrosis
 Nephritis Nephrolithiasis Nervousness Neuropathy peripheral
 Neutropenia Nodule Oedema Oedema peripheral Oesophageal
 achalasia Oesophagitis Oliguria Optic neuritis
 Osteoarthritis Otitis externa Pain Palpitations
 Pancreatic disorder Pancreatitis acute Pancytopenia
 Papilloedema Paraesthesia Peptic ulcer Pharyngitis
 Photophobia Photosensitivity reaction Pleural disorder
 Pleural effusion Pneumonia Pollakiuria Polyuria Proctalgia
 Protein urine present Proteinuria Pruritus Pulmonary
 function test decreased Pulmonary oedema Purpura Pyogenic
 granuloma Rash Rash maculo-papular Rash papular Rash
 pustular Rash vesicular Rectal haemorrhage Rectal tenesmus
 Renal failure Renal impairment Renal papillary necrosis
 Respiratory depression Retinal haemorrhage Rhinitis Right
 ventricular failure Saliva altered Salivary hypersecretion
 Scab Scotoma Seborrhoeic dermatitis Sepsis Shock
 Sinusitis Skin atrophy Skin discolouration Skin
 disorder Skin exfoliation Skin fissures Skin hyperpigmentation
 Skin hypertrophy Skin irritation Skin mass Skin oedema Skin
 ulcer Somnolence Sticky skin Stomatitis Subdural haematoma
 Swelling Syncope Tachycardia Tension Thirst
 Thrombocytopenia Thrombocytosis Tinnitus Tongue ulceration
 Toxic epidermal necrolysis Tremor Tubulointerstitial
 nephritis Type 2 diabetes mellitus Ulcer Urinary incontinence
 Urinary tract infection Urine abnormality Urine analysis
 abnormal Urine output increased Urticaria Uterine haemorrhage
 Vascular purpura Vasculitis Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting
 Vulvovaginitis Weight decreased Weight increased White blood
 cell count decreased White blood cell disorder Xerophthalmia

Fibroblast growth factor receptor 2 - Group: Enzyme

Treated with:

palifermin: approved biotech (0 associated side effects) For
 treatment of oral mucositis associated with chemotherapy and
 radiation therapy.

thalidomide: approved,withdrawn small molecule (339 associated side effects) For the acute treatment of the cutaneous manifestations of moderate to severe erythema nodosum leprosum (ENL). Also for use as maintenance therapy for prevention and suppression of the cutaneous manifestations of ENL recurrence.

su4984: experimental small molecule (0 associated side effects)

4-[4-(1-amino-1-methylethyl)phenyl]-5-chloro-n-[4-(2-morpholin-4-ylethyl)phenyl]pyrimidin-2-amine: experimental small molecule (0 associated side effects)

338 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain Acne
 Acute coronary syndrome Acute leukaemia Affect lability
 Agitation Agranulocytosis Alanine aminotransferase increased
 Albuminuria Alopecia Amblyopia Amenorrhoea Amnesia
 Amyloidosis Anaemia Anaemia macrocytic Anaemia
 megaloblastic Angina pectoris Angioedema Angiopathy Anxiety
 Aphthous stomatitis Aplastic anaemia Apnoea Arrhythmia
 Arterial thrombosis Arthralgia Arthritis Arthropathy
 Ascites Aspartate aminotransferase increased Asthenia
 Ataxia Atrial fibrillation Back pain Benign neoplasm
 of skin Bladder pain Blood alkaline phosphatase increased
 Blood creatinine decreased Blood creatinine increased Blood
 glucose decreased Blood glucose increased Blood lactate
 dehydrogenase increased Blood phosphorus decreased Blood
 pressure increased Blood urea increased Blood uric acid
 increased Body temperature increased Bone disorder Bone pain
 Bradycardia Breast discomfort Breast swelling Bronchitis
 Burning sensation Candidiasis Cardiac arrest Cardiac failure
 Cardiac failure congestive Cardiac fibrillation Cell death
 Cellulitis Cerebral ischaemia Cerebrovascular accident
 Chills Chloasma Cholangitis Cholestasis Chronic myeloid
 leukaemia Colitis Completed suicide Complex regional pain
 syndrome Confusional state Conjunctivitis Constipation
 Convulsion Coordination abnormal Coronary artery thrombosis
 Cough Cyanosis Cystitis Cystitis noninfective Deafness
 Death Decreased appetite Deep vein thrombosis Dehydration
 Dementia Demyelination Depressed level of consciousness
 Depression Dermatitis Dermatitis bullous Dermatitis
 exfoliative Diabetes mellitus Diarrhoea Diplopia Disability
 Discomfort Disease progression Disturbance in sexual
 arousal Dizziness Dry eye Dry mouth Dry skin
 Dyaesthesia Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspareunia Dyspepsia Dysphagia Dysphonia Dysuria
 Eczema Effusion Electrolyte imbalance Emphysema
 Endocrine disorder Endometriosis Enuresis
 Eosinophilia Epistaxis Erectile dysfunction Eructation
 Erythema multiforme Erythroleukaemia Euphoric mood Eye
 disorder Eye pain Face oedema Fatigue Febrile neutropenia
 Feeling abnormal Flatulence Fluid retention Flushing
 Fungal skin infection Gait disturbance Galactorrhoea
 Gallbladder disorder Gastric disorder Gastric ulcer
 Gastroenteritis Gastrointestinal disorder Gastrointestinal

haemorrhage Gastrointestinal pain Gingival disorder Glossitis
 Glucose tolerance decreased Grand mal convulsion
 Gynaecomastia Haematuria Haemoptysis Hangover Headache
 Hepatic function abnormal Hepatitis Hepatomegaly
 Hernia Herpes simplex Herpes virus infection Hirsutism
 Hormone level abnormal Hostility Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkinesia Hyperlipidaemia Hypernatraemia
 Hypertension Hypertonia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypochromic anaemia
 Hypoglycaemia Hypokalaemia Hypomagnesaemia
 Hyponatraemia Hypoproteinaemia Hyporeflexia
 Hypothyroidism Hypovitaminosis Ichthyosis acquired Ill-
 defined disorder Inappropriate antidiuretic hormone secretion
 Increased appetite Infarction Infection Influenza
 Insomnia Intestinal obstruction Intestinal perforation
 Irritability Ischaemia Jaundice Jaundice cholestatic
 Lacrimal disorder Lacrimation increased Lethargy Leukaemia
 Leukocytosis Leukopenia Libido decreased Limb reduction
 defect Lipase increased Liver function test abnormal Loss of
 consciousness Lung disorder Lymphocytosis Lymphoedema
 Lymphopenia Malaise Mean cell volume Meningitis Mental
 disability Metrorrhagia Microcytic anaemia Migraine Mood
 swings Multiple congenital abnormalities Muscle rigidity
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myeloid leukaemia Myocardial infarction Myxoedema Nail
 disorder Nausea Neck pain Necrosis Neoplasm Neoplasm
 skin Nervous system disorder Nervousness Neuralgia Nuchal
 rigidity Nystagmus Obstruction Oedema peripheral Oesophagitis
 Oliguria Optic neuritis Oral candidiasis Orchitis
 noninfective Osteoarthritis Pain in extremity Palpitations
 Pancreatitis Pancytopenia Paraesthesia oral Parotid
 gland enlargement Pericarditis Periodontitis Peripheral
 sensory neuropathy Peripheral vascular disorder Peroneal nerve
 palsy Petechiae Pharyngitis Photosensitivity reaction Pleural
 disorder Pleural effusion Pneumocystis jiroveci pneumonia
 Pneumonia Pollakiuria Protein urine present Proteinuria
 Pruritus Psoriasis Psychotic disorder Pulmonary oedema
 Purpura Pyuria Rales Rash Rash pustular Raynaud's
 phenomenon Renal failure acute Respiratory tract infection
 Retinitis Rhinitis Sarcoma Seborrhoeic dermatitis
 Sepsis Shock Sick sinus syndrome Sinus bradycardia
 Sinusitis Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Skin ulcer Spleen palpable Stomatitis
 Stupor Suicide attempt Syncope Tachycardia Tenderness
 Tension Thinking abnormal Thrombocytopenia Tinnitus
 Tongue discolouration Tooth disorder Toothache Toxic
 epidermal necrolysis Tremor Tumour lysis syndrome Ulcer Upper
 respiratory tract infection Urticaria Uterine cervical erosion
 Vaginal haemorrhage Varicose vein Vascular purpura
 Vasodilation procedure Vertigo Viral infection Visual
 impairment Vomiting Vulvovaginal pruritus Weight decreased
 Weight increased

Acetylcholine receptor subunit beta - Group: Channel

Treated with:

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

160 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Aggression Agitation
Anaemia Anxiety Apathy Aphasia Apraxia
Arrhythmia Arrhythmia supraventricular Arthralgia Arthritis
Asthenia Ataxia Atrial fibrillation Atrioventricular
block Back pain Bladder pain Blood alkaline phosphatase
increased Blood urea increased Body temperature increased Bone
pain Bradycardia Bronchitis Bundle branch block Cardiac failure
Cardiac fibrillation Cardiovascular disorder Cataract
Cerebrovascular accident Cerebrovascular disorder Chest
pain Coagulopathy Completed suicide Confusional state
Constipation Convulsion Cough Cystitis Cystitis
noninfective Decreased appetite Dehydration Delirium
Depression Dermatitis Diarrhoea Discomfort Disturbance in
sexual arousal Diverticulitis Dizziness Dry mouth Dysgeusia
Dyspepsia Dysphagia Electrocardiogram QT prolonged
Electrocardiogram T wave inversion Epistaxis Eye disorder
Fatigue Feeling abnormal Flat affect Flatulence Gastric
disorder Gastritis Gastroenteritis Gastrointestinal haemorrhage
Gastrointestinal pain Gravitational oedema Haematuria
Haemoglobin Haemorrhage Hallucination Headache Hepatic
enzyme increased Hepatitis Hepatobiliary disease Hiccups
Hyperglycaemia Hyperkinesia Hypersensitivity Hypersomnia
Hypertension Hypertonia Hypokalaemia Hypokinesia
Hypotension Ill-defined disorder Immune system disorder
Incontinence Infarction Infection Insomnia Ischaemia
Lethargy Libido increased Liver disorder Loss of
consciousness Lower gastrointestinal haemorrhage Malaise
Melaena Mental disorder Muscle contractions involuntary
Muscle spasms Musculoskeletal discomfort Musculoskeletal
disorder Myalgia Myocardial ischaemia Nausea
Nephrolithiasis Nervous system disorder Nervousness
Neuropathy peripheral Nightmare Nocturia Oedema
Oedema peripheral Oesophageal disorder Oesophageal
perforation Orthostatic hypotension Pain in extremity
Palpitations Paraesthesia Paranoia Pneumonia
Pollakiuria Purpura Rash Rectal haemorrhage Renal
failure Respiratory disorder Respiratory tract infection
Rhinitis Salivary hypersecretion Shock Somnolence
Suicidal ideation Suicide attempt Supraventricular tachycardia
Syncope Tachycardia Tension Thrombocytopenia
Thrombocytosis Tinnitus Transient ischaemic attack
Tremor Upper respiratory tract infection Urethral disorder
Urinary incontinence Urinary retention Urinary tract disorder

Urinary tract infection Vascular dementiaVascular purpura
Ventricular tachycardia Vertigo Vision blurred
Vomiting Weight decreased

Nuclear receptor ROR-alpha - Group: Receptor

Treated with:

cholesterol-sulfate: experimental small molecule (0
associated side effects)

known side effects mediated through drugs targeting this protein:

Choline transporter-like protein 3 - Group: Transporter

Treated with:

choline: approved,nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

Outer membrane protein A precursor - Group: Other

Treated with:

(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

FL cytokine receptor - Group: Enzyme

Treated with:

sorafenib: approved small molecule (130 associated side
effects) For the treatment of patients with advanced renal cell
carcinoma.

sunitinib: approved small molecule (198 associated side
effects) For the treatment of advanced renal cell carcinoma as
well as the treatment of gastrointestinal stromal tumor after
disease progression on or intolerance to imatinib mesylate.

251 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Abdominal pain upper Acne
Acute coronary syndrome Adrenal insufficiency Ageusia
Alanine aminotransferase increased Alopecia Anaemia
Angioedema Angiopathy Aortic dissection Aphthous stomatitis
Apoptosis Arrhythmia Arthralgia Ascites Aspartate
aminotransferase increased Asthenia Back pain Blindness
Blindness cortical Blister Blood albumin decreased
Blood alkaline phosphatase increased Blood amylase
increased Blood bilirubin increased Blood creatinine increased
Blood glucose decreased Blood glucose increased Blood

magnesium decreased Blood phosphorus decreased Blood potassium
 decreased Blood potassium increased Blood sodium increased Blood
 thyroid stimulating hormone increased Blood uric acid increased
 Body temperature increased Bradycardia Breast disorder
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cell death Cerebral haemorrhage Cerebral infarction
 Cerebrovascular accident Chest pain Chills Cholangitis
 Cholecystitis Completed suicide Congenital skin disorder
 Connective tissue disorder Constipation Convulsion Cough
 Decreased appetite Deep vein thrombosis Dehydration
 Depressed mood Dermatitis Dermatitis bullous Dermatitis
 exfoliative Dermatitis psoriasiform Diarrhoea Discomfort
 Dizziness Dry mouth Dry skin Dysgeusia Dyspepsia
 Dysphagia Dysphonia Dyspnoea Eczema Effusion
 Ejection fraction Ejection fraction decreased Electrocardiogram
 PR interval Embolism Embolism venous Endocrine disorder
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Eye disorder Fatigue Febrile neutropenia
 Fistula Flank pain Flatulence Flushing Folliculitis
 Gastric haemorrhage Gastritis Gastrointestinal disorder
 Gastrointestinal pain Gastroesophageal reflux disease
 Gingival pain Gingivitis Glossitis Glossodynia
 Gynaecomastia Haematemesis Haematochezia Haematoma
 Haemoglobin decreased Haemoptysis Haemorrhage Haemorrhoids
 Hair colour changes Headache Hepatic failure Hepatic
 function abnormal Hepatic neoplasm malignant Hepatobiliary disease
 Hormone level abnormal Hypercalcaemia Hyperglycaemia
 Hyperkalaemia Hypernatraemia Hypersensitivity
 Hypertension Hypertensive crisis Hyperthyroidism
 Hyperuricaemia Hypoalbuminaemia Hypocalcaemia Hypogeusia
 Hypoglycaemia Hypokalaemia Hyponatraemia
 Hypophosphataemia Hypothyroidism Immune system disorder
 Infarction Infection Infestation Inflammation Influenza
 Influenza like illness Insomnia Ischaemia Jaundice
 Keratoacanthoma Lacrimation increased Left ventricular
 dysfunction Leukoderma Leukoencephalopathy Leukopenia Lipase
 increased Loss of consciousness Lung neoplasm malignant
 Lymphopenia Malaise Mediastinal disorder Melaena
 Mental disorder Metastasis Metastatic renal cell carcinoma
 Metrorrhagia Microangiopathy Mood swings Mouth ulceration
 Mucosal dryness Mucosal inflammation Musculoskeletal
 discomfort Myalgia Myocardial ischaemia Myopathy
 Nasopharyngitis Nausea Necrosis Neoplasm malignant
 Nephritis Nephrotic syndrome Nervous system disorder
 Neuropathy peripheral Neutropenia Oedema Oedema peripheral
 Oesophageal disorder Oesophagitis Oral pain Pain Pain
 in extremity Palmar-plantar erythrodysesthesia syndrome
 Pancreatic disorder Pancreatitis Periorbital oedema
 Peripheral sensory neuropathy Platelet count decreased
 Pleural disorder Pleural effusion Posterior reversible
 encephalopathy syndrome Primary hypothyroidism Protein urine
 present Proteinuria Prurigo Pruritus Pulmonary embolism
 Pulmonary haemorrhage Rash Rash erythematous Rash follicular
 Rash papular Reflux oesophagitis Regressive behaviour
 Renal failure Renal failure acute Renal impairment

Respiratory tract infection Rhabdomyolysis Rhinorrhoea Shock
 Skin cancer Skin discolouration Skin exfoliation Social
 avoidant behaviour Splinter haemorrhages Squamous cell
 carcinoma Stomatitis Syncope Thrombocytopenia Thrombosis
 Thrombotic microangiopathy Thyroid disorder Thyroiditis
 Tinnitus Tongue ulceration Transient ischaemic attack
 Tubulointerstitial nephritis Tumour lysis syndrome Tumour
 necrosis Tumour pain Ulcer Upper respiratory tract infection
 Urticaria Varices oesophageal Varicose vein Venous
 thrombosis Ventricular dysfunction Visual acuity reduced
 Visual impairment Vomiting Weight decreased Wound haemorrhage
 Yellow skin

Neuronal acetylcholine receptor subunit alpha-5 - Group: Channel

Treated with:

nicotine: approved small molecule (98 associated side effects)

For the relief of nicotine withdrawal symptoms and as an aid to smoking cessation.

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

213 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acne Affect lability
 Aggression Agitation Amnesia Anaemia Anxiety
 Apathy Aphasia Apraxia Arrhythmia Arrhythmia
 supraventricular Arthralgia Arthritis Asthenia Ataxia
 Atrial fibrillation Atrioventricular block Back pain
 Bladder pain Blindness Blister Blood alkaline
 phosphatase increased Blood urea increased Body temperature
 increased Bone pain Bradycardia Bronchitis Bronchospasm
 Bundle branch block Cardiac failure Cardiac fibrillation
 Cardiovascular disorder Cataract Cerebrovascular
 accident Cerebrovascular disorder Chest discomfort Chest pain
 Coagulopathy Completed suicide Confusional state
 Constipation Convulsion Coordination abnormal Cough
 Cystitis Cystitis noninfective Decreased appetite
 Dehydration Delirium Dependence Depression Dermatitis
 Dermatitis bullous Diarrhoea Discomfort Disturbance in
 attention Disturbance in sexual arousal Diverticulitis
 Dizziness Drug abuse Drug dependence Dry mouth Dysgeusia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dyspnoea
 Ear pain Electrocardiogram QT prolonged Electrocardiogram
 T wave inversion Epistaxis Eye disorder Eye irritation
 Fatigue Feeling abnormal Flat affect Flatulence Flushing
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 haemorrhage Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperhidrosis Hyperkinesia
 Hypersensitivity Hypersomnia Hypertension Hypertonia

Hypoaesthesia Hypokalaemia Hypokinesia Hypotension Ill-
 defined disorder Immune system disorder Incontinence Increased
 appetite Increased bronchial secretion Infarction Infection
 Influenza Insomnia Irritability Ischaemia Lacrimation
 increased Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Menstrual disorder Mental disability Mental
 disorder Migraine Mood swings Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nasal congestion Nasal
 discomfort Nasal ulcer Nasopharyngitis Nausea Nephrolithiasis
 Nervous system disorder Nervousness Neuropathy peripheral
 Nightmare Nocturia Oedema Oedema peripheral Oesophageal
 disorder Oesophageal perforation Orthostatic hypotension
 Pain Pain in extremity Pain in jaw Palpitations
 Paraesthesia Paranoia Pharyngitis Pneumonia Pollakiuria
 Pruritus Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Rhinorrhoea Salivary hypersecretion Sensory
 loss Shock Sinusitis Sleep disorder Sneezing Somnolence
 Sputum increased Stomatitis Suicidal ideation Suicide attempt
 Supraventricular tachycardia Syncope Tachycardia Tension
 Throat irritation Thrombocytopenia Thrombocytosis Tinnitus
 Tobacco user Tooth disorder Transient ischaemic attack
 Tremor Ulcer Upper respiratory tract infection Urethral
 disorder Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Vascular dementia Vascular
 purpura Ventricular tachycardia Vertigo Vision blurred
 Visual acuity reduced Visual impairment Vomiting Weight
 decreased Weight increased Withdrawal syndrome

Ryanodine receptor 1 - Group: Channel

Treated with:

caffeine: approved small molecule (32 associated side effects)

For management of fatigue, orthostatic hypotension, and for the short term treatment of apnea of prematurity in infants.

dantrolene: approved small molecule (91 associated side effects)

For use, along with appropriate supportive measures, for the management of the fulminant hypermetabolism of skeletal muscle characteristic of malignant hyperthermia crises in patients of all ages. Also used preoperatively, and sometimes postoperatively, to prevent or attenuate the development of clinical and laboratory signs of malignant hyperthermia in individuals judged to be malignant hyperthermia susceptible.

suramin: approved small molecule (0 associated side effects)

For treatment of human sleeping sickness, onchocerciasis and other diseases caused by trypanosomes and worms.

114 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Acidosis Acne Agitation
 Anaemia Anaphylactic shock Aplastic anaemia Asphyxia
 Asthenia Back pain Blood creatinine increased Blood
 sodium increased Body temperature increased Cardiac failure

Cerebral haemorrhage Cerebrovascular accident Chills
 Choking sensation Chronic lymphocytic leukaemia
 Coagulopathy Confusional state Constipation Convulsion
 Crystal urine Crystalluria Death Decreased appetite
 Depression Dermatitis Diarrhoea Diplopia Discomfort
 Disseminated intravascular coagulation Dizziness Drooling
 Dry skin Dysgeusia Dysphagia Dyspnoea Effusion
 Enterocolitis Eosinophilia Erythema Extravasation
 Fatigue Feeling abnormal Feeling jittery Gastritis
 Gastrointestinal haemorrhage Gastrointestinal pain Haematuria
 Haemoglobin Haemorrhage Hair growth abnormal Headache
 Hepatic failure Hepatitis Hyperglycaemia Hyperhidrosis
 Hypersensitivity Hypoglycaemia Ill-defined disorder
 Impaired healing Incontinence Injection site reaction
 Insomnia Intestinal obstruction Irritability Lacrimation
 increased Leukopenia Lymphoma Malaise Muscle spasms
 Musculoskeletal discomfort Myalgia Nausea Necrosis
 Necrotising colitis Necrotising enterocolitis neonatal
 Nervousness Neuroleptic malignant syndrome Nocturia
 Obstruction Oedema Pain Pericarditis Phlebitis
 Pleural disorder Pleural effusion Pollakiuria Pruritus
 Pulmonary function test decreased Pulmonary oedema Rash Renal
 failure Respiratory depression Retinal disorder Retinopathy of
 prematurity Sepsis Skin disorder Social avoidant behaviour
 Somnolence Speech disorder Swelling Tachycardia Tension
 Thrombocytopenia Thrombophlebitis Urinary incontinence
 Urinary retention Urticaria Visual impairment Vomiting

Glutamate [NMDA] receptor subunit zeta-1 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

meperidine: approved small molecule (50 associated side effects) Used to control moderate to severe pain.

orphenadrine: approved small molecule (28 associated side effects) Indicated for the treatment of Parkinson's disease.

dcka, 5,7-dichlorokynurenic acid: experimental small molecule (0 associated side effects)

d-serine: experimental small molecule (0 associated side effects)

cycloleucine: experimental small molecule (0 associated side effects)

60 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Affect lability
 Agitation Anaemia Anaphylactic shock Aplastic anaemia
 Asthenia Bradycardia Cardiac arrest Confusional state
 Constipation Convulsion Coordination abnormal Delirium
 Dermatitis Disorientation Dizziness Dry mouth Dyskinesia
 Dysphoria Euphoric mood Feeling abnormal Flushing
 Hallucination Headache Hyperhidrosis Hypersensitivity

Hypotension Induration Injection site pain Loss of
consciousness Mood swings Muscle spasms Muscle twitching
Mydriasis Myoclonus Nausea Palpitations Paralysis
Phlebitis Pruritus Pulmonary function test decreased Rash
Respiratory arrest Respiratory depression Sedation Shock
Skin disorder Somnolence Syncope Tachycardia Tension
Tremor Urinary hesitation Urinary retention Urticaria
Vision blurred Visual impairment Vomiting

Urea Transporter 1 - Group: Transporter

Treated with:

urea: experimental small molecule (2 associated side effects)

1 known side effects mediated through drugs targeting this protein:

Pruritus

Outer membrane protein C - Group: Channel

Treated with:

dodecane: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Nuclear receptor coactivator 5 - Group: Other

Treated with:

(16alpha,17alpha)-estra-1,3,5(10)-triene-3,16,17-triol:
experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Glutamate receptor, ionotropic kainate 3 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 1B receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side effects) For the acute treatment of migraine with or without aura in adults.

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.

ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.

zolmitriptan: approved small molecule (241 associated side effects) For the acute treatment of adult migraine with or without auras.

dihydroergotamine: approved small molecule (128 associated side effects) For the acute treatment of migraine headaches with or without aura and the acute treatment of cluster headache episodes.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

propranolol: approved small molecule (96 associated side effects) For the prophylaxis of migraine.

lisuride: approved small molecule (0 associated side effects) For the management of Parkinson's Disease

sumatriptan: approved small molecule (317 associated side effects) For the treatment of migraine attacks with or without aura.

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

ondansetron: approved small molecule (122 associated side effects) For the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy, postoperation, and radiation. Also used for the treatment of postoperative nausea and vomiting.

almotriptan: approved small molecule (135 associated side effects) For the treatment of acute migraine headache in adults

naratriptan: approved small molecule (185 associated side effects) For the acute treatment of migraine attacks with or without aura in adults.

rizatriptan: approved small molecule (170 associated side effects) For treatment of acute migraine attacks with or without aura.

pindolol: approved small molecule (95 associated side effects)
For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

frovatriptan: approved small molecule (148 associated side effects)
For the acute treatment of migraine attacks with or without aura in adults.

pergolide: approved, withdrawn small molecule (354 associated side effects)
Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects)
For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects)
For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects)
For the treatment of schizophrenia and related psychotic disorders.

yohimbine: approved small molecule (0 associated side effects)
Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

bopindolol: approved small molecule (0 associated side effects)
For the management of hypertension, edema, ventricular tachycardias, and atrial fibrillation.

1292 known side effects mediated through drugs targeting this protein:

Abasia	Abdominal adhesions	Abdominal discomfort	Abdominal distension	Abdominal neoplasm	Abdominal pain	Abdominal pain lower	Abdominal pain upper	Abdominal tenderness	Abnormal behaviour	Abnormal dreams	Abnormal faeces	Abortion spontaneous	Abscess	Accommodation disorder	Acidosis	Acne	Actinic keratosis	Acute abdomen	Acute coronary syndrome	Acute lymphocytic leukaemia	Acute myocardial infarction	Acute psychosis	Acute tonsillitis	Adenocarcinoma	Adenoma benign	Adhesion	Adverse reaction	Affect lability	Ageusia	Aggression	Agitation	Agoraphobia	Agranulocytosis	Akathisia	Akinesia	Alanine aminotransferase increased	Albright's disease	Albuminuria	Alcohol intolerance	Alkalosis	Alopecia	Altered state of consciousness	Amaurosis fugax	Amblyopia	Amenorrhoea	Amnesia	Anaemia	Anaemia macrocytic	Anaemia megaloblastic	Anaphylactic shock	Anaphylactoid reaction	Aneurysm	Anger	Angina pectoris	Angina unstable	Angioedema	Angiomyolipoma	Angiopathy	Angle closure glaucoma	Anorectal discomfort	Anorectal disorder	Anorgasmia
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Antibody test positive Antisocial behaviour Antisocial
 personality disorder Anxiety Aortic aneurysm Aortic dissection
 Apathy Aphasia Aphonia Aphthous stomatitis
 Apnoea Appendicitis Application site reaction
 Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arterial insufficiency Arterial occlusive disease Arterial
 stenosis Arterial thrombosis Arteriosclerosis Arteriospasm
 coronary Arteritis Arthralgia Arthritis Arthropathy Ascites
 Asocial behaviour Aspartate aminotransferase increased
 Asphyxia Aspiration Asthenia Asthma Ataxia
 Atelectasis Atrial fibrillation Atrial flutter Atrial
 septal defect Atrioventricular block Atrioventricular block first
 degree Atrioventricular block second degree Atrophy Aura
 Azotaemia Back pain Bacterial infection Balance disorder
 Balanoposthitis Basal cell carcinoma Basophilia Benign
 intracranial hypertension Benign neoplasm Benign neoplasm of
 skin Benign prostatic hyperplasia Biliary colic Binge eating
 Bladder cancer Bladder disorder Bladder pain Blepharitis
 Blepharospasm Blindness Blindness transient Blister
 Blood alkaline phosphatase increased Blood amylase
 increased Blood bilirubin abnormal Blood bilirubin increased
 Blood cholesterol increased Blood creatine phosphokinase
 increased Blood creatinine increased Blood disorder Blood
 electrolytes abnormal Blood glucose decreased Blood glucose
 increased Blood insulin increased Blood iron decreased Blood
 lactate dehydrogenase increased Blood phosphorus increased Blood
 potassium decreased Blood potassium increased Blood pressure
 abnormal Blood pressure diastolic decreased Blood pressure
 fluctuation Blood pressure increased Blood pressure systolic
 decreased Blood prolactin increased Blood triglycerides
 increased Blood triglycerides normal Blood urea increased Blood
 uric acid increased Blood urine Blood urine present Blunted
 affect Body temperature decreased Body temperature increased
 Bone disorder Bone neoplasm Bone pain Bone sarcoma
 Bradycardia Bradykinesia Bradyphrenia Brain neoplasm
 Brain neoplasm benign Brain oedema Breast cancer
 Breast cyst Breast discharge Breast disorder Breast disorder
 female Breast engorgement Breast enlargement Breast
 feeding Breast neoplasm Breast pain Breast swelling Breath
 odour Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Burning sensation Bursitis Cachexia Calculus bladder
 Calculus urinary Candidiasis Carbohydrate tolerance decreased
 Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiac fibrillation Cardiac flutter
 Cardiac murmur Cardiac output decreased Cardiac septal
 defect Cardiac valve disease Cardio-respiratory arrest
 Cardiomegaly Cardiomyopathy Cardiopulmonary failure
 Cardiovascular disorder Carotid artery occlusion
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral artery embolism Cerebral atrophy
 Cerebral haemorrhage Cerebral infarction Cerebral
 ischaemia Cerebrospinal fluid rhinorrhoea Cerebrovascular
 accident Cerebrovascular disorder Cervicitis Cervix carcinoma

Change of bowel habit Chapped lips Cheilitis Chest
 discomfort Chest pain Chills Choking Choking sensation
 Cholecystitis Cholecystitis chronic Cholelithiasis
 Cholestasis Chorea Choreoathetosis Chromaturia Chronic
 lymphocytic leukaemia Chronic obstructive pulmonary disease
 Coagulopathy Coccydynia Cognitive disorder Cogwheel
 rigidity Cold sweat Colitis ischaemic Colitis ulcerative Colon
 cancer Colorectal cancer Coma Completed suicide Compulsions
 Condition aggravated Confusional state Congenital anomaly
 Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival
 haemorrhage Conjunctivitis Connective tissue disorder
 Constipation Conversion disorder Convulsion
 Coordination abnormal Corneal lesion Coronary artery
 disease Coronary artery insufficiency Coronary artery
 occlusion Costochondritis Cough Crocodile tears syndrome
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Decubitus ulcer
 Deep vein thrombosis Deficiency anaemia Deformity
 Dehydration Delirium Delusion Dementia Dental caries
 Dependence Depersonalisation Depressed level of consciousness
 Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Dermatitis infected Dermoid cyst Developmental
 delay Diabetes mellitus Diabetic coma Diabetic hyperglycaemic coma
 Diabetic hyperosmolar coma Diabetic ketoacidosis
 Diaphragmatic hernia Diarrhoea Diarrhoea haemorrhagic
 Diplegia Diplopia Discomfort Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulitis Dizziness Dizziness exertional Dizziness
 postural Drooling Drug abuse Drug dependence Drug eruption
 Drug hypersensitivity Drug ineffective Drug interaction Drug
 level increased Drug withdrawal syndrome Dry eye Dry mouth
 Dry skin Dry throat Duodenal ulcer Duodenal ulcer
 haemorrhage Duodenitis Dysaesthesia Dysarthria Dysentery
 Dysgeusia Dysgraphia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphemia Dysphonia Dysphoria Dyspnoea
 Dyspnoea exertional Dysthymic disorder Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 disorder Ejaculation failure Elastosis perforans
 Electrocardiogram PR interval Electrocardiogram PR
 prolongation Electrocardiogram QT prolonged Electrocardiogram
 ST segment Electrocardiogram ST segment depression Electrocardiogram
 ST segment elevation Electrocardiogram T wave inversion
 Electrocardiogram abnormal Electrocardiogram change
 Electroencephalogram abnormal Electrolyte imbalance
 Embolism Emotional distress Emphysema Encephalopathy
 Endocrine disorder Endometrial cancer Endometrial
 neoplasm Endometriosis Energy increased Enteritis Enuresis
 Enzyme abnormality Eosinophilia Epicondylitis
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythromelalgia

Euphoric mood Exfoliative rash Exostosis Extrapyrarnidal
 disorder Extrasystoles Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 oedema Eye pain Eye pruritus Eye swelling Eyelid
 disorder Eyelid function disorder Eyelid oedema Eyelid
 ptosis Face oedema Facial pain Facial paresis Faecal
 incontinence Faecalith Faecaloma Faeces hard Fallopiian tube
 disorder Fasciitis Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hot Feeling jittery Feeling of body
 temperature change Female sexual dysfunction Fibroadenoma of
 breast Fibrocystic breast disease Fibrosis Flank pain Flat
 affect Flatulence Fluid overload Fluid retention Flushing
 Foetor hepaticus Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gallbladder cancer Gallbladder disorder
 Gamma-glutamyltransferase increased Gangrene Gastric
 cancer Gastric disorder Gastric haemorrhage Gastric pH
 decreased Gastric polyps Gastric ulcer Gastric ulcer
 haemorrhage Gastritis Gastritis haemorrhagic Gastroenteritis
 Gastrointestinal carcinoma Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal neoplasm Gastrointestinal pain
 Gastrointestinal stromal tumour Gastrooesophageal reflux
 disease Generalised oedema Genital candidiasis Genital
 discharge Genital disorder female Genitourinary tract neoplasm
 Gestational hypertension Gingival bleeding Gingival
 infection Gingival pain Gingivitis Glaucoma Glossitis
 Glossodynia Glucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increased Goitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Growth hormone deficiency Gynaecomastia Haemangioma
 Haematemesis Haematochezia Haematocrit decreased
 Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemolysis Haemolytic anaemia
 Haemoptysis Haemorrhage Haemorrhage intracranial Haemorrhage
 urinary tract Haemorrhoids Haemothorax Hair disorder
 Hallucination Hallucination, auditory Hallucination,
 visual Hangover Head discomfort Headache Hearing impaired
 Heart disease congenital Heart rate irregular Hemianopia
 Hemiparesis Hemiplegia Hepatic enzyme increased Hepatic
 failure Hepatic function abnormal Hepatic necrosis Hepatic
 neoplasm Hepatic neoplasm malignant Hepatic steatosis Hepatitis
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hereditary disorder Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hydrocephalus Hyperacusis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperparathyroidism Hyperpathia Hyperphagia
 Hyperphosphataemia Hyperplasia Hyperreflexia
 Hypersensitivity Hypersexuality Hypersomnia Hypertension
 Hypertensive crisis Hyperthermia Hyperthyroidism

Hypertonia Hypertonic bladder Hypertriglyceridaemia
 Hypertrophy Hyperuricaemia Hyperuricosuria Hyperventilation
 Hypervigilance Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypogonadism
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypoproteinaemia
 Hyporeflexia Hypotension Hypothermia Hypothyroidism
 Hypotonia Hypoventilation Hypovitaminosis Hypoxia
 Idiopathic thrombocytopenic purpura Ileus Ileus paralytic
 Ill-defined disorder Illusion Immune system disorder
 Impaired healing Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Induration Infarction Infected cyst Infection
 Infestation Inflammation Influenza Inguinal hernia
 Initial insomnia Injection site mass Injection site pain
 Injection site reaction Inner ear disorder Insomnia
 Intention tremor Intentional self-injury Intermittent
 claudication Interstitial lung disease Intervertebral disc
 degeneration Intervertebral disc disorder Intervertebral disc
 protrusion Intervertebral discitis Intestinal functional
 disorder Intestinal obstruction Intestinal perforation
 Intracranial pressure increased Iron deficiency Iron
 deficiency anaemia Irritability Irritable bowel syndrome
 Ischaemia Ischaemic hepatitis Ischaemic stroke Jaundice
 Jaundice cholestatic Joint contracture Joint effusion Joint
 range of motion decreased Joint stiffness Joint swelling
 Judgement impaired Keratitis Keratoconjunctivitis sicca
 Ketoacidosis Ketonuria Ketosis Laboratory test
 abnormal Labyrinthitis Lacrimal disorder Lacrimation increased
 Lactose intolerance Laryngeal cancer Laryngeal disorder
 Laryngeal neoplasm Laryngeal oedema Laryngitis
 Laryngospasm Left ventricular failure Leiomyoma Lens
 disorder Lenticular opacities Lenticular pigmentation
 Lethargy Leukaemia Leukocytoclastic vasculitis
 Leukocytosis Leukoderma Leukopenia Leukoplakia oral
 Libido decreased Libido increased Lichenoid keratosis Lip
 and/or oral cavity cancer Lip dry Lipoatrophy Lipohypertrophy
 Lipoma Livedo reticularis Liver disorder Liver
 function test abnormal Liver injury Lividity Lobar pneumonia
 Local reaction Localised infection Localised oedema
 Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung cancer metastatic Lung disorder
 Lung infiltration Lung neoplasm malignant Lymphadenitis
 Lymphadenopathy Lymphatic disorder Lymphocytic leukaemia
 Lymphocytosis Lymphoedema Lymphoma Lymphopenia Macular
 degeneration Macule Maculopathy Major depression Malaise
 Male sexual dysfunction Malignant melanoma Mania
 Masked facies Mass Mastitis Mediastinal disorder
 Melaena Melanocytic naevus Memory impairment Meniere's
 disease Meningitis Menopausal symptoms Menopause Menorrhagia
 Menstrual disorder Menstruation irregular Mental disability
 Mental disorder Mental retardation Mental status changes
 Mesenteric artery thrombosis Metabolic alkalosis Metastasis
 Metastatic neoplasm Metrorrhagia Micturition disorder

Micturition urgency Middle ear disorder Middle ear
effusion Middle insomnia Migraine with aura Migraine without
aura Miosis Mitral valve incompetence Mobility decreased
Monarthritits Monocytosis Monoplegia Mood swings Motion
sickness Motor dysfunction Mouth ulceration Movement disorder
Multiple myeloma Muscle atrophy Muscle contractions
involuntary Muscle contracture Muscle enzyme increased
Muscle fatigue Muscle relaxant therapy Muscle rigidity
Muscle spasms Muscle tightness Muscle twitching Muscular
weakness Musculoskeletal chest pain Musculoskeletal deformity
Musculoskeletal discomfort Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenic syndrome
Mydriasis Myelitis Myocardial infarction Myocardial
ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
Nail disorder Nail infection Narcolepsy Nasal congestion
Nasal disorder Nasal dryness Nasal inflammation Nasal
polyps Nasopharyngitis Nausea Neck pain Necrosis
Necrosis ischaemic Neoplasm Neoplasm malignant
Neoplasm prostate Neoplasm recurrence Neoplasm skin
Nephritis Nephrolithiasis Nephrotic syndrome Nerve root
lesion Nervous system disorder Nervousness Neuralgia
Neuritis Neurodermatitis Neurogenic bladder Neuroleptic
malignant syndrome Neurological symptom Neuroma Neuropathy
peripheral Neurosis Neutropenia Neutrophil count decreased
Neutrophil count increased Night sweats Nightmare
Nocturia Nodal arrhythmia Nodule Normochromic
normocytic anaemia Nuchal rigidity Nystagmus Obesity
Obsessive thoughts Obstruction Obstructive airways disorder
Ocular hyperaemia Oculogyric crisis Oculomucocutaneous syndrome
Oedema Oedema mouth Oedema peripheral Oesophageal
carcinoma Oesophageal disorder Oesophageal spasm Oesophageal
stenosis Oesophageal ulcer Oesophagitis Oliguria
Onychomycosis Opisthotonus Optic ischaemic neuropathy
Optic nerve disorder Oral candidiasis Oral neoplasm benign
Oral pain Oral pruritus Orchitis noninfective
Oropharyngeal discomfort Oropharyngeal pain
Oropharyngeal spasm Orthostatic hypotension
Osteoarthritis Osteomyelitis Osteonecrosis Osteopenia
Osteoporosis Otitis externa Otitis media Ovarian
cancer Ovarian cyst Pain Pain in extremity Pain in jaw Pain
of skin Pallor Palpitations Pancreatitis acute
Pancytopenia Panic attack Panic disorder Panic
disorder with agoraphobia Panic reaction Papilloma
Paraesthesia Paraesthesia oral Paralysis Paranoia
Parasomnia Parathyroid disorder Parathyroid tumour
Paresis Parkinsonian gait Parkinsonism Paronychia
Parosmia Pathological fracture Pathological gambling
Pelvic inflammatory disease Pelvic pain Penis disorder
Peptic ulcer Pericardial effusion Pericarditis
constrictive Perineal pain Periodontitis Periorbital
oedema Peripheral coldness Peripheral ischaemia Peripheral
vascular disorder Peritoneal adhesions Personality change
Personality disorder Petechiae Pharyngeal disorder
Pharyngeal erythema Pharyngeal haemorrhage Pharyngeal oedema
Pharyngitis Phlebitis Phlebitis superficial Phobia

Phonological disorder Phonophobia Photophobia Photopsia
 Photosensitivity allergic reaction Photosensitivity reaction
 Pituitary tumour Plasmacytoma Platelet count decreased
 Pleural disorder Pleural effusion Pleural fibrosis Pleurisy
 Pleuritic pain Pneumonia Pneumonia aspiration
 Pneumothorax Poisoning Poliomyelitis Pollakiuria
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Pre-eclampsia Premature ejaculation Premenstrual
 syndrome Presyncope Priapism Prinzmetal angina Proctalgia
 Productive cough Prolactinoma Prostate cancer Prostatic
 adenoma Prostatic disorder Prostatitis Protein urine present
 Proteinuria Protrusion tongue Prurigo Pruritus Pruritus
 genital Pseudolymphoma Psoriasis Psychiatric symptom
 Psychomotor retardation Psychotic disorder Pulmonary
 congestion Pulmonary embolism Pulmonary fibrosis Pulmonary
 hypertension Pulmonary oedema Pulse abnormal Pulse absent
 Purpura Purpura non-thrombocytopenic Pyelonephritis
 Pyoderma Pyuria Radiculopathy Rash Rash erythematous
 Rash maculo-papular Rash papular Rash pustular Rash
 vesicular Raynaud's phenomenon Rectal cancer Rectal
 haemorrhage Rectal tenesmus Red blood cell count decreased Red
 blood cell sedimentation rate increased Reflexes abnormal Reflux
 oesophagitis Regressive behaviour Regurgitation Renal
 artery stenosis Renal colic Renal cyst Renal failure acute Renal
 impairment Renal neoplasm Renal pain Respiration abnormal
 Respiratory alkalosis Respiratory arrest Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Retinal artery
 occlusion Retinal detachment Retinal disorder Retinal vascular
 disorder Retinal vascular occlusion Retinal vein thrombosis
 Retinitis pigmentosa Retroperitoneal fibrosis
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinitis
 allergic Rhinitis seasonal Rhinorrhoea Rhonchi Rosacea
 Rotator cuff syndrome Sacroiliitis Saliva altered
 Salivary duct obstruction Salivary gland enlargement
 Salivary gland pain Salivary hypersecretion Salpingitis
 Sarcoma Scab Schizoaffective disorder Schizophreniform
 disorder Sciatica Scleral disorder Scotoma Seasonal allergy
 Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of heaviness Sensation of pressure Sensory
 disturbance Sensory loss Sepsis Septic shock Sexual
 dysfunction Shock Sialoadenitis Sicca syndrome Sick sinus
 syndrome Sinus arrhythmia Sinus bradycardia Sinus congestion Sinus
 disorder Sinus headache Sinus tachycardia Sinusitis Skin
 burning sensation Skin cancer Skin discolouration Skin disorder
 Skin exfoliation Skin hyperpigmentation Skin hypertrophy Skin
 infection Skin irritation Skin lesion Skin mass Skin odour
 abnormal Skin papilloma Skin tightness Skin ulcer Skin
 wrinkling Sleep apnoea syndrome Sleep attacks Sleep disorder
 Sleep talking Sluggishness Sneezing Snoring
 Social avoidant behaviour Somnambulism Somnolence
 Speech disorder Spinal osteoarthritis Spine malformation
 Splenic infarction Splenomegaly Spondylitis Sputum

increased Squamous cell carcinoma Status epilepticus
 Stevens-Johnson syndrome Sticky skin Stomatitis Stress
 Stridor Stupor Subarachnoid haemorrhage
 Subcutaneous nodule Subdural haematoma Substance abuse
 Sudden death Suicidal ideation Suicide attempt Superior
 sagittal sinus thrombosis Supraventricular extrasystoles
 Supraventricular tachycardia Suspiciousness Swelling
 Swelling face Swollen tongue Syncope Synovitis
 Systemic lupus erythematosus Tachyarrhythmia Tachycardia
 Tachypnoea Talipes Tardive dyskinesia Temperature
 intolerance Temporal arteritis Tenderness Tendonitis
 Tenosynovitis Tension Tension headache Terminal insomnia
 Testicular disorder Testicular pain Tetany Therapeutic
 response decreased Therapeutic response increased Thinking
 abnormal Thirst Thought blocking Throat irritation Throat
 tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thyroid adenoma
 Thyroid cancer Thyroid neoplasm Thyroiditis Tic Tinnitus
 Tongue discolouration Tongue disorder Tongue dry Tongue
 oedema Tongue paralysis Tongue spasm Tongue ulceration
 Tonsillar hypertrophy Tonsillitis Tooth abscess Tooth
 disorder Tooth impacted Tooth infection Toothache Torsade de
 pointes Torticollis Toxic epidermal necrolysis Tracheitis
 Tracheobronchitis Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Type I hypersensitivity Ulcer
 Ulcer haemorrhage Umbilical hernia Unevaluable event Unintended
 pregnancy Upper respiratory tract infection Upper-airway cough
 syndrome Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urogenital disorder
 Urosepsis Urticaria Uterine disorder Uterine haemorrhage
 Uterine leiomyoma Uterine neoplasm Uterovaginal prolapse VIIth
 nerve paralysis Vaginal discharge Vaginal haemorrhage Vaginal
 infection Vaginal inflammation Varicose vein Vascular headache
 Vascular occlusion Vascular purpura Vasculitis
 Vasoconstriction Vasodilation procedure Vasospasm Vein
 disorder Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular failure Ventricular fibrillation
 Ventricular hypertrophy Ventricular tachycardia
 Vertigo Vestibular ataxia Vestibular disorder Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitamin B12 deficiency Vitreous detachment
 Vitreous floaters Vocal cord paralysis Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cells urine positive Withdrawal bleed
 Withdrawal syndrome Wound infection Xerophthalmia
 Xerosis Yawning

Canalicular multispecific organic anion transporter 2 - Group:
Transporter

Treated with:

cyclosporine: approved biotech (0 associated side effects)

For treatment of transplant rejection, rheumatoid arthritis,
severe psoriasis

glutathione: approved, nutraceutical small molecule (0
associated side effects) For nutritional supplementation, also
for treating dietary shortage or imbalance

folic acid: approved, nutraceutical small molecule (0 associated
side effects) For treatment of folic acid deficiency,
megaloblastic anemia and in anemias of nutritional supplements,
pregnancy, infancy, or childhood.

clotrimazole: approved small molecule (28 associated side
effects) For the local treatment of oropharyngeal candidiasis and
vaginal yeast infections, also used in fungal infections of the skin
such as ringworm, athlete's foot, and jock itch.

conjugated estrogens: approved small molecule (219 associated
side effects) For the treatment of moderate to severe vasomotor
symptoms associated with the menopause, atrophic vaginitis,
osteoporosis, hypoestrogenism due to hypogonadism, castration,
primary ovarian failure, breast cancer (for palliation only), and
Advanced androgen-dependent carcinoma of the prostate (for
palliation only)

indomethacin: approved small molecule (164 associated side
effects) For moderate to severe rheumatoid arthritis including
acute flares of chronic disease, ankylosing spondylitis,
osteoarthritis, acute painful shoulder (bursitis and/or tendinitis)
and acute gouty arthritis.

omeprazole: approved small molecule (261 associated side
effects) For the treatment of acid-reflux disorders (GERD), peptic
ulcer disease, H. pylori eradication, and prevention of
gastrointestinal bleeds with NSAID use.

cisplatin: approved small molecule (111 associated side
effects) For the treatment of metastatic testicular tumors,
metastatic ovarian tumors and advanced bladder cancer.

vincristine: approved small molecule (118 associated side
effects) For treatment of acute leukaemia, malignant lymphoma,
Hodgkin's disease, acute erythraemia, acute panmyelosis

methotrexate: approved small molecule (209 associated side
effects) For the treatment of gestational choriocarcinoma,
chorioadenoma destruens and hydatidiform mole. Also for the
treatment of severe psoriasis and severe, active, classical or
definite rheumatoid arthritis.

leucovorin: approved small molecule (34 associated side effects)
For the treatment of osteosarcoma (after high dose

methotrexate therapy). Used to diminish the toxicity and counteract
the effects of impaired methotrexate elimination and of inadvertent
overdosages of folic acid antagonists, and to treat megaloblastic
anemias due to folic acid deficiency. Also used in combination with
5-fluorouracil to prolong survival in the palliative treatment of
patients with advanced colorectal cancer.

verapamil: approved small molecule (113 associated side
effects) For the treatment of hypertension, angina, and cluster
headache prophylaxis.

etoposide: approved small molecule (109 associated side effects) For use in combination with other chemotherapeutic agents in the treatment of refractory testicular tumors and as first line treatment in patients with small cell lung cancer. Also used to treat other malignancies such as lymphoma, non-lymphocytic leukemia, and glioblastoma multiforme.

doxorubicin: approved small molecule (362 associated side effects) For the treatment of Kaposi's sarcoma connected to AIDS.

metoprolol: approved small molecule (14 associated side effects) Used as a diagnostic drug for testing hypothalamic-pituitary ACTH function. Occasionally used in Cushing's syndrome.

glyburide: approved small molecule (52 associated side effects) Indicated as an adjunct to diet to lower the blood glucose in patients with NIDDM whose hyperglycemia cannot be satisfactorily controlled by diet alone.

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

rifampin: approved small molecule (0 associated side effects) For the treatment of Tuberculosis and Tuberculosis-related mycobacterial infections.

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

sulfinpyrazone: approved small molecule (0 associated side effects) For the treatment of gout and gouty arthritis.

phenobarbital: approved small molecule (54 associated side effects) For the treatment of all types of seizures except absence seizures.

cholic acid: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

794 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal discomfort Abdominal distension
Abdominal mass Abdominal pain Abdominal pain upper
Abscess Acidosis Acne Acute abdomen Acute coronary
syndrome Acute generalised exanthematous pustulosis Acute
leukaemia Acute lymphocytic leukaemia Acute myeloid leukaemia
Adrenal disorder Affect lability Ageusia Aggression
Agitation Agranulocytosis Alanine aminotransferase increased
Albuminuria Alkalosis Alopecia Alveolitis Alveolitis
allergic Amblyopia Amenorrhoea Amnesia Anaemia Anaemia
megaloblastic Anal pruritus Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angioedema Angiopathy
Anorectal discomfort Anorectal disorder Anxiety
Aortic dissection Apathy Aphasia Aphthous stomatitis
Aplastic anaemia Apnoea Application site reaction

Arrhythmia Arterial disorder Arterial thrombosis Arteritis
 Arthralgia Arthritis Arthropathy Ascites Aspartate
 aminotransferase increased Aspiration Asthenia Asthma
 Ataxia Atonic urinary bladder Atrial fibrillation
 Atrioventricular block Atrioventricular block complete
 Atrioventricular dissociation Atrophy Autonomic
 neuropathy Azoospermia Azotaemia Back pain Balance disorder
 Balanitis Benign neoplasm Bezoar Bladder pain
 Blepharitis Blindness Blindness cortical Blindness
 transient Blister Blood albumin decreased Blood alkaline
 phosphatase increased Blood amylase increased Blood bilirubin
 increased Blood creatinine increased Blood disorder Blood
 gastrin increased Blood glucose decreased Blood glucose
 increased Blood potassium increased Blood pressure increased
 Blood prolactin increased Blood triglycerides increased
 Blood uric acid increased Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bradycardia
 Breast cancer stage IV Breast discharge Breast discomfort
 Breast disorder Breast engorgement Breast enlargement
 Breast mass Breast neoplasm Breast pain Breast swelling
 Breast tenderness Bronchitis Bronchospasm Bundle branch
 block Burning sensation Cachexia Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Carcinoid tumour Cardiac
 arrest Cardiac disorder Cardiac failure Cardiac failure
 congestive Cardiac fibrillation Cardiogenic shock Cardiomegaly
 Cardiomyopathy Cardiovascular disorder Cell death
 Cellulitis gangrenous Cerebral arteritis Cerebral artery
 thrombosis Cerebral thrombosis Cerebrovascular accident
 Cervical discharge Cervix disorder Chest discomfort Chest
 pain Chills Chloasma Cholangitis Cholangitis sclerosing
 Cholestasis Chorea Clonus Coagulopathy Cognitive
 disorder Colitis ischaemic Colitis ulcerative Colorectal cancer
 Coma Confusional state Conjunctivitis Connective tissue
 disorder Constipation Convulsion Coombs direct test positive
 Coordination abnormal Corneal deposits Coronary artery
 disease Coronary artery thrombosis Cough Crocodile tears
 syndrome Crohn's disease Cryptococcosis Cyanosis Cystitis
 Cystitis noninfective Cytolytic hepatitis Cytomegalovirus
 infection Deafness Deafness bilateral Death Decreased
 appetite Deep vein thrombosis Dehydration Delirium Dementia
 Dental plaque Depersonalisation Depressed level of
 consciousness Depression Depressive symptom Dermatitis
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Diabetes mellitus Diarrhoea Diplopia
 Discomfort Disease progression Disseminated intravascular
 coagulation Dissociation Disturbance in attention Disturbance
 in sexual arousal Diverticulum Dizziness Drug abuse Drug
 hypersensitivity Drug interaction Dry eye Dry mouth Dry skin
 Duodenitis Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysplasia
 Dyspnoea Dysuria Ear infection Ear pain Ecchymosis
 Ectropion of cervix Effusion Ejection fraction Elderly
 Electrocardiogram abnormal Electrocardiogram change
 Electrolyte imbalance Embolism Embolism venous Emotional
 disorder Encephalopathy Endometrial cancer Endometrial

hypertrophy Endometriosis Enteritis Enterocolitis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Erythromelalgia Erythropenia Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye disorder Eye
 haemorrhage Eye irritation Eye pain Eyelid ptosis Face oedema
 Facial nerve disorder Faecalith Faecaloma Faeces
 discoloured Fasciitis Fatigue Febrile neutropenia Feeling
 abnormal Feeling cold Feeling hot Feeling jittery Fibrocystic
 breast disease Fibromyalgia Fibrosis Flat affect Flatulence
 Fluid retention Flushing Foetor hepaticus Folliculitis
 Fungal infection Fungal skin infection Furuncle Gait
 disturbance Galactorrhoea Gallbladder disorder Gamma-
 glutamyltransferase increased Gastric disorder Gastric
 perforation Gastric polyps Gastric ulcer Gastrinoma Gastritis
 Gastritis erosive Gastroenteritis Gastrointestinal candidiasis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal necrosis Gastrointestinal obstruction
 Gastrointestinal oedema Gastrointestinal pain
 Gastrointestinal toxicity Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Genital discharge Gingival bleeding
 Gingival disorder Gingival hyperplasia Gingival pain
 Gingivitis Glossitis Glucose tolerance decreased Glucose
 tolerance impaired Glycosuria Goitre Gout Gynaecomastia
 Haemangioma Haematemesis Haematocrit decreased Haematuria
 Haemoglobin Haemolysis Haemolytic anaemia Haemolytic
 uraemic syndrome Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhagic disorder Hallucination Hand and foot syndrome
 secondary to sickle cell anaemia Hangover Headache Hearing
 impaired Hemiparesis Hemiplegia Hepatic cirrhosis Hepatic
 encephalopathy Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatitis acute Hepatobiliary disease Hepatocellular injury
 Hepatosplenomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism
 Histoplasmosis Hot flush Hydronephrosis Hyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hypercalcaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperplasia
 Hyperprolactinaemia Hypersensitivity Hypertension
 Hypertonia Hypertriglyceridaemia Hypertrophic cardiomyopathy
 Hypertrophy Hyperuricaemia Hyperventilation Hypoaesthesia
 Hypocalcaemia Hypochloraemia Hypochromic anaemia
 Hypogammaglobulinaemia Hypoglycaemia Hypokalaemia
 Hypokinesia Hypolipidaemia Hypomagnesaemia Hyponatraemia
 Hypophosphataemia Hypopituitarism Hypoproteinaemia Hypotension
 Hypothermia Hypothyroidism Hypotonia Hypoventilation
 Hypoxia Ichthyosis acquired Ileitis Ileus Ileus
 paralytic Ill-defined disorder Immune system disorder
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Infarction Infection Infertility
 Infestation Inflammation Influenza Injection site
 haemorrhage Injection site infection Injection site inflammation

Injection site pain Injection site reaction Inner ear
disorder Insomnia Intermittent claudication Interstitial lung
disease Intestinal functional disorder Intestinal obstruction
Intestinal ulcer Intra-uterine death Irritability
Irritable bowel syndrome Jaundice Jaundice cholestatic
Joint stiffness Joint swelling Kaposi's sarcoma AIDS
related Keratitis Keratoconjunctivitis sicca Ketosis
Laboratory test abnormal Lacrimal disorderLacrimation
decreased Lacrimation increased Large intestine carcinoma
Laryngeal disorder Laryngeal oedema Laryngitis
Laryngospasm Leiomyoma Lethargy Leukaemia
Leukocytoclastic vasculitis Leukocytosis
Leukoencephalopathy Leukopenia Leukoplakia oral Libido
decreased Liver disorder Liver function test abnormalLiver
injury Loss of consciousness Loss of libido Lung disorder
Lung infection Lymphadenopathy Lymphangitis Lymphocytic
leukaemia LymphoedemaLymphoma LymphopeniaLymphoproliferative
disorder Macule MaculopathyMalaise Malnutrition Mass
Mastitis Mediastinal disorder Melaena Meningioma benign
Meningitis Meningitis aseptic Menopausal symptoms
MenorrhagiaMenstrual disorder Mental disabilityMental
disorder Metabolic acidosis Metrorrhagia Microangiopathy
Micturition urgency Migraine Mood swingsMouth ulceration
Mucosal inflammation Mucous membrane disorder Muscle
atrophy Muscle fatigue Muscle relaxant therapy Muscle
rigidity Muscle spasms Muscle twitching Muscular weakness
Musculoskeletal discomfort Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myelodysplastic
syndrome Myeloid leukaemiaMyocardial infarction Myocardial
ischaemia MyocarditisMyoclonus Myositis Nail disorder Nasal
congestion Nasopharyngitis Nausea Neck pain Necrosis
Necrotising colitis Necrotising enterocolitis neonatal
Necrotising fasciitis Neoplasm Neoplasm malignant
Nephritic syndrome Nephritis Nephrolithiasis Nephropathy
toxic Nephrotic syndrome Nerve root lesionNervous system
disorder NervousnessNeuralgia Neuritis Neurological symptom
Neuropathy peripheral NeutropeniaNightmare Nipple pain
NocardiosisNocturia Nodule Nuchal rigidity Nystagmus
ObstructionObstructive airways disorderOedema Oedema
genital Oedema peripheralOesophageal candidiasis Oesophageal
disorder Oesophageal stenosis Oesophageal ulcerOesophagitis
Oligomenorrhoea Oliguria Onycholysis Opportunistic
infection Optic atrophy Optic ischaemic neuropathy Optic nerve
disorder Optic neuritis Oral candidiasis Oral disorder
Oropharyngeal discomfort Oropharyngeal pain Orthostatic
hypotensionOsteoarthritis Osteomalacia Osteonecrosis
Osteoporosis Otitis media Ovarian cancer Pain Pain
in extremity Pain in jawPain of skin Pallor Palmar-
plantar erythrodysesthesia syndrome Palpitations Pancreatic
disorder Pancreatitis Pancytopenia Papilloedema
Paraesthesia Paralysis Paranoia Paresis Parosmia
Parotitis Pathological fracture Pelvic painPeptic ulcer
Pericardial effusion Pericarditis Periorbital oedema
Peripheral motor neuropathy Peripheral sensory neuropathy
Peroneal nerve palsy Petechiae Pharyngeal disorder

Pharyngitis Phlebitis Phlebosclerosis Phobia
 Photosensitivity reaction Pigmentation disorder Plantar
 erythema Platelet aggregation decreased Platelet count
 decreased Pleural disorder Pleural effusion Pneumocystis jiroveci
 pneumonia Pneumonia Pneumonia cytomegaloviral Pneumothorax
 Poisoning Pollakiuria Polymyalgia rheumatica Polyneuropathy
 Polyp Polyuria Porphyria Porphyria non-acute Posterior
 reversible encephalopathy syndrome Precocious puberty Premature
 menopause Proctalgia Proctitis Proctitis ulcerative Productive
 cough Protein urine present Proteinuria Prothrombin level increased
 Prurigo Pruritus Pruritus genital Psoriasis Psychotic
 disorder Puberty Pulmonary congestion Pulmonary embolism
 Pulmonary fibrosis Pulmonary function test decreased
 Pulmonary haemorrhage Pulmonary hypertension Pulmonary oedema
 Pulmonary toxicity Purpura Pyuria Quadripareisis
 Radiculopathy Rales Rash Rash erythematous Rash generalised
 Rash macular Rash maculo-papular Rash pustular
 Raynaud's phenomenon Recall phenomenon Rectal haemorrhage
 Rectal tenesmus Reflux oesophagitis Regurgitation Renal
 colic Renal failure Renal failure acute Renal failure chronic
 Renal impairment Renal tubular disorder Respiratory depression
 Respiratory disorder Respiratory failure Respiratory tract
 congestion Respiratory tract infection Retinal pigmentation
 Retinal vein thrombosis Retinitis pigmentosa Retinopathy
 of prematurity Rhinitis Rhinorrhoea Salivary hypersecretion
 Scotoma Sedation Sensitisation Sensory loss
 Sepsis Septic shock Shock Sinus arrest Sinus
 tachycardia Sinusitis Skin burning sensation Skin candida Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin irritation Skin mass Skin necrosis Skin
 ulcer Sleep disorder Smear cervix abnormal Soft tissue necrosis
 Somnolence Speech disorder Spinal cord disorder Stevens-
 Johnson syndrome Stomatitis Strabismus Stridor Subcutaneous
 nodule Sudden death Swelling Swollen tongue Syncope
 Tachyarrhythmia Tachycardia Tachypnoea Telangiectasia
 Tenderness Tension Testicular pain Tetany Thinking
 abnormal Thirst Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombophlebitis superficial
 Thrombosis Thrombotic microangiopathy Tinnitus Tongue
 atrophy Tongue discolouration Tongue disorder Tongue oedema
 Tooth abscess Tooth impacted Toxic epidermal necrolysis
 Toxoplasmosis Transaminases increased Tremor
 Tubulointerstitial nephritis Tumour lysis syndrome Ulcer Upper
 respiratory tract infection Ureteric obstruction Urethral disorder
 Urethral obstruction Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urogenital disorder Urticaria Uterine cancer Uterine
 cervical erosion Uterine leiomyoma Uterine spasm Uterovaginal
 prolapse VIIth nerve paralysis Vaginal discharge Vaginal
 haemorrhage Vaginal infection Vaginal inflammation Varices
 oesophageal Varicose vein Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Vertigo Viral infection Vision blurred Visual acuity
 reduced Visual impairment Vitamin B12 deficiency Vocal cord

paralysis Vocal cord paresis Vomiting Vulvovaginal burning
sensation Vulvovaginal candidiasis Vulvovaginal mycotic
infection Vulvovaginal pruritus Weight decreased Weight increased
Wheezing White blood cell count decreased Withdrawal bleed
X-linked lymphoproliferative syndrome

Beta platelet-derived growth factor receptor - Group: Enzyme

Treated with:

becaplermin: approved biotech (0 associated side effects)

For topical treatment of skin ulcers (from diabetes)

sorafenib: approved small molecule (130 associated side effects) For the treatment of patients with advanced renal cell carcinoma.

imatinib: approved small molecule (248 associated side effects) For the treatment Philadelphia chromosome positive chronic myeloid leukemia (CML) and malignant gastrointestinal stromal tumors (GIST).

dasatinib: approved small molecule (251 associated side effects) For the treatment of adults with chronic, accelerated, or myeloid or lymphoid blast phase chronic myeloid leukemia with resistance or intolerance to prior therapy. Also indicated for the treatment of adults with Philadelphia chromosome-positive acute lymphoblastic leukemia with resistance or intolerance to prior therapy.

sunitinib: approved small molecule (198 associated side effects) For the treatment of advanced renal cell carcinoma as well as the treatment of gastrointestinal stromal tumor after disease progression on or intolerance to imatinib mesylate.

471 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain upper Acne Acute coronary syndrome Acute
febrile neutrophilic dermatosis Acute generalised exanthematous
pustulosis Acute hepatic failure Acute respiratory distress
syndrome Adrenal insufficiency Affect lability Ageusia
Alanine aminotransferase increased Alopecia Alveolar
proteinosis Amnesia Anaemia Anal fissure Angina pectoris
Angioedema Angiopathy Anxiety Aortic dissection Aphagia
Apthous stomatitis Aplasia Aplasia pure red cell
Aplastic anaemia Apoptosis Arrhythmia Arthralgia Ascites
Aspartate aminotransferase increased Assisted fertilisation
Asthenia Asthma Atrial fibrillation Atrial flutter
Back pain Blindness Blindness cortical Blister Blood
albumin decreased Blood alkaline phosphatase increased Blood
amylase increased Blood bilirubin increased Blood creatine
phosphokinase increased Blood creatinine increased Blood
disorder Blood glucose decreased Blood glucose increased
Blood lactate dehydrogenase increased Blood magnesium
decreased Blood phosphorus decreased Blood potassium decreased
Blood potassium increased Blood sodium increased Blood
thyroid stimulating hormone increased Blood urea increased Blood
uric acid increased Body temperature increased Bone marrow
necrosis Bone pain Bradycardia Brain oedema Breast disorder

Breast enlargement Breast feeding Bronchospasm
 Calcinosis Cardiac disorder Cardiac failure Cardiac failure
 acute Cardiac failure congestive Cardiac fibrillation Cardiac
 flutter Cardiac hypertrophy Cardiac tamponade Cardiogenic shock
 Cardiomegaly Cardiomyopathy Cell death Cerebral
 haemorrhage Cerebral infarction Cerebrovascular accident Chest
 pain Chills Cholangitis Cholecystitis Cholestasis Chronic
 myeloid leukaemia Coagulopathy Colitis Completed suicide
 Confusional state Congenital skin disorder Congestive
 cardiomyopathy Conjunctival haemorrhage Conjunctivitis
 Connective tissue disorder Constipation Convulsion Cor
 pulmonale Cough Cytogenetic abnormality Death Decreased
 appetite Deep vein thrombosis Dehydration Delirium tremens
 Depressed mood Dermatitis Dermatitis bullous Dermatitis
 exfoliative Dermatitis psoriasiform Diarrhoea Diastolic
 dysfunction Discomfort Disease progression Disturbance in sexual
 arousal Diverticulitis Dizziness Drug eruption Drug
 interaction Dry eye Dry mouth Dry skin Dysgeusia Dyspepsia
 Dysphagia Dysphonia Dyspnoea Dyspnoea exertional Ear
 haemorrhage Ecchymosis Eczema Effusion Ehlers-Danlos syndrome
 Ejection fraction decreased Electrocardiogram PR interval
 Embolism Embolism venous Endocrine disorder
 Enterocolitis Eosinophilia Epistaxis Erectile
 dysfunction Erythema Erythema multiforme Erythema nodosum Eye
 disorder Eye haemorrhage Eye oedema Face oedema Fatigue
 Febrile neutropenia Feeling abnormal Feeling cold
 Fibrosis Fistula Flank pain Flatulence Fluid retention
 Flushing Folliculitis Gastric haemorrhage Gastric
 ulcer Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal neoplasm
 Gastrointestinal pain Gastrointestinal perforation
 Gastrointestinal tract irritation Gastrointestinal ulcer
 Gastrooesophageal reflux disease Generalised oedema
 Genital rash Gingival bleeding Gingival pain Gingivitis
 Glaucoma Glossitis Glossodynia Gout Gynaecomastia
 Haematemesis Haematochezia Haematological malignancy
 Haematoma Haematuria Haemoglobin decreased Haemoptysis
 Haemorrhage Haemorrhoids Hair colour changes Headache
 Heat rash Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatic neoplasm
 malignant Hepatitis Hepatobiliary disease Herpes simplex
 Herpes virus infection Herpes zoster Hormone level abnormal
 Hypercalcaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hypernatraemia Hyperplasia Hypersensitivity
 Hypertension Hypertensive crisis Hyperthyroidism
 Hypertrophy Hyperuricaemia Hypoalbuminaemia Hypocalcaemia
 Hypogeusia Hypoglycaemia Hypokalaemia Hyponatraemia
 Hypophosphataemia Hypotension Hypothyroidism Ileus Ill-defined
 disorder Immune system disorder Immunosuppression Infarction
 Infection Infestation Inflammation Influenza Influenza
 like illness Insomnia Interstitial lung disease Intestinal
 obstruction Intra-abdominal haematoma Intracranial pressure
 increased Ischaemia Jaundice Joint swelling Keratoacanthoma
 Lacrimation increased Left ventricular dysfunction Left
 ventricular failure Leukoderma Leukoencephalopathy Leukopenia

Libido decreased Lipase increased Livedo reticularis Liver
 disorder Liver function test abnormal Lividity Localised oedema
 Loss of consciousness Lower respiratory tract infection Lung
 disorder Lung infiltration Lung neoplasm malignant Lymphoma
 Lymphopenia Macular oedema Malaise Mastocytic leukaemia
 Mastocytoma Mediastinal disorder Melaena Memory impairment
 Menorrhagia Menstruation irregular Mental disorder Metastasis
 Metastatic neoplasm Metastatic renal cell carcinoma
 Metrorrhagia Microangiopathy Migraine Milia Mood swings
 Mouth ulceration Mucosal dryness Mucosal inflammation
 Muscle spasms Muscular weakness Musculoskeletal discomfort
 Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myelodysplastic
 syndrome Myeloproliferative disorder Myocardial infarction
 Myocardial ischaemia Myocarditis Myopathy Myositis Nail
 disorder Nasopharyngitis Nausea Necrosis Necrosis
 ischaemic Neoplasm malignant Nephritis Nephropathy Nephropathy
 toxic Nephrotic syndrome Nervous system disorder Neuritis
 Neuropathy peripheral Neutropenia Neutropenic colitis Night
 sweats Obstruction Oedema Oedema peripheral Oesophageal
 disorder Oesophagitis Opportunistic infection Optic
 neuritis Oral pain Oropharyngeal discomfort Oropharyngeal
 pain Osteonecrosis Ovarian disorder Pain Pain in extremity
 Palmar-plantar erythrodysesthesia syndrome Palpitations
 Pancreatic disorder Pancreatitis Pancytopenia
 Panniculitis Papilloedema Papilloma Paraesthesia
 Parity Pericardial effusion Pericarditis Periorbital
 oedema Peripheral coldness Peripheral sensory neuropathy
 Petechiae Pharyngitis Photosensitivity reaction
 Pigmentation disorder Platelet aggregation abnormal
 Platelet count decreased Pleural disorder Pleural effusion
 Pneumonia Pollakiuria Posterior reversible encephalopathy
 syndrome Primary hypothyroidism Protein urine present Protein-
 losing gastroenteropathy Proteinuria Prurigo Pruritus
 Psoriasis Pulmonary arterial hypertension Pulmonary
 embolism Pulmonary fibrosis Pulmonary haemorrhage Pulmonary
 hypertension Pulmonary oedema Purpura Rash Rash erythematous
 Rash follicular Rash generalised Rash macular Rash
 maculo-papular Rash papular Rash pustular Rash vesicular
 Reflux oesophagitis Regressive behaviour Renal failure
 Renal failure acute Renal impairment Renal tubular disorder
 Respiratory distress Respiratory tract infection Retinal
 haemorrhage Rhabdomyolysis Rhinitis Rhinorrhoea Sciatica
 Scleral haemorrhage Sepsis Sexual dysfunction
 Sexually active Shock Sinusitis Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin irritation
 Skin ulcer Social avoidant behaviour Soft tissue disorder
 Somnolence Splinter haemorrhages Squamous cell carcinoma
 Stomatitis Swelling Syncope Systemic lupus erythematosus
 Systemic lupus erythematosus rash Systemic mastocytosis
 Tachycardia Temperature intolerance Tenderness Tendonitis
 Testicular disorder Thrombocytopenia Thrombophlebitis
 Thrombosis Thrombotic microangiopathy Thyroid disorder
 Thyroiditis Tinnitus Tongue ulceration Toxic epidermal
 necrolysis Toxic skin eruption Transient ischaemic attack

Tremor Tubulointerstitial nephritis Tumour lysis syndrome
 Tumour necrosis Tumour pain Ulcer Upper respiratory tract
 infection Urethral disorder Urinary tract disorder Urticaria
 Urticaria vesiculosa Uterine haemorrhage Vaginal discharge
 Vaginal haemorrhage Varicella Varices oesophageal
 Varicose vein Vascular purpura Venous thrombosis Ventricular
 arrhythmia Ventricular dysfunction Ventricular failure
 Ventricular tachycardia Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vitreous haemorrhage Vomiting Weight decreased Weight
 increased Wound haemorrhage Yellow skin

Potassium voltage-gated channel subfamily KQT member 3 - Group:
 Channel

Treated with:

diclofenac: approved small molecule (310 associated side
 effects) For the acute and chronic treatment of signs and symptoms
 of osteoarthritis and rheumatoid arthritis.

310 known side effects mediated through drugs targeting this
 protein:

Abdominal distension Abdominal pain upper Abscess Acne Acute
 coronary syndrome Agitation Agranulocytosis Alanine
 aminotransferase increased Alopecia Amblyopia Anaemia
 Anaphylactic shock Anaphylactoid reaction Angina pectoris
 Angioedema Angiopathy Anorectal disorder Anxiety
 Aortic dissection Aphasia Aphthous stomatitis Aplastic
 anaemia Application site reaction Arrhythmia Arteriosclerosis
 Arthralgia Aspartate aminotransferase increased Asthenia
 Asthma Atrophy Azotaemia Back pain Bladder pain
 Bleeding time prolonged Blindness Blister Blood
 creatine phosphokinase increased Blood creatinine increased Body
 temperature increased Bone pain Bradycardia Breast disorder
 Breath odour Bronchitis Burning sensation Cardiac disorder
 Cardiac failure Cardiac failure congestive Cardiovascular
 disorder Cerebrovascular accident Chest pain Chills
 Colitis ulcerative Coma Confusional state Conjunctival
 hyperaemia Conjunctivitis allergic Constipation Convulsion
 Coordination abnormal Corneal deposits Corneal disorder
 Corneal erosion Corneal infiltrates Corneal oedema
 Corneal opacity Cough Cystitis Cystitis noninfective
 Deafness Death Decreased appetite Dental caries
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diarrhoea Diarrhoea haemorrhagic Diplopia Discomfort
 Disorientation Disturbance in attention Dizziness Drug
 ineffective Dry mouth Dry skin Dysgeusia Dyspepsia Dyspnoea
 Dysthymic disorder Dysuria Ear pain Ecchymosis
 Eczema Enterocolitis haemorrhagic Eosinophilia
 Epistaxis Erectile dysfunction Eructation Erythema
 multiforme Erythema of eyelid Eye allergy Eye disorder Eye
 inflammation Eye irritation Eye pain Eye pruritus
 Eyelid oedema Eyelids pruritus Face oedema Fatigue
 Feeling abnormal Flatulence Fluid retention Flushing
 Furuncle Gait disturbance Gastric pH decreased Gastritis

Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gingivitis Glossitis Gout
 Haematemesis Haematuria Haemoglobin Haemolytic anaemia
 Haemorrhage Haemorrhoids Hair disorder Hallucination
 Headache Hearing impaired Henoch-Schonlein purpura
 Hepatic cirrhosis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatitis
 Hepatitis fulminant Hepatobiliary disease Hepatorenal
 syndrome Hereditary disorder Hernia Herpes simplex
 Herpes virus infection Hyperaemia Hyperaesthesia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkinesia Hypertension Hypertonia
 Hypertrophy Hyperventilation Hypoaesthesia Hypoglycaemia
 Hypokinesia Hypotension Ill-defined disorder Immune system
 disorder Infarction Infection Infestation Influenza Insomnia
 Intestinal perforation Intraocular pressure increased
 Iritis Irritability Jaundice Keratitis Lacrimal
 disorder Lacrimation increased Laryngeal oedema Laryngitis
 Laryngospasm Leukopenia Lip swelling Loss of
 consciousness Lymphadenopathy Malaise Melaena Memory
 impairment Meningitis aseptic Mental disability Mental disorder
 Migraine Mouth ulceration Muscle rigidity Muscle spasms
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 pain Musculoskeletal stiffness Myalgia Myocardial infarction
 Nail disorder Nausea Neck pain Necrosis Neoplasm
 malignant Nephritis Nephropathy Nephrotic syndrome Nervous
 system disorder Nervousness Neuritis Neuropathy peripheral Night
 blindness Nightmare Nocturia Nodule Nuchal rigidity
 Ocular hyperaemia Oedema peripheral Oesophageal disorder
 Oesophagitis Oliguria Osteoarthritis Pain
 Palpitations Pancreatitis Pancytopenia Papule
 Paraesthesia Peptic ulcer Pharyngitis Phlebitis
 Photosensitivity reaction Pneumonia Pollakiuria Polyuria
 Proctitis Prostatic specific antigen increased Protein
 urine present Proteinuria Pruritus Psychotic disorder
 Pulmonary function test decreased Punctate keratitis
 Purpura Rash Rash maculo-papular Rash pustular
 Rectal haemorrhage Renal failure acute Renal impairment
 Renal papillary necrosis Respiratory depression Respiratory
 disorder Rhinitis Scotoma Seborrhoeic dermatitis Sepsis
 Shock Sinusitis Skin cancer Skin discolouration Skin
 exfoliation Skin hypertrophy Skin irritation Skin mass Skin odour
 abnormal Skin ulcer Sleep disorder Social avoidant behaviour
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Swelling Syncope Tachycardia Tension
 Testicular disorder Thinking abnormal Thirst
 Thrombocytopenia Tic Tinnitus Tongue coated Tooth
 abscess Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Ulcerative keratitis Urethral
 disorder Urinary tract disorder Urine output increased Urticaria
 Vaginal haemorrhage Vascular purpura Vasculitis
 Vasodilation procedure Ventricular extrasystoles Vertigo
 Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vitreous floaters Vomiting Weight decreased

Amiloride-sensitive cation channel 1, neuronal - Group: Channel

Treated with:

amiloride: approved small molecule (85 associated side effects)

For use as adjunctive treatment with thiazide diuretics or other kaliuretic-diuretic agents in congestive heart failure or hypertension.

85 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agitation Alopecia
Anaemia Angina pectoris Aplastic anaemia Arthralgia
Asthenia Atrioventricular block Atrioventricular block
complete Back pain Bladder pain Bladder spasm Blood
potassium increased Bradycardia Chest pain Coma Confusional state
Constipation Cough Decreased appetite Dehydration
Dermatitis Diarrhoea Disturbance in sexual arousal
Dizziness Dry mouth Dyspepsia Dyspnoea Dysuria
Encephalopathy Erectile dysfunction Fatigue Feeling
abnormal Flatulence Foetor hepaticus Gastrointestinal haemorrhage
Gastrointestinal pain Gynaecomastia Haemoglobin Haemorrhage
Headache Hepatic encephalopathy Hepatic function abnormal
Hepatocellular injury Hyperkinesia Hyponatraemia
Hypotension Insomnia Intraocular pressure increased
Jaundice Libido decreased Liver disorder Muscle spasms
Muscular weakness Musculoskeletal discomfort Nasal congestion
Nausea Neck pain Nervousness Neutropenia Oral pruritus
Orthostatic hypotension Pain Pain in extremity
Palpitations Paraesthesia Paralysis flaccid Peptic
ulcer Pollakiuria Polyuria Pruritus Rash Shock Somnolence
Tension Thirst Tinnitus Tremor Ulcer Urine
output increased Vertigo Visual impairment Vomiting

Adenosine A2b receptor - Group: Receptor

Treated with:

theophylline: approved small molecule (60 associated side effects) For the treatment of the symptoms and reversible airflow obstruction associated with chronic asthma and other chronic lung diseases, such as emphysema and chronic bronchitis.

adenosine: approved small molecule (32 associated side effects)

Used as an initial treatment for the termination of paroxysmal supraventricular tachycardia (PVST), including that associated with accessory bypass tracts, and is a drug of choice for terminating stable, narrow-complex supraventricular tachycardias (SVT). Also used as an adjunct to thallous chloride TI 201 myocardial perfusion scintigraphy (thallium stress test) in patients who are unable to exercise adequately, as well as an adjunct to vagal maneuvers and clinical assessment to establish a specific diagnosis of undefined, stable, narrow-complex SVT.

enprofylline: approved small molecule (0 associated side effects) Used in the management of symptoms of asthma. Also used in the treatment of peripheral vascular diseases and in the management of cerebrovascular insufficiency, sickle cell disease, and diabetic neuropathy.

defibrotide: approved biotech (0 associated side effects)
Defibrotide is used to treat or prevent a failure of normal blood flow (occlusive venous disease, OVD) in the liver of patients who have had bone marrow transplants or received certain drugs such as oral estrogens, mercaptopurine, and many others.

83 known side effects mediated through drugs targeting this protein:
Abdominal discomfort Abdominal pain Agitation Anaphylactic
shock Anaphylactoid reaction Anxiety Arrhythmia Atrial
fibrillation Atrial tachycardia Back pain Blood pressure
increased Blood uric acid increased Bradycardia Bronchospasm
Burning sensation Cardiac arrest Cardiac fibrillation
Cardiac flutter Chest discomfort Chest pain Chronic
obstructive pulmonary disease Clonic convulsion Convulsion Death
Dermatitis Diarrhoea Disorientation Dizziness Dysgeusia
Dyspnoea Extrasystoles Extravasation Fluid overload
Flushing Gastrointestinal pain Gastrooesophageal reflux
disease Grand mal convulsion Haematemesis Haemodynamic
instability Headache Hypercalcaemia Hyperglycaemia
Hyperhidrosis Hyperuricaemia Hyperventilation
Hypoaesthesia Hypokalaemia Hypotension Hypoxia
Infection Insomnia Irritability Loss of consciousness
Nausea Nervous system disorder Nervousness Pain
Palpitations Paraesthesia Phlebitis Poisoning
Polyuria Pruritus Rash Rhabdomyolysis Sensory loss
Shock Sinus tachycardia Supraventricular tachycardia Tachycardia
Tension Throat tightness Thrombosis Torsade de pointes
Tremor Urinary retention Urticaria Venous thrombosis
Ventricular extrasystoles Ventricular fibrillation
Ventricular tachycardia Vision blurred Vomiting

Transporter - Group: Transporter

Treated with:

imipramine: approved small molecule (100 associated side effects)
For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

desipramine: approved small molecule (120 associated side effects)
For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

clomipramine: approved small molecule (349 associated side effects)

(3r)-n-methyl-3-phenyl-3-[4-(trifluoromethyl)phenoxy]propan-1-amine:
experimental small molecule (0 associated side effects)

(3s)-n-methyl-3-phenyl-3-[4-(trifluoromethyl)phenoxy]propan-1-amine:
experimental small molecule (0 associated side effects)

(1s,4s)-4-(3,4-dichlorophenyl)-n-methyl-1,2,3,4-tetrahydronaphthalen-1-amine: experimental small molecule
(0 associated side effects)

391 known side effects mediated through drugs targeting this protein:

5q minus syndrome Abdominal distension Abdominal pain Acne Acute coronary syndrome Affect lability Ageusia Aggression Agitation Agranulocytosis Albuminuria Alopecia Amenorrhoea Amyotrophic lateral sclerosis Anaemia Aneurysm Anxiety Apathy Aphasia Apraxia Arrhythmia Arthralgia Arthropathy Asthenia Ataxia Atrial flutter Atrioventricular block Back pain Bladder dilatation Bladder pain Blepharitis Blepharospasm Blindness Blood alkaline phosphatase increased Blood uric acid increased Body temperature increased Bradycardia Breast engorgement Breast enlargement Breast feeding Breast pain Breath odour Bronchitis Bronchospasm Bundle branch block Cardiac arrest Cardiac failure Cardiac failure congestive Cardiac fibrillation Cardiac flutter Cellulitis Cerebral haemorrhage Cerebrovascular accident Cervical dysplasia Cheilitis Chest pain Chills Chloasma Cholinergic syndrome Choreoathetosis Chromatopsia Colitis Coma Completed suicide Confusional state Conjunctival haemorrhage Conjunctivitis Constipation Convulsion Coordination abnormal Cough Crocodile tears syndrome Cyanosis Cystitis Cystitis noninfective Deafness Death Decreased appetite Dehydration Delirium Delusion Dental caries Dependence Depersonalisation Depressed level of consciousness Depression Dermatitis Diabetes mellitus Diarrhoea Diplopia Discomfort Disorientation Disturbance in attention Disturbance in sexual arousal Dizziness Drug dependence Dry mouth Dry skin Duodenitis Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysplasia Dyspnoea Dystonia Dysuria Ear infection Ear pain Eczema Ejaculation failure Electrocardiogram abnormal Electroencephalogram abnormal Encephalopathy Endometrial hyperplasia Endometriosis Enteritis Eosinophilia Epididymitis Epistaxis Erectile dysfunction Eructation Euphoric mood Exophthalmos Exostosis Extrapyrarnidal disorder Extrasystoles Eye allergy Eye pain Faeces discoloured Fat intolerance Fatigue Feeling abnormal Fibroadenoma of breast Flat affect Flatulence Flushing Folliculitis Gait disturbance Galactorrhoea Gastric dilatation Gastric ulcer Gastritis Gastrointestinal disorder Gastrointestinal pain Gastrooesophageal reflux disease Genital discharge Gingival bleeding Gingivitis Glaucoma Glossitis Glycosuria Goitre Gout Grand mal convulsion Gravitational oedema Gynaecomastia Haematochezia Haematuria Haemoglobin Haemoptysis Haemorrhage Haemorrhoids Hallucination Headache Hemiparesis Hepatic function abnormal Hepatitis Hiccups Hostility Hot flush Hyperacusis Hyperaemia Hyperaesthesia Hypercholesterolaemia Hyperglycaemia Hyperhidrosis Hyperkinesia Hyperplasia Hyperreflexia Hypersensitivity Hypertension Hyperthyroidism Hypertonia

Hypertrichosis Hypertrophy Hyperuricaemia Hyperventilation
 Hypnagogic hallucination Hypoaesthesia Hypokalaemia
 Hypokinesia Hypomania Hypotension Hypothyroidism
 Hypoventilation Hypoxia IIIrd nerve paralysis Ileus
 paralytic Ill-defined disorder Illusion Inappropriate
 antidiuretic hormone secretion Incontinence Increased
 appetite Infarction Infection susceptibility increased
 Inflammation Inner ear disorder Insomnia Intestinal
 functional disorder Intestinal obstruction Intraocular pressure
 increased Irritability Irritable bowel syndrome Ischaemia
 Jaundice Keratitis Lacrimation increased Laryngitis
 Laryngospasm Leukaemoid reaction Libido decreased Liver
 function test abnormal Loss of consciousness Lymphadenitis
 Lymphadenopathy Lymphoma Malaise Mania Memory impairment
 Menopausal symptoms Menstrual disorder Mental disability
 Mental disorder Micturition disorder Migraine Mood swings
 Mouth ulceration Muscle spasms Muscle twitching Muscular
 weakness Musculoskeletal discomfort Mutism Myalgia
 Mydriasis Myocardial infarction Myocardial ischaemia
 Myoclonus Myopathy Myositis Nausea Nephrolithiasis
 Nervousness Neuralgia Neuroleptic malignant syndrome
 Neuropathy peripheral Night blindness Nightmare Nocturia
 Nodal arrhythmia Nystagmus Obstruction Oculogyric crisis
 Oedema Oesophagitis Oliguria Orthostatic
 hypotension Osteoarthritis Otitis media Ovarian cyst Pain
 Pallor Palpitations Pancytopenia Panic reaction
 Paraesthesia Paralysis Paranoia Paresis Parosmia
 Parotid gland enlargement Peptic ulcer Perineal pain
 Peripheral ischaemia Petechiae Pharyngeal oedema Pharyngitis
 Phobia Photophobia Photosensitivity reaction
 Piloerection Pneumonia Poisoning Pollakiuria
 Polyarteritis nodosa Polyuria Premature ejaculation
 Pressure of speech Prostatic disorder Pruritus
 Pruritus genital Psoriasis Psychosomatic disease Psychotic
 disorder Pupils unequal Purpura Pyelonephritis Pyuria
 Rash Rash erythematous Rash maculo-papular Rash pustular
 Rectal haemorrhage Renal cyst Renal pain Respiratory
 failure Retinal disorder Rhinitis Salivary gland enlargement
 Salivary hypersecretion Schizophreniform disorder
 Scleritis Scotoma Seborrhoeic dermatitis Sensation of
 foreign body Sensory disturbance Sensory loss Shock
 Sinusitis Skin discolouration Skin hypertrophy Skin odour
 abnormal Skin ulcer Sleep disorder Somnambulism Somnolence
 Speech disorder Stomach dilation procedure Stomatitis
 Strabismus Stupor Sudden death Suicidal ideation
 Suicide attempt Swelling Syncope Systemic lupus
 erythematous Tachycardia Tension Testicular swelling
 Thinking abnormal Thirst Thrombocytopenia Thrombophlebitis
 Tinnitus Tongue discolouration Tongue ulceration Tooth
 disorder Torticollis Tremor Ulcer Urethral disorder Urinary
 incontinence Urinary retention Urinary tract infection Urine
 output increased Urticaria Uterine haemorrhage Uterine
 inflammation Vaginal haemorrhage Vaginal infection Vaginal
 inflammation Vascular purpura Vasospasm Ventricular
 extrasystoles Ventricular fibrillation Ventricular

tachycardia Vertigo Vestibular disorder Vision blurred
Visual acuity reduced Visual impairment Vomiting Vulval
disorder Waxy flexibility Weight decreased Weight increased
Withdrawal syndrome Yawning

Potassium voltage-gated channel subfamily A member 4 - Group:
Channel

Treated with:

arginineamide: experimental small molecule (0 associated
side effects)

known side effects mediated through drugs targeting this protein:

Potassium channel subfamily K member 1 - Group: Channel

Treated with:

ibutilide: approved small molecule (53 associated side effects)

Indicated for the rapid conversion of atrial fibrillation or
atrial flutter of recent onset to sinus rhythm.

quinidine: approved small molecule (146 associated side
effects) For the treatment of ventricular pre-excitation and
cardiac dysrhythmias

quinidine barbiturate: approved small molecule (0 associated
side effects)

172 known side effects mediated through drugs targeting this
protein:

Abdominal discomfort Abdominal pain Agitation Agranulocytosis
Anaemia Angina pectoris Angioedema Anxiety Aphasia
Aplastic anaemia Arthralgia Asthenia Asthma Ataxia
Atrial fibrillation Atrioventricular block first degree
Atrioventricular block second degree Azotaemia Blindness
Blood creatine phosphokinase increased Blood creatinine
increased Blood urea increased Body temperature increased
Bradycardia Bronchospasm Bundle branch block Cardiac
arrest Cardiac failure Cardiac failure congestive Cardiac
fibrillation Cerebral ischaemia Cerebrovascular accident
Chest pain Chills Coagulopathy Coma Completed suicide
Confusional state Constipation Convulsion Cutaneous
vasculitis Deafness Decreased appetite Delirium Dermatitis
bullous Dermatitis contact Dermatitis exfoliative Diarrhoea
Diplopia Disorientation Disseminated intravascular
coagulation Dizziness Drug eruption Drug interaction Dyspepsia
Dyspnoea Dystonia Ecchymosis Electrocardiogram abnormal
Electrocardiogram normal Erythema Erythema multiforme
Extrasystoles Fatigue Feeling abnormal Flushing
Gastrointestinal pain Granulomatous liver disease Haemoglobin
decreased Haemoglobinuria Haemolytic anaemia Haemolytic
uraemic syndrome Haemorrhage Headache Hearing impaired Hepatic
function abnormal Hepatitis Hyperhidrosis Hypersensitivity
Hypertension Hypocalcaemia Hypoglycaemia
Hypokalaemia Hypomagnesaemia Hypoprothrombinaemia
Hypotension Idiopathic thrombocytopenic purpura Ileus

Infection Insomnia Ischaemia Jaundice Leukocytosis
 Leukopenia Liver function test abnormal Loss of consciousness
 Lymphadenopathy Mental disorder Muscle spasms Muscular
 weakness Musculoskeletal discomfort Myalgia Mydriasis
 Nausea Necrosis Nephritis Nervousness Neuritis
 Neuropathy peripheral Neutropenia Night blindness Nodal
 arrhythmia Nodule Oedema Oesophagitis Optic neuritis
 Orthostatic hypotension Pain Palpitations
 Pancytopenia Petechiae Photophobia Photosensitivity
 reaction Pigmentation disorder Plasmodium falciparum infection
 Platelet disorder Pneumonia Pruritus Pulmonary oedema
 Purpura Rash Renal failure Renal impairment Rhythm
 idioventricular Scotoma Shock Sicca syndrome Sinus bradycardia
 Sinus tachycardia Social avoidant behaviour Sudden visual
 loss Supraventricular extrasystoles Supraventricular tachycardia
 Syncope Systemic lupus erythematosus Tachyarrhythmia
 Tachycardia Tension Thought blocking Thrombocytopenia
 Thrombocytopenic purpura Thrombotic thrombocytopenic
 purpura Tinnitus Torsade de pointes Toxic epidermal
 necrolysis Tremor Tubulointerstitial nephritis Urinary tract
 infection Urticaria Uveitis Vascular purpura Vascular
 resistance systemic Vasculitis Vasodilation procedure Ventricular
 arrhythmia Ventricular extrasystoles Ventricular fibrillation
 Ventricular tachycardia Vertigo Vision blurred
 Visual impairment Vomiting

Opioid receptor, sigma 1 - Group: Receptor

Treated with:

dextromethorphan: approved small molecule (0 associated side effects) For treatment and relief of dry cough.

naltrexone: approved small molecule (238 associated side effects) Used as an adjunct to a medically supervised behaviour modification program in the maintenance of opiate cessation in individuals who were formerly physically dependent on opiates and who have successfully undergone detoxification. Also used for the management of alcohol dependence in conjunction with a behavioural modification program.

238 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Abdominal pain lower
 Abdominal pain upper Abnormal dreams Abortion missed
 Abscess Acne Acute coronary syndrome Agitation
 Alanine aminotransferase increased Alcohol withdrawal syndrome
 Alopecia Anaphylactic shock Aneurysm Angina pectoris
 Angina unstable Angioedema Angiopathy Anxiety Aortic
 dissection Appetite disorder Arterial occlusive disease
 Arteriosclerosis Arteriosclerosis coronary artery Arthralgia
 Arthritis Aspartate aminotransferase increased Asthenia
 Atrial fibrillation Back pain Blood creatinine normal
 Blood pressure fluctuation Blood pressure increased Body
 temperature increased Bronchitis Cardiac disorder Cardiac failure
 Cardiac failure congestive Cardiac fibrillation Cellulitis
 Cerebrovascular accident Chest discomfort Chest pain

Chills Cholecystitis Cholecystitis acute
 Cholelithiasis Chronic obstructive pulmonary disease
 Colitis Completed suicide Confusional state Conjunctivitis
 Connective tissue disorder Constipation Convulsion Cough
 Crying Cytolytic hepatitis Death Decreased appetite
 Deep vein thrombosis Dehydration Delirium Depressed mood
 Dermatitis Diarrhoea Discomfort Disorientation Disturbance
 in attention Disturbance in sexual arousal Dizziness Dry
 mouth Dysgeusia Dysphonia Dyspnoea Ecchymosis Ejaculation
 delayed Embolism Emotional distress Energy increased
 Eosinophilic pneumonia Epistaxis Euphoric mood Eye
 disorder Face oedema Fatigue Feeling abnormal Flatulence
 Flushing Frequent bowel movements Gastric disorder
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Groin pain HIV infection
 Haemoglobin Haemorrhage Haemorrhoids Hallucination
 Headache Heat rash Hepatic enzyme increased Hepatic
 function abnormal Hepatitis C Hepatobiliary disease Hepatocellular
 injury Hot flush Hypercholesterolaemia Hyperhidrosis
 Hyperkinesia Hypersensitivity Hypertension Idiopathic
 thrombocytopenic purpura Ileus paralytic Ill-defined disorder
 Immune system disorder Increased appetite Induration
 Infarction Infection Infestation Influenza Injection site
 haematoma Injection site haemorrhage Injection site pain
 Injection site reaction Insomnia Intracranial aneurysm
 Irritability Ischaemic stroke Joint stiffness Laryngitis
 Lethargy Libido decreased Liver injury Loss of
 consciousness Lung disorder Lymphadenitis Lymphadenopathy
 Malaise Mediastinal disorder Menopausal symptoms
 Mental disability Mental disorder Mental retardation
 Migraine Muscle rigidity Muscle spasms Muscle twitching
 Musculoskeletal discomfort Musculoskeletal stiffness
 Myalgia Myocardial infarction Nasal congestion
 Nasopharyngitis Nausea Nervous system disorder
 Nervousness Night sweats Nightmare Nodule Obsessive-
 compulsive disorder Obstructive airways disorder Oedema Oral
 herpes Oropharyngeal discomfort Oropharyngeal pain Pain
 Pain in extremity Palpitations Pancreatitis acute Panic
 attack Panic reaction Paraesthesia Paranoia Peripheral
 coldness Perirectal abscess Persistent generalised
 lymphadenopathy Pharyngitis Pharyngitis streptococcal Phlebitis
 Platelet count decreased Pneumonia Poor quality sleep
 Pruritus Psychotic disorder Pulmonary embolism
 Purpura Rash papular Respiratory tract infection
 Retinal artery occlusion Rhinitis seasonal Rhinorrhoea
 Seasonal allergy Seborrhoeic dermatitis Sedation Shock Sinus
 congestion Sinus headache Sinusitis Sleep disorder
 Sluggishness Sneezing Somnolence Suicidal ideation
 Suicidal attempt Swelling Syncope Tachycardia Tearfulness
 Tenderness Tension Thinking abnormal Thirst
 Thrombocytopenic purpura Thrombosis Tinnitus Tooth
 abscess Toothache Tremor Ulcer Upper respiratory tract
 infection Urinary tract infection Urticaria Vascular purpura
 Venous thrombosis Vision blurred Vomiting Weight decreased

Weight increased White blood cell count increased Withdrawal syndrome Yawning

B2 bradykinin receptor - Group: Receptor

Treated with:

icatibant: approved small molecule (0 associated side effects)

Approved for use in hereditary angioedema. Investigated for use/treatment in angioedema, liver disease, and burns and burn infections.

known side effects mediated through drugs targeting this protein:

Toll-like receptor 2 - Group: Receptor

Treated with:

ospa lipoprotein: approved biotech (0 associated side effects)

For prophylactic treatment of Lyme Disease

s-(dimethylarsenic)cysteine: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Atrial natriuretic peptide receptor A - Group: Enzyme

Treated with:

nitroprusside: approved small molecule (0 associated side effects) For immediate reduction of blood pressure of patients in hypertensive crises, reduce bleeding during surgery, and for the treatment of acute congestive heart failure

nitroglycerin: approved small molecule (59 associated side effects) For the prevention of angina

isosorbide dinitrate: approved small molecule (11 associated side effects) For the prevention of angina pectoris due to coronary artery disease.

amyl nitrite: approved small molecule (16 associated side effects) For the rapid relief of angina pectoris.

erythrityl tetranitrate: approved small molecule (0 associated side effects) For the prevention of angina.

nesiritide: approved biotech (0 associated side effects) For the intravenous treatment of patients with acutely decompensated congestive heart failure who have dyspnea at rest or with minimal activity.

61 known side effects mediated through drugs targeting this protein:

Abdominal pain Agitation Anaphylactic shock Anaphylactoid reaction Angina pectoris Angina unstable Angiopathy Aortic dissection Asthenia Burning sensation Cardiac disorder Cerebral ischaemia Cold sweat Dermatitis Dermatitis contact Dermatitis exfoliative Discomfort Dizziness Drug eruption Dyspnoea Eczema Erythema Flushing Gastrointestinal disorder Gastrointestinal pain Headache Hyperhidrosis Hypersensitivity Hypertension Hypotension Immobile

Infection Infestation Ischaemia Loss of consciousness
Mediastinal disorder Mental disorder Methaemoglobinaemia
Nausea Nervous system disorder Oedema Oedema
peripheral Orthostatic hypotension Pallor Palpitations
Paraesthesia Pharyngitis Pruritus Rash Renal failure
acute Rhinitis Shock Skin reaction Stomatitis Syncope
Tachycardia Vasodilation procedure Vertigo Vision blurred
Vomiting Withdrawal hypertension

Neurotensin receptor type 2 - Group: Receptor

Treated with:

levocabastine: approved small molecule (19 associated side effects) As an ophthalmic for the temporary relief of the signs and symptoms of seasonal allergic conjunctivitis. Also used as a nasal spray for allergic rhinitis.

19 known side effects mediated through drugs targeting this protein:

Asthenia Cough Dermatitis Dry mouth Dyspnoea Erythema Eye pain
Eyelid oedema Fatigue Headache Lacrimation increased
Nausea Ocular hyperaemia Oedema Pain Pharyngitis Rash
Somnolence Visual impairment

Poliovirus receptor - Group: Receptor

Treated with:

sphingosine: experimental small molecule (0 associated side effects)
myristic acid: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Interphotoreceptor retinoid-binding protein - Group: Receptor

Treated with:

vitamin a: approved, nutraceutical small molecule (18 associated side effects) For the treatment of vitamin A deficiency.

18 known side effects mediated through drugs targeting this protein:

Agitation Anaphylactic shock Anaphylactoid reaction Angioedema
Anxiety Death Dermatitis Diplopia Dizziness Dyspnoea
Erythema Headache Hypersensitivity Pruritus Rash Shock
Urticaria Wheezing

Peroxisome proliferator-activated receptor gamma - Group: Receptor

Treated with:

icosapent: approved, nutraceutical small molecule (0 associated side effects) EPA can be used for lowering elevated triglycerides in those who are hyperglyceridemic. In addition, EPA may play a therapeutic role in patients with cystic fibrosis by reducing disease severity and may play a similar role in type 2 diabetics in slowing the progression of diabetic nephropathy.

troglitazone: withdrawn small molecule (32 associated side effects) For the treatment of Type II diabetes mellitus. It is used alone or in combination with a sulfonylurea, metformin, or insulin as an adjunct to diet and exercise.

mesalazine: approved small molecule (309 associated side effects) For the treatment of active ulcerative proctitis.

indomethacin: approved small molecule (164 associated side effects) For moderate to severe rheumatoid arthritis including acute flares of chronic disease, ankylosing spondylitis, osteoarthritis, acute painful shoulder (bursitis and/or tendinitis) and acute gouty arthritis.

rosiglitazone: approved small molecule (57 associated side effects) For the treatment of Type II diabetes mellitus

nateglinide: approved small molecule (32 associated side effects) For the treatment of non-insulin dependent-diabetes mellitus in conjunction with diet and exercise.

sulfasalazine: approved small molecule (114 associated side effects) For the treatment of Crohn's disease and rheumatoid arthritis as a second-line agent.

repaglinide: approved small molecule (51 associated side effects) For the treatment of non-insulin dependent-diabetes mellitus in conjunction with diet and exercise.

telmisartan: approved small molecule (174 associated side effects) Used alone or in combination with other classes of antihypertensives for the treatment of hypertension. Also used in the treatment of diabetic nephropathy in hypertensive patients with type 2 diabetes mellitus, as well as the treatment of congestive heart failure (only in patients who cannot tolerate ACE inhibitors).

balsalazide: approved small molecule (61 associated side effects) For the treatment of mildly to moderately active ulcerative colitis.

glipizide: approved small molecule (80 associated side effects)
For use as an adjunct to diet for the control of hyperglycemia and its associated symptomatology in patients with non-insulin-dependent diabetes mellitus (NIDDM; type II), formerly known as maturity-onset diabetes, after an adequate trial of dietary therapy has proved unsatisfactory.

pioglitazone: approved small molecule (36 associated side effects) Treatment of Type II diabetes mellitus

mitiglinide: approved small molecule (0 associated side effects) For the treatment of type 2 diabetes.

bezafibrate: approved small molecule (57 associated side effects) For the treatment of primary hyperlipidaemia types IIa, IIb, III, IV and V (Fredrickson classification) corresponding to groups I, II and III of the European Atherosclerosis Society guidelines - when diet alone or improvements in lifestyle such as increased exercise or weight reduction do not lead to an adequate response. Also for the treatment of secondary hyperlipidaemias, e.g. severe hypertriglyceridemias, when sufficient improvement does not occur after correction of the underlying disorder (e.g. diabetes mellitus).

(s)-3-(4-(2-carbazol-9-yl-ethoxy)-phenyl)-2-ethoxy-propionic acid:
experimental small molecule (0 associated side effects)

2-{5-[3-(6-benzoyl-1-propylnaphthalen-2-yloxy)propoxy]indol-1-yl}ethanoic acid: experimental small molecule (0 associated side effects)
 (2s)-3-(1-{[2-(2-chlorophenyl)-5-methyl-1,3-oxazol-4-yl]methyl}-1h-indol-5-yl)-2-ethoxypropanoic acid: experimental small molecule (0 associated side effects)
 (9z,11e,13s)-13-hydroxyoctadeca-9,11-dienoic acid: experimental small molecule (0 associated side effects)
 2-{5-[3-(7-propyl-3-trifluoromethylbenzo[d]isoxazol-6-yloxy)propoxy]indol-1-yl}ethanoic acid: experimental small molecule (0 associated side effects)
 (4s,5e,7z,10z,13z,16z,19z)-4-hydroxydocosa-5,7,10,13,16,19-hexaenoic acid: experimental small molecule (0 associated side effects)
 (5r,6e,8z,11z,14z,17z)-5-hydroxyicosa-6,8,11,14,17-pentaenoic acid: experimental small molecule (0 associated side effects)
 (8e,10s,12z)-10-hydroxy-6-oxooctadeca-8,12-dienoic acid: experimental small molecule (0 associated side effects)
 (8r,9z,12z)-8-hydroxy-6-oxooctadeca-9,12-dienoic acid: experimental small molecule (0 associated side effects)
 (9s,10e,12z)-9-hydroxyoctadeca-10,12-dienoic acid: experimental small molecule (0 associated side effects)
 difluoro(5-{2-[(5-octyl-1h-pyrrol-2-yl-kappa)methylidene]-2h-pyrrol-5-yl-kappa}pentanoato)boron: experimental small molecule (0 associated side effects)
 (2s)-2-ethoxy-3-{4-[2-(10h-phenoxazin-10-yl)ethoxy]phenyl}propanoic acid: experimental small molecule (0 associated side effects)
 3-(5-methoxy-1h-indol-3-yl)propanoic acid: experimental small molecule (0 associated side effects)
 3-{5-methoxy-1-[(4-methoxyphenyl)sulfonyl]-1h-indol-3-yl}propanoic acid: experimental small molecule (0 associated side effects)
 (2s)-2-(4-ethylphenoxy)-3-phenylpropanoic acid: experimental small molecule (0 associated side effects)
 2-chloro-5-nitro-n-phenylbenzamide: experimental small molecule (0 associated side effects)
 (2s)-2-(biphenyl-4-yloxy)-3-phenylpropanoic acid: experimental small molecule (0 associated side effects)
 3-[5-(2-nitropent-1-en-1-yl)furan-2-yl]benzoic acid: experimental small molecule (0 associated side effects)
 2-[(2,4-dichlorobenzoyl)amino]-5-(pyrimidin-2-yloxy)benzoic acid: experimental small molecule (0 associated side effects)
 (5e,14e)-11-oxoprostanoic acid: experimental small molecule (0 associated side effects)
 (2s)-2-methoxy-3-{4-[2-(5-methyl-2-phenyl-1,3-oxazol-4-yl)ethoxy]-1-benzothiophen-7-yl}propanoic acid: experimental small molecule (0 associated side effects)
 3-fluoro-n-[1-(4-fluorophenyl)-3-(2-thienyl)-1h-pyrazol-5-yl]benzenesulfonamide: experimental small molecule (0 associated side effects)
 (2s)-2-(4-chlorophenoxy)-3-phenylpropanoic acid: experimental small molecule (0 associated side effects)

495 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain lower Abdominal pain upper Abnormal dreams

Abscess Acidosis Acne Acute coronary syndrome Acute febrile neutrophilic dermatosis Acute interstitial pneumonitis
 Affect lability Agranulocytosis Alanine aminotransferase increased Albuminuria Alkalosis Alopecia Alveolitis allergic
 Alveolitis fibrosing Amblyopia Amenorrhoea Anaemia
 Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Angina pectoris Angioedema Angiopathy Anorectal discomfort Anorectal disorder Anuria Anxiety Aortic dissection Apathy Aplastic anaemia Apnoea Arrhythmia
 Arterial disorder Arthralgia Arthritis Arthropathy Aspartate aminotransferase increased Aspiration Asthenia Asthma
 Ataxia Atrial fibrillation Autonomic neuropathy
 Azoospermia Azotaemia Back pain Bladder cancer Bladder neoplasm Bladder pain Blindness Blood alkaline phosphatase increased Blood amylase increased Blood bilirubin increased
 Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood lactate dehydrogenase increased
 Blood potassium increased Blood pressure increased Blood uric acid increased Body temperature increased Bone disorder
 Bradycardia Breast pain Bronchiolitis Bronchitis
 Bronchospasm Burning sensation Bursitis Candidiasis
 Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiovascular disorder Cauda equina syndrome Cellulitis gangrenous
 Cerebrovascular disorder Chest pain Chills
 Cholecystitis Cholelithiasis Cholestasis Chromaturia
 Coagulopathy Colitis Colitis ulcerative Coma
 Condition aggravated Confusional state Conjunctivitis
 Connective tissue disorder Constipation Convulsion
 Corneal deposits Coronary artery disease Cough Crohn's disease
 Crystal urine Crystalluria Cyanosis Cystitis
 Cystitis noninfective Cytolytic hepatitis Deafness Death
 Decreased appetite Defaecation urgency Delirium
 Depersonalisation Depression Dermatitis Dermatitis exfoliative
 Dermatitis infected Diabetes mellitus Diabetic retinal oedema
 Diarrhoea haemorrhagic Diplopia Discomfort Disease progression Disorientation Disseminated intravascular coagulation
 Disturbance in sexual arousal Diverticulum Dizziness
 Drug eruption Dry eye Dry mouth Dry skin Duodenal ulcer
 Dysarthria Dyschezia Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspepsia Dysphagia Dyspnoea Dysuria Ear congestion
 Ear disorder Ear infection Ear pain Eating disorder
 Ecchymosis Eczema Effusion Elderly Electrocardiogram abnormal
 Electrolyte imbalance Emotional distress Endocrine disorder
 Enteritis Enterocolitis Eosinophilia
 Eosinophilic myocarditis Eosinophilic pneumonia
 Epididymitis Epilepsy Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Eye pain Face oedema Faecal incontinence Faeces discoloured
 Fasciitis Fatigue Feeling abnormal Feeling hot
 Fibrosis Flat affect Flatulence Fluid retention Flushing
 Foetor hepaticus Fungal infection Gait disturbance Gamma-glutamyltransferase decreased Gamma-glutamyltransferase increased
 Gastric disorder Gastric perforation Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal

haemorrhage Gastrointestinal pain Gastrointestinal tract irritation
 Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Glomerulonephritis minimal lesion
 Glossodynia Glycosuria Goitre Gout Gravitational oedema
 Gynaecomastia Haematochezia Haematocrit decreased
 Haematuria Haemoglobin Haemolytic anaemia Haemorrhage
 Haemorrhage intracranial Haemorrhoids Hallucination
 Headache Hearing impaired Hepatic cirrhosis Hepatic enzyme
 increased Hepatic failure Hepatic function abnormal Hepatic
 necrosis Hepatitis Hepatitis cholestatic Hepatitis fulminant
 Hepatobiliary disease Hepatocellular injury Hirsutism
 Hormone level abnormal Hyperaesthesia Hyperbilirubinaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkeratosis Hypersensitivity
 Hypertension Hypertonia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypoglycaemia
 Hypokalaemia Hypomagnesaemia Hypomenorrhoea
 Hyponatraemia Hypoprothrombinaemia Hypotension Idiopathic
 pulmonary fibrosis Ileitis Ileus Ill-defined disorder
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Infantile genetic agranulocytosis
 Infarction Infection Infertility Infestation Inflammatory
 bowel disease Influenza like illness Insomnia Intermittent
 claudication Interstitial lung disease Intestinal obstruction
 Intestinal ulcer Ischaemia Jaundice Jaundice cholestatic
 Ketonuria Kidney fibrosis Laboratory test abnormal
 Lacrimal disorder Lacrimation increased Lethargy Leukaemia
 Leukocytosis Leukopenia Libido decreased Lichen planus
 Lichenoid keratosis Liver disorder Liver function test
 abnormal Liver injury Local reaction Loss of consciousness
 Lung disorder Lung infection Lung infiltration
 Lymphadenopathy Macular oedema Macule Malabsorption
 Malaise Mediastinal disorder Melaena Meningitis
 Menorrhagia Mental disorder Methaemoglobinaemia
 Metrorrhagia Micturition disorder Micturition urgency
 Migraine Mood swings Mouth ulceration Muscle contractions
 involuntary Muscle spasms Muscular weakness Musculoskeletal
 discomfort Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myelitis Myelitis
 transverse Myelodysplastic syndrome Myocardial infarction
 Myocardial ischaemia Myocarditis Myositis Nail disorder
 Nasopharyngitis Nausea Neck pain Necrosis Necrotising
 colitis Necrotising enterocolitis neonatal Necrotising fasciitis
 Neoplasm malignant Nephritic syndrome Nephritis
 Nephropathy Nephrotic syndrome Nervous system disorder
 Nervousness Neuropathy peripheral Neutropenia Neutropenic
 colitis Normal pressure hydrocephalus Obliterative
 bronchiolitis Obstruction Oedema Oedema peripheral Oesophageal
 disorder Oesophageal ulcer Oligohydramnios Oliguria Oral
 candidiasis Oropharyngeal discomfort Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Otitis media
 Pain Pain in extremity Palpitations Pancreatitis acute
 Pancytopenia Paraesthesia Parapsoriasis Parosmia
 Peptic ulcer perforation Pericardial effusion
 Pericarditis constrictive Periorbital oedema Petechiae

Pharyngitis Photosensitivity reaction Pityriasis lichenoides
 et varioliformis acuta Plantar fasciitis Platelet aggregation
 decreased Platelet count decreased Pleural disorder Pleural
 effusion Pleurisy Pneumonia Pneumonia aspiration
 Pneumothorax Pollakiuria Polyarteritis nodosa Polyp
 Polyuria Porphyria Porphyria non-acute Proctalgia
 Proctitis Prostatic disorder Protein urine present
 Proteinuria Prurigo Pruritus Psoriasis Psychotic
 disorder Pulmonary eosinophilia Pulmonary fibrosis Pulmonary
 haemorrhage Pulmonary hypertension Pulmonary oedema Purpura
 Pyoderma gangrenosum Rash erythematous Rash generalised Rash
 papular Rash pustular Rectal discharge Rectal haemorrhage
 Rectal polyp Rectal spasm Rectal tenesmus Renal
 failure Renal failure acute Renal failure chronic Renal
 impairment Respiratory disorder Respiratory tract infection
 Retching Retinal haemorrhage Retinopathy of prematurity
 Rhabdomyolysis Rheumatoid arthritis Rhinitis Rhinorrhoea
 Sciatica Scleral hyperaemia Scotoma Serum sickness
 Shock Sinus tachycardia Sinusitis Skin discoloration Skin
 disorder Skin exfoliation Skin necrosis Skin ulcer Social
 avoidant behaviour Somnolence Steatorrhoea Stomatitis
 Syncope Systemic lupus erythematosus Tachycardia Tenderness
 Tendon pain Tendonitis Tenosynovitis Tension Thirst
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Tinnitus Tongue discoloration
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Toxic skin eruption
 Transaminases increased Tremor Tubulointerstitial
 nephritis Ulcer Upper respiratory tract infection Urethral disorder
 Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine colour abnormal Urine
 output increased Urticaria Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vascular purpura Vasculitis
 Vasodilation procedure Vertigo Vision blurred Visual
 acuity reduced Visual impairment Volume blood increased Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Weight decreased Weight increased

Voltage-dependent anion-selective channel protein 3 - Group: Channel
 Treated with:
 dihydroxyaluminium: approved small molecule (0 associated
 side effects)

known side effects mediated through drugs targeting this protein:

Outer membrane protein II - Group: Channel
 Treated with:
 lauryl dimethylamine-n-oxide: experimental small molecule
 (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Toll-like receptor 9 - Group: Receptor

Treated with:

chloroquine: approved small molecule (59 associated side effects) For the suppressive treatment and for acute attacks of malaria due to *P. vivax*, *P. malariae*, *P. ovale*, and susceptible strains of *P. falciparum*, Second-line agent in treatment of Rheumatoid Arthritis

hydroxychloroquine: approved small molecule (67 associated side effects) For the suppressive treatment and treatment of acute attacks of malaria due to *Plasmodium vivax*, *P. malariae*, *P. ovale*, and susceptible strains of *P. falciparum*. It is also indicated for the treatment of discoid and systemic lupus erythematosus, and rheumatoid arthritis.

95 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute generalised exanthematous pustulosis Acute hepatic failure Agitation Agranulocytosis Alopecia Anaemia Anaphylactic shock Anaphylactoid reaction Angioedema Anxiety Aplastic anaemia Asthenia Ataxia Atrophy Blindness Blood disorder Bronchospasm Cardiomyopathy Confusional state Convulsion Corneal deposits Corneal opacity Deafness Deafness neurosensory Decreased appetite Delirium Dermatitis exfoliative Diarrhoea Dizziness Electrocardiogram QRS complex Electrocardiogram change Erythema Erythema annulare Erythema multiforme Fatigue Feeling abnormal Gastrointestinal disorder Haemolysis Hallucination Halo vision Headache Hearing impaired Hepatic enzyme increased Hepatic failure Hepatic function abnormal Hepatitis Hypersensitivity Hypotension Insomnia Irritability Leukopenia Lichen planus Loss of consciousness Macule Muscle spasms Myopathy Nausea Nervousness Neuromyopathy Neutropenia Night blindness Nightmare Nystagmus Oedema Pallor Pancytopenia Paralysis Personality change Photophobia Photosensitivity reaction Pigmentation disorder Polyneuropathy Porphyria Pruritus Psoriasis Psychotic disorder Rash Rash papular Retinal disorder Retinal injury Retinal pigmentation Scotoma Skin exfoliation Tension Thrombocytopenia Tinnitus Toxic epidermal necrolysis Urticaria Vertigo Vision blurred Visual acuity reduced Visual impairment Vomiting Weight decreased

Receptor-type tyrosine-protein phosphatase beta - Group: Enzyme

Treated with:

{4-[2-benzyl-3-methoxy-2-(methoxycarbonyl)-3-oxopropyl]phenyl}sulfamic acid: experimental small molecule (0 associated side effects)

(4-{4-[(tert-butoxycarbonyl)amino]-2,2-bis(ethoxycarbonyl)butyl}phenyl)sulfamic acid: experimental small molecule (0 associated side effects)

{4-[2,2-bis(5-methyl-1,2,4-oxadiazol-3-yl)-3-phenylpropyl]phenyl}sulfamic acid: experimental small molecule
(0 associated side effects)
(4-ethylphenyl)sulfamic acid: experimental small molecule
(0 associated side effects)

known side effects mediated through drugs targeting this protein:

Hyaluronan mediated motility receptor - Group: Receptor

Treated with:

hyaluronan: approved small molecule (0 associated side effects)

Used to treat knee pain in patients with joint inflammation (osteoarthritis). It is usually used in patients who have not responded to other treatments such as acetaminophen, exercise, or physical therapy. Sodium hyaluronate may also be used in plastic surgery to reduce wrinkles on the face or as a filler in other parts of the body. May be used in ophthalmology to assist in the extraction of cataracts, the implantation of intraocular lenses, corneal transplants, glaucoma filtration, retinal attachment and in the treatment of dry eyes. Finally, Sodium hyaluronate is also used to coat the bladder lining in treating interstitial cystitis.

known side effects mediated through drugs targeting this protein:

Chloride channel protein ClC-Ka - Group: Channel

Treated with:

niflumic acid: approved small molecule (0 associated side effects) Used in the treatment of rheumatoid arthritis.

known side effects mediated through drugs targeting this protein:

Ferrichrome-iron receptor - Group: Transporter

Treated with:

2-tridecanoyloxy-pentadecanoic acid: experimental small molecule (0 associated side effects)

beta-d-glucose: experimental small molecule (0 associated side effects)

n-octyl-2-hydroxyethyl sulfoxide: experimental small molecule (0 associated side effects)

decylamine-n,n-dimethyl-n-oxide: experimental small molecule (0 associated side effects)

phenylferricrocin-iron: experimental small molecule (0 associated side effects)

3-deoxy-d-glucosamine: experimental small molecule (0 associated side effects)

delta-2-albomycin a1: experimental small molecule (0 associated side effects)

3-hydroxy-myristic acid: experimental small molecule (0 associated side effects)

glucosamine 4-phosphate: experimental small molecule (0 associated side effects)
 2-amino-vinyl-phosphate: experimental small molecule (0 associated side effects)
 glucosamine 1-phosphate: experimental small molecule (0 associated side effects)
 3-deoxy-d-manno-oct-2-ulosonic acid: experimental small molecule (0 associated side effects)
 3-oxo-pentadecanoic acid: experimental small molecule (0 associated side effects)
 diphosphate: experimental small molecule (0 associated side effects)
 rifamycin cgp 4832: experimental small molecule (0 associated side effects)
 1-glycero-d-manno-heptopyranose: experimental small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Electrogenic sodium bicarbonate cotransporter 4 - Group: Transporter
 Treated with:

sodium bicarbonate: approved small molecule (10 associated side effects) Sodium bicarbonate is used for the treatment of metabolic acidosis which may occur in severe renal disease, uncontrolled diabetes, circulatory insufficiency due to shock or severe dehydration, extracorporeal circulation of blood, cardiac arrest and severe primary lactic acidosis. Also is indicated in severe diarrhea which is often accompanied by a significant loss of bicarbonate. Further indicated in the treatment of certain drug intoxications, including barbiturates (where dissociation of the barbiturateprotein complex is desired), in poisoning by salicylates or methyl alcohol and in hemolytic reactions requiring alkalinization of the urine to diminish nephrotoxicity of blood pigments.

10 known side effects mediated through drugs targeting this protein:

Aggression Alkalosis Cellulitis Extravasation Hypernatraemia
 Irritability Metabolic alkalosis Necrosis Tetany
 Ulcer

Peroxisome proliferator-activated receptor alpha - Group: Receptor
 Treated with:

clofibrate: approved small molecule (0 associated side effects)

For Primary Dysbetalipoproteinemia (Type III hyperlipidemia) that does not respond adequately to diet. This helps control high cholesterol and high triglyceride levels.

fenofibrate: approved small molecule (180 associated side effects) For use as adjunctive therapy to diet to reduce elevated LDL-C, Total-C, Triglycerides and Apo B, and to increase HDL-C in adult patients with primary hypercholesterolemia or mixed dyslipidemia (Fredrickson Types IIa and IIb)

gemfibrozil: approved small molecule (91 associated side effects) For treatment of adult patients with very high elevations of serum triglyceride levels (types IV and V hyperlipidemia) who are at risk of developing pancreatitis (inflammation of the pancreas) and who do not respond adequately to a strict diet.

bezafibrate: approved small molecule (57 associated side effects) For the treatment of primary hyperlipidaemia types IIa, IIb, III, IV and V (Fredrickson classification) corresponding to groups I, II and III of the European Atherosclerosis Society guidelines - when diet alone or improvements in lifestyle such as increased exercise or weight reduction do not lead to an adequate response. Also for the treatment of secondary hyperlipidaemias, e.g. severe hypertriglyceridemias, when sufficient improvement does not occur after correction of the underlying disorder (e.g. diabetes mellitus).

deoxy-bigchap: experimental small molecule (0 associated side effects)

2-methyl-2-(4-{{(4-methyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}carbonyl)amino}methyl}phenoxy)propanoic acid:

experimental small molecule (0 associated side effects)

3-{5-methoxy-1-[4-methoxyphenyl)sulfonyl]-1h-indol-3-yl}propanoic acid:experimental small molecule (0 associated side effects)

(2s)-2-methoxy-3-{4-[2-(5-methyl-2-phenyl-1,3-oxazol-4-yl)ethoxy]-1-benzothiophen-7-yl}propanoic acid:experimental small molecule (0 associated side effects)

223 known side effects mediated through drugs targeting this protein:

Abdominal pain Abdominal pain upper Acne Acute coronary syndrome Alanine aminotransferase increased Alopecia Alveolitis Amblyopia Anaemia Anaphylactic shock Angina pectoris Angioedema Angiopathy Anorectal disorder Antinuclear antibody positive Anxiety Appendicitis Arrhythmia Arthralgia Arthritis Arthropathy Aspartate aminotransferase increased Assisted fertilisation Asthenia Asthma Atrial fibrillation Back pain Bacterial infection Bladder pain Blindness Blood alkaline phosphatase increased Blood bilirubin increased Blood creatine phosphokinase increased Blood creatinine increased Blood disorder Blood lactate dehydrogenase increased Blood urea increased Blood uric acid increased Body temperature increased Bronchitis Bursitis Calculus urinary Candidiasis Cardiac fibrillation Cardiovascular disorder Cataract Cerebral haemorrhage Chest pain Cholecystitis Cholelithiasis Cholestasis Colitis Confusional state Conjunctivitis Constipation Convulsion Coronary artery disease Cough Cystitis Cystitis noninfective Decreased appetite Deep vein thrombosis Dermatitis contact Dermatitis exfoliative Diarrhoea Discomfort Disturbance in sexual arousal Dizziness Drug interaction Dry mouth Duodenal ulcer Dysgeusia Dyspepsia Dysplasia Dyspnoea Dysuria Ear infection Ear pain Ecchymosis Eczema Electrocardiogram abnormal Embolism Eosinophilia Erectile dysfunction Eructation Erythema Extrasystoles Eye disorder Fatigue Feeling abnormal Flatulence Fungal skin infection Gamma-glutamyltransferase increased Gastritis

Gastroenteritis Gastrointestinal disorder Gastrointestinal
 pain Gout Gynaecomastia HaemoglobinHaemolysis Haemorrhage
 Haptoglobin decreased Headache Hepatic cirrhosisHepatic
 function abnormalHepatic neoplasm malignant Hepatic steatosis
 Hepatitis Hernia Herpes simplex Herpes virus infection
 Herpes zoster Hyperhidrosis Hypersensitivity Hypertonia
 Hyperuricaemia Hypoaesthesia Hypoglycaemia Hypotension
 Ill-defined disorder Increased appetite Infarction
 Infection Infertility male Influenza Insomnia Jaundice
 Jaundice cholestatic Laboratory test abnormal Laryngeal
 oedema Laryngitis Leukopenia Libido decreased Liver function
 test abnormal Loss of consciousness Lupus-like syndrome
 Lymphadenopathy Malaise Migraine Multiple hereditary
 exostosis Muscle spasms Muscular weaknessMusculoskeletal
 discomfort Myalgia Myocardial infarction Myopathy Myositis
 Nail disorder Nasopharyngitis Nausea Nervousness
 Neuralgia Neuritis Neuropathy peripheral Oedema
 Oedema peripheralOesophagitis Osteoarthritis Otitis
 media Pain Palpitations Pancytopenia Paraesthesia
 Peptic ulcer Peripheral vascular disorder Pharyngitis
 Phlebitis Photosensitivity reaction Pneumonia Pollakiuria
 Prostatic disorder Pruritus Pulmonary embolism
 Purpura Rash Rash maculo-papular Rectal haemorrhage
 Refraction disorder Renal failure Renal failure acute
 Renal impairment Respiratory disorder Retinal oedema
 Rhabdomyolysis Rhinitis Shock Sinusitis Skin disorder
 Skin ulcer Social avoidant behaviour Somnolence Syncope
 Synovitis Systemic lupus erythematosus Tachycardia
 Tenosynovitis Tension Thrombocytopenia Thrombosis Tooth
 disorder Toxic epidermal necrolysis Transaminases increased
 Ulcer Unintended pregnancy Urethral disorderUrinary tract
 disorder Urinary tract infection Urticaria Varicose vein
 Vascular purpura Vasculitis Vasodilation procedure Venous
 thrombosis Ventricular extrasystoles Vertigo Vision blurred
 Visual acuity reduced Visual impairmentVomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Weight increased

Voltage-gated potassium channel - Group: Channel

Treated with:

tetrabutylammonium ion: experimental small molecule (0
 associated side effects)
 (2s)-2-(butyryloxy)-3-hydroxypropyl nonanoate: experimental
 small molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Kappa-type opioid receptor - Group: Receptor

Treated with:

tramadol: approved small molecule (490 associated side
 effects) Indicated in the treatment of moderate to severe pain.
 Consider for those prone to constipation or respiratory depression.

Tramadol is used to treat postoperative, dental, cancer, and acute musculoskeletal pain and as an adjuvant to NSAID therapy in patients with osteoarthritis.

morphine: approved small molecule (208 associated side effects) For the relief and treatment of severe pain.

codeine: illicit,approved small molecule (43 associated side effects) For treatment and management of pain (Systemic), also used as an Antidiarrheal and as a cough suppressant.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

hydromorphone: illicit,approved small molecule (355 associated side effects) For the relief of moderate to severe pain such as that due to surgery, cancer, trauma/injury, or burns.

mirtazapine: approved small molecule (272 associated side effects) For the treatment of major depressive disorder.

meperidine: approved small molecule (50 associated side effects) Used to control moderate to severe pain.

oxycodone: illicit,approved small molecule (215 associated side effects) For the treatment of diarrhoea, pulmonary oedema and for the relief of moderate to moderately severe pain.

butorphanol: illicit,approved small molecule (122 associated side effects) For the relief of moderate to severe pain.

propoxyphene: illicit,approved small molecule (79 associated side effects) For the relief of mild to moderate pain

pentazocine: approved small molecule (51 associated side effects) For the relief of moderate to severe pain.

naltrexone: approved small molecule (238 associated side effects) Used as an adjunct to a medically supervised behaviour modification program in the maintenance of opiate cessation in individuals who were formerly physically dependent on opiates and who have successfully undergone detoxification. Also used for the management of alcohol dependence in conjunction with a behavioural modification program.

sufentanil: approved small molecule (38 associated side effects) Used as an analgesic adjunct in anesthesia and as a primary anesthetic drug in procedures requiring assisted ventilation and in the relief of pain.

fentanyl: illicit,approved small molecule (393 associated side effects) For the treatment of cancer patients with severe pain that breaks through their regular narcotic therapy.

menthol: approved small molecule (0 associated side effects) Used to treat occasional minor irritation, pain, sore mouth, and sore throat as well as cough associated with a cold or inhaled irritants.

loperamide: approved small molecule (41 associated side effects) For the control and symptomatic relief of acute nonspecific diarrhea and of chronic diarrhea associated with inflammatory bowel disease or gastroenteritis. Also used for reducing the volume of discharge from ileostomies.

nalbuphine: approved small molecule (68 associated side effects) For the relief of moderate to severe pain.

levorphanol: approved small molecule (0 associated side effects) For the management of moderate to severe pain or as a preoperative medication where an opioid analgesic is appropriate

remifentanyl: approved small molecule (134 associated side effects) For use during the induction and maintenance of general anaesthesia.

buprenorphine: illicit,approved small molecule (170 associated side effects) For the treatment of moderate to severe pain, peri-operative analgesia, and opioid dependence.

naloxone: approved small molecule (54 associated side effects) For the complete or partial reversal of narcotic depression, including respiratory depression, induced by opioids including natural and synthetic narcotics, propoxyphene, methadone and the narcotic-antagonist analgesics: nalbuphine, pentazocine and butorphanol.

dezocine: approved small molecule (0 associated side effects) Indicated in the treatment of moderate to severe pain.

3-methylthiofentanyl: illicit,experimental small molecule (0 associated side effects)

heroin: illicit,experimental small molecule (0 associated side effects) Used in the treatment of acute pain, myocardial infarction, acute pulmonary oedema, and chronic pain.

etorphine: illicit,experimental small molecule (0 associated side effects)

carfentanil: illicit,experimental small molecule (0 associated side effects) Carfentanil is similar (but more potent) to the opioid analgesic fentanyl. It is used as a tranquilizer for large animals.

diprenorphine: illicit,experimental small molecule (0 associated side effects) Diprenorphine is used to reverse the effects of the super-potent opioid analgesics such as etorphine and carfentanil that are used for tranquilizing large animals in veterinary medicine. Not used in humans.

dihydromorphine: illicit,experimental small molecule (0 associated side effects) Dihydromorphine is an opioid analgesic used for moderate to severe pain relief.

3-methylfentanyl:illicit,experimental small molecule (0 associated side effects)

alvimopan: approved small molecule (12 associated side effects) Used to accelerate the time to upper and lower gastrointestinal recovery following partial large or small bowel resection surgery with primary anastomosis. Also investigated for use in the treatment of pain (acute or chronic).

859 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain lower
 Abdominal pain upper Abdominal tenderness Abnormal
 behaviour Abnormal dreams Abnormal faeces Abortion missed
 Abscess Accommodation disorder Acidosis Acne Acute
 abdomen Acute coronary syndrome Acute myocardial infarction
 Adrenal insufficiency Affect lability Ageusia Aggression
 Agitation Agranulocytosis Akathisia Alanine
 aminotransferase decreased Alanine aminotransferase increased
 Albuminuria Alcohol abuse Alcohol poisoningAlcohol

withdrawal syndrome Alcoholism Alopecia Altered state of
consciousness Amblyopia Amenorrhoea Amnesia Amyotrophic
lateral sclerosis Anaemia Anal fissure Analgesic therapy
Anaphylactic shock Anaphylactoid reaction Aneurysm
Angina pectoris Angina unstable Angioedema Angiopathy
Anogenital dysplasia Anorectal disorder Anorgasmia
Anosmia Antinuclear antibody positive Anxiety
Aortic aneurysm Aortic dissection Apathy Aphasia
Apthous stomatitis Aplastic anaemia Apnoea
Appendicitis Appetite disorder Application site reaction
Arrhythmia Arrhythmia supraventricular Arterial occlusive
disease Arteriosclerosis Arteriosclerosis coronary artery
Arthralgia Arthritis Arthropathy Ascites Aspartate
aminotransferase increased Asphyxia Asthenia Asthma
Ataxia Atelectasis Atrial fibrillation Atrial flutter
Atrioventricular block Atrioventricular block complete
Atrioventricular block first degree Atrioventricular block
second degree Atrophy Azotaemia Back disorder Back pain
Bacterial infection Balance disorder Bedridden Benign
breast neoplasm Bezoar Biliary colic Biliary tract disorder
Bipolar I disorder Bipolar disorder Bladder pain
Bladder spasm Bleeding time prolonged Blepharitis
Blindness Blister Blood acid phosphatase increased Blood
alkaline phosphatase increased Blood amylase increased Blood
bilirubin increased Blood cholesterol increased Blood creatine
phosphokinase increased Blood creatinine increased Blood
creatinine normal Blood glucose abnormal Blood glucose increased
Blood lactate dehydrogenase increased Blood potassium
abnormal Blood potassium decreased Blood potassium increased
Blood pressure fluctuation Blood pressure increased Blood
sodium increased Blood testosterone decreased Blood triglycerides
increased Blood urea increased Blood uric acid increased Body
temperature decreased Body temperature increased Bone disorder
Bone pain Bradycardia Brain cancer metastatic Breast
cancer Breast disorder Breast engorgement Breast
enlargement Breast neoplasm Breast pain Breath odour Breath
sounds abnormal Bronchitis Bronchospasm Burning sensation
Bursitis Cachexia Cancer in remission Cancer pain
Candidiasis Carbon dioxide increased Cardiac arrest
Cardiac disorder Cardiac failure Cardiac failure congestive
Cardiac fibrillation Cardiac flutter Cardiac murmur
Cardiac output decreased Cardio-respiratory arrest
Cardiomegaly Cardiomyopathy Cardiovascular disorder
Carpal tunnel syndrome Cataract Cellulitis Cerebral artery
embolism Cerebral infarction Cerebral ischaemia
Cerebrovascular accident Cerumen impaction Change of bowel
habit Cheilitis Chest discomfort Chest pain Chills Choking
Cholangitis Cholecystitis Cholecystitis acute
Cholelithiasis Cholestasis Chronic obstructive pulmonary
disease Clonic convulsion Clonus Coagulopathy Cognitive
disorder Cold sweat Colitis Colitis ulcerative Coma
Completed suicide Compression fracture Confusional state
Conjunctivitis Connective tissue disorder Constipation
Convulsion Coordination abnormal Cough Cough decreased
Crying Crystal urine Crystalluria Cyanosis

Cystitis Cystitis noninfective Cytolytic hepatitis
 Deafness Deafness permanent Deafness transitory Death
 Decreased appetite Decubitus ulcer Deep vein thrombosis
 Deficiency anaemia Dehydration Delirium Delusion
 Dementia Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermoid
 cyst Diabetes mellitus Diarrhoea Diplopia Discomfort
 Disorientation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Diverticulum Dizziness Drug
 abuse Drug dependence Drug hypersensitivity Drug interaction Drug
 tolerance Drug withdrawal syndrome Drug withdrawal syndrome
 neonatal Dry eye Dry mouth Dry skin Dry throat Duodenitis
 Dysarthria Dyschezia Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspepsia Dysphagia Dysphonia Dysphoria Dyspnoea
 Dyspnoea exertional Dystonia Dysuria Ear congestion
 Ear discomfort Ear disorder Ear infection Ear pain
 Early satiety Ecchymosis Eczema Effusion Ejaculation
 delayed Ejaculation disorder Electrocardiogram QT prolonged
 Electrocardiogram ST segment depression Electrocardiogram
 abnormal Electrocardiogram change Electrolyte imbalance
 Embolism Emotional disorder Emotional distress
 Encephalopathy Endocarditis Endocrine disorder
 Endometrial sarcoma Energy increased Enterocolitis
 Eosinophil count increased Eosinophilia Eosinophilic
 pneumonia Epistaxis Erectile dysfunction Eructation Erysipelas
 Erythema Erythema multiforme Euphoric mood Eustachian
 tube disorder Exostosis Extrapyrarnidal disorder
 Extrasystoles Eye disorder Eye haemorrhage Eye pain
 Eye swelling Eyelid disorder Eyelid ptosis Face oedema
 Faecal incontinence Faecalith Faecaloma Faeces
 discoloured Fasciitis Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling drunk Feeling hot Feeling jittery
 Feeling of body temperature change Flank pain Flat affect
 Flatulence Fluid retention Flushing Frequent bowel
 movements Fungal infection Gait disturbance Galactorrhoea
 Gamma-glutamyltransferase increased Gastric atony
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal infection
 Gastrointestinal motility disorder Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Generalised oedema Genital discharge Gingival bleeding
 Gingival pain Gingival ulceration Gingivitis Glaucoma
 Glossitis Glossodynia Goitre Gout Grand mal convulsion
 Granuloma Groin pain Gynaecomastia HIV infection
 Haematemesis Haematochezia Haematocrit decreased
 Haematocrit increased Haematoma Haematuria Haemoglobin
 decreased Haemoglobin increased Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhoids Hair disorder Hallucination
 Hangover Headache Hearing impaired Heat rash
 Helicobacter infection Hemiplegia Hepatic cirrhosis Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic steatosis Hepatitis Hepatitis C Hepatobiliary disease
 Hepatocellular injury Hepatomegaly Hepatorenal syndrome

Hernia Herpes simplex Herpes virus infection Herpes
 zoster Hiccups High density lipoprotein decreased Hordeolum
 Hormone level abnormal Hostility Hot flush Hydronephrosis
 Hyperacusis Hyperaemia Hyperaesthesia Hypercalcaemia
 Hypercalciuria Hypercapnia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia Hyperpathia
 Hyperpyrexia Hyperreflexia Hypersensitivity
 Hypertension Hypertonia Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperventilation Hypoaesthesia
 Hypoalbuminaemia Hypocalcaemia Hypoglycaemia
 Hypogonadism Hypokalaemia Hypokinesia Hypomagnesaemia
 Hypomania Hyponatraemia Hypophosphataemia Hypopnoea
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypovolaemia
 Hypovolaemic shock Hypoxia Idiopathic thrombocytopenic
 purpura Ileus paralytic Ill-defined disorder Immune system
 disorder Impaired gastric emptying Impaired healing
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infestation Inflammation
 Influenza Influenza like illness Infusion site reaction
 Ingrowing nail Injection site haematoma Injection site
 haemorrhage Injection site pain Injection site reaction
 Injection site urticaria Insomnia Interstitial lung
 disease Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intra-uterine death Intracranial
 aneurysm Intracranial pressure increased Intraocular pressure
 increased Iron deficiency Iron deficiency anaemia
 Irritability Irritable bowel syndrome Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 crepitation Joint stiffness Joint swelling Keratitis
 Labyrinthitis Lacrimal disorder Lacrimation increased Large
 intestinal haemorrhage Large intestine perforation Laryngeal oedema
 Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lethargy Leukocytosis Leukopenia Libido
 decreased Libido increased Light anaesthesia Lip blister Lip pain
 Lip ulceration Liver function test abnormal Liver injury
 Liver tenderness Localised infection Loss of consciousness
 Low density lipoprotein increased Lung disorder
 Lymphadenitis Lymphadenopathy Lymphocyte count decreased
 Lymphocyte count increased Lymphocytosis Lymphoedema
 Lymphoma Lymphopenia Major depression Malaise Mammogram
 abnormal Mania Mediastinal disorder Megacolon Melaena
 Memory impairment Menometrorrhagia Menopausal symptoms
 Menopause Menorrhagia Menstrual disorder Menstruation
 irregular Mental disability Mental disorder Mental retardation
 Mental status changes Metabolic acidosis Metastases to
 central nervous system Metastasis Metrorrhagia Micturition
 disorder Micturition urgency Migraine Miosis Monocyte
 count increased Mood swings Mouth ulceration Mucosal inflammation
 Mucous membrane disorder Muscle contractions involuntary
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort

Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Myalgia Mydriasis Myocardial
infarction Myocardial ischaemia Myoclonus Myopathy Myositis
Nasal congestion Nasal discomfort Nasal oedema
Nasopharyngitis Nausea Neck pain Necrosis Neoplasm
Neoplasm malignant Nephrolithiasis Nervous system
disorder Nervousness Neuralgia Neuroleptic malignant syndrome
Neuropathy peripheral Neurosis Neutropenia Neutrophil count
decreased Neutrophil count increased Night sweats Nightmare
Nocturia Nodule Nuchal rigidity Nystagmus Obsessive-
compulsive disorder Obstruction Obstructive airways disorder
Oculogyric crisis Oedema peripheral Oesophageal disorder
Oesophageal stenosis Oesophagitis Oliguria Oral
candidiasis Oral herpes Oral pain Oropharyngeal discomfort
Oropharyngeal pain Orthostatic hypotension
Osteoarthritis Osteopenia Osteoporosis Osteoporotic
fracture Otitis externa Otitis media Oxygen saturation
decreased Pain in extremity Pallor Palpitations
Pancreatitis Pancreatitis acute Pancytopenia Panic
attack Panic reaction Papule Paraesthesia Paralysis
Paranoia Paresis Parosmia Parotid gland enlargement
Pathological fracture Pelvic pain Pericarditis Peripheral
coldness Peripheral ischaemia Peripheral vascular disorder
Perirectal abscess Peroneal nerve palsy Persistent
generalised lymphadenopathy Personality disorder Petechiae
Pharyngitis Pharyngitis streptococcal Phlebitis Photophobia
Photopsia Photosensitivity reaction Piloerection
Plantar fasciitis Platelet count decreased Pleural disorder
Pleural effusion Pneumonia Pneumothorax Poisoning
Pollakiuria Polyp Polyuria Poor peripheral circulation Poor
quality sleep Post procedural complication Post procedural
haemorrhage Post procedural infection Premenstrual syndrome
Presyncope Procedural pain Proctalgia Productive cough
Prolonged labour Prostatic disorder Prostatitis
Prostatomegaly Protein total decreased Protein urine
present Proteinuria Prurigo Pruritus Pruritus generalised
Pruritus genital Pseudolymphoma Psychomotor retardation
Psychotic disorder Pulmonary congestion Pulmonary
embolism Pulmonary function test decreased Pulmonary oedema
Purpura Pyelonephritis Rales Rash Rash erythematous Rash
maculo-papular Rash papular Rash pustular Rectal
haemorrhage Rectal prolapse Red blood cell count decreased Red
blood cell count increased Red blood cell sedimentation rate
increased Reflux oesophagitis Regurgitation Renal failure
Renal impairment Renal pain Respiration abnormal Respiratory
acidosis Respiratory arrest Respiratory depression Respiratory
disorder Respiratory distress Respiratory failure Respiratory
rate decreased Respiratory tract congestion Respiratory tract
infection viral Retching Retinal artery occlusion Rheumatoid
arthritis Rhinalgia Rhinitis Rhinitis allergic Rhinitis seasonal
Rhinorrhoea Rhonchi Rosacea Salivary gland enlargement
Salivary hypersecretion Scleral haemorrhage Scrotal
oedema Seasonal allergy Seborrhoeic dermatitis Sedation
Sensory loss Sepsis Sexual dysfunction Shock Sinus
congestion Sinus headache Sinus tachycardia Sinusitis Skin

discolouration Skin disorder Skin hyperpigmentation Skin
 hypertrophy Skin lesion Skin reaction Skin ulcer Sleep apnoea
 syndrome Sleep disorder Sluggishness Small intestinal
 obstruction Sneezing Somnolence Speech disorder Sputum increased
 Sticky skin Stomatitis Strabismus Stridor Stupor
 Subdural haematoma Suicidal ideation Suicide attempt
 Supraventricular tachycardia Swelling Syncope Synovial
 cyst Synovitis Systemic lupus erythematosus Tachycardia Tardive
 dyskinesia Tearfulness Tenderness Tendon disorder Tendonitis
 Tenosynovitis Tension Testicular swelling Thinking
 abnormal Thirst Thought blocking Throat irritation Throat
 tightness Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Thrombosis Thyroid neoplasm
 Tinea pedis Tinnitus Tongue discolouration Tongue disorder
 Tongue oedema Tooth abscess Tooth disorder Tooth
 impacted Tooth infection Tooth loss Toothache Torsade de
 pointes Toxic epidermal necrolysis Tracheitis Tremor
 Tumour invasion Ulcer Upper respiratory tract infection
 Upper-airway cough syndrome Urethral disorder Urethritis
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 abnormality Urine analysis abnormal Urine output increased
 Urogenital disorder Urticaria Uterine leiomyoma
 Uterovaginal prolapse VIIth nerve paralysis Vaginal cyst
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vascular headache Vascular insufficiency
 Vascular purpura Vasodilation procedure Venous thrombosis
 Ventricular arrhythmia Ventricular extrasystoles Ventricular
 fibrillation Ventricular tachycardia Vertigo Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vomiting Weight decreased Weight increased
 Wheezing White blood cell count increased Withdrawal
 syndrome Wound haemorrhage Wound infection Yawning

Voltage-dependent anion-selective channel protein 2 - Group: Channel
 Treated with:
 dihydroxyaluminium: approved small molecule (0 associated
 side effects)

known side effects mediated through drugs targeting this protein:

Glutamate receptor delta-1 subunit - Group: Channel
 Treated with:
 l-glutamic acid: approved, nutraceutical small molecule (0
 associated side effects) Considered to be nature's "Brain food"
 by improving mental capacities; helps speed the healing of ulcers;
 gives a "lift" from fatigue; helps control alcoholism, schizophrenia
 and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Sodium-dependent dopamine transporter - Group: Transporter

Treated with:

amphetamine: illicit, approved small molecule (95 associated side effects) For treatment of Attention Deficit Disorder with Hyperactivity (ADDH) and narcolepsy in children.

phentermine: illicit, approved small molecule (21 associated side effects) For the treatment and management of obesity.

benzatropine: approved small molecule (0 associated side effects) For use as an adjunct in the therapy of all forms of parkinsonism and also for use in the control of extrapyramidal disorders due to neuroleptic drugs.

venlafaxine: approved small molecule (507 associated side effects) For the management of major depressive disorder (MDD), generalized anxiety disorder (GAD), social anxiety disorder (social phobia), panic disorder with or without agoraphobia, and vasomotor symptoms in women with breast cancer and in postmenopausal women.

methylphenidate: approved small molecule (262 associated side effects) For use as an integral part of a total treatment program which typically includes other remedial measures (psychological, educational, social) for a stabilizing effect in children with a behavioral syndrome characterized by the following group of developmentally inappropriate symptoms: moderate-to-severe distractibility, short attention span, hyperactivity, emotional lability, and impulsivity.

duloxetine: approved small molecule (269 associated side effects) For the acute and maintenance treatment of major depressive disorder (MDD), as well as acute management of generalized anxiety disorder. Also used for the management of neuropathic pain associated with diabetic peripheral neuropathy, and fibromyalgia. Has been used in the management of moderate to severe stress urinary incontinence (SUI) in women.

mazindol: approved small molecule (0 associated side effects)
Used in short-term (a few weeks) treatment of exogenous obesity in conjunction with a regimen of weight reduction based on caloric restriction, exercise, and behavior modification in patients with a body mass index of 30 kg of body weight per height in meters squared (kg/m²) or in patients with a body mass index of 27 kg/m²; in the presence of risk factors such as hypertension, diabetes, or hyperlipidemia.

procaine: approved small molecule (43 associated side effects)

Used as a local anesthetic primarily in oral surgery

trimipramine: approved small molecule (0 associated side effects) For the treatment of depression and depression accompanied by anxiety, agitation or sleep disturbance

modafinil: approved small molecule (170 associated side effects) To improve wakefulness in patients with excessive daytime sleepiness (EDS) associated with narcolepsy.

phenmetrazine: illicit, approved small molecule (0 associated side effects) Used as an anorectic in the treatment of obesity.

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic

rhinitis, croup, sinusitis, otitis media, and tracheobronchitis. Also used as first-line therapy of priapism.

benzphetamine: illicit,approved small molecule (0 associated side effects) For the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction

cocaine: illicit,approved small molecule (13 associated side effects) For the introduction of local (topical) anesthesia of accessible mucous membranes of the oral, laryngeal and nasal cavities.

diethylpropion: illicit,approved small molecule (62 associated side effects) Used in the management of exogenous obesity as a short-term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction.

dopamine: approved small molecule (23 associated side effects) For the correction of hemodynamic imbalances present in the shock syndrome due to myocardial infarction, trauma, endotoxic septicemia, open-heart surgery, renal failure, and chronic cardiac decompensation as in congestive failure

sertraline: approved small molecule (319 associated side effects) For the management of major depressive disorder, posttraumatic stress disorder, obsessive-compulsive disorder, panic disorder with or without agoraphobia, premenstrual dysphoric disorder, social phobia, premature ejaculation, and vascular headaches.

sibutramine: illicit,approved,withdrawn small molecule (80 associated side effects) For the treatment of obesity.

chlorpheniramine: approved small molecule (47 associated side effects) For the treatment of rhinitis, urticaria, allergy, common cold, asthma and hay fever.

diphenylpyraline: approved small molecule (0 associated side effects) For use in the treatment of allergic rhinitis, hay fever, and allergic skin disorders.

nefazodone: approved,withdrawn small molecule (246 associated side effects) For the treatment of depression.

bupropion: approved small molecule (441 associated side effects) For the treatment of depression and as aid to smoking cessation.

chloroprocaine: approved small molecule (34 associated side effects) For the production of local anesthesia by infiltration and peripheral nerve block. They are not to be used for lumbar or caudal epidural anesthesia.

escitalopram: approved small molecule (0 associated side effects) Labeled indications include major depressive disorder (MDD) and generalized anxiety disorder (GAD). Unlabeled indications include treatment of mild dementia-associated agitation in nonpsychotic patients.

lisdexamfetamine: approved small molecule (0 associated side effects) For the treatment of Attention Deficit/Hyperactivity Disorder (ADHD) in pediatric populations aged 6 to 12 years.

ephedra: approved,withdrawn,nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

mmda: illicit,experimental small molecule (0 associated side effects) MDMA is a recreational drug. It has no current medical uses and is a Schedule I controlled substance in the USA at present.

3,4-methylenedioxymethamphetamine: illicit,experimental small molecule (0 associated side effects) Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder (PTSD) and anxiety associated with terminal cancer. MDMA is one of the four most widely used illicit drugs in the U.S.

fencamfamine: illicit,approved,withdrawn small molecule (0 associated side effects) For the the treatment of depressive fatigue in convalescence and other debilitated states as well as in the treatment of depressive day-time fatigue, lack of concentration and lethargy.

4-methoxyamphetamine: illicit,experimental small molecule (0 associated side effects)

dextroamphetamine: illicit,approved small molecule (0 associated side effects) Used to treat attention deficit hyperactivity disorder (ADHD).

nomifensine: withdrawn small molecule (0 associated side effects)

dexmethylphenidate: approved small molecule (262 associated side effects) Dexmethylphenidate is used as a treatment for ADHD, ideally in conjunction with psychological, educational, behavioral or other forms of treatment.

887 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain lower Abdominal pain upper Abdominal
 tenderness Abnormal behaviour Abnormal dreams Abscess
 Accommodation disorder Acidosis Acne Acute coronary
 syndrome Adjustment disorder Adverse reaction Affect lability
 Ageusia Aggression Agitation Agranulocytosis Akathisia
 Akinesia Alanine aminotransferase increased Albuminuria
 Alcohol abuse Alcohol intolerance Alcohol poisoning
 Alopecia Altered state of consciousness Amblyopia
 Amenorrhoea Amnesia Anaemia Anaphylactic shock
 Anaphylactoid reaction Aneurysm Anger Angina pectoris
 Angioedema Angiopathy Angle closure glaucoma Anorectal
 discomfort Anorectal disorder Anorgasmia Anuria Anxiety
 Aortic aneurysm Aortic dissection Apathy Aphasia
 Aphthous stomatitis Aplastic anaemia Apnoea
 Appendicitis Application site reaction Arachnoiditis
 Arrhythmia Arrhythmia supraventricular Arterial disorder
 Arteritis Arthralgia Arthritis Arthropathy Aspartate
 aminotransferase increased Asthenia Asthma Ataxia
 Atelectasis Atrial fibrillation Atrioventricular block
 Atrioventricular block complete Atrioventricular block first
 degree Atrophic vulvovaginitis Atrophy Attention
 deficit/hyperactivity disorder Auricular swelling Autonomic
 neuropathy Azotaemia Back pain Bacteraemia Balanitis
 Balanoposthitis Basal cell carcinoma Basophilia Benign
 neoplasm Benign neoplasm of skin Biliary colic Bipolar I
 disorder Bipolar disorder Bladder pain Bleeding time
 prolonged Blepharitis Blindness Blood alkaline phosphatase

increased Blood bilirubin increased Blood cholesterol increased
 Blood creatine phosphokinase increased Blood creatinine
 increased Blood lactate dehydrogenase increased Blood pressure
 diastolic decreased Blood pressure fluctuation Blood pressure
 increased Blood pressure systolic increased Blood prolactin
 increased Blood triglycerides increased Blood urea increased
 Blood uric acid increased Body temperature decreased Body
 temperature increased Bone disorder Bone pain Bradycardia
 Bradykinesia Breast calcifications Breast cancer
 Breast discharge Breast disorder Breast disorder female
 Breast engorgement Breast enlargement Breast pain
 Breast tenderness Breath odour Bronchitis Bronchospasm
 Bruxism Buccoglossal syndrome Bundle branch block
 Bundle branch block right Bursitis Calculus urinary
 Candidiasis Capillary fragility Cardiac arrest Cardiac
 death Cardiac disorder Cardiac failure Cardiac failure congestive
 Cardiac fibrillation Cardiac flutter Cardiac murmur
 Cardiac output decreased Cardiac valve disease Cardio-
 respiratory arrest Cardiomyopathy Cardiovascular disorder
 Carpal tunnel syndrome Cataract Catatonia Cellulitis
 Cerebral arteritis Cerebral haemorrhage Cerebral
 ischaemia Cerebrovascular accident Cerebrovascular disorder
 Cervicitis Cheilitis Chest discomfort Chest pain Chills
 Cholecystitis Cholelithiasis Choreoathetosis
 Chromatopsia Chronic obstructive pulmonary disease
 Circumoral oedema Cold sweat Colitis Colitis ulcerative
 Coma Coma hepatic Completed suicide Conduction disorder
 Confusional state Congenital anomaly Conjunctival
 haemorrhage Conjunctival oedema Conjunctivitis Conjunctivitis
 infective Connective tissue disorder Constipation Conversion
 disorder Convulsion Coordination abnormal Corneal lesion
 Coronary artery disease Cough Crocodile tears syndrome
 Crying Crystal urine Crystalluria Cyanosis
 Cystitis Cystitis noninfective Cytolytic hepatitis
 Deafness Death Decreased appetite Deep vein thrombosis
 Defaecation urgency Dehydration Delirium Delusion
 Dementia Dental caries Dependence Depersonalisation
 Depressed level of consciousness Depressed mood Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 Dermatitis atopic Dermatitis bullous Dermatitis contact
 Dermatitis exfoliative Developmental delay Diabetes mellitus
 Diarrhoea Diplopia Discomfort Disorientation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Dizziness postural
 Drug abuse Drug dependence Drug effect decreased Drug
 eruption Drug hypersensitivity Drug interaction Dry eye Dry
 mouth Dry skin Duodenal ulcer Duodenal ulcer haemorrhage
 Duodenitis Dysarthria Dysgeusia Dyskinesia Dyslexia
 Dyslipidaemia Dysmenorrhoea Dyspareunia Dyspepsia
 Dysphagia Dysphonia Dysphoria Dyspnoea Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eczema Ejaculation delayed Ejaculation
 disorder Ejaculation failure Electrocardiogram PR interval
 Electrocardiogram QRS complex Electrocardiogram abnormal
 Electrocardiogram change Electroencephalogram abnormal

Elevated mood Embolism Emotional distress Endocrine
 disorder Endometriosis Energy increased Enuresis
 Eosinophilia Epicondylitis Epidermal necrosis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema multiforme Erythema nodosum Euphoric mood
 Exophthalmos Exostosis Extrapyrmidal disorder
 Extrasystoles Eye disorder Eye haemorrhage Eye pain
 Eyelid ptosis Face oedema Faecal incontinence Fasciitis
 Fasting Fatigue Feeling abnormal Feeling cold
 Feeling drunk Feeling hot Feeling jittery Feeling of
 despair Female sexual arousal disorder Female sexual
 dysfunction Fibrocystic breast disease Flank pain Flat affect
 Flatulence Fluid retention Flushing Folliculitis Food
 allergy Frequent bowel movements Fungal infection Furuncle
 Gait disturbance Galactorrhoea Gangrene Gastric disorder
 Gastric pH decreased Gastric ulcer Gastritis Gastritis
 viral Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal ulcer Gastrooesophageal reflux disease
 Generalised oedema Genital discharge Genital rash
 Gingival bleeding Gingival hyperplasia Gingival pain
 Gingivitis Glaucoma Glossitis Glycosuria Goitre Gout
 Grand mal convulsion Granuloma Gravitational oedema
 Growth retardation Gynaecomastia Haematemesis
 Haematochezia Haematocrit decreased Haematoma Haematuria
 Haemochromatosis Haemoglobin Haemolytic anaemia Haemoptysis
 Haemorrhage Haemorrhoids Hair colour changes Hair
 texture abnormal Hallucination Hallucination, auditory
 Hallucination, tactile Hallucination, visual Hangover
 Headache Hearing impaired Heart rate irregular Heat rash
 Hepatic cirrhosis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatic necrosis Hepatic steatosis
 Hepatitis Hepatitis C Hepatitis fulminant Hepatocellular
 injury Hepatomegaly Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups High density
 lipoprotein decreased Hirsutism Homicidal ideation Hordeolum
 Hormone level abnormal Hostility Hot flush Hunger
 Hyperacusis Hyperaemia Hyperaesthesia Hyperbilirubinaemia
 Hypercalciuria Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperkalaemia
 Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hyperphosphataemia Hyperplasia Hyperprolactinaemia
 Hyperpyrexia Hyperreflexia Hypersensitivity
 Hypertension Hypertensive crisis Hyperthermia
 Hyperthyroidism Hypertonia Hypertonic bladder
 Hypertrichosis Hypertriglyceridaemia Hypertrophy
 Hyperuricaemia Hyperventilation Hypervigilance Hypaema
 Hypoaesthesia Hypocholesterolaemia Hypoglycaemia
 Hypohidrosis Hypokalaemia Hypokinesia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypotrichosis Hypouricaemia
 Hypoventilation Hypoxia Ileitis Ill-defined disorder
 Illusion Immune system disorder Impaired gastric emptying
 Impaired healing Inappropriate antidiuretic hormone secretion

Incontinence Increased appetite Increased bronchial
 secretion Increased tendency to bruise Induration Infarction
 Infection Infestation Inflammation Influenza Influenza
 like illness Infrequent bowel movements Inguinal hernia
 Initial insomnia Inner ear disorder Insomnia
 Interstitial lung disease Intestinal functional disorder
 Intestinal obstruction Intestinal perforation Intraocular
 pressure increased Irritability Irritable bowel syndrome
 Ischaemia Jaundice Joint stiffness Joint swelling
 Keratitis Keratoconjunctivitis sicca Labyrinthitis
 Lacrimation decreased Lacrimation increased Laryngeal
 disorder Laryngeal oedema Laryngitis Laryngospasm Latex
 allergy Leiomyoma Lethargy Leukocytosis Leukoderma
 Leukopenia Libido decreased Libido increased Lichenoid
 keratosis Lip dry Liver disorder Liver function test abnormal
 Liver injury Liver tenderness Local reaction Localised
 infection Loss of consciousness Loss of libido Low density
 lipoprotein increased Lung disorder Lymphadenopathy
 Lymphocytosis Macular degeneration Maculopathy Major
 depression Malaise Male sexual dysfunction Mania Mastitis
 Mediastinal disorder Melaena Memory impairment Meningism
 Menopausal symptoms Menopause Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Metrorrhagia Micturition disorder Micturition urgency
 Middle insomnia Migraine Miosis Mitral valve disease
 Mood swings Motion sickness Mouth ulceration Mucous membrane
 disorder Multiple myeloma Muscle contractions involuntary
 Muscle contracture Muscle relaxant therapy Muscle
 rigidity Muscle spasms Muscle tightness Muscle twitching
 Muscular weakness Musculoskeletal chest pain Musculoskeletal
 discomfort Musculoskeletal disorder Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Mydriasis Myocardial
 infarction Myoclonus Myopathy Nail disorder Nasal congestion
 Nasal dryness Nasopharyngitis Nausea Neck pain
 Necrosis Neoplasm malignant Nephrolithiasis Nephropathy
 Nervous system disorder Nervousness Neuralgia Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neurosis Neutropenia Night blindness Night sweats
 Nightmare Nipple pain Nocturia Nodule Nuchal rigidity
 Nystagmus Obstruction Oculogyric crisis Oedema Oedema
 mouth Oedema peripheral Oesophageal disorder Oesophageal spasm
 Oesophageal stenosis Oesophagitis Oliguria
 Onychoclasia Optic neuritis Oral candidiasis Oral pain
 Orchitis noninfective Orgasm abnormal Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Osteoarthropathy
 Osteoporosis Osteosclerosis Otitis externa Otitis
 media Ovarian cyst Ovarian disorder Pain Pain in extremity Pain
 in jaw Painful erection Pallor Palpitations
 Pancreatitis Pancytopenia Panic attack Panic
 reaction Papilloedema Papule Paraesthesia oral Paralysis
 Paranoia Paresis Parkinsonism Parosmia Parotitis
 Pathological fracture Pelvic infection Pelvic pain Penis
 disorder Peptic ulcer Periodontitis Periorbital oedema
 Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Perseveration Personality change Personality

disorder Petechiae Pharyngeal oedema Pharyngitis Pharyngitis
 streptococcal Phlebitis Photophobia Photopsia Photosensitivity
 reaction Piloerection Plantar fasciitis Plasmacytoma
 Platelet count decreased Pleurisy Pleuritic pain
 Pneumonia Poisoning Pollakiuria Polycythaemia vera Polyp
 Polyuria Premenstrual syndrome Pressure of speech
 Priapism Procedural pain Proctalgia Proctitis Prostate
 infection Prostatic disorder Prostatitis Prostatomegaly
 Prurigo Pruritus Pruritus generalised
 Pseudocholinesterase deficiency Psoriasis Psychomotor
 retardation Psychotic disorder Pulmonary arterial hypertension
 Pulmonary congestion Pulmonary embolism Pulmonary
 eosinophilia Pulmonary hypertension Purpura Pyelonephritis
 Pyuria Rash Rash erythematous Rash follicular Rash
 macular Rash maculo-papular Rash pustular Raynaud's
 phenomenon Rectal haemorrhage Rectal tenesmus Renal failure
 Renal failure acute Renal impairment Renal pain Respiration
 abnormal Respiratory arrest Respiratory disorder Respiratory
 failure Respiratory rate decreased Respiratory tract congestion
 Respiratory tract infection Restless legs syndrome Retinal
 detachment Retinal haemorrhage Retinitis pigmentosa Reversible
 ischaemic neurological deficit Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis seasonal Rhinorrhoea Salivary gland
 enlargement Salivary hypersecretion Salpingitis Scab
 Schizophrenia Sciatica Scleritis Scotoma Seasonal
 allergy Sebaceous gland disorder Seborrhoeic dermatitis
 Sedation Sensation of heaviness Sensitisation Sensory
 disturbance Serum sickness Sexual dysfunction Shock Sicca
 syndrome Sinus arrhythmia Sinus bradycardia Sinus congestion Sinus
 disorder Sinus headache Sinusitis Skin atrophy Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin irritation Skin odour
 abnormal Skin striae Skin ulcer Sleep apnoea syndrome Sleep
 disorder Sluggishness Sneezing Snoring Social avoidant
 behaviour Somnambulism Somnolence Speech disorder Sputum
 increased Stevens-Johnson syndrome Sticky skin Stomatitis
 Strangury Stress Stridor Stupor Sudden cardiac
 death Sudden death Suicidal behaviour Suicide attempt
 Supraventricular tachycardia Swelling Swelling face
 Syncope Systemic lupus erythematosus Tachycardia Tardive
 dyskinesia Tearfulness Tenderness Tendinous contracture Tendon
 disorder Tendonitis Tenosynovitis Tension Tension headache
 Terminal insomnia Testicular pain Testicular swelling
 Therapeutic response decreased Thinking abnormal Thirst
 Throat irritation Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Thyroiditis Tic Tinea infection
 Tinea pedis Tinnitus Tobacco user Tongue discolouration
 Tongue disorder Tongue oedema Tongue ulceration Tonsillitis
 Tooth abscess Tooth disorder Tooth infection Toothache
 Torsade de pointes Torticollis Toxic epidermal necrolysis
 Tremor Trichotillomania Trismus Type IV
 hypersensitivity reaction Ulcer Ulcer haemorrhage Unintended
 pregnancy Upper respiratory tract infection Urethral disorder
 Urethral pain Urinary hesitation Urinary incontinence

Urinary retention Urinary tract disorder Urinary tract
infection Urine abnormality Urine analysis abnormal Urine flow
decreased Urine odour abnormal Urine output increased Urticaria
Uterine haemorrhage Uterine leiomyoma Uterine spasm
Uterovaginal prolapse Uveitis VIIth nerve paralysis
Vaginal haemorrhage Vaginal infection Vaginal inflammation
Vaginitis bacterial Varicose vein Vascular purpura
Vasculitis Vasculitis necrotising Vasoconstriction
Vasodilation procedure Venous insufficiency Venous thrombosis
Ventricular arrhythmia Ventricular extrasystoles Ventricular
fibrillation Ventricular tachycardia Vertigo Viral
diarrhoea Viral infection Vision blurred Visual acuity reduced
Visual impairment Vitreous disorder Vitreous floaters Vocal cord
disorder Vomiting Vulvovaginal discomfort Vulvovaginal
dryness Weight decreased Weight increased Wheezing White blood
cell count abnormal White blood cell count increased Withdrawal
syndrome Wound infection Xerophthalmia Yawning

Gamma-aminobutyric acid receptor subunit rho-3 - Group: Channel

Treated with:

- lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.
- temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).
- clobazam: illicit, approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.
- alprazolam: illicit, approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.
- chlordiazepoxide: illicit, approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.
- adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.
- clorazepate: illicit, approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.
- midazolam: illicit, approved small molecule (119 associated side effects) For use as a sedative perioperatively.
- flurazepam: illicit, approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits
- halazepam: illicit, approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.
- diazepam: illicit, approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a

hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects)

For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam: illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

prazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit,approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects)

Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort	Abdominal distension	Abdominal pain		
Abnormal dreams	Abnormal faeces	Acidosis	Acne	Affect
labiality	Ageusia	Aggression	Agitation	Agranulocytosis
Akathisia	Akinesia	Alcohol poisoning	Alopecia	Altered
state of consciousness	Amblyopia	Amnesia	Anaemia	
Anaphylactic shock	Anaphylactoid reaction	Anger	Angioedema	
Angiopathy	Anorectal discomfort	Anorectal disorder		
Anterograde amnesia	Anxiety	Aortic dissection	Apathy	
Aphonia	Apnoea	Appetite disorder	Arrhythmia	Arterial
spasm	Arthralgia	Arthritis	Aspartate aminotransferase	increased
Aspiration	Asthenia	Asthma	Ataxia	Athetosis
Atrioventricular block	Back pain	Balance disorder	Bladder	
dysfunction	Bladder pain	Blindness	Blood alkaline phosphatase	
increased	Blood bilirubin increased	Blood disorder	Blood	

glucose decreased Blood thromboplastin decreased Body temperature
 decreased Body temperature increased Borderline personality
 disorder Bradycardia Bradyphrenia Brain oedema Breast
 disorder Breast pain Breast swelling Bronchitis Bronchospasm
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Chest discomfort Chest pain Chills Choking sensation
 Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Coma Completed suicide
 Confusional state Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Dehydration
 Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enterocolitis Enuresis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Euphoric mood
 Extrapyrimal disorder Extrasystoles Eye disorder
 Eye irritation Eye movement disorder Eye pain Eye
 swelling Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion

Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliiasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated

Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Gram positive bacteria cell membranes - Group: Other

Treated with:

daptomycin: approved biotech (0 associated side effects) For
 the treatment of complicated skin and skin structure infections
 caused by susceptible strains of Gram-positive microorganisms.

known side effects mediated through drugs targeting this protein:

Excitatory amino acid transporter 5 - Group: Transporter

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
 associated side effects) Considered to be nature's "Brain food"
 by improving mental capacities; helps speed the healing of ulcers;
 gives a "lift" from fatigue; helps control alcoholism, schizophrenia
 and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Amiloride-sensitive sodium channel subunit delta - Group: Channel

Treated with:

triamterene: approved small molecule (25 associated side
 effects) For the treatment of edema associated with congestive
 heart failure, cirrhosis of the liver, and the nephrotic syndrome;
 also in steroid-induced edema, idiopathic edema, and edema due to
 secondary hyperaldosteronism.

amiloride: approved small molecule (85 associated side effects)

For use as adjunctive treatment with thiazide diuretics or
 other kaliuretic-diuretic agents in congestive heart failure or
 hypertension.

98 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agitation Alopecia
 Anaemia Anaemia megaloblastic Anaphylactic shock
 Angina pectoris Aplastic anaemia Arthralgia Asthenia
 Atrioventricular block Atrioventricular block complete
 Azotaemia Back pain Bladder pain Bladder spasm Blood

potassium increased Blood urea increased Bradycardia Chest pain
Coma Confusional state Constipation Cough Decreased
appetite Dehydration Dermatitis Diarrhoea Disturbance in sexual
arousal Dizziness Dry mouth Dyspepsia Dyspnoea Dysuria
Encephalopathy Erectile dysfunction Fatigue Feeling
abnormal Flatulence Foetor hepaticus Gastrointestinal haemorrhage
Gastrointestinal pain Gynaecomastia Haemoglobin Haemorrhage
Headache Hepatic encephalopathy Hepatic function abnormal
Hepatocellular injury Hyperkalaemia Hyperkinesia
Hypersensitivity Hypokalaemia Hyponatraemia Hypotension
Insomnia Intraocular pressure increased Jaundice
Libido decreased Liver disorder Muscle spasms Muscular
weakness Musculoskeletal discomfort Nasal congestion Nausea
Neck pain Nephritis Nephrolithiasis Nervousness Neutropenia
Oral pruritus Orthostatic hypotension Pain Pain in
extremity Palpitations Paraesthesia Paralysis flaccid
Peptic ulcer Photosensitivity reaction Pollakiuria
Polyuria Pruritus Rash Renal failure acute Shock
Somnolence Tension Thirst Thrombocytopenia Tinnitus
Tremor Tubulointerstitial nephritis Ulcer Urine output
increased Vertigo Visual impairment Vomiting

G protein-activated inward rectifier potassium channel 4 - Group:
Channel

Treated with:

glyburide: approved small molecule (52 associated side effects)
Indicated as an adjunct to diet to lower the blood glucose in
patients with NIDDM whose hyperglycemia cannot be satisfactorily
controlled by diet alone.

52 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Agranulocytosis Anaemia
Angioedema Aplastic anaemia Arthralgia Asthenia Cholestasis
Diarrhoea Dyspepsia Dyspnoea Erythema Erythropenia
Gastrointestinal disorder Gastrointestinal pain Haemolytic
anaemia Hepatic failure Hepatic function abnormal Hepatitis
Hypersensitivity Hyponatraemia Hypopituitarism Hypotension
Inappropriate antidiuretic hormone secretion Jaundice
Jaundice cholestatic Leukocytoclastic vasculitis Leukopenia
Liver disorder Malnutrition Musculoskeletal discomfort
Myalgia Nausea Nephropathy Nervous system disorder
Pain Pancytopenia Photosensitivity reaction Porphyria
Porphyria non-acute Pruritus Purpura Rash Shock
Thrombocytopenia Urticaria Vascular purpura Vasculitis
Vision blurred Visual impairment Vomiting

Glutamate [NMDA] receptor subunit epsilon-3 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
associated side effects) Considered to be nature's "Brain food"
by improving mental capacities; helps speed the healing of ulcers;
gives a "lift" from fatigue; helps control alcoholism, schizophrenia
and the craving for sugar.

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

meperidine: approved small molecule (50 associated side effects)
Used to control moderate to severe pain.

tenocyclidine: illicit, experimental small molecule (0 associated side effects) Because of its high affinity for the phencyclidine binding site on the NMDA receptor, the 3H radiolabelled form of tenocyclidine is widely used in research into NMDA receptors.

76 known side effects mediated through drugs targeting this protein:
Acidosis Affect lability Agitation Anaphylactic shock
Angina pectoris Asthenia Back pain Blindness Blindness
transient Bradycardia Cardiac arrest Chills Coma Confusional
state Constipation Convulsion Coordination abnormal Dehydration
Delirium Dermatitis Diarrhoea Disorientation Dizziness
Dry mouth Dyskinesia Dysphoria Electrolyte imbalance
Encephalopathy Euphoric mood Feeling abnormal Fluid
overload Flushing Hallucination Headache Hyperammonaemia
Hyperhidrosis Hyperkinesia Hypersensitivity
Hyponatraemia Hypotension Induration Injection site pain
Loss of consciousness Lung disorder Mood swings Muscle
spasms Muscle twitching Myoclonus Nausea Oedema Pain
Palpitations Paralysis Phlebitis Polyuria Pruritus
Pulmonary congestion Pulmonary function test decreased Rash
Respiratory arrest Respiratory depression Respiratory tract
congestion Rhinitis Salivary hypersecretion Sedation Shock
Syncope Tachycardia Thirst Thrombophlebitis Tremor
Urinary retention Urticaria Vertigo Visual impairment
Vomiting

Transient receptor potential cation channel subfamily M member 8 -
Group: Channel

Treated with:

menthol: approved small molecule (0 associated side effects)
Used to treat occasional minor irritation, pain, sore mouth,
and sore throat as well as cough associated with a cold or inhaled
irritants.

known side effects mediated through drugs targeting this protein:

Insulin-like growth factor 1 receptor - Group: Enzyme

Treated with:

insulin recombinant: approved biotech (0 associated side effects)
For treatment of Type I and II diabetes mellitus.

insulin lispro: approved biotech (49 associated side effects)
For the treatment of Type 1 or 2 diabetes mellitus. To be used
in conjunction with an intermediate or long-acting insulin except
when used in a continuous insulin infusion pump.

insulin glargine:approved biotech (54 associated side effects)

For the treatment of Type 1 or 2 diabetes mellitus in patients over 17 years old who require a long-acting (basal) insulin for the control of hyperglycemia. May be used in pediatric patients with Type 1 diabetes mellitus who require a long-acting (basal) insulin for glycemic control.

insulin, porcine:approved biotech (0 associated side effects)

For the treatment of type I and II diabetes mellitus.

mecasermin:approved biotech (0 associated side effects) For the long-term treatment of growth failure in pediatric patients with Primary IGF1 deficiency or with GH gene deletion who have developed neutralizing antibodies to GH. It is not indicated to treat Secondary IGF1 deficiency resulting from GH deficiency, malnutrition, hypothyroidism or other causes; it is not a substitute for GH therapy.

alpha-d-mannose: experimental small molecule (0 associated side effects)

phosphoaminophosphonic acid-adenylate ester: experimental small molecule (0 associated side effects)

(4z)-6-bromo-4-({[4-(pyrrolidin-1-ylmethyl)phenyl]amino}methylidene)isoquinoline-1,3(2h,4h)-dione: experimental small molecule (0 associated side effects)

3-[5-(1h-imidazol-1-yl)-7-methyl-1h-benzimidazol-2-yl]-4-[(pyridin-2-ylmethyl)amino]pyridin-2(1h)-one: experimental small molecule (0 associated side effects)

71 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Angioedema Angiopathy
Arthralgia Asthenia Back pain Body temperature increased
Bronchitis Bronchospasm Cataract Coma Cough Death
Dermatitis Diabetic retinopathy Diarrhoea Disease
progression Drug hypersensitivity Dysmenorrhoea Dyspnoea
Erythema Gastrointestinal pain Glycosuria Headache
Hyperhidrosis Hypernatraemia Hypersensitivity
Hypertension Hypertrophy Hypoglycaemia Hypokalaemia
Hypotension Infection Inflammation Influenza Infusion
site reaction Injection site pain Injection site reaction
Lipoatrophy Lipodystrophy acquired Lipohypertrophy Loss of
consciousness Musculoskeletal discomfort Myalgia Nausea
Neuropathy peripheral Normal pressure hydrocephalus
Obstruction Oedema Oedema peripheral Pain Pain in extremity
Pharyngitis Polyarteritis nodosa Pruritus Rash Refraction
disorder Respiratory tract infection Retinal disorder Retinal
vascular disorder Rhinitis Shock Sinusitis Swelling Tachycardia
Upper respiratory tract infection Urinary tract infection
Urticaria Weight increased Wheezing

Metabotropic glutamate receptor 5 - Group: Receptor

Treated with:

acamprosate: approved small molecule (212 associated side effects) For the maintenance of abstinence from alcohol in patients with alcohol dependence who are abstinent at treatment initiation

212 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain Abnormal dreams Abscess
Acne Acute coronary syndrome Agitation Alanine
aminotransferase increased Alcoholism Alopecia Amblyopia
Amnesia Anaemia Angina pectoris Anxiety Apathy
Arterial occlusive disease Arthralgia Arthritis Ascites
Aspartate aminotransferase increased Asthenia Asthma
Back pain Blindness Blister Blood alkaline phosphatase
increased Blood creatinine increased Blood lactate dehydrogenase
increased Blood uric acid increased Body temperature increased
Bronchitis Cardiac failure Cardiomyopathy Chest pain
Chills Cholecystitis Colitis Completed suicide
Confusional stateConstipation Convulsion Cough Deafness
Death Decreased appetite Deep vein thrombosis
DepersonalisationDermatitis Dermatitis bullous Dermatitis
exfoliativeDiabetes mellitusDiarrhoea Diplopia Discomfort
Disturbance in sexual arousal Dizziness Dry mouth Dry
skin Duodenal ulcer Dysgeusia Dyspepsia Dysphagia Dyspnoea
Ecchymosis Eczema Ejaculation disorder Embolism
Encephalopathy Endophthalmitis Eosinophilia Epistaxis
Erectile dysfunction Eructation Face oedemaFeeling abnormal
Flat affectFlatulence Gastric disorder Gastric ulcer
Gastritis Gastroenteritis Gastrointestinal haemorrhage
Gastrointestinal pain Goitre Gout Haematemesis
Haematuria Haemoglobin Haemorrhage Hallucination Headache
Hepatic cirrhosisHepatic neoplasm malignant Hepatitis
Hernia Hostility Hyperbilirubinaemia Hyperglycaemia
Hyperhidrosis Hyperkinesia Hypersensitivity
Hypertension Hyperuricaemia Hypoaesthesia
Hyponatraemia Hypotension Hypothyroidism Hypovitaminosis
Ill-defined disorder Incontinence Increased appetite
Infarction Infection Influenza Insomnia Laryngospasm
Leukopenia Libido decreased Libido increased Liver function
test abnormal Loss of consciousness Lymphadenopathy
Lymphocytosis Malaise Mania Melaena Menorrhagia
Mental disabilityMesenteric occlusion Metrorrhagia
Micturition urgency Migraine Monocytosis Mouth ulceration
Muscle spasms Muscle twitching Musculoskeletal discomfort
Myalgia Myocardial infarction Myopathy Nausea Neck
pain Neoplasm malignant Nephrolithiasis Nervousness Neuralgia
Neurosis Nocturia Oedema Oedema peripheral
Oesophagitis Orthostatic hypotension Pain
Palpitations Pancreatitis Panophthalmitis
Paraesthesia Paranoia Pharyngitis Phlebitis Photophobia
Photosensitivity reaction Pneumonia Pollakiuria Polyuria
Pruritus Psoriasis Psychotic disorder Pulmonary
embolism Rash Rash maculo-papular Rash pustular Rectal
haemorrhage Renal failure Renal failure acute Rheumatoid
arthritis Rhinitis Salivary hypersecretion Sexual
dysfunction Shock Somnolence Stomatitis Sudden death Suicidal
ideation Suicide attempt Syncope Tachycardia Tension
Thinking abnormalThirst Thrombocytopenia Thrombophlebitis
Tinnitus Torticollis Tremor Ulcer Urinary incontinence
Urinary tract infection Urine output increased Urticaria

Vaginal infection Vaginal inflammation Varicose vein
Vasodilation procedure Vertigo Visual acuity reduced
Visual impairment Vomiting Weight decreased Weight increased
Withdrawal syndrome

Glutamate [NMDA] receptor subunit epsilon-1 - Group: Channel

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

meperidine: approved small molecule (50 associated side effects)
Used to control moderate to severe pain.

felbamate: approved small molecule (249 associated side effects) For use only in those patients who respond inadequately to alternative treatments and whose epilepsy is so severe that a substantial risk of aplastic anemia and/or liver failure is deemed acceptable in light of the benefits conferred by its use.

memantine: approved small molecule (250 associated side effects) For the treatment of moderate to severe dementia of the Alzheimer's type.

halothane: approved small molecule (10 associated side effects)
For the induction and maintenance of general anesthesia

tenocyclidine: illicit, experimental small molecule (0 associated side effects) Because of its high affinity for the phencyclidine binding site on the NMDA receptor, the 3H radiolabelled form of tenocyclidine is widely used in research into NMDA receptors.

396 known side effects mediated through drugs targeting this protein:

Abdominal pain Acidosis Acne Acute coronary syndrome Acute leukaemia Affect lability Aggression Agitation Agranulocytosis Alanine aminotransferase increased Alopecia Altered state of consciousness Amnesia Anaemia Anaphylactic shock Anaphylactoid reaction Anencephaly Angina pectoris Angiopathy Antinuclear antibody positive Anxiety Aortic dissection Apathy Aphasia Apnoea Arrhythmia Arrhythmia supraventricular Arthralgia Aspartate aminotransferase increased Aspiration Asthenia Asthma Ataxia Atrial fibrillation Atrioventricular block Azotaemia Back pain Blepharitis Blindness Blindness transient Blood alkaline phosphatase increased Blood creatinine increased Blood lactate dehydrogenase increased Body temperature decreased Body temperature increased Bradycardia Brain oedema Bronchitis Cardiac arrest Cardiac disorder Cardiac failure Cardiac fibrillation Carpal tunnel syndrome Cataract Cellulitis Cerebral haemorrhage Cerebral infarction Cerebrovascular accident Cerebrovascular disorder Chest pain Chills

Cholelithiasis Choreoathetosis Coagulopathy Colitis
 Coma Completed suicide Confusional state Congenital anomaly
 Congenital genital malformation Conjunctival haemorrhage
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coordination abnormal Corneal opacity Cough
 Crocodile tears syndrome Crying Deafness Death
 Decreased appetite Deep vein thrombosis Dehydration
 Delirium Delusion Depersonalisation Depressed level of
 consciousness Dermatitis Dermatitis bullous Developmental
 delay Diabetes mellitus Diarrhoea Diplopia Discomfort
 Disorientation Disseminated intravascular coagulation
 Dissociation Disturbance in attention Disturbance in
 sexual arousal Diverticulitis Dizziness Drug interaction Dry
 mouth Dysarthria Dysgeusia Dyskinesia Dyspepsia Dysphagia
 Dysphoria Dyspnoea Dystonia Dysuria Ear infection
 Eczema Effusion Electrocardiogram QT prolonged
 Electrocardiogram change Electrolyte imbalance Embolism
 Encephalocele Encephalopathy Endocrine disorder
 Eritis Eosinophilia Epistaxis Erectile dysfunction
 Erythema multiforme Euphoric mood Extrapyrmidal
 disorder Eye pain Eyelid ptosis Face oedema Faecal
 incontinence Fatigue Feeling abnormal Flat affect Flatulence
 Fluid overload Flushing Foetal disorder Gait disturbance
 Gangrene Gastric dilatation Gastric ulcer Gastritis
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrooesophageal reflux disease
 Gingival bleeding Glaucoma Glossitis Grand mal convulsion
 Haematemesis Haematuria Haemoglobin Haemolytic anaemia
 Haemolytic uraemic syndrome Haemoptysis Haemorrhage Haemorrhage
 intracranial Hallucination Headache Hearing impaired
 Hemianopia Hemiplegia Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatitis Hepatitis cholestatic
 Hepatobiliary disease Hepatorenal syndrome Hiccups
 Hormone level abnormal Hyperammonaemia Hyperglycaemia
 Hyperhidrosis Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperpyrexia Hypersensitivity
 Hypertension Hypertonia Hypoaesthesia Hypocalcaemia
 Hypochromic anaemia Hypoglycaemia Hypokalaemia
 Hypokinesia Hypomagnesaemia Hyponatraemia Hypophosphataemia
 Hypotension Hypothermia Hypoxia Ileus Ill-defined disorder
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Induration Infarction Infection
 Infestation Influenza Injection site pain Insomnia
 Intermittent claudication International normalised ratio
 increased Intestinal obstruction Intra-uterine death
 Irritability Ischaemia Jaundice Lacrimation increased
 Lethargy Leukaemia Leukocytosis Leukopenia Libido
 increased Lichen planus Livedo reticularis Lividity Loss
 of consciousness Lung disorder Lymphadenopathy Lymphoma
 Lymphoproliferative disorder Macular degeneration Macule
 Malaise Mania Mean cell volume Mean cell volume increased
 Mediastinal disorder Megacolon Melaena Menstrual
 disorder Mental disability Mental disorder due to a general
 medical condition Microcephaly Migraine Miosis
 Mononeuritis Mood swings Mouth ulceration Mucous membrane

disorder Muscle contractions involuntary Muscle spasms
 Muscle spasticityMuscle twitching Muscular weakness
 Musculoskeletal discomfort Myalgia Myeloid leukaemia
 Myocardial infarction Myoclonus Myopia Nasopharyngitis
 Nausea Necrosis Necrosis ischaemic Neoplasm
 Nephrotic syndrome Nervous system disorder Nervousness
 Neuralgia Neuroleptic malignant syndrome Neuropathy
 peripheral Neurosis Neutropenia Nightmare Nystagmus Obstruction
 Oedema Oedema mucosal Oedema peripheralOesophageal
 disorder Oesophageal ulcerOesophagitis Orthostatic
 hypotension Osteoarthritis Osteonecrosis Otitis media Pain
 Pain in extremityPalpitations Pancreatitis
 Pancreatitis acute Pancytopenia Paraesthesia
 Paralysis Paranoia Peripheral ischaemia Personality
 disorder Pharyngitis Phlebitis Photosensitivity allergic reaction
 Photosensitivity reaction Placental disorder Platelet
 disorder Pleural disorder Pleural effusion Pneumonia Pneumonia
 aspiration Polyuria Prothrombin time shortened Pruritus
 Psychotic disorder Pulmonary congestion Pulmonary
 embolism Pulmonary function test decreased Pulmonary haemorrhage
 Pulmonary oedema Purpura Rash Rash erythematousRash
 papular Rectal haemorrhage Renal failure acute Renal
 function test abnormal Renal impairment Respiratory arrest
 Respiratory depression Respiratory failure Respiratory tract
 congestion Respiratory tract infection Retinal detachment
 Retinal haemorrhage Rhabdomyolysis Rhinitis Salivary
 hypersecretion Sedation Sepsis Shock Sinusitis Skin
 disorder Skin odour abnormal Skin ulcer Sleep disorder
 Somnolence Status epilepticus Stevens-Johnson syndrome
 Stomach dilation procedure Stomatitis Stupor Sudden
 death Sudden infant death syndrome Suicidal ideationSuicide attempt
 Supraventricular tachycardia Swelling Syncope Tachycardia
 Tardive dyskinesia Tension Thinking abnormalThirst
 Thrombocytopenia Thrombocytopenic purpura Thrombophlebitis
 Thrombosis Thrombotic thrombocytopenic purpura Tinnitus
 Torsade de pointes Toxic epidermal necrolysis Transient
 ischaemic attack Tremor Ulcer Upper respiratory tract infection
 Urethral disorderUrinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urticaria
 Uterovaginal prolapse Vaginal haemorrhage Vascular dementia
 Vascular purpura Vasculitis Venous thrombosisVertigo
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased X-linked
 lymphoproliferative syndrome Xerophthalmia

Voltage-dependent L-type calcium channel subunit alpha-1S - Group:
 Channel

Treated with:

isradipine: approved small molecule (0 associated side effects)
 For the management of mild to moderate essential hypertension.
 It may be used alone or concurrently with thiazide-type diuretics.
 amlodipine: approved small molecule (136 associated side
 effects) For the treatment of hypertension and chronic stable
 angina.

nimodipine: approved small molecule (47 associated side effects)
For use as an adjunct to improve neurologic outcome following subarachnoid hemorrhage (SAH) from ruptured intracranial berry aneurysms by reducing the incidence and severity of ischemic deficits.

nisoldipine: approved small molecule (161 associated side effects) For the treatment of hypertension. It may be used alone or in combination with other antihypertensive agents.

cinnarizine: approved small molecule (0 associated side effects) For the treatment of vertigo/meniere's disease, nausea and vomiting, motion sickness and also useful for vestibular symptoms of other origins.

magnesium sulfate: approved small molecule (0 associated side effects) Used for immediate control of life-threatening convulsions in the treatment of severe toxemias (pre-eclampsia and eclampsia) of pregnancy and in the treatment of acute nephritis in children. Also indicated for replacement therapy in magnesium deficiency, especially in acute hypomagnesemia accompanied by signs of tetany similar to those of hypocalcemia. Also used in uterine tetany as a myometrial relaxant.

verapamil: approved small molecule (113 associated side effects) For the treatment of hypertension, angina, and cluster headache prophylaxis.

felodipine: approved small molecule (96 associated side effects)
For the treatment of mild to moderate essential hypertension.

nitrendipine: approved small molecule (0 associated side effects) For the treatment of mild to moderate hypertension

nifedipine: approved small molecule (217 associated side effects) For the management of vasospastic angina, chronic stable angina, hypertension, and Raynaud's phenomenon. May be used as a first line agent for left ventricular hypertrophy and isolated systolic hypertension (long-acting agents).

mibefradil: withdrawn small molecule (0 associated side effects)
For the treatment of angina and high blood pressure.

nilvadipine: approved small molecule (0 associated side effects) For the management of vasospastic angina, chronic stable angina and hypertension.

353 known side effects mediated through drugs targeting this protein:

Abdominal discomfort	Abdominal pain	Abnormal dreams
Accommodation disorder	Acidosis	Acne
Acute coronary syndrome	Acute generalised exanthematous pustulosis	Affect
labiality	Agitation	Alanine aminotransferase increased
Alopecia	Amblyopia	Amnesia
Anaemia	Anaphylactic shock	Angina pectoris
Angioedema	Angiopathy	Anxiety
Anxiety	disorder	Apathy
Arrhythmia	Arthralgia	Arthritis
Arthropathy	Asthma	Asthenia
Ataxia	Atrial fibrillation	Atrioventricular block complete
Atrioventricular block first degree	Atrioventricular dissociation	Back pain
Balance disorder	Bezoar	Blepharitis
Blindness	Blindness transient	Blister
Blood alkaline phosphatase increased	Blood lactate dehydrogenase increased	Blood pressure increased
Blood prolactin increased	Blood urea increased	Blood uric acid
Body temperature increased	Bradycardia	Breast engorgement
Breast pain		

Bronchitis Bronchospasm Cardiac arrest Cardiac disorder
 Cardiac failure congestive Cardiac fibrillation Cardiac
 murmur Cardiogenic shock Cardiomyopathy Cellulitis Cerebral
 ischaemia Cerebrovascular accident Chest discomfort Chest pain
 Chills Cholestasis Chronic obstructive pulmonary disease
 Cold sweat Colitis Coma Confusional state Conjunctivitis
 Constipation Convulsion Coombs direct test positive Cough
 Crocodile tears syndrome Decreased appetite Deep vein
 thrombosis Depersonalisation Depressive symptom Dermatitis
 Dermatitis bullous Dermatitis exfoliative Diabetes mellitus
 Diarrhoea Diplopia Discomfort Disseminated intravascular
 coagulation Dissociation Disturbance in attention Disturbance
 in sexual arousal Dizziness postural Dry mouth Dry skin
 Dysgeusia Dyspepsia Dysphagia Dyspnoea Dysuria Ear
 infection Ear pain Ecchymosis Effusion Electrocardiogram
 abnormal Eosinophilia Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Erythema nodosum
 Erythromelalgia Extrapyrarnidal disorder Extrasystoles
 Eye disorder Eye haemorrhage Eye pain Eye pruritus
 Face oedema Fasting Fatigue Feeling abnormal Feeling
 cold Feeling hot Feeling jittery Flat affect Flatulence Fluid
 retention Flushing Fungal skin infection Galactorrhoea
 Gamma-glutamyltransferase increased Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal obstruction Gastrointestinal pain
 Gastrointestinal tract irritation Gastrooesophageal reflux
 disease Gingival bleeding Gingival disorder Gingival hyperplasia
 Glaucoma Glomerulonephritis membranous Glossitis Gout
 Gynaecomastia Haematoma Haematuria Haemoglobin Haemolysis
 Haemolytic anaemia Haemorrhage Headache Hepatic enzyme
 increased Hepatic function abnormal Hepatitis Hepatitis
 cholestatic Hepatomegaly Herpes simplex Herpes virus infection
 Herpes zoster Hot flush Hyperaemia Hyperglycaemia
 Hyperhidrosis Hyperkeratosis Hyperkinesia Hyperplasia
 Hyperprolactinaemia Hypersensitivity Hypertension
 Hypertonia Hypertrophic cardiomyopathy Hypertrophy
 Hypoaesthesia Hypokalaemia Hyponatraemia Hypotension
 Hypoxia Ileus paralytic Ill-defined disorder
 Incontinence Increased appetite Infarction Infection
 Inflammation Influenza Insomnia Intermittent
 claudication Irritability Ischaemia Jaundice Joint
 stiffness Joint swelling Keratitis Laboratory test abnormal
 Lacrimation increased Laryngitis Laryngospasm Lethargy
 Leukocytoclastic vasculitis Leukopenia Libido decreased Liver
 function test abnormal Loss of consciousness Lung disorder
 Lymphadenopathy Macule Malaise Melaena Menopausal
 symptoms Menstrual disorder Mental disability Metabolic
 acidosis Micturition disorder Micturition urgency Migraine
 Mood swings Mouth ulceration Muscle fatigue Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Myocardial ischaemia Myositis Nasal congestion
 Nasopharyngitis Nausea Neck pain Nephrolithiasis
 Nervousness Neuropathy peripheral Nightmare Nocturia
 Nystagmus Obstruction Obstructive airways disorder Oedema

Oedema peripheral Oesophagitis Oligomenorrhoea Oliguria
 Oropharyngeal discomfort Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Palpitations Pancreatitis Paraesthesia Paralysis
 Paranoia Parosmia Pelvic pain Periorbital oedema
 Peripheral ischaemia Peripheral vascular disorder Petechiae
 Pharyngitis Phlebitis Photosensitivity reaction Platelet
 count decreased Pleural disorder Pleural effusion Poisoning
 Pollakiuria Polyuria Pruritus Psychotic disorder
 Pulmonary congestion Pulmonary oedema Purpura
 Quadripareisis Rales Rash Rash erythematous Rash maculo-
 papular Rash pustular Regurgitation Renal failure Renal
 failure chronic Renal impairment Respiratory disorder Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Retinal detachment Rhinitis Rhinorrhoea Salivary gland
 enlargement Sensory loss Sexual dysfunction Shock Sinus
 arrest Sinusitis Skin discolouration Skin ulcer Sleep
 disorder Sneezing Somnolence Sticky skin Stomatitis Stridor
 Supraventricular tachycardia Syncope Tachycardia Tenderness
 Tenosynovitis Tension Thinking abnormal Thirst
 Thrombocytopenia Thrombosis Thyroiditis Tinnitus Toxic
 epidermal necrolysis Tremor Ulcer Upper respiratory tract
 infection Urinary incontinence Urine output increased Urogenital
 disorder Urticaria Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vascular purpura Vasculitis
 Vasodilation procedure Vasospasm Venous insufficiency
 Venous thrombosis Ventricular arrhythmia Ventricular
 extrasystoles Ventricular tachycardia Vertigo Vision
 blurred Visual acuity reduced Visual impairment Vitreous floaters
 Vomiting Weight decreased Weight increased Wheezing
 Xerophthalmia

Prostaglandin E2 receptor, EP2 subtype - Group: Receptor

Treated with:

alprostadil: approved small molecule (0 associated side
 effects) For palliative, not definitive, therapy to temporarily
 maintain the patency of the ductus arteriosus until corrective or
 palliative surgery can be performed in neonates who have congenital
 heart defects and who depend upon the patent ductus for survival.
 Also for the treatment of erectile dysfunction due to neurogenic,
 vasculogenic, psychogenic, or mixed etiology.

dinoprostone: approved small molecule (0 associated side
 effects) For the termination of pregnancy during the second
 trimester (from the 12th through the 20th gestational week as
 calculated from the first day of the last normal menstrual period),
 as well as for evacuation of the uterine contents in the management
 of missed abortion or intrauterine fetal death up to 28 weeks of
 gestational age as calculated from the first day of the last normal
 menstrual period. Also used in the management of nonmetastatic
 gestational trophoblastic disease (benign hydatidiform mole). Other
 indications include improving the cervical inducibility (cervical
 "ripening") in pregnant women at or near term with a medical or
 obstetrical need for labor induction, and the management of
 postpartum hemorrhage.

misoprostol: approved small molecule (102 associated side effects)

102 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Alopecia Anaemia
Anaphylactic shock Anorectal disorder Anxiety
Arrhythmia Arterial thrombosis Arthralgia Asthenia Back
pain Blindness Blood alkaline phosphatase increased Body
temperature increased Breast pain Bronchitis Bronchospasm
Cardiac enzymes increased Cerebrovascular accident Chest
pain Chills Confusional state Conjunctivitis Constipation
Deafness Dehydration Dermatitis Diarrhoea Dizziness
Dysgeusia Dysmenorrhoea Dyspepsia Dysphagia Dyspnoea
Dysuria Ear pain Embolism Epistaxis Erectile
dysfunction Fatigue Feeling abnormal Flatulence Gastrointestinal
disorder Gastrointestinal haemorrhage Gastrointestinal pain
Gastroesophageal reflux disease Genital disorder female
Gingivitis Glycosuria Gout Haematuria Haemoglobin Haemorrhage
Headache Hyperhidrosis Hypersensitivity Hypertension
Hypotension Infarction Infection Inflammation
Inflammatory bowel disease Loss of consciousness Loss of
libido Menorrhagia Menstrual disorder Metrorrhagia
Muscle spasms Musculoskeletal discomfort Musculoskeletal
stiffness Myalgia Myocardial infarction Nausea Neuropathy
peripheral Neurosis Oedema Pain Pallor Phlebitis
Pneumonia Polyuria Pulmonary embolism Purpura Rash
Red blood cell sedimentation rate increased Respiratory tract
infection Shock Somnolence Syncope Thirst Thrombocytopenia
Thrombosis Tinnitus Upper respiratory tract infection
Urinary tract infection Urine output increased Vaginal
haemorrhage Vascular purpura Visual acuity reduced Visual impairment
Vomiting

Glycine receptor subunit alpha-1 - Group: Channel

Treated with:

glycine: approved, nutraceutical small molecule (38 associated side effects) Supplemental glycine may have antispastic activity. Very early findings suggest it may also have antipsychotic activity as well as antioxidant and anti-inflammatory activities.

enflurane: approved small molecule (15 associated side effects)

Used for the induction and maintenance of general anaesthesia during surgery and cesarean section and also used for analgesia during vaginal delivery.

lindane: approved small molecule (9 associated side effects)

For the treatment of patients infested with *Sarcoptes scabiei* or pediculosis capitis who have either failed to respond to adequate doses, or are intolerant of other approved therapies.

isoflurane: approved small molecule (31 associated side effects)

For induction and maintenance of general anaesthesia.

ethanol: approved small molecule (11 associated side effects)

For therapeutic neurolysis of nerves or ganglia for the relief of intractable chronic pain in such conditions as inoperable cancer

and trigeminal neuralgia (tic douloureux), in patients for whom neurosurgical procedures are contraindicated.

methoxyflurane: approved small molecule (0 associated side effects) For use in the induction and maintenance of general anesthesia

halothane: approved small molecule (10 associated side effects) For the induction and maintenance of general anesthesia

desflurane: approved small molecule (110 associated side effects) For use as an inhalation agent for induction and/or maintenance of anesthesia for inpatient and outpatient surgery in adults.

sevoflurane: approved small molecule (107 associated side effects) Used for induction and maintenance of general anesthesia in adult and pediatric patients for inpatient and outpatient surgery.

ginkgo biloba: approved, nutraceutical small molecule (0 associated side effects) Appears to be effective in: alleviating age-related memory impairment in some elderly people with mild to moderate age-related memory or cognitive impairment; improving cognitive function in healthy young to middle-aged people; improving symptoms of Alzheimer's, vascular or mixed dementia; improving damage to the visual field in patients with normal tension glaucoma; decreasing the number of painful attacks in patients with Raynaud's syndrome; and may improve symptoms of vertigo and dizziness in some patients.

d-serine: experimental small molecule (0 associated side effects)

208 known side effects mediated through drugs targeting this protein:

Abdominal pain Acidosis Acute coronary syndrome Agitation
Alanine aminotransferase increased Albuminuria Alopecia
Amblyopia Ammonia increased Anaphylactic shock
Anaphylactoid reaction Angina pectoris Angiopathy Aortic
dissection Apnoea Arrhythmia Arrhythmia supraventricular
Aspartate aminotransferase increased Asthenia Asthma
Atrial fibrillation Atrioventricular block Atrioventricular
block complete Atrioventricular block second degree Back pain
Blindness Blindness transient Blood creatinine increased
Body temperature decreased Body temperature increased Bone
disorder Bradycardia Breath holding Bronchospasm Burning
sensation Cardiac arrest Cardiac disorder Cardiac fibrillation
Chills Cholestasis Coagulopathy Coma Confusional state
Conjunctival hyperaemia Conjunctivitis Convulsion Cough
Cranial nerve paralysis Dehydration Delirium Dermatitis
contact Diarrhoea Discomfort Dizziness Drug administration
error Dry mouth Dysgeusia Dyspnoea Dysuria Electrocardiogram
QT prolonged Electrocardiogram T wave inversion Electrocardiogram
abnormal Electrolyte imbalance Encephalopathy Erectile
dysfunction Erythema Extrasystoles Eye disorder Eye
inflammation Eye irritation Eye pain Eyelid oedema
Fatigue Feeling abnormal Fluid overload Foetor hepaticus
Gastrointestinal disorder Gastrointestinal pain Glycosuria
Haemoglobin Haemoptysis Haemorrhage Hallucination Headache
Hepatic failure Hepatic function abnormal Hepatic necrosis

Hepatitis Hepatobiliary disease Hepatocellular injury
 Hiccups Hyperaemia Hyperaesthesia Hyperammonaemia
 Hyperbilirubinaemia Hyperglycaemia Hyperkalaemia
 Hyperkinesia Hyperpyrexia Hypersensitivity
 Hypertension Hyperthermia malignant Hypertonia
 Hyperventilation Hypocapnia Hypokalaemia Hypokinesia
 Hyponatraemia Hypophosphataemia Hypotension Hypothermia
 Hypoventilation Hypoxia Ileus Ill-defined disorder
 Incontinence Increased bronchial secretion Infarction
 Insomnia Ischaemia Jaundice Keratitis Laryngospasm
 Leukocytosis Liver disorder Loss of consciousness Lung
 disorder Malaise Malignant hypertension Mediastinal disorder
 Meningitis Metabolic acidosis Migraine Muscle rigidity
 Musculoskeletal discomfort Myalgia Mycobacterium avium
 complex infection Mycobacterium test Myocardial infarction
 Myocardial ischaemia Nausea Necrosis Nephritis
 Nervous system disorder Nervousness Neuritis Neuropathy
 peripheral Nodal arrhythmia Obstruction Obstructive airways disorder
 Ocular hyperaemia Oedema Oliguria Pain Palpitations
 Pancreatitis acute Paraesthesia Paralysis Pharyngitis
 Polyuria Pruritus Pulmonary congestion Pulmonary
 function test decreased Rash Renal failure Respiratory
 arrest Respiratory depression Respiratory distress Respiratory
 failure Respiratory tract congestion Rhabdomyolysis Rhinitis
 Salivary hypersecretion Shock Skin burning sensation Skin
 disorder Somnolence Sputum increased Stridor Supraventricular
 extrasystoles Syncope Synovial cyst Tachyarrhythmia
 Tachycardia Tension Thirst Thrombocytopenia
 Thrombophlebitis Torsade de pointes Tubulointerstitial
 nephritis Ulcerative keratitis Urethral disorder Urinary retention
 Urinary tract disorder Urine abnormality Urine analysis
 abnormal Urticaria Vasodilation procedure Ventricular
 extrasystoles Ventricular failure Ventricular fibrillation
 Ventricular hypokinesia Ventricular tachycardia
 Vertigo Visual acuity reduced Visual impairment Vomiting
 Wheezing

Toll-like receptor 7 - Group: Receptor

Treated with:

imiquimod: approved small molecule (146 associated side effects) For the topical treatment of clinically typical, nonhyperkeratotic, nonhypertrophic actinic keratoses on the face or scalp in immunocompetent adults. Also indicated for the treatment of external genital and perianal warts/condyloma acuminata in individuals 12 years old and above.

hydroxychloroquine: approved small molecule (67 associated side effects) For the suppressive treatment and treatment of acute attacks of malaria due to *Plasmodium vivax*, *P. malariae*, and susceptible strains of *P. falciparum*. It is also indicated for the treatment of discoid and systemic lupus erythematosus, and rheumatoid arthritis.

190 known side effects mediated through drugs targeting this protein:

Abdominal pain Acute coronary syndrome Acute generalised
exanthematous pustulosis Acute hepatic failure Agitation
Agranulocytosis Alopecia Anaemia Angioedema Anxiety
Aplastic anaemia Application site reaction Arrhythmia
Arthralgia Arthritis Asthenia Ataxia Atrial
fibrillation Atrophy Back pain Blindness Blood disorder
Body temperature increased Bone pain Bronchitis
Bronchospasm Capillary leak syndrome Cardiac failure
Cardiac fibrillation Cardiomyopathy Cardiovascular
disorder Cellulitis Cerebrovascular accident Cheilitis Chest
pain Chills Completed suicide Congenital eye disorder
Conjunctivitis Convulsion Corneal deposits Cough Crying
Cyst Deafness Deafness neurosensory Decreased appetite
Dermatitis Dermatitis exfoliative Diarrhoea Dizziness
Dyspepsia Dyspnoea Dysuria Eczema Erythema
Erythema annulare Erythema multiforme Eye disorder Eye
infection Fatigue Febrile convulsion Fungal infection
Gastrointestinal disorder Gastrointestinal pain
Gastroesophageal reflux disease Gout Haemoglobin Haemolysis
Haemorrhage Halo vision Headache Hepatic failure Hepatic
function abnormal Hernia Herpes simplex Herpes virus infection
Herpes zoster Hypercholesterolaemia Hyperkeratosis
Hypersensitivity Hypertension Hypertrophic scar Hypertrophy
Idiopathic thrombocytopenic purpura Induration Infarction
Infection Infestation Influenza like illness Insomnia
Irritability Ischaemia Lethargy Leukoderma Leukopenia
Local reaction Loss of consciousness Lymphadenopathy
Lymphoma Macule Malaise Mental disorder Multiple
sclerosis Muscle spasms Musculoskeletal discomfort Myalgia
Myocardial infarction Myopathy Nausea Nervous system
disorder Nervousness Neuromyopathy Neuropathy peripheral
Nightmare Nystagmus Oedema Oral herpes Osteoarthropathy
Pain Pallor Palpitations Pancytopenia Papule
Paraesthesia Paralysis Paresis Pharyngitis Photophobia
Photosensitivity reaction Pigmentation disorder Porphyria
Protein urine present Proteinuria Pruritus Psoriasis
Psychotic disorder Pulmonary congestion Pulmonary oedema
Purpura Rash Respiratory disorder Respiratory tract
congestion Retinal disorder Retinal pigmentation Rhinitis Scab
Scar Scotoma Scrotal erythema Scrotal oedema Scrotal
pain Scrotal ulcer Sensitisation Shock Sinusitis Skin
disorder Skin exfoliation Skin hyperpigmentation Squamous cell
carcinoma Supraventricular tachycardia Swelling Syncope
Tachycardia Tearfulness Tenderness Tension Thrombocytopenia
Thrombocytopenic purpura Thyroiditis Tinea cruris Tinea
infection Tinnitus Tooth disorder Ulcer Upper respiratory
tract infection Urethral disorder Urinary retention Urinary tract
disorder Urinary tract infection Urticaria Vaginal infection
Vaginal inflammation Vaginitis bacterial Vascular purpura
Vertigo Vision blurred Visual acuity reduced Vomiting
Weight decreased

Gamma-aminobutyric-acid receptor subunit alpha-4 - Group: Channel
Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

ethchlorvynol: illicit,approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects)
For the short-term treatment of insomnia (generally 7-10 days).

butabarbital: illicit,approved small molecule (0 associated side effects) For short-term treatment of insomnia and anxiety disorders

butalbital: illicit,approved small molecule (0 associated side effects) Used in combination with acetaminophen or aspirin and caffeine for its sedative and relaxant effects in the treatment of tension headaches, migraines, and pain.

talbutal: illicit,approved small molecule (0 associated side effects) For use as a sedative and hypnotic.

pentobarbital: approved small molecule (38 associated side effects) For the short-term treatment of insomnia.

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

meprobamate: illicit,approved small molecule (54 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety.

alprazolam: illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

secobarbital: approved small molecule (38 associated side effects) For the Short-term treatment of intractable insomnia for patients habituated to barbiturates

metharbital: approved small molecule (0 associated side effects) Metharbital is used for the treatment of epilepsy.

chlordiazepoxide: illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

thiopental: approved small molecule (0 associated side effects)

For use as the sole anesthetic agent for brief (15 minute) procedures, for induction of anesthesia prior to administration of other anesthetic agents, to supplement regional anesthesia, to provide hypnosis during balanced anesthesia with other agents for analgesia or muscle relaxation, for the control of convulsive states during or following inhalation anesthesia or local anesthesia, in neurosurgical patients with increased intracranial pressure, and for narcoanalysis and narcosynthesis in psychiatric disorders.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as

adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

primidone: approved small molecule (16 associated side effects) For the treatment of epilepsy

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

methylphenobarbital: approved small molecule (37 associated side effects) For the relief of anxiety, tension, and apprehension, also used as an anticonvulsant for the treatment of epilepsy.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

amobarbital: illicit,approved small molecule (0 associated side effects)

aprobarbital: illicit,approved small molecule (0 associated side effects)

butethal: illicit,approved small molecule (0 associated side effects) For the treatment of insomnia.

heptabarbital: approved small molecule (0 associated side effects) Used mainly for sedation and hypnosis.

hexobarbital: approved small molecule (0 associated side effects) For the induction of anesthesia prior to the use of other general anesthetic agents and for induction of anesthesia for short surgical, diagnostic, or therapeutic procedures associated with minimal painful stimuli.

barbituric acid derivative: illicit,experimental small molecule (0 associated side effects)

flunitrazepam: illicit,approved small molecule (0 associated side effects) For short-term treatment of severe insomnias, that are not responsive to other hypnotics.

bromazepam: illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

444 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
Abnormal dreams Acidosis Acne Affect lability Ageusia
Aggression Agitation Agranulocytosis Akathisia Akinesia
Alcohol poisoningAlopecia Altered state of consciousness
Amnesia Anaemia Anaemia megaloblastic Anaphylactic
shock Anaphylactoid reaction Anger Angioedema Angiopathy Anterograde
amnesia Anuria Anxiety Aortic dissectionApathy

Aponia Aplasia Aplastic anaemia Apnoea Appetite
 disorder Arrhythmia Arterial spasm Arthralgia Aspartate
 aminotransferase increased Aspiration Asthenia Asthma
 Ataxia Athetosis Atrioventricular block Back pain
 Balance disorder Bladder dysfunction Bladder pain Blood
 alkaline phosphatase increased Blood bilirubin increased Blood
 disorder Blood glucose decreased Body temperature decreased
 Body temperature increased Borderline personality disorder
 Bradycardia Bradyphrenia Brain oedema Breast disorder
 Breast pain Bronchitis Bronchospasm Candidiasis Carbon
 dioxide increased Cardiac arrest Cardiac disorder Cardiac failure
 Cardio-respiratory arrest Cardiovascular disorder
 Cellulitis Cerebellar syndrome Chest discomfort Chest pain
 Chills Choking sensation Chorea Chromaturia Clonic
 convulsion Clonus Clumsiness Coagulopathy Cognitive
 disorder Coma Completed suicide Confusional state Connective tissue
 disorder Constipation Conversion disorder Convulsion
 Coordination abnormal Cough Cystitis Cystitis noninfective
 Cytolytic hepatitis Death Decreased appetite Dehydration
 Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diarrhoea Diplopia Discomfort Disinhibition
 Disorientation Disturbance in attention Disturbance in
 sexual arousal Dizziness Drooling Drug abuse Drug dependence
 Drug eruption Drug intolerance Drug withdrawal convulsions
 Dry mouth Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Encephalopathy Encopresis Endometrial sarcoma
 Energy increased Enuresis Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Euphoric mood Extrapyrmidal disorder
 Extrasystoles Eye disorder Eye irritation Eye
 movement disorder Face oedema Fatigue Feeling abnormal Feeling
 cold Feeling drunk Feeling hot Feeling jittery Feeling of body
 temperature change Flat affect Flatulence Flushing Fungal
 infection Gait disturbance Galactorrhoea Gangrene Gastric
 disorder Gastritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gingival pain Glossitis
 Glossodynia Gout Gynaecomastia Haematoma Haemoglobin
 Haemoglobin decreased Haemorrhage Haemorrhage urinary tract
 Haemorrhoids Hallucination Hangover Headache
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hyperpyrexia
 Hypersensitivity Hypersomnia Hypertension Hypertonia
 Hyperventilation Hypoaesthesia Hypochromic anaemia
 Hypomania Hyponatraemia Hypopnoea Hypotension Hypothermia

Hypotonia Hypoventilation Hypoxia Ill-defined disorder
 Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngospasm Lethargy
 Leukocytosis Leukopenia Libido decreased Libido increased
 Liver function test abnormal Liver injury Logorrhoea Loss
 of consciousness Loss of libido Lung disorder Lymphadenopathy
 Major depression Malaise Mania Mean arterial pressure
 Mediastinal disorder Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Migraine Miosis Mood swings
 Motion sickness Muscle relaxant therapy Muscle rigidity
 Muscle spasms Muscle spasticity Muscle twitching Muscular
 weakness Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Necrosis
 Nervous system disorder Nervousness Neuroleptic malignant
 syndrome Neuropathy peripheral Nightmare Nocturia Nodal
 rhythm Nystagmus Obstruction Obstructive airways disorder
 Oedema Oedema peripheral Oliguria Oropharyngeal pain
 Orthostatic hypotension Osteoarthritis Osteomalacia
 Pain Pain in extremity Pain in jaw Palpitations
 Pancytopenia Paraesthesia Paralysis Paresis
 Pelvic pain Pericardial effusion Periorbital oedema
 Personality disorder Petechiae Phaeochromocytoma Pharyngitis
 Phlebitis Phobia Photophobia Pigmentation disorder
 Platelet count decreased Pleurisy Pneumonia
 Pneumothorax Pollakiuria Polyuria Post-traumatic stress
 disorder Precocious puberty Premenstrual syndrome Presyncope
 Proctitis Pruritus Psychomotor retardation Psychotic
 disorder Puberty Pulmonary congestion Pulmonary function
 test decreased Pulmonary haemorrhage Pulmonary hypertension
 Pulmonary oedema Purpura non-thrombocytopenic Rash Rash
 maculo-papular Respiratory arrest Respiratory depression
 Respiratory disorder Respiratory failure Respiratory
 moniliasis Respiratory rate decreased Respiratory tract congestion
 Respiratory tract infection Retching Retrograde amnesia
 Rhinitis allergic Rhinorrhoea Rhonchi Salivary
 hypersecretion Scotoma Sedation Sexual dysfunction Shock
 Sinus tachycardia Sinusitis Skin burning sensation Skin
 disorder Skin exfoliation Skin necrosis Sleep apnoea syndrome
 Sleep disorder Sleep talking Sluggishness Sneezing
 Somnambulism Somnolence Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendinitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytopenic purpura
 Thrombocytosis Thrombophlebitis Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Tremor Tropical spastic
 paresis Upper airway obstruction Upper respiratory tract

infection Urethral disorder Urinary incontinence Urinary retention
Urinary tract disorder Urinary tract infection Urine
colour abnormal Urine output increased Urticaria Vaginal infection
Vaginal inflammation Vascular purpura Ventricular arrhythmia
Ventricular extrasystoles Vertigo Viral infection
Vision blurred Visual impairment Vomiting Weight decreased
Weight increased Wheezing Withdrawal syndrome Xeroderma
Xerophthalmia Yawning

Multidrug-efflux transporter 1 regulator - Group: Transporter

Treated with:

tetraphenylphosphonium: experimental small molecule (0
associated side effects)

known side effects mediated through drugs targeting this protein:

Type-1 angiotensin II receptor - Group: Receptor

Treated with:

valsartan: approved small molecule (80 associated side effects)

May be used as a first line agent to treat uncomplicated hypertension, isolated systolic hypertension and left ventricular hypertrophy. May be used as a first line agent to delay progression of diabetic nephropathy. Losartan may be also used as a second line agent in the treatment of congestive heart failure, systolic dysfunction, myocardial infarction and coronary artery disease in those intolerant of ACE inhibitors.

olmesartan: approved small molecule (0 associated side effects)

For the treatment of hypertension.

losartan: approved small molecule (164 associated side effects) May be used as a first line agent to treat uncomplicated hypertension, isolated systolic hypertension and left ventricular hypertrophy. May be used as a first line agent to delay progression of diabetic nephropathy. Losartan may be also used as a second line agent in the treatment of congestive heart failure, systolic dysfunction, myocardial infarction and coronary artery disease in those intolerant of ACE inhibitors.

candesartan: approved small molecule (148 associated side effects) May be used as a first line agent to treat uncomplicated hypertension, isolated systolic hypertension and left ventricular hypertrophy. May be used as a first line agent to delay progression of diabetic nephropathy. Candesartan may be also used as a second line agent in the treatment of congestive heart failure, systolic dysfunction, myocardial infarction and coronary artery disease in those intolerant of ACE inhibitors.

eprosartan: approved small molecule (146 associated side effects) For the management of hypertension alone or in combination with other classes of antihypertensive agents. Also used as a first-line agent in the treatment of diabetic nephropathy, as well as a second-line agent in the treatment of congestive heart failure (only in those intolerant of ACE inhibitors).

telmisartan: approved small molecule (174 associated side effects) Used alone or in combination with other classes of

antihypertensives for the treatment of hypertension. Also used in the treatment of diabetic nephropathy in hypertensive patients with type 2 diabetes mellitus, as well as the treatment of congestive heart failure (only in patients who cannot tolerate ACE inhibitors).

irbesartan: approved small molecule (109 associated side effects) For the treatment of hypertension, as well as diabetic nephropathy with an elevated serum creatinine and proteinuria (>300 mg/day) in patients with type 2 diabetes and hypertension. Irbesartan is also used as a second line agent in the treatment of congestive heart failure.

forasartan: approved small molecule (0 associated side effects) For the treatment of hypertension.

saprisartan: approved small molecule (0 associated side effects) Saprisartan is used in the treatment of hypertension and heart failure.

tasosartan: approved small molecule (0 associated side effects) Tasosartan is infrequently in the treatment of hypertension and heart failure.

340 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain upper Abscess Acute coronary syndrome
 Acute interstitial pneumonitis Agitation Agranulocytosis
 Alanine aminotransferase increased Albuminuria Alcohol
 intolerance Alopecia Alveolitis Alveolitis fibrosing Anaemia
 Anaphylactic shock Angina pectoris Angioedema Angiopathy
 Anuria Anxiety Anxiety disorder Aplastic anaemia
 Arrhythmia Arterial disorder Arterial stenosis Arthralgia
 Arthritis Arthropathy Aspartate aminotransferase increased
 Assisted fertilisation Asthenia Asthma Ataxia
 Atrial fibrillation Atrioventricular block Atrioventricular
 block second degree Autonomic neuropathy Azotaemia Back pain
 Bladder pain Blindness Blood bilirubin increased Blood
 creatine phosphokinase increased Blood creatinine increased Blood
 disorder Blood pressure increased Blood triglycerides
 increased Blood urea increased Blood uric acid increased Body
 temperature increased Bone pain Bradycardia Bronchitis
 Bronchospasm Bursitis Candidiasis Cardiac arrest
 Cardiac failure congestive Cardiac fibrillation Cardiac
 murmur Cardiovascular disorder Cataract Cellulitis
 Cerebrovascular accident Cerebrovascular disorder Chest
 pain Chills Cholelithiasis Coagulopathy Conduction
 disorder Confusional state Conjunctivitis Constipation
 Coronary artery disease Cough Cutaneous vasculitis
 Cystitis Cystitis noninfective Death Decreased appetite
 Dehydration Dermatitis Dermatitis exfoliative Diabetes mellitus
 Diabetic neuropathy Diabetic vascular disorder Diarrhoea
 Discomfort Disturbance in sexual arousal Dizziness
 Dizziness postural Drug eruption Drug interaction Dry
 mouth Dry skin Dysgeusia Dyspepsia Dyspnoea Dysuria Ear
 infection Ear pain Ecchymosis Eczema Elderly
 Electrocardiogram abnormal Electrolyte imbalance Emotional
 disorder Emotional distress Endocrine disorder Enteritis
 Eosinophilia Epistaxis Erectile dysfunction Erythema

Erythema multiforme Extrasystoles Face oedema Fasciitis
 Fatigue Feeling abnormal Fibromyalgia Flatulence
 Flushing Foetor hepaticus Fungal infection Furuncle
 Gastric disorder Gastritis Gastroenteritis Gastrointestinal
 disorder Gastrointestinal pain Gastrooesophageal reflux disease
 Genital candidiasis Gingivitis Glycosuria Gout
 Gravitational oedema Growth retardation Haematuria
 HaemoglobinHaemolysis Haemolytic anaemia Haemorrhage
 Haemorrhoids Headache Hepatic enzyme increased
 Hepatic failure Hepatic function abnormal Hepatitis
 Hepatitis A Hepatocellular injury Herpes simplex Herpes
 virus infection Hormone level abnormal Hot flush
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkinesia Hypersensitivity
 Hypertension Hypertensive crisis Hypertonia
 Hypertriglyceridaemia Hyperuricaemia Hypoaesthesia
 Hypoglycaemia Hypokalaemia Hyponatraemia Hypotension
 Idiopathic pulmonary fibrosis Ill-defined disorder
 Incontinence Increased appetite Infarction Infection
 Influenza Insomnia Intermittent claudication Ischaemia
 Jaundice Jaundice cholestatic Joint stiffness Joint
 swelling Laryngeal disorder Laryngitis Leukopenia Libido
 decreased Lip swelling Liver disorder Liver function test
 abnormal Loss of consciousness Lymphopenia Malaise Melaena
 Memory impairment Menopausal symptoms Menopause Mental
 disorder Microcytic anaemia Microsomia Micturition disorder
 Migraine Muscle contractions involuntary Muscle
 contracture Muscle spasms Muscular weakness Musculoskeletal chest
 pain Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myocardial infarction Myopathy Myositis Nasal congestion
 Nausea Neoplasm malignant Nephritis Nephrolithiasis
 Nephropathy Nervous system disorder Nervousness Neuritis
 Neuropathy peripheral Neurosis Neutropenia Nocturia
 Obstruction Obstructive airways disorder Oedema Oedema
 peripheral Oesophagitis Oligohydramnios Oliguria Oral
 disorder Orthostatic hypotension Osteoarthritis
 Osteoarthropathy Otitis externa Otitis media Pain Pain
 in extremity Palpitations Pancreatitis Panic disorder
 Panic reaction Paraesthesia Patent ductus arteriosus
 Periodontitis Peripheral ischaemia Pharyngitis
 Photosensitivity reaction Plantar fasciitis Pneumonia
 Pollakiuria Polyuria Premature baby Prostatic disorder
 Pruritus Pulmonary congestion Pulmonary oedema Purpura
 Rash Rash maculo-papular Renal artery stenosis Renal
 failure Renal failure acute Renal impairment Respiratory
 arrest Respiratory disorder Respiratory distress Respiratory
 tract congestion Respiratory tract infection Rhabdomyolysis
 Rhinitis Sciatica Sensory loss Sexual dysfunction
 Shock Sialoadenitis Sinus bradycardia Sinus disorder
 Sinusitis Skin disorder Skin exfoliation Skin ulcer Sleep
 disorder Social avoidant behaviour Somnolence Swelling
 Swelling face Syncope Tachycardia Tendon disorder
 Tendon pain Tendonitis Tenosynovitis Tension
 Thrombocytopenia Thrombophlebitis Tinnitus Toothache Toxic

epidermal necrolysis Toxic skin eruption Tracheobronchitis
Transaminases increased Transient ischaemic attack
Tremor Tubulointerstitial nephritis Ulcer Upper respiratory
tract infection Urethral disorder Urinary incontinence Urinary
tract disorder Urinary tract infection Urine abnormality Urine
analysis abnormal Urine output increased Urticaria Vaginal infection
Vaginal inflammation Vascular purpura Vasculitis necrotising
Ventricular fibrillation Ventricular tachycardia
Vertigo Viral infection Vision blurred Visual acuity
reduced Visual impairment Vomiting Weight increased Wheezing
Xanthopsia Xerophthalmia

Fibroblast growth factor receptor 3 - Group: Enzyme

Treated with:

palifermin: approved biotech (0 associated side effects) For
treatment of oral mucositis associated with chemotherapy and
radiation therapy.

known side effects mediated through drugs targeting this protein:

Excitatory amino acid transporter 2 - Group: Transporter

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0
associated side effects) Considered to be nature's "Brain food"
by improving mental capacities; helps speed the healing of ulcers;
gives a "lift" from fatigue; helps control alcoholism, schizophrenia
and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Ammonia channel - Group: Channel

Treated with:

methylamine: experimental small molecule (0 associated
side effects)
lauryl dimethylamine-n-oxide: experimental small molecule
(0 associated side effects)

known side effects mediated through drugs targeting this protein:

Retinoic acid receptor RXR-beta - Group: Receptor

Treated with:

adapalene: approved small molecule (35 associated side effects)
For the topical treatment of comedo, papular and pustular acne
(acne vulgaris) of the face, chest or back.
bexarotene: approved small molecule (153 associated side
effects) Used orally for the treatment of skin manifestations of
cutaneous T-cell lymphoma (CTCL) in patients who are refractory to
at least one prior systemic therapy. Also used topically for the

treatment of skin lesions in early (stage IA and IB) CTCL in patients who experience refractory or persistent disease with the use of other therapies or are intolerant of other therapies.

acitretin: approved small molecule (165 associated side effects) For the treatment of severe psoriasis in adults.

alitretinoin: approved small molecule (0 associated side effects) For topical treatment of cutaneous lesions in patients with AIDS-related Kaposi's sarcoma.

tazarotene: approved small molecule (23 associated side effects) Used to treat psoriasis, acne and sun damaged skin (photodamage).

etretinate: withdrawn small molecule (0 associated side effects) For the treatment of severe psoriasis in adults.

6-[1-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydronaphthalen-2-yl)cyclopropyl]pyridine-3-carboxylic acid: experimental small molecule (0 associated side effects)

n-(2,2,2-trifluoroethyl)-n-{4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl}benzenesulfonamide: experimental small molecule (0 associated side effects)

n-(tert-butyl)-3,5-dimethyl-n'-[(5-methyl-2,3-dihydro-1,4-benzodioxin-6-yl)carbonyl]benzohydrazide: experimental small molecule (0 associated side effects)

(2e,4e)-11-methoxy-3,7,11-trimethyldodeca-2,4-dienoic acid: experimental small molecule (0 associated side effects)

273 known side effects mediated through drugs targeting this protein:

Abdominal infection Abdominal pain Acne Ageusia Agitation
Alanine aminotransferase increased Albuminuria Alcohol
intolerance Alopecia Anaemia Angina pectoris Angioedema
Anorectal discomfort Anorectal disorder Arrhythmia
Arthralgia Arthritis Arthropathy Aspartate aminotransferase
increased Asthenia Ataxia Atopy Atrophy Back pain
Bacterial infection Balanoposthitis Benign intracranial
hypertension Bleeding time prolonged Blepharitis Blister
Blood amylase increased Blood creatinine increased Blood
lactate dehydrogenase increased Blood triglycerides increased
Blood uric acid increased Body temperature increased Bone
pain Breast pain Bronchitis Burning sensation Bursitis Calcinosis
Candidiasis Cardiac failure Cataract Cataract subcapsular
Cellulitis Cerebrovascular accident Cerumen impaction
Chapped lips Cheilitis Chest pain Chills Coagulation
time prolonged Cold sweat Colitis Confusional state Congenital
eye disorder Conjunctivitis Constipation Convulsion
Corneal lesion Corneal neovascularisation Cough Crocodile
tears syndrome Deafness Decreased appetite Dermatitis atopic
Dermatitis bullous Dermatitis contact Dermatitis
exfoliative Diarrhoea Discomfort Dizziness Dry eye Dry mouth
Dry skin Dysgeusia Dyspepsia Dysphonia Dyspnoea
Dysuria Ear infection Ear pain Eczema Effusion
Eosinophilia Epistaxis Erectile dysfunction Erythema
Exostosis Eye disorder Eye irritation Eye pain
Eyelid oedema Face oedema Facial pain Fasting Fatigue
Febrile neutropenia Feeling abnormal Flatulence Flushing
Foetal disorder Gait disturbance Gastroenteritis

Gastrointestinal pain Genital dischargeGingival bleeding
 Gingivitis Glossitis Granuloma Haematoma Haematuria
 Haemoglobin Haemoptysis Haemorrhage Hair texture abnormal
 Headache Hepatic failure Hepatitis Herpes simplex
 Herpes virus infection High density lipoprotein decreased
 Hordeolum Hot flush Hyperaesthesia Hyperbilirubinaemia
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hypervitaminosis
 Hypervitaminosis A Hypoaesthesia Hypocalcaemia
 Hypochromic anaemia Hyponatraemia Hypoproteinaemia
 Hypothyroidism Hypoxia Ill-defined disorder Impaired
 healing Incontinence Increased appetite Infection
 Inflammation Influenza Insomnia Interstitial lung
 disease Iritis Jaundice Keratitis Lacrimation decreased
 Lacrimation increased Laryngitis Lethargy Leukopenia Lip
 dry Lip swelling Liver function test abnormal Localised oedema
 Loss of consciousness Lymphadenopathy Lymphocytosis
 Madarosis Malaise Mass Melaena Menopausal symptoms
 Micturition urgency Mouth ulceration Muscle spasms
 Muscular weaknessMusculoskeletal discomfort Myalgia Nasal
 dryness Nausea Nervousness Neuropathy peripheral Neutropenia
 Nodule Oedema Oedema peripheralOptic neuritis
 Osteoarthritis Otitis externa Pain Pancreatic disorder
 Pancreatitis acute Pancytopenia Papilloedema
 Paraesthesia Pharyngitis Photophobia Photosensitivity
 reaction Pleural disorder Pleural effusion Pneumonia Pollakiuria
 Proctalgia Pruritus Pulmonary oedema Purpura Pyogenic
 granuloma Rash Rash maculo-papular Rash papular Rash
 pustular Rash vesicular Rectal tenesmus Renal impairment
 Retinal haemorrhage Rhinitis Right ventricular failure
 Saliva altered Salivary hypersecretion Scab Scotoma
 Seborrhoeic dermatitis Sensitisation Sepsis Shock
 Sinusitis Skin atrophy Skin discolouration Skin
 disorder Skin exfoliation Skin fissures Skin hyperpigmentation
 Skin hypertrophy Skin irritation Skin mass Skin oedema Skin
 ulcer Somnolence Sticky skinStomatitis Subdural haematoma
 Swelling Syncope TachycardiaTension Thirst
 Thrombocytopenia Thrombocytosis Tinnitus Tongue ulceration
 Type 2 diabetes mellitus Ulcer Urinary incontinence
 Urinary tract infection Urine abnormalityUrine analysis
 abnormal Urticaria Vascular purpura Vasculitis Vision blurred
 Visual acuity reduced Vomiting Vulvovaginitis Weight
 decreased Weight increased White blood cell count decreased White
 blood cell disorder Xerophthalmia

Gamma-aminobutyric acid receptor subunit gamma-1 - Group: Channel
 Treated with:
 lorazepam: approved small molecule (126 associated side
 effects) For the management of anxiety disorders, and for
 treatment of status epilepticus.

temazepam: approved small molecule (35 associated side effects)
For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam:illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam:approved small molecule (0 associated side effects)
For the treatment of anxiety and status epilepticus.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam:illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects)
For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam:illicit,approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit,approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

bromazepam:illicit,approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit,approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

ketazolam: approved small molecule (0 associated side effects) Ketazolam could be used for the treatment of anxiety. In approved countries, it is indicated for the treatment of anxiety, tension, irritability and similar stress related symptoms.

prazepam: illicit,approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit,approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects) Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain
 Abnormal dreams Abnormal faeces Acidosis Acne Affect
 lability Ageusia Aggression Agitation Agranulocytosis
 Akathisia Akinesia Alcohol poisoning Alopecia Altered
 state of consciousness Amblyopia Amnesia Anaemia
 Anaphylactic shock Anaphylactoid reaction Anger Angioedema
 Angiopathy Anorectal discomfort Anorectal disorder
 Anterograde amnesia Anxiety Aortic dissection Apathy
 Aphonia Apnoea Appetite disorder Arrhythmia Arterial
 spasm Arthralgia Arthritis Aspartate aminotransferase increased
 Aspiration Asthenia Asthma Ataxia Athetosis
 Atrioventricular block Back pain Balance disorder Bladder
 dysfunction Bladder pain Blindness Blood alkaline phosphatase
 increased Blood bilirubin increased Blood disorder Blood
 glucose decreased Blood thromboplastin decreased Body temperature
 decreased Body temperature increased Borderline personality
 disorder Bradycardia Bradyphrenia Brain oedema Breast
 disorder Breast pain Breast swelling Bronchitis Bronchospasm
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Chest discomfort Chest pain Chills Choking sensation
 Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Coma Completed suicide
 Confusional state Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Dehydration
 Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation

Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enterocolitis Enuresis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Euphoric mood
 Extrapyrarnidal disorder Extrasystoles Eye disorder
 Eye irritation Eye movement disorder Eye pain Eye
 swelling Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain

Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Phaeochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated
 Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Phospholipase A2, membrane associated - Group: Enzyme

Treated with:

indomethacin: approved small molecule (164 associated side
 effects) For moderate to severe rheumatoid arthritis including

acute flares of chronic disease, ankylosing spondylitis, osteoarthritis, acute painful shoulder (bursitis and/or tendinitis) and acute gouty arthritis.

diclofenac: approved small molecule (310 associated side effects) For the acute and chronic treatment of signs and symptoms of osteoarthritis and rheumatoid arthritis.

ginkgo biloba: approved, nutraceutical small molecule (0 associated side effects) Appears to be effective in: alleviating age-related memory impairment in some elderly people with mild to moderate age-related memory or cognitive impairment; improving cognitive function in healthy young to middle-aged people; improving symptoms of Alzheimer's, vascular or mixed dementia; improving damage to the visual field in patients with normal tension glaucoma; decreasing the number of painful attacks in patients with Raynaud's syndrome; and may improve symptoms of vertigo and dizziness in some patients.

1,4-butanediol: experimental small molecule (0 associated side effects)

1-{2-[2-(2-methoxyethoxy)ethoxy]ethoxy}-4-(1,1,3,3-tetramethylbutyl)benzene: experimental small molecule (0 associated side effects)

n-tridecanoic acid: experimental small molecule (0 associated side effects)

[3-(1-benzyl-3-carbamoylmethyl-2-methyl-1h-indol-5-yloxy)-propyl]-phosphonic acid: experimental small molecule (0 associated side effects)

4-(1-benzyl-3-carbamoylmethyl-2-methyl-1h-indol-5-yloxy)-butyric acid: experimental small molecule (0 associated side effects)

1-benzyl-5-methoxy-2-methyl-1h-indol-3-yl)-acetic acid: experimental small molecule (0 associated side effects)

6-phenyl-4(r)-(7-phenyl-heptanoylamino)-hexanoic acid: experimental small molecule (0 associated side effects)

elaidoylamide: experimental small molecule (0 associated side effects)

1-octadecyl-2-acetamido-2-deoxy-sn-glycerol-3-phosphoethylmethyl sulfide: experimental small molecule (0 associated side effects)

(s)-5-(4-benzyloxy-phenyl)-4-(7-phenyl-heptanoylamino)-pentanoic acid: experimental small molecule (0 associated side effects)

suramin: approved small molecule (0 associated side effects)
For treatment of human sleeping sickness, onchocerciasis and other diseases caused by trypanosomes and worms.

369 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abdominal pain upper
Abscess Acidosis Acne Acute coronary syndrome
Agitation Agranulocytosis Alanine aminotransferase increased
Alkalosis Alopecia Amblyopia Anaemia Anaphylactic
shock Anaphylactoid reaction Angina pectoris Angioedema Angiopathy
Anorectal discomfort Anorectal disorder Anxiety
Aortic dissection Apathy Aphasia Aphthous stomatitis
Aplastic anaemia Apnoea Application site reaction
Arrhythmia Arteriosclerosis Arthralgia Aspartate
aminotransferase increased Asthenia Asthma Atrophy

Azotaemia Back pain Bladder pain Bleeding time
 prolonged Blindness Blister Blood creatine phosphokinase
 increased Blood creatinine increased Blood potassium increased
 Body temperature increased Bone pain Bradycardia Breast
 disorder Breath odour Bronchitis Burning sensation Cardiac
 disorder Cardiac failure Cardiac failure congestive
 Cardiovascular disorder Cellulitis gangrenous
 Cerebrovascular accident Chest pain Chills
 Coagulopathy Colitis Colitis ulcerative Coma
 Confusional state Conjunctival hyperaemia Conjunctivitis
 allergic Constipation Convulsion Coordination abnormal
 Corneal deposits Corneal disorder Corneal erosion Corneal
 infiltrates Corneal oedema Corneal opacity Cough Crohn's disease
 Cystitis Cystitis noninfective Deafness Death Decreased
 appetite Dental caries Depersonalisation Dermatitis Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diarrhoea haemorrhagic Diplopia Discomfort Disorientation
 Disseminated intravascular coagulation Disturbance in
 attention Diverticulum Dizziness Drug ineffective Dry mouth
 Dry skin Dysarthria Dysgeusia Dyskinesia Dyspepsia
 Dyspnoea Dysthymic disorder Dysuria Ear pain
 Ecchymosis Eczema Electrolyte imbalance Enterocolitis
 Enterocolitis haemorrhagic Eosinophilia Epilepsy
 Epistaxis Erectile dysfunction Eructation Erythema
 Erythema multiforme Erythema nodosum Erythema of eyelid
 Eye allergy Eye disorder Eye inflammation Eye irritation
 Eye pain Eye pruritus Eyelid oedema Eyelids pruritus
 Face oedema Fasciitis Fatigue Feeling abnormal Fibrosis
 Flat affect Flatulence Fluid retention Flushing Furuncle
 Gait disturbance Gastric disorder Gastric pH decreased
 Gastric perforation Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingivitis Glossitis Glycosuria Gout
 Gynaecomastia Haematemesis Haematuria Haemoglobin
 Haemolytic anaemia Haemorrhage intracranial
 Haemorrhoids Hair disorder Hallucination Headache
 Hearing impaired Henoch-Schonlein purpura Hepatic cirrhosis
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatitis Hepatitis fulminant
 Hepatobiliary disease Hepatorenal syndrome Hereditary
 disorder Hernia Herpes simplex Herpes virus infection
 Hyperaemia Hyperaesthesia Hyperchlorhydria
 Hypercholesterolaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperkinesia Hypersensitivity
 Hypertension Hypertonia Hypertrophy Hyperventilation
 Hypoaesthesia Hypoglycaemia Hypokinesia Hyponatraemia
 Hypotension Ileitis Ileus Ill-defined disorder Immune
 system disorder Infarction Infection Infestation Influenza
 Insomnia Intestinal perforation Intestinal ulcer Intraocular
 pressure increased Iritis Irritability Jaundice
 Keratitis Lacrimal disorder Lacrimation increased Laryngeal
 oedema Laryngitis Laryngospasm Leukaemia Leukopenia Lip
 swelling Loss of consciousness Lung infection Lymphadenopathy
 Macule Malaise Melaena Memory impairment Meningitis
 aseptic Mental disability Mental disorder Migraine Mouth

ulceration Muscle rigidity Muscle spasms Muscular weakness
 Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Nail disorder Nausea Neck pain Necrosis Necrotising
 colitis Necrotising enterocolitis neonatalNecrotising fasciitis
 Neoplasm malignant Nephritic syndrome Nephritis
 Nephropathy Nephrotic syndrome Nervous system disorder
 Nervousness Neuritis Neuropathy peripheral Night blindness
 Nightmare Nocturia Nodule Nuchal rigidity Obstruction
 Ocular hyperaemiaOedema Oedema peripheralOesophageal
 disorder Oesophagitis Oliguria Osteoarthritis Pain
 Palpitations Pancreatitis Pancytopenia Papule
 Paraesthesia Peptic ulcer Petechiae Pharyngitis
 Phlebitis Photosensitivity reaction Platelet aggregation
 decreased Platelet count decreased Pneumonia Pneumothorax
 Pollakiuria Polyuria Proctalgia Proctitis Prostatic
 specific antigen increased Protein urine present Proteinuria
 Pruritus Psychotic disorder Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Punctate keratitis Purpura Rash Rash maculo-
 papular Rash pustular Rectal haemorrhage Rectal tenesmus
 Renal failure Renal failure acute Renal impairment Renal
 papillary necrosis Respiratory depression Respiratory disorder
 Retinopathy of prematurity Rhinitis Scotoma Seborrhoeic
 dermatitis Sepsis Shock Sinusitis Skin cancer Skin
 discolouration Skin exfoliation Skin hypertrophy Skin irritation
 Skin mass Skin odour abnormal Skin ulcer Sleep disorder
 Social avoidant behaviour Somnolence Speech disorder
 Stevens-Johnson syndrome Stomatitis Swelling Syncope
 Tachycardia Tension Testicular disorder Thinking abnormal
 Thirst Thrombocytopenia Thrombocytopenic purpura
 Thrombophlebitis Tic Tinnitus Tongue coated Tooth
 abscess Toxic epidermal necrolysis Tremor
 Tubulointerstitial nephritis Ulcer Ulcerative keratitis
 Urethral disorderUrinary tract disorder Urine output increased
 Urticaria Vaginal haemorrhage Vascular purpura Vasculitis
 Vasodilation procedure Ventricular extrasystoles Vertigo
 Viral infection Vision blurred Visual acuity reduced
 Visual impairmentVitreous floatersVomiting Weight decreased
 Weight increased

Acetylcholine receptor subunit delta - Group: Channel

Treated with:

galantamine: approved small molecule (160 associated side effects) For the treatment of mild to moderate dementia of the Alzheimer's type. Has also been investigated in patients with mild cognitive impairment who did not meet the diagnostic criteria for Alzheimer's disease.

160 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal pain Aggression Agitation
 Anaemia Anxiety Apathy Aphasia Apraxia
 Arrhythmia Arrhythmia supraventricular Arthralgia Arthritis

Asthenia Ataxia Atrial fibrillation Atrioventricular
 block Back pain Bladder pain Blood alkaline phosphatase
 increased Blood urea increased Body temperature increased Bone
 pain Bradycardia Bronchitis Bundle branch block Cardiac failure
 Cardiac fibrillation Cardiovascular disorder Cataract
 Cerebrovascular accident Cerebrovascular disorder Chest
 pain Coagulopathy Completed suicide Confusional state
 Constipation Convulsion Cough Cystitis Cystitis
 noninfective Decreased appetite Dehydration Delirium
 Depression Dermatitis Diarrhoea Discomfort Disturbance in
 sexual arousal Diverticulitis Dizziness Dry mouth Dysgeusia
 Dyspepsia Dysphagia Electrocardiogram QT prolonged
 Electrocardiogram T wave inversion Epistaxis Eye disorder
 Fatigue Feeling abnormal Flat affect Flatulence Gastric
 disorder Gastritis Gastroenteritis Gastrointestinal haemorrhage
 Gastrointestinal pain Gravitational oedema Haematuria
 Haemoglobin Haemorrhage Hallucination Headache Hepatic
 enzyme increased Hepatitis Hepatobiliary disease Hiccups
 Hyperglycaemia Hyperkinesia Hypersensitivity Hypersomnia
 Hypertension Hypertonia Hypokalaemia Hypokinesia
 Hypotension Ill-defined disorder Immune system disorder
 Incontinence Infarction Infection Insomnia Ischaemia
 Lethargy Libido increased Liver disorder Loss of
 consciousness Lower gastrointestinal haemorrhage Malaise
 Melaena Mental disorder Muscle contractions involuntary
 Muscle spasms Musculoskeletal discomfort Musculoskeletal
 disorder Myalgia Myocardial ischaemia Nausea
 Nephrolithiasis Nervous system disorder Nervousness
 Neuropathy peripheral Nightmare Nocturia Oedema
 Oedema peripheral Oesophageal disorder Oesophageal
 perforation Orthostatic hypotension Pain in extremity
 Palpitations Paraesthesia Paranoia Pneumonia
 Pollakiuria Purpura Rash Rectal haemorrhage Renal
 failure Respiratory disorder Respiratory tract infection
 Rhinitis Salivary hypersecretion Shock Somnolence
 Suicidal ideation Suicide attempt Supraventricular tachycardia
 Syncope Tachycardia Tension Thrombocytopenia
 Thrombocytosis Tinnitus Transient ischaemic attack
 Tremor Upper respiratory tract infection Urethral disorder
 Urinary incontinence Urinary retention Urinary tract disorder
 Urinary tract infection Vascular dementia Vascular purpura
 Ventricular tachycardia Vertigo Vision blurred
 Vomiting Weight decreased

ATP-binding cassette transporter sub-family C member 11 - Group:
 Transporter

Treated with:

folic acid: approved, nutraceutical small molecule (0 associated
 side effects) For treatment of folic acid deficiency,
 megaloblastic anemia and in anemias of nutritional supplements,
 pregnancy, infancy, or childhood.

conjugated estrogens: approved small molecule (219 associated
 side effects) For the treatment of moderate to severe vasomotor
 symptoms associated with the menopause, atrophic vaginitis,

osteoporosis, hypoestrogenism due to hypogonadism, castration, primary ovarian failure, breast cancer (for palliation only), and Advanced androgen-dependent carcinoma of the prostate (for palliation only)

indomethacin: approved small molecule (164 associated side effects) For moderate to severe rheumatoid arthritis including acute flares of chronic disease, ankylosing spondylitis, osteoarthritis, acute painful shoulder (bursitis and/or tendinitis) and acute gouty arthritis.

methotrexate: approved small molecule (209 associated side effects) For the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole. Also for the treatment of severe psoriasis and severe, active, classical or definite rheumatoid arthritis.

probenecid: approved small molecule (27 associated side effects) For the reduction of serum uric acid concentrations in chronic gouty arthritis and tophaceous gout in patients with frequent disabling gout attacks. Has also been effectively used to promote uric acid excretion in hyperuricemia secondary to the administration of thiazide and related diuretics.

cyclic adenosine monophosphate: experimental small molecule (0 associated side effects)

taurocholic acid: experimental small molecule (0 associated side effects)

429 known side effects mediated through drugs targeting this protein:

5q minus syndrome
Abdominal discomfort Abdominal distension
Abdominal pain Abdominal pain upper Abscess Acidosis
Acne Acute coronary syndrome Affect lability Aggression
Agitation Agranulocytosis Alkalosis Alopecia Alveolitis
Alveolitis allergic Amenorrhoea Anaemia Anaphylactic
shock Anaphylactoid reaction Angioedema Angiopathy Anorectal
discomfort Anxiety Apathy Aphasia Aplastic anaemia
Apnoea Arrhythmia Arterial thrombosis Arthralgia
Arthropathy Asthenia Asthma Ataxia Azoospermia
Azotaemia Back pain Benign neoplasm Bladder pain
Blindness Blindness transient Blood albumin decreased
Blood creatinine increased Blood glucose decreased Blood
glucose increased Blood potassium increased Blood pressure
increased Blood triglycerides increased Blood uric acid
increased Body temperature increased Bone disorder Bone pain
Bradycardia Breast discharge Breast discomfort Breast disorder
Breast enlargement Breast mass Breast neoplasm Breast pain
Breast swelling Breast tenderness Bronchitis Candidiasis
Carbohydrate tolerance decreased Cardiac failure Cardiac
failure congestive Cell death Cellulitis gangrenous Cerebral
artery thrombosis Cerebral thrombosis Cerebrovascular accident
Cervical discharge Cervix disorder Chest pain Chills
Chloasma Chorea Coagulopathy Cognitive disorder
Colitis ischaemic Colitis ulcerative Coma Confusional state
Conjunctivitis Connective tissue disorder Constipation
Convulsion Corneal deposits Coronary artery thrombosis Cough
Crohn's disease Cryptococcosis Cyanosis Cystitis
Cystitis noninfective Cytomegalovirus infection Deafness

Death Decreased appetite Deep vein thrombosis Dementia
 Dental plaque Depersonalisation Depression Dermatitis
 Dermatitis exfoliative Diabetes mellitus Diarrhoea Diplopia
 Discomfort Disseminated intravascular coagulation
 Diverticulum Dizziness Drug interaction Dry eye
 Dysarthria Dyskinesia Dysmenorrhoea Dyspepsia Dysplasia
 Dyspnoea Dysuria Ear pain Ecchymosis Ectropion of
 cervix Effusion Electrolyte imbalance Embolism Embolism
 venous Encephalopathy Endometrial cancer Endometrial
 hypertrophy Endometriosis Enteritis Enterocolitis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Erythema nodosum
 Extravasation Eye disorder Fasciitis Fatigue
 Febrile neutropenia Feeling abnormal Fibrocystic breast
 disease Fibrosis Flat affect Flatulence Fluid retention
 Flushing Folliculitis Furuncle Galactorrhoea
 Gallbladder disorder Gastric disorder Gastric perforation
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhage Gastrointestinal pain Gastrointestinal toxicity
 Generalised oedema Genital discharge Gingival pain
 Gingivitis Glossitis Glucose tolerance decreased Glucose
 tolerance impaired Glycosuria Gynaecomastia Haemangioma
 Haematemesis Haematocrit decreased Haematuria Haemoglobin
 Haemolytic anaemia Haemoptysis Haemorrhage intracranial
 Haemorrhagic disorder Headache Hemiparesis Hepatic cirrhosis
 Hepatic enzyme increased Hepatic failure Hepatic function
 abnormal Hepatic necrosis Hepatitis Hepatitis acute
 Hepatobiliary disease Herpes virus infection Herpes zoster
 Hirsutism Histoplasmosis Hyperbilirubinaemia
 Hypercalcaemia Hyperglycaemia Hyperhidrosis
 Hyperkalaemia Hyperlipidaemia Hypernatraemia
 Hypersensitivity Hypertension Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hypoaesthesia Hypocalcaemia Hypogammaglobulinaemia
 Hypoglycaemia Hyponatraemia Hypotension Hypothyroidism
 Ileitis Ileus Ill-defined disorder Infarction Infection
 Infertility Inflammation Influenza Injection site pain
 Insomnia Interstitial lung disease Intestinal ulcer
 Intra-uterine death Irritability Jaundice Jaundice
 cholestatic Lacrimal disorder Lacrimation increased Laryngitis
 Leiomyoma Lethargy Leukaemia Leukoencephalopathy
 Leukopenia Liver function test abnormal Loss of consciousness
 Loss of libido Lung disorder Lung infection
 Lymphadenopathy Lymphoma Lymphoproliferative disorder
 Macule Maculopathy Malaise Mass Melaena Meningioma
 benign Meningitis Meningitis aseptic Menorrhagia Menstrual
 disorder Mental disorder Metrorrhagia Migraine Mood swings
 Mouth ulceration Muscle rigidity Muscle spasms Muscular
 weakness Musculoskeletal discomfort Musculoskeletal pain
 Musculoskeletal stiffness Myalgia Myocardial infarction
 Nausea Neck pain Necrosis Necrotising colitis
 Necrotising enterocolitis neonatal Necrotising fasciitis
 Neoplasm Neoplasm malignant Nephritic syndrome
 Nephritis Nephropathy Nephrotic syndrome Nerve root lesion
 Nervous system disorder Nervousness Neuritis Neuropathy

peripheral Neutropenia Nipple pain Nocardiosis Nodule Nuchal
rigidity Obstruction Obstructive airways disorder Oedema
Oedema peripheral Oesophageal disorder Oliguria
Opportunistic infection Optic neuritis Osteoarthritis
Osteonecrosis Osteoporosis Ovarian cancer Pain in
extremity Palpitations Pancreatic disorder Pancreatitis
Pancytopenia Paraesthesia Paresis Pelvic pain
Peptic ulcer Pericardial effusion Pericarditis
Petechiae Pharyngitis Phlebitis Photosensitivity reaction
Pigmentation disorder Platelet aggregation decreased
Platelet count decreased Pleural disorder Pleural effusion
Pneumocystis jiroveci pneumonia Pneumonia Pneumonia
cytomegaloviral Pneumothorax Pollakiuria Polyuria Porphyria
Precocious puberty Proctalgia Proctitis Productive cough
Protein urine present Proteinuria Pruritus genital Psychotic
disorder Puberty Pulmonary embolism Pulmonary fibrosis
Pulmonary function test decreased Pulmonary haemorrhage
Pulmonary hypertension Pulmonary oedema Pulmonary toxicity
Purpura Radiculopathy Rales Rash generalised Rectal
haemorrhage Rectal tenesmus Renal colic Renal failure Renal
failure acute Renal tubular disorder Respiratory depression
Respiratory failure Respiratory tract infection Retinal
vein thrombosis Retinitis pigmentosa Retinopathy of prematurity
Rhinitis Sensory loss Sepsis Shock Sinusitis Skin
burning sensation Skin exfoliation Skin necrosis Skin ulcer Smear
cervix abnormal Soft tissue necrosis Somnolence Speech disorder
Spinal cord disorder Stomatitis Subcutaneous nodule
Sudden death Swelling Syncope Tachycardia
Telangiectasia Tenderness Tension Thrombocytopenia
Thrombocytopenic purpura Thrombophlebitis superficial
Thrombosis Tinnitus Tooth abscess Toxic epidermal
necrolysis Tubulointerstitial nephritis Tumour lysis syndrome Ulcer
Upper respiratory tract infection Ureteric obstruction
Urethral disorder Urinary tract disorder Urine output increased
Urticaria Uterine cancer Uterine cervical erosion
Uterine leiomyoma Uterine spasm Vaginal discharge Vaginal
haemorrhage Varicose vein Vascular purpura Vasculitis
Vasodilation procedure Venous thrombosis Vertigo Vision
blurred Visual acuity reduced Visual impairment Vomiting
Vulvovaginal candidiasis Vulvovaginal mycotic infection
Vulvovaginal pruritus Weight increased Withdrawal bleed X-
linked lymphoproliferative syndrome

Muscarinic acetylcholine receptor M4 - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia

and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

metixene: approved small molecule (0 associated side effects)

Used for the symptomatic treatment of parkinsonism.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

trihexyphenidyl: approved small molecule (43 associated side effects) Indicated for the treatment of parkinson's disease and extrapyramidal reactions caused by drugs.

procyclidine: approved small molecule (0 associated side effects) For the treatment of all forms of Parkinson's Disease, as well as control of extrapyramidal reactions induced by antipsychotic agents.

promazine: approved small molecule (0 associated side effects)

Used as an adjunct for short term treatment of moderate and severe psychomotor agitation. Also used to treat agitation or restlessness in the elderly.

hyoscyamine: approved small molecule (0 associated side effects) For treatment of bladder spasms, peptic ulcer disease, diverticulitis, colic, irritable bowel syndrome, cystitis, and pancreatitis. Also used to treat certain heart conditions, to control the symptoms of Parkinson's disease and rhinitis.

imipramine: approved small molecule (100 associated side effects) For the relief of symptoms of depression and as temporary adjunctive therapy in reducing enuresis in children aged 6 years and older. May also be used to manage panic disorders, with or without agoraphobia, as a second line agent in ADHD, management of eating disorders, for short-term management of acute depressive episodes in bipolar disorder and schizophrenia, and for symptomatic treatment of postherpetic neuralgia.

darifenacin: approved small molecule (69 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency.

nortriptyline: approved small molecule (91 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.

atropine: approved small molecule (161 associated side effects) For the treatment of poisoning by susceptible organophosphorous nerve agents having cholinesterase activity as well as organophosphorous or carbamate insecticides.

nicardipine: approved small molecule (107 associated side effects) Used for the management of patients with chronic stable angina and for the treatment of hypertension.

paroxetine: approved small molecule (505 associated side effects) Labeled indications include: major depressive disorder (MDD), panic disorder with or without agoraphobia, obsessive-compulsive disorder (OCD), social anxiety disorder (social phobia), generalized anxiety disorder (GAD), post-traumatic stress disorder (PTSD), and premenstrual dysphoric disorder (PMDD). Unlabeled indications include: eating disorders, impulse control disorders, vasomotor symptoms of menopause, obsessive-compulsive disorder (OCD)

in children, and mild dementia-associated agitation in nonpsychotic individuals.

homatropine methylbromide: approved small molecule (0 associated side effects) Used in conjunction with antacids or histamine H₂-receptor antagonists in the treatment of peptic ulcers, gastric ulcers and duodenal ulcers, to reduce further gastric acid secretion and delay gastric emptying.

scopolamine: approved small molecule (22 associated side effects) For the treatment of excessive salivation, colicky abdominal pain, bradycardia, sialorrhoea, diverticulitis, irritable bowel syndrome and motion sickness.

benzquinamide: approved small molecule (0 associated side effects) Used to prevent and treat nausea and vomiting associated with anesthesia and surgery, administered intramuscularly or intravenously.

propiomazine: approved small molecule (0 associated side effects) Propiomazine is largely used for its antihistaminic sleep inducing effects in treating insomnia.

cryptenamine: approved small molecule (0 associated side effects) For the treatment of hypertension.

tropicamide: approved small molecule (14 associated side effects) Indicated to induce mydriasis (dilation of the pupil) and cycloplegia (paralysis of the ciliary muscle of the eye) in diagnostic procedures, such as measurement of refractive errors and examination of the fundus of the eye.

brompheniramine: approved small molecule (27 associated side effects) For the treatment of the symptoms of the common cold and allergic rhinitis, such as runny nose, itchy eyes, watery eyes, and sneezing.

maprotiline: approved small molecule (0 associated side effects) For treatment of depression, including the depressed phase of bipolar depression, psychotic depression, and involuntional melancholia, and may also be helpful in treating certain patients suffering severe depressive neurosis.

tolterodine: approved small molecule (51 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

promethazine: approved small molecule (80 associated side effects) For the treatment of allergic disorders, and nausea/vomiting.

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

desipramine: approved small molecule (120 associated side effects) For relief of symptoms in various depressive syndromes, especially endogenous depression. It has also been used to manage chronic peripheral neuropathic pain, as a second line agent for the management of anxiety disorders (e.g. panic disorder, generalized anxiety disorder), and as a second or third line agent in the ADHD management.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

chlorprothixene: approved small molecule (0 associated side effects) For treatment of psychotic disorders (e.g. schizophrenia) and of acute mania occurring as part of bipolar disorders.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

solifenacin: approved small molecule (56 associated side effects) For the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency.

isopropamide: approved small molecule (0 associated side effects) For the treatment of a wide range of gastrointestinal disorders, including such conditions as peptic ulcer, gastritis, hyperchlorhydria, functional diarrhea, irritable or spastic colon, pyloroduodenal irritability, pylorospasm, acute nonspecific gastroenteritis, biliary dyskinesia and chronic cholelithiasis, duodenitis, gastrointestinal spasm; it may also be used to treat genitourinary spasm.

fesoterodine: approved small molecule (50 associated side effects) For the treatment of overactive bladder (with symptoms of urinary frequency, urgency, or urge incontinence).

1017 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
 Abdominal pain lower Abdominal pain upper Abdominal tenderness
 Abnormal dreams Abnormal faeces Abscess Accommodation disorder
 Acidosis Acne Acute coronary syndrome Acute psychosis
 Adenocarcinoma Adjustment disorder Affect lability Ageusia
 Aggression Agitation Agoraphobia Agranulocytosis Akathisia
 Akinesia Alanine aminotransferase increased Albuminuria
 Alcohol abuse Alcohol intolerance Alkalosis Alopecia
 Altered state of consciousness Alveolitis allergic Amblyopia
 Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaphylactic shock
 Anaphylactoid reaction Anger Angina pectoris Angioedema
 Angiopathy Angle closure glaucoma Anhidrosis Anisocytosis
 Anorectal disorder Anorgasmia Antinuclear antibody positive
 Antisocial behaviour Antisocial personality disorder Anxiety
 Aortic dissection Apathy Aphasia Aphthous stomatitis Aplasia
 Aplastic anaemia Apnoea Appendicitis Application site reaction
 Arrhythmia Arrhythmia supraventricular Arteriosclerosis
 Arteritis Arthralgia Arthritis Arthropathy Asocial behaviour
 Aspartate aminotransferase increased Asphyxia Aspiration
 Assisted fertilisation Asthenia Asthma Ataxia Atelectasis
 Athetosis Atrial fibrillation Atrial flutter Atrioventricular
 block first degree Atrioventricular dissociation Atrophy
 Azoospermia Azotaemia Back pain Balance disorder Basophilia
 Benign prostatic hyperplasia Bladder dilatation Bladder pain
 Bleeding time prolonged Blepharitis Blepharospasm
 Blindness Blister Blood alkaline phosphatase increased
 Blood bilirubin increased Blood cholesterol increased Blood

creatine phosphokinase increased Blood creatinine increased Blood
glucose decreased Blood glucose increased Blood insulin
increased Blood lactate dehydrogenase increased Blood potassium
decreased Blood potassium increased Blood pressure abnormal
Blood pressure diastolic decreased Blood pressure fluctuation
Blood pressure increased Blood pressure systolic decreased
Blood prolactin increased Blood triglycerides increased
Blood triglycerides normal Blood urea increased Blood uric
acid increased Blood urine Blood urine present Blunted affect
Body temperature decreased Body temperature increased Bone
disorder Bone pain Bradycardia Bradykinesia Bradyphrenia
Brain oedema Breast atrophy Breast cancer Breast cyst
Breast disorder Breast enlargement Breast feeding
Breast neoplasm Breast pain Bronchitis Bronchopneumopathy
Bronchospasm Bruxism Buccoglossal syndrome Bulimia
nervosa Bundle branch block Burning sensation Bursitis
Cachexia Calculus urinary Candidiasis Carbohydrate tolerance
decreased Cardiac arrest Cardiac disorder Cardiac failure
Cardiac failure congestive Cardiac fibrillation Cardiac
flutter Cardiac murmur Cardiac output decreased Cardio-
respiratory arrest Cardiomegaly Cardiomyopathy
Cardiopulmonary failure Cardiovascular disorder
Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
in urine Cellulitis Cerebellar syndrome Cerebral haemorrhage
Cerebral infarction Cerebral ischaemia Cerebrovascular
accident Cerebrovascular disorder Cervicitis Cervix disorder
Chapped lips Cheilitis Chest discomfort Chest pain
Chills Cholecystitis Cholelithiasis Cholestasis
Cholinergic syndrome Chondropathy Chorea
Choreoathetosis Chronic lymphocytic leukaemia Chronic
obstructive pulmonary disease Clonus Coccydynia Cognitive
disorder Cogwheel rigidity Cold sweat Colitis Colonic
obstruction Coma Completed suicide Condition aggravated Confusional
state Conjunctival disorder Conjunctival hyperaemia
Conjunctival oedema Conjunctivitis Connective tissue
disorder Constipation Conversion disorder Convulsion
Coordination abnormal Corneal lesion Costochondritis Cough
Crying Cyanosis Cycloplegia Cystitis Cystitis
noninfective Deafness Death Decreased appetite Decubitus
ulcer Deep vein thrombosis Deficiency anaemia Dehydration
Delirium Delusion Dementia Dental caries Dependence
Depersonalisation Depressed level of consciousness Depression
Depressive symptom Derealisation Dermal cyst Dermatitis
atopic Dermatitis bullous Dermatitis contact Dermatitis
exfoliative Diabetes mellitus Diabetic coma Diabetic
hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
ketoacidosis Diarrhoea Diarrhoea haemorrhagic Diplopia
Discomfort Disease progression Disorientation
Dissociation Disturbance in attention Disturbance in
sexual arousal Diverticulitis Dizziness Dizziness exertional
Dizziness postural Drooling Drug abuse Drug dependence
Drug eruption Drug interaction Drug withdrawal syndrome
Dry eye Dry mouth Dry skin Dry throat Duodenal ulcer
Duodenitis Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea
Dyspepsia Dysphagia Dysphemia Dysphonia Dysphoria

Dyspnoea Dystonia Dysuria Ear disorder Ear
 infection Ear pain Ecchymosis Eclampsia Eczema Effusion
 Ejaculation delayed Ejaculation disorder Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 Electrocardiogram ST segment depression Electrocardiogram ST
 segment elevation Electrocardiogram T wave inversion Electrocardiogram
 abnormal Electrocardiogram change Electroencephalogram
 abnormal Elevated mood Embolism Emphysema Encephalopathy
 Endocrine disorder Endometrial disorder Energy increased
 Enteritis Enuresis Eosinophilia Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Erythema nodosum Euphoric
 mood Exfoliative rash Exophthalmos Exostosis Extensor plantar
 response Extrapyramidal disorder Extrasystoles
 Extravasation Eye discharge Eye disorder Eye
 haemorrhage Eye infection Eye inflammation Eye irritation Eye
 pain Eyelid disorder Eyelid function disorder Eyelid oedema
 Eyelid ptosis Face oedema Facial pain Facial paresis
 Faecal incontinence Faecalith Faecaloma Faeces hard
 Fasting Fatigue Fear Feeling abnormal Feeling cold
 Feeling hot Feeling jittery Female sexual dysfunction
 Fibrocystic breast disease Fibrosis Flank pain Flat affect
 Flatulence Fluid retention Flushing Folliculitis Food
 interaction Formication Fungal infection Fungal skin infection
 Furuncle Gait disturbance Galactorrhoea Gamma-
 glutamyltransferase increased Gangrene Gastric disorder
 Gastric pH decreased Gastric ulcer Gastric ulcer
 haemorrhage Gastritis Gastroenteritis Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrointestinal sounds abnormal Gastrooesophageal reflux
 disease Generalised oedema Genital discharge Genital disorder
 female Genital disorder male Gingival bleeding Gingival
 hyperplasia Gingival pain Gingival recession Gingivitis
 Glaucoma Globulins increased Glomerulonephritis
 membranous Glossitis Glossodynia Glucose tolerance decreased
 Glucose tolerance impaired Glycosuria Glycosylated
 haemoglobin increased Goitre Gout Grand mal convulsion Groin
 pain Gynaecomastia Haematemesis Haematochezia Haematocrit
 decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemoglobinuria Haemolysis Haemolytic
 anaemia Haemoptysis Haemorrhage Haemorrhage intracranial
 Haemorrhagic disorder Haemorrhoids Hallucination
 Hallucination, auditory Hallucination, visual Hangover
 Head discomfort Headache Hearing impaired Heart disease
 congenital Heart rate irregular Hemiparesis Hemiplegia Hepatic
 enzyme increased Hepatic failure Hepatic function abnormal
 Hepatic necrosis Hepatic steatosis Hepatitis Hepatobiliary
 disease Hepatomegaly Hepatosplenomegaly Hernia
 Herpes simplex Herpes virus infection Herpes zoster
 Hiccups Hirsutism Homicidal ideation Hormone level
 abnormal Hostility Hot flush Hyperacusis Hyperaesthesia
 Hyperbilirubinaemia Hypercalcaemia Hyperchloraemia
 Hyperchlorhydria Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperinsulinism Hyperkalaemia

Hyperkeratosis Hyperkinesia Hyperlipidaemia
 Hypermagnesaemia Hypernatraemia Hyperparathyroidism
 Hyperpathia Hyperphosphataemia Hyperplasia
 Hyperprolactinaemia Hyperpyrexia Hyperreflexia
 Hypersensitivity Hypersomnia Hypertension Hyperthermia
 Hyperthyroidism Hypertonia Hypertonic bladder
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypohidrosis
 Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
 Hypomenorrhoea Hyponatraemia Hypophagia Hypophosphataemia
 Hypoproteinaemia Hyporeflexia Hypotension Hypothermia
 Hypothyroidism Hypotonia Hypoventilation Hypoxia
 Idiopathic thrombocytopenic purpura Ileitis Ileus
 paralytic Ill-defined disorder Immune system disorder
 Immunoglobulins increased Impaired gastric emptying
 Inappropriate antidiuretic hormone secretion Incontinence
 Increased appetite Increased bronchial secretion
 Induration Infarction Infection Infertility female
 Infestation Inflammation Influenza Inguinal hernia
 Injection site mass Injection site pain Injection site
 phlebitis Injection site reaction Insomnia Intention tremor
 Intentional self-injury Interstitial lung disease
 Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Intraocular pressure increased Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic stroke Jaundice Jaundice
 cholestatic Joint contracture Joint range of motion decreased Joint
 stiffness Joint swelling Judgement impaired Keratitis
 Keratoconjunctivitis sicca Ketoacidosis Ketosis
 Lacrimation decreased Lacrimation increased Laryngeal
 disorder Laryngitis Laryngospasm Left ventricular failure
 Leiomyoma Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukaemia Leukocytosis Leukoderma
 Leukopenia Leukoplakia oral Libido decreased Libido increased
 Lip blister Lip dry Liver disorder Liver function test
 abnormal Logorrhoea Loss of consciousness Loss of libido Lower
 respiratory tract infection Lung adenocarcinoma stage I
 Lymphadenitis Lymphadenopathy Lymphocyte count abnormal
 Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphopenia
 Major depression Malaise Male sexual dysfunction
 Malignant melanoma Mania Masked facies Mass Mastitis
 Mediastinal disorder Megacolon Melaena Memory impairment
 Meningitis Menopausal symptoms Menorrhagia Menstrual
 disorder Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metrorrhagia
 Microcytic anaemia Micturition disorder Micturition
 urgency Migraine Miosis Mitral valve incompetence
 Mobility decreased Monocytosis Mood swings Motion sickness
 Mouth ulceration Movement disorder Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort

Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenic syndrome
Mydriasis Myelitis Myocardial infarction Myocardial
ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
Nasal congestion Nasal disorder Nasal dryness
Nasopharyngitis Nausea Neck pain Necrosis Negativism
Neoplasm Neoplasm malignant Nephritis Nephrolithiasis
Nervous system disorder Nervousness Neuralgia Neuritis
Neurodermatitis Neuroleptic malignant syndrome Neuropathy
peripheral Neurosis Neutropenia Neutrophil count decreased
Neutrophil count increased Night blindness Night sweats
Nightmare Nocturia Nodal arrhythmia Nodal rhythm
Normochromic normocytic anaemia Nuchal rigidity Nystagmus
Obesity Obsessive thoughts Obstruction Obstructive
airways disorder Ocular hyperaemia Oculogyric crisis Oedema
Oedema peripheral Oesophageal achalasia Oesophageal disorder
Oesophageal ulcer Oesophagitis Oliguria Onychomycosis
Open angle glaucoma Opisthotonus Optic neuritis Oral
candidiasis Oral disorder Oral pain Orchitis noninfective
Orgasm abnormal Oropharyngeal discomfort Oropharyngeal
pain Oropharyngeal spasm Orthostatic hypotension
Osteoarthritis Osteopenia Osteoporosis Otitis externa
Otitis media Ovarian cyst Ovarian disorder Pain Pain
in extremity Pain in jaw Pallor Palpitations
Pancreatitis Pancreatitis acute Pancytopenia Panic
attack Panic disorder Panic disorder with agoraphobia Panic
reaction Paraesthesia oral Paralysis Paranoia Parity
Parkinsonian gait Parosmia Parotid gland enlargement
Parotitis Pathological fracture Pelvic pain Peptic ulcer
Pericardial effusion Pericardial haemorrhage
Pericarditis Periodontitis Periorbital oedema
Peripheral vascular disorder Peritonitis Personality disorder
Petechiae Pharyngeal disorder Pharyngeal erythema
Pharyngitis Phlebitis Phobia Phonological disorder
Photophobia Photopsia Photosensitivity reaction Platelet
count decreased Pleural disorder Pleural effusion Pneumonia
Pneumonia aspiration Poisoning Pollakiuria Polycythaemia
Polydipsia Polyp Polyuria Porphyria Postpartum disorder
Pregnancy Premature baby Premature delivery Premature
ejaculation Premenstrual syndrome Pressure of speech Presyncope
Priapism Productive cough Prostate cancer Prostatic
disorder Prostatitis Protein urine present Proteinuria Protrusion
tongue Pruritus Pruritus genital Psoriasis Psychiatric
symptom Psychomotor retardation Psychotic disorder
Pulmonary congestion Pulmonary embolism Pulmonary
fibrosis Pulmonary function test decreased Pulmonary hypertension
Pulmonary oedema Punctate keratitis Pupils unequal
Purpura Pyelonephritis Pyuria Rales Rash erythematous
Rash macular Rash maculo-papular Rash papular Rash
pustular Rash scarlatiniform Rash vesicular Rectal
haemorrhage Red blood cell abnormality Red blood cell count
decreased Red blood cell sedimentation rate increased Reflux
oesophagitis Regressive behaviour Renal failure acute Renal
impairment Renal pain Reproductive tract disorder Respiratory
alkalosis Respiratory arrest Respiratory depression Respiratory

disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Retinal
 haemorrhage Rhabdomyolysis Rheumatoid arthritis Rhinitis
 Rhinitis allergic Rhinitis seasonal Rhinorrhoea Rhonchi
 Rosacea Salivary gland enlargement Salivary
 hypersecretion Salpingitis Scab Schizoaffective disorder
 Schizophreniform disorder Sciatica Scotoma Seasonal
 allergy Seborrhoeic dermatitis Sedation Sensation of heaviness
 Sensory loss Sepsis Septic shock Sexual
 dysfunction Shock Sialoadenitis Sicca syndrome Sinus arrhythmia
 Sinus bradycardia Sinus congestion Sinus disorder Sinus
 headache Sinus tachycardia Sinusitis Skin discolouration Skin
 disorder Skin exfoliation Skin hypertrophy Skin irritation Skin
 ulcer Skin warm Sleep apnoea syndrome Sleep disorder Sleep
 paralysis Sleep talking Sluggishness Sneezing Social
 avoidant behaviour Somnambulism Somnolence Speech disorder
 Sputum increased Status epilepticus Stevens-Johnson
 syndrome Stomatitis Strabismus Stridor Stupor
 Subarachnoid haemorrhage Subdural haematoma Sudden
 death Suicidal ideation Suicide attempt Supraventricular
 extrasystoles Supraventricular tachycardia Surgery
 Suspiciousness Swelling Swelling face Swollen tongue
 Syncope Systemic lupus erythematosus Tachycardia Tachypnoea
 Tardive dyskinesia Tearfulness Temperature intolerance
 Tenderness Tendonitis Tenosynovitis Tension headache
 Teratogenicity Testicular disorder Testicular pain
 Testicular swelling Tetany Thinking abnormal Thirst
 Thought blocking Throat tightness Thrombocytopenia
 Thrombocytopenic purpura Thrombocytosis Thrombophlebitis
 Thrombosis Thyroiditis Tic Tinnitus Tongue discolouration
 Tongue disorder Tongue dry Tongue oedema Tongue paralysis
 Tongue spasm Tonsillar hypertrophy Tooth abscess Tooth
 disorder Tooth impacted Tooth infection Tooth malformation
 Toothache Torsade de pointes Torticollis Toxic epidermal
 necrolysis Tracheal disorder Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Ulcerative
 keratitis Unintended pregnancy Upper respiratory tract infection
 Urethral disorder Urethritis Urinary hesitation Urinary
 incontinence Urinary retention Urinary tract disorder Urinary
 tract infection Urine abnormality Urine analysis abnormal Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterine neoplasm Uterine spasm
 Uterovaginal prolapse VIIIth nerve paralysis Vaginal discharge
 Vaginal haemorrhage Vaginal infection Vaginal inflammation
 Varicose vein Vascular headache Vascular purpura Vasculitis
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Ventricular failure Ventricular
 fibrillation Ventricular flutter Ventricular tachycardia
 Vertigo Viral diarrhoea Viral infection Vision blurred
 Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased

Wheezing White blood cell count decreased White blood cell
count increased White blood cell disorder White blood cells
urine positive Withdrawal syndrome Xerophthalmia Xerosis
Yawning

5-hydroxytryptamine 6 receptor - Group: Receptor

Treated with:

ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

dimethyltryptamine: illicit,experimental small molecule (0 associated side effects) Some people use this compound as a psychedelic inducing agent.

sertindole: approved,withdrawn small molecule (0 associated side effects) Used in the treatment of schizophrenia.

806 known side effects mediated through drugs targeting this protein:

Abasia Abdominal discomfort Abdominal distension Abdominal pain
Abdominal pain lower Abdominal pain upper Abdominal tenderness
Abnormal dreams Abnormal faeces Abscess Accommodation disorder
Acidosis Acne Acute coronary syndrome Acute psychosis Affect lability
Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia
Alanine aminotransferase increased Albuminuria Alcohol intolerance
Alkalosis Alopecia Altered state of consciousness Amblyopia
Amenorrhoea Amnesia Anaemia Anaemia macrocytic Anaphylactic shock
Anaphylactoid reaction Anger Angina pectoris Angioedema
Angiopathy Angle closure glaucoma Anorgasmia Antisocial behaviour
Antisocial personality disorder Anxiety Aortic dissection Apathy
Aphasia Aphthous stomatitis Apnoea Appendicitis Arrhythmia
Arteritis Arthralgia Arthritis Arthropathy Asocial behaviour
Aspartate aminotransferase increased Asphyxia Aspiration Asthenia
Asthma Ataxia Atelectasis Atrial fibrillation Atrial flutter
Atrioventricular block first degree Azotaemia Back pain
Balance disorder Basophilia Benign prostatic hyperplasia
Bladder pain Blepharitis Blepharospasm Blindness Blister
Blood alkaline phosphatase increased Blood bilirubin increased
Blood cholesterol

increased Blood creatine phosphokinase increased Blood creatinine
 increased Blood glucose decreased Blood glucose increased
 Blood insulin increased Blood lactate dehydrogenase
 increased Blood potassium decreased Blood potassium increased
 Blood pressure abnormal Blood pressure diastolic decreased
 Blood pressure fluctuation Blood pressure increased Blood
 pressure systolic decreased Blood prolactin increased Blood
 triglycerides increased Blood triglycerides normal Blood urea
 increased Blood uric acid increased Blood urine Blood urine
 present Blunted affect Body temperature decreased Body
 temperature increased Bone pain Bradycardia Bradykinesia
 Bradyphrenia Breast disorder Breast enlargement
 Breast feeding Breast pain Bronchitis Bronchopneumopathy
 Bruxism Buccoglossal syndrome Bundle branch block
 Burning sensation Bursitis Calculus urinary Candidiasis
 Carbohydrate tolerance decreased Cardiac arrest Cardiac
 disorder Cardiac failure Cardiac failure congestive Cardiac
 fibrillation Cardiac flutter Cardiac murmur Cardio-
 respiratory arrest Cardiomegaly Cardiomyopathy
 Cardiopulmonary failure Cardiovascular disorder
 Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
 in urine Cellulitis Cerebral haemorrhage Cerebral infarction
 Cerebral ischaemia Cerebrovascular accident Cervicitis
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Cholecystitis Cholelithiasis Cholestasis
 Choreoathetosis Chronic obstructive pulmonary disease
 Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat
 Colitis Coma Completed suicide Condition aggravated
 Confusional state Conjunctivitis Connective tissue disorder
 Constipation Convulsion Coordination abnormal Corneal
 lesion Costochondritis Cough Cyanosis Cystitis Cystitis
 noninfective Deafness Death Decreased appetite Decubitus
 ulcer Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dental caries Dependence
 Depersonalisation Depressed level of consciousness Depression
 Depressive symptom Derealisation Dermal cyst Dermatitis
 atopic Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diabetes mellitus Diabetic coma Diabetic
 hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
 ketoacidosis Diarrhoea Diplopia Discomfort Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Dizziness exertional Dizziness postural
 Drooling Drug abuse Drug dependence Drug eruption Drug
 interaction Dry eye Dry mouth Dry skin Dry throat Duodenal
 ulcer Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphemia Dysphonia Dysphoria Dyspnoea
 Dystonia Dysuria Ear disorder Ear infection Ear
 pain Ecchymosis Eczema Effusion Ejaculation disorder
 Elastosis perforans Electrocardiogram QT prolonged
 Electrocardiogram ST segment elevation Electrocardiogram T
 wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Embolism
 Encephalopathy Endocrine disorder Energy increased
 Enteritis Enuresis Eosinophilia Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation

Erythema Erythema multiforme Euphoric mood Exfoliative
 rash Exostosis Extrapyrarnidal disorder Extrasystoles Eye
 discharge Eye disorder Eye haemorrhage Eye infection Eye
 inflammation Eye irritation Eye pain Eyelid disorder
 Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces hard Fasting Fatigue Fear
 Feeling abnormal Feeling cold Feeling hot Feeling jittery
 Female sexual dysfunction Flank pain Flat affect Flatulence
 Flushing Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gastric disorder Gastric pH decreased Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrooesophageal reflux disease
 Genital discharge Gingival bleeding Gingival pain Gingivitis
 Glaucoma Glossitis Glossodynia Glucose tolerance decreased
 Glucose tolerance impaired Glycosuria Glycosylated
 haemoglobin increased Goitre Gout Grand mal convulsion Groin
 pain Gynaecomastia Haematemesis Haematochezia Haematocrit
 decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemolysis Haemoptysis Haemorrhage
 Haemorrhage intracranial Haemorrhoids Hallucination
 Hallucination, auditory Hallucination, visual Hangover
 Head discomfort Headache Heart disease congenital Heart
 rate irregular Hemiparesis Hemiplegia Hepatic enzyme increased
 Hepatic failure Hepatic steatosis Hepatitis Hepatobiliary
 disease Hepatomegaly Hernia Hiccups Hirsutism
 Homicidal ideation Hormone level abnormal Hostility Hot
 flush Hyperacusis Hyperaesthesia Hyperbilirubinaemia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypernatraemia Hyperparathyroidism
 Hyperplasia Hyperreflexia Hypersensitivity Hypersomnia
 Hypertension Hyperthermia Hyperthyroidism Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypokalaemia
 Hypokinesia Hypomagnesaemia Hypomania Hypomenorrhoea
 Hyponatraemia Hypophagia Hypoproteinaemia Hyporeflexia
 Hypotension Hypothermia Hypothyroidism Hypotonia
 Hypoventilation Hypoxia Idiopathic thrombocytopenic
 purpura Ileus Ileus paralytic Ill-defined disorder Immune
 system disorder Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Induration Infarction
 Infection Infestation Inflammation Influenza Inguinal
 hernia Injection site mass Injection site pain Injection
 site reaction Insomnia Intention tremor Intentional self-
 injury Interstitial lung disease Intestinal functional
 disorder Intestinal obstruction Intestinal perforation Iron
 deficiency Iron deficiency anaemia Irritability Irritable
 bowel syndrome Ischaemia Ischaemic stroke Jaundice Jaundice

cholestatic Joint contracture Joint range of motion decreased Joint
stiffness Joint swelling Judgement impaired Keratitis
Ketoacidosis Ketosis Lacrimation increased Laryngitis
Laryngospasm Leiomyoma Lens disorder Lenticular
opacities Lenticular pigmentation Lethargy Leukocytosis
Leukoderma Leukopenia Leukoplakia oral Libido decreased
Libido increased Lip dry Liver disorder Logorrhoea Loss
of consciousness Loss of libido Lower respiratory tract infection
Lymphadenopathy Lymphocytosis Lymphoedema Malaise Male
sexual dysfunction Mania Masked facies Mastitis Mediastinal
disorder Melaena Memory impairment Menopausal symptoms
Menorrhagia Menstrual disorder Menstruation irregular
Mental disability Mental disorder Mental retardation
Mental status changes Metrorrhagia Micturition urgency
Migraine Miosis Mitral valve incompetence Mobility
decreased Monocytosis Mood swings Mouth ulceration Movement disorder
Muscle contractions involuntary Muscle contracture
Muscle enzyme increased Muscle relaxant therapy
Muscle rigidity Muscle spasms Muscle tightness Muscle
twitching Muscular weakness Musculoskeletal chest pain
Musculoskeletal discomfort Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenic syndrome
Mydriasis Myocardial infarction Myocardial ischaemia
Myocarditis Myoclonus Myopathy Nasal congestion Nasal
disorder Nasal dryness Nasopharyngitis Nausea Neck pain
Nephritis Nephrolithiasis Nervous system disorder
Nervousness Neuralgia Neurodermatitis Neuroleptic malignant
syndrome Neuropathy peripheral Neurosis Neutropenia Neutrophil
count decreased Neutrophil count increased Night sweats
Nightmare Nocturia Normochromic normocytic anaemia
Nuchal rigidity Nystagmus Obesity Obsessive thoughts
Obstruction Ocular hyperaemia Oculogyric crisis Oedema
Oedema peripheral Oesophageal disorder Oesophageal ulcer
Oesophagitis Oliguria Onychomycosis Opisthotonus
Oral candidiasis Oral pain Orchitis noninfective
Oropharyngeal discomfort Oropharyngeal pain
Oropharyngeal spasm Orthostatic hypotension
Osteoarthritis Osteopenia Osteoporosis Otitis externa
Otitis media Ovarian cyst Pain Pain in extremity Pain
in jaw Pallor Palpitations Pancreatitis
Pancreatitis acute Panic attack Panic disorder Panic
disorder with agoraphobia Panic reaction Paraesthesia oral
Paralysis Paranoia Parkinsonian gait Pathological fracture
Pelvic pain Peptic ulcer Pericardial effusion
Pericarditis Periodontitis Periorbital oedema
Personality disorder Petechiae Pharyngeal erythema
Pharyngitis Phlebitis Phobia Phonological disorder
Photophobia Photopsia Photosensitivity reaction Platelet
count decreased Pleural disorder Pleural effusion Pneumonia
Pneumonia aspiration Poisoning Pollakiuria Polycythaemia
Polydipsia Polyuria Premature ejaculation Premenstrual
syndrome Presyncope Priapism Productive cough Prostatitis
Protein urine present Proteinuria Protrusion tongue Pruritus
Pruritus genital Psoriasis Psychiatric symptom Psychomotor
retardation Psychotic disorder Pulmonary congestion Pulmonary

embolism Pulmonary oedema Purpura Pyelonephritis Pyuria
 Rash erythematous Rash maculo-papular Rash papular Rash
 pustular Rash vesicular Rectal haemorrhage Red blood cell
 count decreased Red blood cell sedimentation rate increased
 Reflux oesophagitis Regressive behaviour Renal failure
 acute Respiratory alkalosis Respiratory arrest Respiratory
 disorder Respiratory distress Respiratory failure Respiratory
 tract congestion Respiratory tract infection Respiratory tract
 infection viral Restless legs syndrome Retching Rhabdomyolysis
 Rheumatoid arthritis Rhinitis Rhinitis allergic Rhinitis
 seasonal Rhinorrhoea Rhonchi Rosacea Salivary gland
 enlargement Salivary hypersecretion Scab Schizoaffective
 disorder Schizophreniform disorder Sciatica Scotoma
 Seasonal allergy Seborrhoeic dermatitis Sedation Sensation
 of heaviness Sensory loss Sepsis Septic shock
 Sexual dysfunction Shock Sinus congestion Sinus disorder
 Sinus headache Sinus tachycardia Sinusitis Skin
 discolouration Skin irritation Skin ulcer Sleep apnoea syndrome
 Sleep disorder Sleep talking Sluggishness Sneezing
 Social avoidant behaviour Somnambulism Somnolence
 Speech disorder Status epilepticus Stevens-Johnson
 syndrome Stomatitis Stridor Stupor Subarachnoid
 haemorrhage Subdural haematoma Sudden death Suicidal ideation
 Suicide attempt Supraventricular tachycardia Suspiciousness
 Swelling Swelling face Swollen tongue Syncope
 Tachycardia Tardive dyskinesia Tenderness Tendonitis
 Tenosynovitis Tension headache Testicular pain Thinking
 abnormal Thirst Thought blocking Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thyroiditis Tic Tinnitus
 Tongue discolouration Tongue disorder Tongue dry Tongue
 oedema Tongue paralysis Tongue spasm Tonsillar hypertrophy
 Tooth abscess Tooth disorder Tooth impacted Tooth
 infection Toothache Torsade de pointes Torticollis Toxic
 epidermal necrolysis Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Unintended
 pregnancy Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterovaginal prolapse VIIIth nerve
 paralysis Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasculitis Vasodilation procedure Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Viral diarrhoea Viral infection Vision
 blurred Visual acuity reduced Visual impairment Vomiting
 Vulvovaginal candidiasis Vulvovaginal mycotic infection
 Vulvovaginal pruritus Vulvovaginitis Water intoxication
 Weight decreased Weight fluctuation Weight increased
 Wheezing White blood cell count decreased White blood cell
 count increased White blood cells urine positive Withdrawal
 syndrome Xerosis

Outer membrane protein G - Group: Channel

Treated with:

lauryl dimethylamine-n-oxide: experimental small molecule
(0 associated side effects)
(hydroxyethyloxy)tri(ethyloxy)octane: experimental small
molecule (0 associated side effects)

known side effects mediated through drugs targeting this protein:

Alpha-2A adrenergic receptor - Group: Receptor

Treated with:

bethanidine: approved small molecule (0 associated side effects) For the treatment of hypertension.
ziprasidone: approved small molecule (251 associated side effects) For the treatment of schizophrenia and related psychotic disorders.
cabergoline: approved small molecule (96 associated side effects) For the treatment of hyperprolactinemic disorders, either idiopathic or due to prolactinoma (prolactin-secreting adenomas). May also be used to manage symptoms of Parkinsonian Syndrome as monotherapy during initial symptomatic management or as an adjunct to levodopa therapy during advanced stages of disease.
ropinirole: approved small molecule (631 associated side effects) For the treatment of the signs and symptoms of idiopathic Parkinson's disease. Also used for the treatment of restless legs syndrome.
dihydroergotamine: approved small molecule (128 associated side effects) For the acute treatment of migraine headaches with or without aura and the acute treatment of cluster headache episodes.
amitriptyline: approved small molecule (109 associated side effects) For the treatment of depression, chronic pain, irritable bowel syndrome, sleep disorders, diabetic neuropathy, agitation and insomnia, and migraine prophylaxis.
olanzapine: approved small molecule (393 associated side effects) For the acute and maintenance treatment of schizophrenia and related psychotic disorders, as well as acute treatment of manic or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is indicated for the rapid control of agitated patients.
clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.
norepinephrine: approved small molecule (22 associated side effects) Mainly used to treat patients in vasodilatory shock states such as septic shock and neurogenic shock and has shown a survival benefit over dopamine. Also used as a vasopressor medication for patients with critical hypotension.
mirtazapine: approved small molecule (272 associated side effects) For the treatment of major depressive disorder.

phenylpropanolamine: approved, withdrawn small molecule (0 associated side effects) For the treatment of nasal congestion, control of urinary incontinence, priapism and obesity.

pramipexole: approved small molecule (620 associated side effects) For the treatment of signs and symptoms of idiopathic Parkinson's disease

dipivefrin: approved small molecule (12 associated side effects)

Dipivefrin is a prodrug which is used as initial therapy for the control of intraocular pressure in chronic open-angle glaucoma. brimonidine: approved small molecule (109 associated side effects) For the lowering of intraocular pressure in patients with open-angle glaucoma or ocular hypertension.

amoxapine: approved small molecule (103 associated side effects) For the relief of symptoms of depression in patients with neurotic or reactive depressive disorders as well as endogenous and psychotic depressions. May also be used to treat depression accompanied by anxiety or agitation.

clonidine: approved small molecule (161 associated side effects) May be used as an adjunct in the treatment of hypertension, as an epidural infusion as an adjunct treatment in the management of severe cancer pain that is not relieved by opiate analgesics alone, for differential diagnosis of pheochromocytoma in hypertensive patients, prophylaxis of vascular migraine headaches, treatment of severe dysmenorrhea, management of vasomotor symptoms associated with menopause, rapid detoxification in the management of opiate withdrawal, treatment of alcohol withdrawal used in conjunction with benzodiazepines, management of nicotine dependence, topical use to reduce intraocular pressure in the treatment of open-angle and secondary glaucoma and hemorrhagic glaucoma associated with hypertension, and in the treatment of attention-deficit hyperactivity disorder (ADHD).

lisuride: approved small molecule (0 associated side effects) For the management of Parkinson's Disease

guanabenz: approved small molecule (0 associated side effects) For management of High blood pressure

dexmedetomidine: approved small molecule (85 associated side effects) For sedation of initially intubated and mechanically ventilated patients during treatment in an intensive care setting, also used in pain relief; anxiety reduction and analgesia

trazodone: approved small molecule (194 associated side effects) For the treatment of depression.

phentolamine: approved small molecule (28 associated side effects) Used as an aid for the diagnosis of pheochromocytoma, and may be administered immediately prior to or during pheochromocytectomy to prevent or control paroxysmal hypertension resulting from anesthesia, stress, or operative manipulation of the tumor. Phentolamine has also been used to treat hypertensive crisis caused by sympathomimetic amines or catecholamine excess by certain foods or drugs in patients taking MAO inhibitors, or by clonidine withdrawal syndrome. Other indications include the prevention of dermal necrosis and sloughing following IV administration or extravasation of norepinephrine, decrease in impedance to left ventricular ejection and the infarct size in patients with MI associated with left ventricular failure, treatment of erectile dysfunction through self-injection of small doses combined with

papaverine hydrochloride into the corpus cavernosum, and as an adjunct to the management of cocaine overdose to reverse coronary vasoconstriction following use of oxygen, benzodiazepines, and nitroglycerin.

tizanidine: approved small molecule (230 associated side effects) For the management of increased muscle tone associated with spasticity

apomorphine: approved small molecule (45 associated side effects) For the acute, intermittent treatment of hypomobility, off episodes (end-of-dose wearing off and unpredictable on/off episodes) associated with advanced Parkinson's disease.

risperidone: approved small molecule (532 associated side effects) For the treatment of schizophrenia in adults and in adolescents, ages 13 to 17, and for the short-term treatment of manic or mixed episodes of bipolar I disorder in children and adolescents ages 10 to 17. May also be used to manage symptoms of inappropriate behavior due to aggression and/or psychosis in patients with severe dementia.

epinastine: approved small molecule (12 associated side effects) For the prevention of itching associated with allergic conjunctivitis.

tolazoline: approved small molecule (0 associated side effects) For the treatment of pulmonary artery anomalies

fenoldopam: approved small molecule (51 associated side effects)

For the in-hospital, short-term (up to 48 hours) management of severe hypertension when rapid, but quickly reversible, emergency reduction of blood pressure is clinically indicated, including malignant hypertension with deteriorating end-organ function.

pseudoephedrine: approved small molecule (0 associated side effects) For the treatment of nasal congestion, sinus congestion, Eustachian tube congestion, and vasomotor rhinitis, and as an adjunct to other agents in the optimum treatment of allergic rhinitis, croup, sinusitis, otitis media, and tracheobronchitis. Also used as first-line therapy of priapism.

benzphetamine: illicit, approved small molecule (0 associated side effects) For the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction

phenoxybenzamine: approved small molecule (9 associated side effects) For the treatment of pheochromocytoma (malignant), benign prostatic hypertrophy and malignant essential hypertension.

oxymetazoline: approved small molecule (0 associated side effects) For treatment of nasal congestion and redness associated with minor irritations of the eye

apraclonidine: approved small molecule (85 associated side effects) For prevention or reduction of intraoperative and postoperative increases in intraocular pressure (IOP) before and after ocular laser surgery when used prophylactically. Also used as a short-term adjunctive therapy in patients with open-angle glaucoma who are on maximally tolerated medical therapy requiring additional IOP reduction.

methyldopa: approved small molecule (67 associated side effects) For use in the treatment of hypertension.

guanfacine: approved small molecule (106 associated side effects) For use alone or in combination with other classes of

antihypertensive agents in the management of hypertension. Has also been used for the treatment of attention deficit hyperactivity disorder (ADHD) in pediatric patients.

ergoloid mesylate: approved small molecule (0 associated side effects) For use as an adjunct therapy for patients with dementia

doxepin: approved small molecule (210 associated side effects) Labeled indications: depression and insomnia. Unlabeled indications: chronic and neuropathic pain, anxiety, idiopathic urticaria.

nefazodone: approved,withdrawn small molecule (246 associated side effects) For the treatment of depression.

pergolide: approved,withdrawn small molecule (354 associated side effects) Indicated as adjunctive treatment to levodopa/carbidopa in the management of the signs and symptoms of Parkinson's disease. It was withdrawn from the US and Canadian markets in 2007 due to an increased risk of cardiac valvulopathy.

bromocriptine: approved small molecule (120 associated side effects) For the treatment of galactorrhea due to hyperprolactinemia, prolactin-dependent menstrual disorders and infertility, prolactin-secreting adenomas, prolactin-dependent male hypogonadism, as adjunct therapy to surgery or radiotherapy for acromegaly or as monotherapy in special cases, as monotherapy in early Parkinsonian Syndrome or as an adjunct with levodopa in advanced cases with motor complications. Bromocriptine has also been used off-label to treat restless legs syndrome and neuroleptic malignant syndrome.

quetiapine: approved small molecule (359 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

aripiprazole: approved small molecule (630 associated side effects) For the treatment of schizophrenia and related psychotic disorders.

paliperidone: approved small molecule (216 associated side effects) For the treatment of schizophrenia.

dihydroergotoxine: approved small molecule (0 associated side effects) For potential use in the treatment of Alzheimer's disease.

ephedra: approved,withdrawn,nutraceutical small molecule (0 associated side effects) Ephedra is widely used by athletes, despite a lack of evidence that it enhances athletic performance. Ephedra has also been used for weight loss.

yohimbine: approved small molecule (0 associated side effects) Indicated as a sympatholytic and mydriatic. Impotence has been successfully treated with yohimbine in male patients with vascular or diabetic origins and psychogenic origins.

methotrimeprazine: approved small molecule (0 associated side effects) For the treatment of psychosis, particular those of schizophrenia, and manic phases of bipolar disorder.

4-methoxyamphetamine: illicit,experimental small molecule (0 associated side effects)

methamphetamine: illicit,approved small molecule (30 associated side effects) For the treatment of Attention Deficit Disorder with Hyperactivity (ADHD) and exogenous obesity.

propericiazine: approved small molecule (0 associated side effects) For use as adjunctive medication in some psychotic patients. Propericiazine (Pericyazine) is used for the control of residual prevailing hostility, impulsiveness and aggressiveness.

zuclophenthixol: approved small molecule (0 associated side effects) For the management of the manifestations of schizophrenia.

lofexidine: approved small molecule (0 associated side effects) Investigated for use/treatment in addictions and substance abuse.

mianserin: approved small molecule (0 associated side effects) For the treatment of depression.

droxidopa: approved small molecule (0 associated side effects) For treatment of neurogenic orthostatic hypotension (NOH) associated with various disorders including Multiple System Atrophy, Familial Amyloid Polyneuropathy, hemodialysis induced hypotension and Parkinson's Disease. Also investigated for use/treatment in neurologic disorders, nephropathy, blood (blood forming organ disorders, unspecified), and dizzy/fainting spells.

xylometazoline: approved small molecule (0 associated side effects) It is used for treating nasal congestion and minor inflammation due to allergies or colds.

naphazoline: approved small molecule (18 associated side effects) Naphazoline is primarily indicated in conditions like Corneal vascularity, Hyperaemia, Itching, Nasal congestion, and can also be given in adjunctive therapy as an alternative drug of choice in Sinusitis

1344 known side effects mediated through drugs targeting this protein:

Abasia Abdominal adhesions Abdominal discomfort Abdominal distension Abdominal neoplasm Abdominal pain Abdominal pain lower Abdominal pain upper Abdominal tenderness Abnormal behaviour Abnormal dreams Abnormal faeces Abscess Accommodation disorder Acidosis Acne Actinic keratosis Acute abdomen Acute coronary syndrome Acute lymphocytic leukaemia Acute psychosis Acute respiratory distress syndrome Acute tonsillitis Adenocarcinoma Adenoma benign Adhesion Adjustment disorder Adrenal insufficiency Affect lability Affective disorder Ageusia Aggression Agitation Agoraphobia Agranulocytosis Akathisia Akinesia Alanine aminotransferase increased Albright's disease Albuminuria Alcohol intolerance Alkalosis Alopecia Altered state of consciousness Amaurosis fugax Amblyopia Amenorrhoea Amnesia Amyotrophic lateral sclerosis Anaemia Anaemia macrocytic Anaemia megaloblastic Anaphylactic shock Anaphylactoid reaction Aneurysm Anger Angina pectoris Angina unstable Angioedema Angiomyolipoma Angiopathy Angle closure glaucoma Anorectal discomfort Anorectal disorder Anorgasmia Antidiuretic hormone abnormality Antinuclear antibody positive Antisocial behaviour Antisocial personality disorder Anxiety Aortic dissection Apathy Aphasia Aphonia Aphthous stomatitis Aplastic anaemia Apnoea Appendicitis Application site reaction Apraxia Arrhythmia Arrhythmia supraventricular Arterial disorder

Arterial occlusive disease Arterial stenosisArteriosclerosis
 Arteriospasm coronary Arteritis Arthralgia Arthritis
 ArthropathyAscites Asocial behaviourAspartate
 aminotransferase increased Asphyxia Aspiration Asthenia
 Asthma Ataxia AtelectasisAtrial fibrillation
 Atrial flutter Atrial septal defect Atrioventricular block
 first degree Atrioventricular block second degree Atrophy
 Aura Automatism Autonomic nervous system imbalanceAzotaemia
 Back pain Bacterial infection Balance disorder
 Balanoposthitis Basal cell carcinoma Basophilia Benign
 intracranial hypertension Benign neoplasm Benign neoplasm of
 skin Benign prostatic hyperplasiaBiliary colic Binge eating
 Bladder cancer Bladder disorder Bladder pain Blepharitis
 Blepharospasm Blindness Blindness transient Blister
 Blood acid phosphatase increased Blood alkaline phosphatase
 increased Blood amylase increased Blood antidiuretic hormone
 abnormal Blood bilirubin increased Blood cholesterol increased
 Blood creatine phosphokinase increased Blood creatinine
 increased Blood electrolytes abnormal Blood glucose decreased
 Blood glucose increased Blood insulin increased Blood
 iron decreased Blood lactate dehydrogenase increased Blood
 phosphorus increased Blood potassium decreased Blood potassium
 increased Blood pressure abnormal Blood pressure diastolic
 decreased Blood pressure fluctuation Blood pressure increased
 Blood pressure systolic decreased Blood prolactin increased
 Blood testosterone decreasedBlood triglycerides increased
 Blood triglycerides normal Blood urea increased Blood uric
 acid increased Blood urineBlood urine present Blunted affect
 Body temperature decreased Body temperature increased Bone
 disorder Bone pain Bone sarcoma BradycardiaBradykinesia
 Bradyphrenia Brain neoplasm Brain neoplasm benign Brain
 oedema Breast cancer Breast cystBreast discharge Breast
 discomfort Breast disorder Breast disorder female Breast disorder
 male Breast engorgement Breast enlargement Breast feeding
 Breast neoplasm Breast painBreast swelling Breast tenderness
 Breath odour Bronchiolitis Bronchitis Bronchopneumonia
 Bronchopneumopathy Bronchospasm Bruxism
 Buccoglossal syndrome Bulimia nervosa Bundle branch block
 Bundle branch block left Bundle branch block right
 Burning sensationBursitis Cachexia Calculus bladder
 Calculus urinary Cancer in remission Candidiasis
 Carbohydrate tolerance decreased Carbon dioxide increased
 Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiac fibrillation Cardiac flutter
 Cardiac murmur Cardiac septal defect Cardiac valve disease
 Cardio-respiratory arrest Cardiomegaly Cardiomyopathy
 Cardiopulmonary failure Cardiovascular disorder
 Carotid artery occlusion Carpal tunnel syndrome Cataplexy
 Cataract Catatonia Cells in urine Cellulitis Cerebral
 artery embolism Cerebral atrophy Cerebral haemorrhage Cerebral
 infarction Cerebral ischaemia Cerebrospinal fluid rhinorrhoea
 Cerebrovascular accident Cerebrovascular disorder
 Cerebrovascular insufficiency Cervicitis Cervix carcinoma
 Chapped lips Cheilitis Chest discomfort Chest pain
 Chills Choking Cholecystitis Cholecystitis chronic

Cholelithiasis Cholestasis Chorea Choreoathetosis
 Chromaturia Chronic lymphocytic leukaemia Chronic
 obstructive pulmonary disease Clonus Coagulopathy
 Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat
 Colitis Colitis ulcerative Colon cancer Colonic
 pseudo-obstruction Colorectal cancer Coma Completed suicide
 Compulsions Condition aggravated Confusional state Congenital
 anomaly Congenital eye disorder Congenital foot malformation
 Congenital genitourinary abnormality Conjunctival disorder
 Conjunctival follicles Conjunctival haemorrhage
 Conjunctival hyperaemia Conjunctival oedema
 Conjunctivitis Conjunctivitis allergic Connective tissue
 disorder Constipation Convulsion Coombs test positive
 Coordination abnormal Corneal erosion Corneal infiltrates
 Corneal lesion Corneal staining Coronary artery disease
 Coronary artery occlusion Costochondritis Cough Crocodile
 tears syndrome Crying Cyanosis Cystitis Cystitis
 noninfective Cytolytic hepatitis Dandruff Deafness
 Deafness transitory Death Decreased appetite Decubitus
 ulcer Deep vein thrombosis Deficiency anaemia Dehydration
 Delirium Delusion Dementia Dementia with Lewy bodies
 Dental caries Dependence Depersonalisation Depressed level
 of consciousness Depressed mood Depression Depressive symptom
 Derealisation Dermal cyst Dermatitis atopic Dermatitis
 bullous Dermatitis contact Dermatitis exfoliative Dermatitis
 infected Dermoid cyst Developmental delay Device related
 infection Diabetes mellitus Diabetic coma Diabetic
 hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
 ketoacidosis Diaphragmatic hernia Diarrhoea Diastolic
 hypertension Diplopia Discomfort Disorientation
 Disseminated intravascular coagulation Dissociation
 Disturbance in attention Disturbance in sexual arousal
 Diverticulitis Dizziness Dizziness exertional Dizziness
 postural Drooling Drug abuse Drug dependence Drug eruption
 Drug hypersensitivity Drug ineffective Drug interaction Drug
 level increased Drug withdrawal syndrome Drug withdrawal
 syndrome neonatal Dry eye Dry mouth Dry skin Dry throat
 Duodenal ulcer Duodenal ulcer haemorrhage Duodenitis
 Dysarthria Dysentery Dysgeusia Dysgraphia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphemia Dysphonia
 Dysphoria Dyspnoea Dyspnoea exertional Dystonia
 Dysuria Ear disorder Ear infection Ear pain
 Ecchymosis Eclampsia Eczema Effusion Ejaculation
 delayed Ejaculation disorder Ejaculation failure Elastosis
 perforans Elderly Electrocardiogram QRS complex
 Electrocardiogram QT prolonged Electrocardiogram ST segment
 depression Electrocardiogram ST segment elevation Electrocardiogram
 T wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Electrolyte imbalance
 Elevated mood Embolism Emotional disorder Emotional
 distress Emphysema Encephalopathy Endocrine disorder
 Endometrial cancer Endometrial neoplasm Energy increased
 Enteritis Enuresis Enzyme abnormality Eosinophil count
 increased Eosinophilia Epicondylitis Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation

Erythema Erythema multiforme Erythema of eyelid
 Erythromelalgia Euphoric mood Exfoliative rash Exostosis
 Extradural abscess Extrapyrarnidal disorder
 Extrasystoles Extravasation Eye discharge Eye
 disorder Eye haemorrhage Eye infection Eye inflammation Eye
 irritation Eye movement disorder Eye pain Eye pruritus Eye
 swelling Eyelid disorder Eyelid function disorder Eyelid
 oedema Eyelid ptosis Eyelid retractionEyelids pruritus Face
 oedema Facial painFacial paresis Faecal incontinence
 Faecalith Faecaloma Faeces discoloured Faeces hard
 Fasciitis Fasting Fatigue Fear Feeling abnormal
 Feeling cold Feeling hotFeeling jittery Female sexual
 dysfunctionFibroadenoma of breast Fibrocystic breast disease
 Fibrosis Flank pain Flat affectFlatulence Fluid overload
 Fluid retention Flushing Foetor hepaticus Folliculitis
 FormicationFungal infection Fungal skin infection Furuncle
 Gait disturbance Galactorrhoea Gallbladder cancer
 Gallbladder disorder Gamma-glutamyltransferase increased
 Gangrene Gastric cancer Gastric disorder Gastric
 haemorrhageGastric pH decreased Gastric polyps Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastritis haemorrhagic
 Gastroenteritis Gastrointestinal disorder Gastrointestinal
 haemorrhageGastrointestinal infection Gastrointestinal neoplasm
 Gastrointestinal obstructionGastrointestinal pain
 Gastrointestinal stromal tumour Gastrointestinal tract
 irritation Gastrooesophageal reflux disease Generalised oedema
 Genital candidiasis Genital dischargeGestational
 hypertension Gingival bleedingGingival infection Gingival
 pain Gingival recession Gingivitis Glaucoma Glossitis
 GlossodyniaGlucose tolerance decreased Glucose tolerance
 impaired Glycosuria Glycosylated haemoglobin increasedGoitre
 Gout Grand mal convulsion Gravitational oedema Groin pain
 Gynaecomastia HaemangiomaHaematemesi s Haematochezia
 Haematocrit decreased Haematoma Haematuria Haemoglobin
 Haemoglobin decreased Haemoglobin increased Haemoglobinuria
 Haemolysis Haemolytic anaemia HaemoptysisHaemorrhage
 Haemorrhage intracranial Haemorrhagic disorder
 Haemorrhoids HaemothoraxHallucination Hallucination,
 auditory Hallucination, visual Hallucinations, mixed Hangover
 Head discomfort Head titubation Headache Hearing impaired
 Heart disease congenital Heart rate irregular Hemianopia
 HemiparesisHemiplegia Hepatic cirrhosisHepatic enzyme
 increased Hepatic failure Hepatic fibrosis Hepatic function
 abnormal Hepatic necrosis Hepatic neoplasm malignant Hepatic
 steatosis Hepatitis Hepatitis cholestatic Hepatitis fulminant
 Hepatobiliary disease Hepatocellular injury Hepatomegaly
 Hereditary disorder Hernia Herpes simplex Herpes
 virus infection Herpes zoster Hiccups Hirsutism Homicidal
 ideation Hordeolum Hormone level abnormal Hostility Hot flush
 Hunger Hydrocephalus HyperacusisHyperaemia
 Hyperaesthesia Hyperbilirubinaemia Hypercapnia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypermagnesaemia Hypernatraemia

Hyperparathyroidism Hyperphagia Hyperphosphataemia
Hyperplasia Hyperprolactinaemia Hyperpyrexia
Hyperreflexia Hypersensitivity Hypersexuality Hypersomnia
Hypertension Hypertensive crisis Hyperthermia
Hyperthyroidism Hypertonia Hypertonic bladder
Hypertrichosis Hypertriglyceridaemia Hypertrophy
Hyperuricaemia Hyperuricosuria Hyperventilation
Hypoaesthesia Hypoaesthesia oral Hypocalcaemia
Hypocholesterolaemia Hypocholesterolaemia Hypochromic anaemia
Hypoglycaemia Hypogonadism Hypohidrosis
Hypokalaemia Hypokinesia Hypomagnesaemia Hypomania
Hypomenorrhoea Hyponatraemia Hypophagia Hypoproteinaemia
Hyporeflexia Hypotension Hypothermia Hypothyroidism
Hypotonia Hypoventilation Hypovitaminosis Hypovolaemia
Hypoxia Idiopathic thrombocytopenic purpura Ileus
paralytic Ill-defined disorder Illusion Immune system disorder
Impaired healing Inappropriate antidiuretic hormone secretion
Incontinence Increased appetite Induration Infarction
Infected cyst Infection Infestation Inflammation
Influenza Influenza like illness Inguinal hernia Initial
insomnia Injection site mass Injection site pain Injection
site reaction Inner ear disorder Insomnia Intention tremor
Intentional self-injury Intermittent claudication
Interstitial lung disease Intervertebral disc degeneration
Intervertebral disc disorder Intervertebral disc protrusion
Intervertebral discitis Intestinal functional disorder
Intestinal obstruction Intestinal perforation Intracranial
pressure increased Intraocular pressure increased Iritis
Iron deficiency Iron deficiency anaemia Irritability
Irritable bowel syndrome Ischaemia Ischaemic hepatitis
Ischaemic stroke Jaundice Jaundice cholestatic Joint
contracture Joint effusion Joint range of motion decreased Joint
stiffness Joint swelling Judgement impaired Keratitis
Keratoconjunctivitis sicca Keratopathy Ketoacidosis
Ketosis Laboratory test abnormal Lacrimal disorder
Lacrimation decreased Lacrimation increased Lactic acidosis
Lactose intolerance Laryngeal cancer Laryngeal disorder
Laryngeal neoplasm Laryngeal oedema Laryngitis
Laryngospasm Left ventricular failure Leiomyoma Lens
disorder Lenticular opacities Lenticular pigmentation
Lethargy Leukaemia Leukocytoclastic vasculitis
Leukocytosis Leukoderma Leukopenia Leukoplakia oral
Libido decreased Libido increased Lichenoid keratosis Lip
and/or oral cavity cancer Lip blister Lip dry Lip swelling
Lipoma Livedo reticularis Liver disorder Liver
function test abnormal Liver injury Lividity Lobar pneumonia
Local reaction Localised infection Localised oedema
Logorrhoea Loss of consciousness Loss of libido Lower
respiratory tract infection Lung adenocarcinoma stage I Lung cancer
metastatic Lung disorder Lung infiltration Lung neoplasm
malignant Lymphadenitis Lymphadenopathy Lymphatic disorder
Lymphocytic leukaemia Lymphocytosis Lymphoedema Lymphoma
Lymphopenia Macular degeneration Macule Maculopathy Major
depression Malaise Male sexual dysfunction Malignant
melanoma Mania Masked facies Mastitis Mediastinal disorder

Melaena Melanocytic naevus Memory impairment Meningitis
Menopausal symptoms Menopause Menorrhagia Menstrual
disorder Menstruation delayed Menstruation irregular Mental
disability Mental disorder Mental retardation Mental status
changes Metabolic alkalosis Metastasis Metastatic neoplasm
Methaemoglobinaemia Metrorrhagia Micturition disorder
Micturition urgency Middle ear disorder Middle ear
effusion Middle insomnia Migraine with aura Migraine without
aura Miosis Mitral valve incompetence Mobility decreased
Monarthrititis Monocytosis Mood swings Motion sickness Mouth
ulceration Movement disorder Multiple hereditary exostosis
Multiple myeloma Muscle atrophy Muscle contractions
involuntary Muscle contracture Muscle enzyme increased
Muscle relaxant therapy Muscle rigidity Muscle spasms
Muscle tightness Muscle twitching Muscular weakness
Musculoskeletal chest pain Musculoskeletal discomfort
Musculoskeletal disorder Musculoskeletal pain
Musculoskeletal stiffness Myalgia Myasthenic syndrome
Mydriasis Myelitis Myocardial infarction Myocardial
ischaemia Myocarditis Myoclonus Myopathy Myopia Myositis
Nail discolouration Nail disorder Nail infection
Narcolepsy Nasal congestion Nasal discomfort Nasal disorder
Nasal dryness Nasal oedema Nasal polyps
Nasopharyngitis Nausea Neck pain Necrosis Necrosis
ischaemic Neoplasm malignant Neoplasm prostate Neoplasm
recurrence Neoplasm skin Nephritis Nephrolithiasis Nephrotic
syndrome Nerve root lesion Nervous system disorder Nervousness
Neuralgia Neuritis Neurodermatitis Neurogenic bladder
Neuroleptic malignant syndrome Neurological symptom
Neuroma Neuropathy peripheral Neurosis Neutropenia
Neutrophil count decreased Neutrophil count increased Night
blindness Night sweats Nightmare Nocturia Nodal arrhythmia
Nodule Normochromic normocytic anaemia Nuchal rigidity
Nystagmus Obesity Obsessive thoughts Obstruction
Obstructive airways disorder Ocular hyperaemia Oculogyric crisis
Oedema Oedema peripheral Oesophageal achalasia Oesophageal
carcinoma Oesophageal disorder Oesophageal spasm Oesophageal
stenosis Oesophageal ulcer Oesophagitis Oligomenorrhoea
Oliguria Onychomycosis Opisthotonus Optic atrophy
Optic neuritis Oral candidiasis Oral neoplasm benign Oral
pain Orchitis noninfective Orgasm abnormal Oropharyngeal
discomfort Oropharyngeal pain Oropharyngeal spasm Orthostatic
hypotension Osteoarthritis Osteoarthropathy Osteodystrophy
Osteomyelitis Osteonecrosis Osteopenia Osteoporosis
Osteoporotic fracture Otitis externa Otitis media
Otitis media acute Otitis media chronic Ovarian cancer
Ovarian cyst Pain Pain in extremity Pain in jaw Pallor
Palpitations Pancreatitis acute Pancytopenia Panic
attack Panic disorder Panic disorder with agoraphobia Panic
reaction Papilloma Papule Paraesthesia oral Paralysis
Paranoia Parasomnia Paresis Parkinsonian gait
Parkinsonism Paronychia Parosmia Parotid gland
enlargement Parotitis Pathological fracture Pathological gambling
Pelvic inflammatory disease Pelvic pain Penis disorder
Peptic ulcer Pericardial effusion Pericarditis

constrictive Perineal pain Periodontitis Periorbital
 oedema Peripheral coldness Peripheral ischaemia Peripheral
 vascular disorder Peritoneal adhesions Personality change
 Personality disorder Petechiae Pharyngeal disorder
 Pharyngeal erythema Pharyngitis Phlebitis Phlebitis
 superficial Phobia Phonological disorder Photophobia Photopsia
 Photosensitivity allergic reaction Photosensitivity reaction
 Pigmentation disorder Pituitary tumour benign
 Plasmacytoma Platelet count decreased Pleural disorder
 Pleural effusion Pleural fibrosis Pleurisy Pleuritic pain
 Pneumonia Pneumonia aspiration Pneumothorax Poisoning
 Poliomyelitis Pollakiuria Polyarteritis nodosa
 Polycythaemia Polydipsia Polymyalgia rheumatica Polyp
 Polyuria Post procedural infection Postmenopausal
 haemorrhage Postural orthostatic tachycardia syndrome Posture
 abnormal Pre-eclampsia Precocious puberty Premature
 ejaculation Premenstrual syndrome Presyncope Priapism Procedural
 pain Proctalgia Productive cough Prolactinoma Prostate cancer
 Prostatic adenoma Prostatic disorder Prostatitis Protein
 urine present Proteinuria Protrusion tongue Prurigo Pruritus
 Pruritus generalised Pruritus genital Pseudolymphoma
 Psoriasis Psychiatric symptom Psychomotor retardation
 Psychotic disorder Puberty Pulmonary congestion
 Pulmonary embolism Pulmonary fibrosis Pulmonary
 function test decreased Pulmonary hypertension Pulmonary oedema
 Pulse absent Punctate keratitis Purpura
 Pyelonephritis Pyoderma Pyuria Rales Rash erythematous
 Rash generalised Rash macular Rash maculo-papular Rash
 papular Rash pustular Rash vesicular Raynaud's phenomenon
 Rectal cancer Rectal haemorrhage Rectal tenesmus Red
 blood cell count decreased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regressive behaviour
 Regurgitation Renal artery stenosis Renal colic Renal cyst
 Renal failure acute Renal impairment Renal neoplasm Renal
 pain Respiratory acidosis Respiratory alkalosis Respiratory
 arrest Respiratory depression Respiratory disorder Respiratory
 distress Respiratory failure Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Respiratory tract infection viral Restless legs syndrome
 Retching Retinal artery occlusion Retinal detachment
 Retinal disorder Retinal haemorrhage Retinal vascular
 disorder Retinitis pigmentosa Retrograde ejaculation
 Retroperitoneal fibrosis Rhabdomyolysis Rheumatoid
 arthritis Rhinitis Rhinitis allergic Rhinitis seasonal Rhinorrhoea
 Rhonchi Rosacea Rotator cuff syndrome Sacroiliitis
 Saliva altered Salivary duct obstruction Salivary gland
 disorder Salivary gland enlargement Salivary gland pain
 Salivary hypersecretion Salpingitis Sarcoidosis Sarcoma
 Scab Schizoaffective disorder Schizophrenia
 Schizophreniform disorder Sciatica Scotoma Seasonal
 allergy Seborrhoeic dermatitis Seborrhoeic keratosis Sedation
 Sensation of foreign body Sensation of heaviness
 Sensitisation Sensory disturbance Sensory loss
 Sepsis Septic shock Severe acute respiratory syndrome
 Sexual dysfunction Shock Sialoadenitis Sicca syndrome

Sick sinus syndrome Sinus arrest Sinus arrhythmia Sinus
 bradycardia Sinus congestion Sinus disorder Sinus headache Sinus
 tachycardia Sinusitis Skin burning sensation Skin cancer Skin
 discolouration Skin disorder Skin exfoliation Skin
 hyperpigmentation Skin hypertrophy Skin infection Skin irritation
 Skin lesion Skin mass Skin odour abnormal Skin papilloma
 Skin ulcer Sleep apnoea syndrome Sleep attacks Sleep
 disorder Sleep paralysis Sleep talking Sleep terror
 Sluggishness Small intestinal obstruction Sneezing
 Snoring Social avoidant behaviour Somnambulism
 Somnolence Speech disorder Spinal osteoarthritis Spine
 malformation Splenomegaly Spondylitis Squamous cell
 carcinoma Status epilepticus Stevens-Johnson syndrome
 Sticky skin Stomatitis Stress Stridor Stupor
 Subarachnoid haemorrhage Subcutaneous abscess
 Subcutaneous nodule Subdural haematoma Sudden death
 Suicidal ideation Suicide attempt Superior sagittal sinus
 thrombosis Supraventricular extrasystoles Supraventricular
 tachycardia Surgery Suspiciousness Swelling Swelling face
 Swollen tongue Syncope Synostosis Synovitis Systemic
 lupus erythematosus Systolic hypertension Tachycardia Tachypnoea
 Tardive dyskinesia Tearfulness Tenderness Tendinous
 contracture Tendinitis Tenosynovitis Tension Tension headache
 Terminal insomnia Testicular disorder Testicular pain
 Testicular swelling Tetany Therapeutic response
 decreased Therapeutic response increased Thinking abnormal
 Thirst Thought blocking Throat irritation Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thrombotic thrombocytopenic
 purpura Thyroid adenoma Thyroid cancer Thyroid neoplasm
 Thyroiditis Tic Tinnitus Tongue discolouration Tongue
 disorder Tongue dry Tongue oedema Tongue paralysis Tongue
 spasm Tongue ulceration Tonsillar hypertrophy Tonsillitis Tooth
 abscess Tooth disorder Tooth impacted Tooth infection
 Toothache Torsade de pointes Torticollis Toxic epidermal
 necrolysis Tracheobronchitis Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Umbilical
 hernia Unevaluable event Unintended pregnancy Unresponsive to
 stimuli Upper respiratory tract infection Upper-airway cough
 syndrome Urethral disorder Urethral pain Urethritis Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine output increased Urosepsis Urticaria
 Uterine disorder Uterine haemorrhage Uterine leiomyoma
 Uterine neoplasm Uterovaginal prolapse VIIIth nerve paralysis
 Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular headache
 Vascular purpura Vasculitis Vasoconstriction Vasodilation
 procedure Vasospasm Vein disorder Venous thrombosis Ventricular
 arrhythmia Ventricular extrasystoles Ventricular failure
 Ventricular fibrillation Ventricular hypertrophy
 Ventricular tachycardia Vertigo Vestibular ataxia
 Vestibular disorder Viral diarrhoea Viral infection
 Vision blurred Visual acuity reduced Visual impairment

Vitamin B12 deficiency Vitreous detachment Vitreous disorder
Vitreous floaters Vocal cord paralysis Vomiting
Vulvovaginal candidiasis Vulvovaginal dryness
Vulvovaginal mycotic infection Vulvovaginal pruritus
Vulvovaginitis Water intoxication Weight decreased
Weight fluctuation Weight increased Wheezing White blood
cell count decreased White blood cell count increased White blood
cells urine positive Withdrawal bleed Withdrawal hypertension
Withdrawal syndrome Wound infection Xerophthalmia
Xerosis Yawning

Sodium-dependent multivitamin transporter - Group: Transporter

Treated with:

biotin: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance.

lipoic acid: approved, nutraceutical small molecule (0
associated side effects) For nutritional supplementation, also
for treating dietary shortage or imbalance.

known side effects mediated through drugs targeting this protein:

Prostaglandin E2 receptor, EP3 subtype - Group: Receptor

Treated with:

bimatoprost: approved small molecule (90 associated side
effects) For the reduction of elevated intraocular pressure in
patients with open angle glaucoma or ocular hypertension who are
intolerant of other intraocular pressure lowering medications or
insufficiently responsive (failed to achieve target IOP determined
after multiple measurements over time) to another intraocular
pressure lowering medication.

dinoprostone: approved small molecule (0 associated side
effects) For the termination of pregnancy during the second
trimester (from the 12th through the 20th gestational week as
calculated from the first day of the last normal menstrual period),
as well as for evacuation of the uterine contents in the management
of missed abortion or intrauterine fetal death up to 28 weeks of
gestational age as calculated from the first day of the last normal
menstrual period. Also used in the management of nonmetastatic
gestational trophoblastic disease (benign hydatidiform mole). Other
indications include improving the cervical inducibility (cervical
"ripening") in pregnant women at or near term with a medical or
obstetrical need for labor induction, and the management of
postpartum hemorrhage.

misoprostol: approved small molecule (102 associated side
effects)

171 known side effects mediated through drugs targeting this
protein:

Abdominal pain Acute coronary syndrome Alopecia Anaemia
Anaphylactic shock Anorectal disorder Anxiety
Arrhythmia Arterial thrombosis Arthralgia Arthritis

Asthenia Asthenopia Back pain Bladder pain Blepharitis
 Blepharospasm Blindness Blister Blood alkaline
 phosphatase increased Body temperature increased Breast pain
 Bronchitis Bronchospasm Burning sensation Cardiac enzymes
 increased Cataract Cerebrovascular accident Chalazion Chest
 pain Chills Confusional state Conjunctival disorder
 Conjunctival haemorrhage Conjunctival hyperaemia
 Conjunctival oedema Conjunctivitis allergic
 Constipation Corneal erosion Corneal oedema Cough
 Cystitis Cystitis noninfective Deafness Dehydration
 Dermatitis Dermatitis bullous Diarrhoea Diplopia
 Dizziness Dry eye Dry mouth Dysgeusia Dysmenorrhoea
 Dyspepsia Dysphagia Dyspnoea Dysuria Ear pain
 Embolism Epistaxis Erectile dysfunction Erythema
 Erythema of eyelid Eye discharge Eye irritation Eye
 oedema Eye pain Eye pruritus Eye swelling Eyelid
 irritation Eyelid oedema Eyelid pain Eyelids pruritus Fatigue
 Feeling abnormal Flatulence Gastrointestinal disorder
 Gastrointestinal haemorrhage Gastrointestinal pain
 Gastroesophageal reflux disease Genital disorder female
 Gingivitis Glycosuria Gout Growth of eyelashes Haematuria
 Haemoglobin Haemorrhage Hair growth abnormal Headache
 Hepatic function abnormal Hirsutism Hordeolum Hyperaemia
 Hypercholesterolaemia Hyperhidrosis Hypersensitivity
 Hypertension Hypotension Infarction Infection
 Inflammation Inflammatory bowel disease Insomnia
 Iritis Keratitis Lacrimation increased Liver function
 test abnormal Loss of consciousness Loss of libido Madarosis
 Menorrhagia Menstrual disorder Metrorrhagia Muscle
 spasms Musculoskeletal discomfort Musculoskeletal stiffness
 Myalgia Myocardial infarction Nasopharyngitis Nausea
 Nervousness Neuropathy peripheral Neurosis Oedema
 Oedema peripheral Pain Pallor Palpitations Pharyngitis
 Phlebitis Photophobia Pigmentation disorder Pneumonia
 Polyuria Pruritus Pulmonary embolism Punctate
 keratitis Purpura Rash Red blood cell sedimentation rate
 increased Respiratory tract infection Rhinitis Scotoma
 Sensation of foreign body Shock Sinusitis Skin
 discolouration Skin hyperpigmentation Somnolence Swelling
 Syncope Tension Thirst Thrombocytopenia Thrombosis
 Tinnitus Trichorrhexis Upper respiratory tract infection
 Urinary tract infection Urine abnormality Urine analysis
 abnormal Urine output increased Vaginal haemorrhage Vascular
 purpura Vision blurred Visual acuity reduced Visual impairment
 Vitreous floaters Vomiting

Type-2 angiotensin II receptor - Group: Receptor
 Treated with:
 tasosartan: approved small molecule (0 associated side effects)
 Tasosartan is infrequently in the treatment of hypertension
 and heart failure.

known side effects mediated through drugs targeting this protein:

Gamma-aminobutyric-acid receptor subunit beta-1 - Group: Channel
Treated with:

lorazepam: approved small molecule (126 associated side effects) For the management of anxiety disorders, and for treatment of status epilepticus.

ethchlorvynol: illicit,approved small molecule (0 associated side effects) Used for short-term hypnotic therapy in the management of insomnia for periods of up to one week in duration; however, this medication generally has been replaced by other sedative-hypnotic agents.

temazepam: approved small molecule (35 associated side effects) For the short-term treatment of insomnia (generally 7-10 days).

clobazam: illicit,approved small molecule (58 associated side effects) For treatment and management of epilepsy and anxiety disorder.

alprazolam: illicit,approved small molecule (178 associated side effects) For the management of anxiety disorder or the short-term relief of symptoms of anxiety and for the treatment of panic disorder, with or without agoraphobia.

lindane: approved small molecule (9 associated side effects) For the treatment of patients infested with *Sarcoptes scabiei* or pediculosis capitis who have either failed to respond to adequate doses, or are intolerant of other approved therapies.

chlordiazepoxide:illicit,approved small molecule (20 associated side effects) For the management of anxiety disorders or for the short-term relief of symptoms of anxiety, withdrawal symptoms of acute alcoholism, and preoperative apprehension and anxiety.

adinazolam: approved small molecule (0 associated side effects) For the treatment of anxiety and status epilepticus.

clorazepate: illicit,approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety. Also used as adjunctive therapy in the management of partial seizures and for the symptomatic relief of acute alcohol withdrawal.

midazolam: illicit,approved small molecule (119 associated side effects) For use as a sedative perioperatively.

flurazepam: illicit,approved small molecule (62 associated side effects) For short-term and intermittent use in patients with recurring insomnia and poor sleeping habits

halazepam: illicit,approved small molecule (0 associated side effects) Used to relieve anxiety, nervousness, and tension associated with anxiety disorders.

diazepam: illicit,approved small molecule (149 associated side effects) Used in the treatment of severe anxiety disorders, as a hypnotic in the short-term management of insomnia, as a sedative and premedicant, as an anticonvulsant, and in the management of alcohol withdrawal syndrome.

oxazepam: approved small molecule (36 associated side effects) For the treatment of anxiety disorders and alcohol withdrawal.

triazolam: illicit,approved,withdrawn small molecule (66 associated side effects) For the short-term treatment of insomnia.

clonazepam: illicit, approved small molecule (228 associated side effects) Used as an anticonvulsant in the treatment of the Lennox-Gastaut syndrome (petit mal variant), akinetic and myoclonic seizures.

estazolam: illicit, approved small molecule (131 associated side effects) For the short-term management of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings, and/or early morning awakenings.

gamma hydroxybutyric acid: illicit, approved small molecule (0 associated side effects) Used as a general anesthetic, to treat conditions such as insomnia, clinical depression, narcolepsy, and alcoholism, and to improve athletic performance.

bromazepam: illicit, approved small molecule (47 associated side effects) For the short-term treatment of insomnia, short-term treatment of anxiety or panic attacks, if a benzodiazepine is required, and the alleviation of the symptoms of alcohol- and opiate-withdrawal.

clotiazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

fludiazepam: illicit, approved small molecule (0 associated side effects) Used for the short-term treatment of anxiety disorders.

ketazolam: approved small molecule (0 associated side effects)

Ketazolam could be used for the treatment of anxiety. In approved countries, it is indicated for the treatment of anxiety, tension, irritability and similar stress related symptoms.

prazepam: illicit, approved small molecule (0 associated side effects) For the treatment of anxiety disorders.

quazepam: illicit, approved small molecule (0 associated side effects) Used to treat insomnia.

cinolazepam: approved small molecule (0 associated side effects) For the management of anxiety disorders or for the short-term relief of the symptoms of anxiety or anxiety associated with depressive symptoms.

nitrazepam: approved small molecule (44 associated side effects)

Used to treat short-term sleeping problems (insomnia), such as difficulty falling asleep, frequent awakenings during the night, and early-morning awakening.

486 known side effects mediated through drugs targeting this protein:

Abdominal discomfort	Abdominal distension	Abdominal pain
Abnormal dreams	Abnormal faeces	Acidosis
Acne	Affect lability	Ageusia
Aggression	Agitation	Agranulocytosis
Akathisia	Akinesia	Alcohol poisoning
Alopecia	Altered state of consciousness	Amblyopia
Amnesia	Anaemia	Anaphylactic shock
Anaphylactoid reaction	Anger	Angioedema
Angiopathy	Anorectal discomfort	Anorectal disorder
Anterograde amnesia	Anxiety	Aortic dissection
Apathy	Aphonia	Apnoea
Appetite disorder	Arrhythmia	Arterial spasm
Arthralgia	Arthritis	Aspartate aminotransferase increased
Aspiration	Asthenia	Asthma
Ataxia	Athetosis	Atrioventricular block
Back pain	Balance disorder	Bladder dysfunction
Bladder pain	Blindness	Blood alkaline phosphatase increased
Blood bilirubin increased	Blood disorder	Blood

glucose decreased Blood thromboplastin decreased Body temperature
 decreased Body temperature increased Borderline personality
 disorder Bradycardia Bradyphrenia Brain oedema Breast
 disorder Breast pain Breast swelling Bronchitis Bronchospasm
 Candidiasis Carbon dioxide increased Cardiac arrest
 Cardiac disorder Cardiac failure Cardio-respiratory arrest
 Cardiovascular disorder Cellulitis Cerebellar syndrome
 Chest discomfort Chest pain Chills Choking sensation
 Chorea Chromaturia Clonic convulsion Clonus Clumsiness
 Coagulopathy Cognitive disorder Coma Completed suicide
 Confusional state Connective tissue disorder Constipation
 Conversion disorder Convulsion Coordination abnormal Cough
 Cyanosis Cystitis Cystitis noninfective Cytolytic
 hepatitis Deafness Death Decreased appetite Dehydration
 Delirium Delirium tremens Delusion Dependence
 Depersonalisation Depressed level of consciousness Depressed
 mood Depression Depressive symptom Derealisation Dermatitis
 Dermatitis contact Dermatitis exfoliative Diarrhoea
 Diplopia Discomfort Disinhibition Disorientation
 Disturbance in attention Disturbance in sexual arousal
 Dizziness Drooling Drug abuse Drug dependence Drug
 eruption Drug intolerance Drug withdrawal convulsions Dry mouth
 Dry skin Dysaesthesia Dysarthria Dysgeusia Dyskinesia
 Dysmenorrhoea Dyspepsia Dysphagia Dysphonia Dysphoria
 Dyspnoea Dysthymic disorder Dystonia Dysuria Ear
 infection Ear pain Ecchymosis Effusion Ejaculation delayed
 Ejaculation failure Emotional disorder Emotional
 distress Emotional poverty Encephalopathy Encopresis Endometrial
 sarcoma Energy increased Enterocolitis Enuresis
 Eosinophilia Epilepsy Epistaxis Erectile dysfunction
 Erythema Erythema multiforme Euphoric mood
 Extrapyrimal disorder Extrasystoles Eye disorder
 Eye irritation Eye movement disorder Eye pain Eye
 swelling Face oedema Faecal incontinence Fatigue Feeling
 abnormal Feeling cold Feeling drunk Feeling hot Feeling
 jittery Feeling of body temperature change Flat affect Flatulence
 Floppy infant Flushing Fungal infection Gait disturbance
 Galactorrhoea Gangrene Gastric disorder Gastritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gingival pain Glossitis Glossodynia
 Gout Grand mal convulsion Gynaecomastia Haematoma
 Haematuria Haemoglobin Haemoglobin decreased Haemorrhage
 Haemorrhage urinary tract Haemorrhoids Hallucination
 Hangover Headache Hearing impaired Heart rate irregular
 Hemiparesis Hepatic enzyme increased Hepatic failure
 Hepatic function abnormal Hepatitis Hepatocellular injury
 Hepatomegaly Herpes simplex Herpes virus infection
 Hiccups Hirsutism Homicidal ideation Hordeolum
 Hostility Hunger Hypercapnia Hyperhidrosis
 Hyperkinesia Hyperprolactinaemia Hypersensitivity
 Hypersomnia Hypertension Hypertonia Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypokinesia Hypomania
 Hyponatraemia Hypopnoea Hyporeflexia Hypotension
 Hypothermia Hypotonia Hypoventilation Hypoxia Ill-defined
 disorder Illusion Inappropriate antidiuretic hormone secretion

Incontinence Increased appetite Induration Infection
 Infectious mononucleosis Infestation Inflammation
 Influenza Injection site pain Injection site reaction
 Insomnia Intraocular pressure increased Irritability
 Jaundice Joint swelling Laryngitis Laryngospasm
 Lethargy Leukocytosis Leukopenia Libido decreased
 Libido increased Liver function test abnormal Liver injury
 Local reaction Logorrhoea Loss of consciousness Loss of
 libido Lung disorder Lymphadenopathy Major depression
 Malaise Mania Mean arterial pressure Mediastinal disorder
 Melaena Memory impairment Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Micturition urgency Migraine
 Miosis Mood swings Motion sickness Movement disorder
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle spasticity Muscle twitching Muscular weakness
 Musculoskeletal discomfort Musculoskeletal disorder
 Musculoskeletal stiffness Myalgia Mydriasis Myoclonus
 Nasal congestion Nasopharyngitis Nausea Neck pain
 Necrosis Nervous system disorder Nervousness Neuritis
 Neuroleptic malignant syndrome Neuropathy peripheral
 Neutropenia Nightmare Nocturia Nodal rhythm Nodule
 Nystagmus Obstruction Obstructive airways disorder Oedema
 Oedema peripheral Oliguria Oropharyngeal pain Orthostatic
 hypotension Osteoarthritis Otitis media Pain Pain in extremity
 Pain in jaw Pallor Palpitations Pancytopenia
 Paraesthesia Paraesthesia oral Paralysis Paresis
 Pelvic pain Penile discharge Pericardial effusion Periorbital
 oedema Personality disorder Pheochromocytoma Pharyngitis
 Phlebitis Photophobia Photosensitivity reaction
 Pigmentation disorder Platelet count decreased Pleurisy
 Pneumonia Pneumothorax Pollakiuria Polyuria Post-
 traumatic stress disorder Precocious puberty Premenstrual
 syndrome Presyncope Proctalgia Prothrombin level increased
 Pruritus Psychomotor retardation Psychotic disorder
 Puberty Pulmonary congestion Pulmonary function test
 decreased Pulmonary haemorrhage Pulmonary hypertension Pulmonary
 oedema Purpura Rash Rash maculo-papular Rectal
 haemorrhage Rectal tenesmus Renal failure Respiratory arrest
 Respiratory depression Respiratory disorder Respiratory
 failure Respiratory moniliiasis Respiratory rate decreased
 Respiratory tract congestion Respiratory tract infection
 Retching Retrograde amnesia Rhinitis allergic Rhinorrhoea
 Rhonchi Salivary hypersecretion Scotoma Sedation
 Sexual dysfunction Shock Sinus tachycardia Sinusitis Skin
 burning sensation Skin discolouration Skin disorder Skin
 exfoliation Skin necrosis Sleep apnoea syndrome Sleep disorder
 Sleep talking Sluggishness Sneezing Somnambulism
 Somnolence Speech disorder Stevens-Johnson syndrome
 Stomatitis Strabismus Stridor Stupor Substance abuse
 Suicidal ideation Swelling Swelling face Swollen tongue
 Syncope Tachycardia Tachypnoea Tenderness Tendonitis
 Tension Therapeutic response decreased Thinking abnormal
 Thirst Thrombocytopenia Thrombocytosis Thrombophlebitis
 Thrombosis Thyroid neoplasm Tinnitus Tongue coated

Tongue disorder Tongue oedema Tooth disorder Toothache
 Toxic epidermal necrolysis Transaminases increased
 Tremor Tropical spastic paresis Ulcer Upper airway
 obstruction Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 colour abnormal Urine output increased Urticaria Vaginal discharge
 Vaginal infection Vaginal inflammation Vascular purpura
 Vasodilation procedure Venous thrombosis Ventricular arrhythmia
 Ventricular extrasystoles Vertigo Viral infection
 Vision blurred Visual acuity reduced Visual impairment
 Vomiting Weight decreased Weight increased Wheezing
 Withdrawal syndrome Xeroderma Xerophthalmia Yawning

Metabotropic glutamate receptor 4 - Group: Receptor

Treated with:

l-glutamic acid: approved, nutraceutical small molecule (0 associated side effects) Considered to be nature's "Brain food" by improving mental capacities; helps speed the healing of ulcers; gives a "lift" from fatigue; helps control alcoholism, schizophrenia and the craving for sugar.

known side effects mediated through drugs targeting this protein:

Vasopressin V1a receptor - Group: Receptor

Treated with:

desmopressin: approved small molecule (0 associated side effects) Oral formulations may be used to manage primary nocturnal enuresis in adults and vasopressin sensitive diabetes insipidus, and for control of temporary polyuria and polydipsia following head trauma or surgery in the pituitary region. Intranasal and parenteral formulations may be used to manage spontaneous or trauma-induced bleeds (e.g. hemarthrosis, intramuscular hematoma, mucosal bleeding) in patients with hemophilia A or von Willebrand's disease Type I. May also be used parenterally to prevent or treat bleeding in patients with uremia.

felypressin: approved biotech (0 associated side effects)
 For use as an alternative to adrenaline as a localising agent, provided that local ischaemia is not essential.

conivaptan: approved small molecule (58 associated side effects)
 For the treatment of euvolemic or hypervolemic hyponatremia (e.g. the syndrome of inappropriate secretion of antidiuretic hormone, or in the setting of hypothyroidism, adrenal insufficiency, pulmonary disorders, etc.) in hospitalized patients.

terlipressin: approved small molecule (0 associated side effects) Commonly used to stop bleeding of varices in the food pipe (oesophagus).

58 known side effects mediated through drugs targeting this protein:

Anaemia Angiopathy Aortic dissection Arrhythmia Arrhythmia
 supraventricular Atrial fibrillation Body temperature increased
 Candidiasis Cardiac disorder Cardiac fibrillation Confusional

state Constipation Dehydration Diarrhoea Dry mouth
 Electrocardiogram ST segment Electrocardiogram ST segment
 depression Erythema Feeling abnormal Gastrointestinal disorder
 Haematuria Headache Hyperglycaemia Hypertension
 Hypoglycaemia Hypokalaemia Hypomagnesaemia
 Hyponatraemia Hypotension Infection Infestation Infusion
 site reaction Insomnia Mediastinal disorder Mental disorder
 Nausea Nervous system disorder Oedema Oedema
 peripheral Oral candidiasis Oropharyngeal pain Orthostatic
 hypotension Pain Phlebitis Pneumonia Pollakiuria Polyuria Post
 procedural diarrhoea Pruritus Sepsis Swelling Thirst
 Toxic epidermal necrolysis Urethral disorder Urinary tract
 disorder Urinary tract infection Urine output increased
 Vomiting

Adenosine A3 receptor - Group: Receptor

Treated with:

adenosine: approved small molecule (32 associated side effects)

Used as an initial treatment for the termination of paroxysmal supraventricular tachycardia (PVST), including that associated with accessory bypass tracts, and is a drug of choice for terminating stable, narrow-complex supraventricular tachycardias (SVT). Also used as an adjunct to thallous chloride TI 201 myocardial perfusion scintigraphy (thallium stress test) in patients who are unable to exercise adequately, as well as an adjunct to vagal maneuvers and clinical assessment to establish a specific diagnosis of undefined, stable, narrow-complex SVT.

aminophylline: approved small molecule (41 associated side effects) For the treatment of bronchospasm due to asthma, emphysema and chronic bronchitis.

67 known side effects mediated through drugs targeting this protein:

Abdominal pain Agitation Anxiety Arrhythmia Atrial
 fibrillation Atrial tachycardia Back pain Blood pressure
 increased Bradycardia Bronchospasm Burning sensation Cardiac
 arrest Cardiac fibrillation Cardiac flutter Chest discomfort
 Chest pain Chronic obstructive pulmonary disease Clonic
 convulsion Convulsion Death Dermatitis contact Dermatitis
 exfoliative Diarrhoea Disorientation Dizziness Dysgeusia
 Dyspnoea Extrasystoles Flushing Gastrointestinal pain
 Grand mal convulsion Haematemesi Haemodynamic
 instability Headache Hyperglycaemia Hyperhidrosis
 Hypersensitivity Hyperventilation Hypoaesthesia
 Hypokalaemia Hypotension Hypoxia Insomnia
 Irritability Loss of consciousness Nausea Nervous
 system disorder Nervousness Pain Palpitations Paraesthesia
 Poisoning Polyuria Rhabdomyolysis Sensory loss Shock
 Sinus tachycardia Supraventricular tachycardia Tachycardia
 Tension Throat tightness Torsade de pointes Tremor
 Ventricular extrasystoles Ventricular fibrillation
 Vision blurred Vomiting

Androgen receptor - Group: Receptor

Treated with:

levonorgestrel: approved small molecule (187 associated side effects) For the treatment of menopausal and postmenopausal disorders and alone or in combination with other hormones as an oral contraceptive.

spironolactone: approved small molecule (34 associated side effects) Used primarily to treat low-renin hypertension, hypokalemia, and Conn's syndrome.

flutamide: approved small molecule (55 associated side effects) For the management of locally confined Stage B2-C and Stage D2 metastatic carcinoma of the prostate

oxandrolone: approved small molecule (11 associated side effects) Use to promote weight gain after weight loss following extensive surgery.

testosterone: approved small molecule (274 associated side effects) To be used as hormone replacement or substitution of diminished or absent endogenous testosterone. Use in males: For management of congenital or acquired hypogonadism, hypogonadism associated with HIV infection, and male climacteric (andropause). Use in females: For palliative treatment of androgen-responsive, advanced, inoperable, metastatic (skeletal) carcinoma of the breast in women who are 1-5 years postmenopausal; testosterone esters may be used in combination with estrogens in the management of moderate to severe vasomotor symptoms associated with menopause in women who do not respond to adequately to estrogen therapy alone.

nilutamide: approved small molecule (101 associated side effects) For use in combination with surgical castration for the treatment of metastatic prostate cancer involving distant lymph nodes, bone, or visceral organs (Stage D2).

fludrocortisone: approved small molecule (81 associated side effects) For partial replacement therapy for primary and secondary adrenocortical insufficiency in Addison's disease and for the treatment of salt-losing adrenogenital syndrome.

drostanolone: illicit, approved small molecule (0 associated side effects) For use in females, for palliation of androgenresponsive recurrent mammary cancer in women who are more than one year but less than five years postmenopausal.

nandrolone phenpropionate: illicit, approved small molecule (0 associated side effects) For the treatment of refractory deficient red cell production anemias, breast carcinoma, hereditary angioedema, antithrombin III deficiency, fibrinogen excess, growth failure and Turner's syndrome. It is also indicated in the prophylaxis of hereditary angioedema.

bicalutamide: approved small molecule (187 associated side effects) For treatment (together with surgery or LHRH analogue) of advanced prostatic cancer.

fluoxymesterone: illicit, approved small molecule (35 associated side effects) In males, used as replacement therapy in conditions associated with symptoms of deficiency or absence of endogenous testosterone. In females, for palliation of androgenresponsive recurrent mammary cancer in women who are more than one year but less than five years postmenopausal.

drospirenone: approved small molecule (0 associated side effects) For the prevention of pregnancy in women who elect an oral contraceptive.

danazol: approved small molecule (89 associated side effects)
For the treatment of endometriosis and fibrocystic breast disease (in patients unresponsive to simple measures). Also used for the prophylactic treatment of all types of hereditary angioedema in males and females.

testosterone propionate: approved small molecule (0 associated side effects) Testosterone propionate is an anabolic steroid and a short ester form of testosterone that becomes active in the body. It is often used for muscle mass building.

deltal-dihydrotestosterone: illicit,experimental small molecule (0 associated side effects)

boldenone: illicit,experimental small molecule (0 associated side effects)

calusterone: illicit,experimental small molecule (0 associated side effects) An anabolic steroid which can theoretically aid in restauration and buildup of certain tissues, especially muscle. It is similar to synthetic testosterone and is still in early investigation. It was also investigated for use as a treatment for metastatic breast cancer.

flufenamic acid: experimental small molecule (0 associated side effects)

(2r)-n-[4-cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methylpropanamide: experimental small molecule (0 associated side effects)

methyltrienolone:experimental small molecule (0 associated side effects)

(3aalpha,4alpha,7alpha,7aalpha)-3a,4,7,7a-tetrahydro-2-(4-nitro-1-naphthalenyl)-4,7-ethano-1h-isoindole-1,3(2h)-dione: experimental small molecule (0 associated side effects)

cyproterone: approved small molecule (165 associated side effects) For the palliative treatment of patients with advanced prostatic carcinoma.

methyltestosterone: approved small molecule (29 associated side effects) Methyltestosterone is an anabolic steroid hormone used to treat men with a testosterone deficiency. It is also used in women to treat breast cancer, breast pain, swelling due to pregnancy, and with the addition of estrogen it can treat symptoms of menopause.

17-hydroxy-18a-homo-19-nor-17alpha-pregna-4,9,11-trien-3-one: experimental small molecule (0 associated side effects)

(2s)-n-(4-cyano-3-iodophenyl)-3-(4-cyanophenoxy)-2-hydroxy-2-methylpropanamide: experimental small molecule (0 associated side effects)

2-chloro-4-[(7r,7as)-7-hydroxy-1,3-dioxotetrahydro-1h-pyrrolo[1,2-c]imidazol-2(3h)-yl]-3-methylbenzotrile: experimental small molecule (0 associated side effects)

(2s)-3-(4-chloro-3-fluorophenoxy)-n-[4-cyano-3-(trifluoromethyl)phenyl]-2-hydroxy-2-methylpropanamide: experimental small molecule (0 associated side effects)

4-[(1r,2s)-1,2-dihydroxy-2-methyl-3-(4-nitrophenoxy)propyl]amino}-2-(trifluoromethyl)benzotrile: experimental small molecule (0 associated side effects)

(2s)-2-hydroxy-2-methyl-n-[4-nitro-3-(trifluoromethyl)phenyl]-3-(pentafluorophenoxy)propanamide: experimental small molecule (0 associated side effects)

(2s)-3-[4-(acetylamino)phenoxy]-2-hydroxy-2-methyl-n-[4-nitro-3-(trifluoromethyl)phenyl]propanamide: experimental small molecule (0 associated side effects)

(r)-3-bromo-2-hydroxy-2-methyl-n-[4-nitro-3-(trifluoromethyl)phenyl]propanamide: experimental small molecule (0 associated side effects)

(5s,8r,9s,10s,13r,14s,17s)-13-{2-[(3,5-difluorobenzyl)oxy]ethyl}-17-hydroxy-10-methylhexadecahydro-3h-cyclopenta[a]phenanthren-3-one: experimental small molecule (0 associated side effects)

s-3-(4-fluorophenoxy)-2-hydroxy-2-methyl-n-[4-nitro-3-(trifluoromethyl)phenyl]propanamide: experimental small molecule (0 associated side effects)

1-tert-butyl-3-(2,5-dimethylbenzyl)-1h-pyrazolo[3,4-d]pyrimidin-4-amine: experimental small molecule (0 associated side effects)

4-[(7r,7as)-7-hydroxy-1,3-dioxotetrahydro-1h-pyrrolo[1,2-c]imidazol-2(3h)-yl]-1-naphthonitrile: experimental small molecule (0 associated side effects)

2-chloro-4-[[1,3z,7s,7as)-7-hydroxy-1-(trifluoromethyl)tetrahydro-1h-pyrrolo[1,2-c][1,3]oxazol-3-ylidene]amino}-3-methylbenzonitrile: experimental small molecule (0 associated side effects)

6-[bis(2,2-trifluoroethyl)amino]-4-(trifluoromethyl)quinolin-2(1h)-one: experimental small molecule (0 associated side effects)

3-[(4-amino-1-tert-butyl-1h-pyrazolo[3,4-d]pyrimidin-3-yl)methyl]phenol: experimental small molecule (0 associated side effects)

nandrolone decanoate: illicit,approved small molecule (0 associated side effects) For the treatment of refractory deficient red cell production anemias, breast carcinoma, hereditary angioedema, antithrombin III deficiency, fibrinogen excess, growth failure and Turner's syndrome. It is also indicated in the prophylaxis of hereditary angioedema.

575 known side effects mediated through drugs targeting this protein:

Abdominal distension Abdominal pain lower Abdominal symptom
 Abnormal dreams Abscess Accommodation disorder Acne
 Activated partial thromboplastin time prolonged Acute
 coronary syndrome Acute tonsillitis Adenoma benign Affect lability
 Affective disorder Aggression Agitation Agranulocytosis
 Alanine aminotransferase increased Alcohol intolerance
 Alkalosis Alkalosis hypokalaemic Alopecia Amenorrhoea
 Amnesia Anaemia Anaemia macrocytic Anaphylactic
 shock Anaphylactoid reaction Androgenetic alopecia Anger Angina
 pectoris Angioedema Angiopathy Anorectal disorder Anxiety
 Aortic dissection Aphasia Aplastic anaemia Apnoea
 Appendicitis Appetite disorder Application site oedema
 Application site reaction Arrhythmia Arterial disorder
 Arthralgia Arthritis Ascites Aspartate aminotransferase
 increased Assisted fertilisation Asthenia Asthma Ataxia
 Atrial fibrillation Atrophy Azoospermia Back pain
 Balanitis Benign breast neoplasm Benign intracranial
 hypertension Benign prostatic hyperplasia Bladder cancer
 Bladder irritation Bladder pain Bladder stenosis

Blindness Blister Blood alkaline phosphatase increased
 Blood bilirubin increased Blood cholesterol increased Blood
 cortisol decreased Blood creatinine increased Blood glucose
 increased Blood insulin increased Blood pressure diastolic
 decreased Blood pressure increased Blood pressure systolic
 increased Blood prolactin increased Blood testosterone decreased
 Blood triglycerides increased Blood urea increased Blood
 uric acid Blood urine Blood urine present Body temperature
 increased Bone disorder Bone pain Bradycardia Breast cancer
 Breast discharge Breast disorder Breast enlargement
 Breast feeding Breast neoplasm Breast pain Breast tenderness
 Bronchitis Candidiasis Carbohydrate tolerance decreased
 Cardiac arrest Cardiac disorder Cardiac failure Cardiac
 failure congestive Cardiac fibrillation Cardiomegaly
 Cardiovascular disorder Carpal tunnel syndrome Cataract
 Cataract subcapsular Cerebral haemorrhage Cerebral
 ischaemia Cerebrovascular accident Cervicitis Cervix disorder
 Chapped lips Chest pain Chills Chloasma
 Chromatopsia Chromaturia Chronic obstructive pulmonary
 disease Cognitive disorder Coma Coma hepatic Compression
 fracture Confusional state Congenital cystic kidney disease
 Conjunctivitis Connective tissue disorder Constipation
 Convulsion Coronary artery disease Cough Crying
 Crystal urine Crystalluria Cushingoid Cystitis
 Cystitis noninfective Cytogenetic abnormality Death
 Decreased appetite Deep vein thrombosis Deficiency
 anaemia Dehydration Dependence Depressed mood Depression
 suicidal Dermatitis Dermatitis acneiform Dermatitis atopic
 Dermatitis bullous Dermatitis contact Dermatitis
 exfoliative Diabetes mellitus Diarrhoea Discomfort Dissociation
 Disturbance in sexual arousal Dizziness Drug abuse Drug
 dependence Drug eruption Drug tolerance Dry mouth Dry skin
 Dysgeusia Dysmenorrhoea Dyspareunia Dyspepsia Dysphagia
 Dysphonia Dyspnoea Dyspnoea exertional Dysuria Ear
 disorder Ear infection Ecchymosis Eczema Effusion
 Electrolyte imbalance Embolism Encephalitis
 Encephalopathy Endocrine disorder Endometrial sarcoma
 Endometriosis Endometritis Enlarged clitoris
 Eosinophilia Epidermal necrosis Epididymitis
 Epistaxis Erectile dysfunction Erythema Erythema
 multiforme Erythema nodosum Exophthalmos Extravasation Eye
 disorder Face oedema Fasting Fatigue Febrile neutropenia
 Feeling abnormal Fibroadenoma of breast Fibrosis Flatulence
 Fluid retention Flushing Folliculitis Fungal infection
 Gait disturbance Galactorrhoea Gamma-glutamyltransferase
 increased Gastric disorder Gastric haemorrhage Gastritis
 Gastroenteritis Gastrointestinal carcinoma Gastrointestinal
 disorder Gastrointestinal haemorrhage Gastrointestinal pain
 Gastrooesophageal reflux disease Genital discharge Genital
 infection Genital ulceration Gingival bleeding Gingival blister
 Gingival erythema Gingival pain Gingivitis Glaucoma
 Glossitis Glucose tolerance impaired Glycosuria Gout
 Growth accelerated Gynaecomastia Haemarthrosis
 Haematocrit increased Haematoma Haematuria Haemoglobin
 abnormal Haemoglobin decreased Haemoglobin increased Haemolytic

anaemia Haemorrhage Haemorrhoids Hair colour changes Hair
 growth abnormal Haptoglobin increased Headache Hemiplegia
 Hepatic adenoma Hepatic cirrhosis Hepatic encephalopathy
 Hepatic failure Hepatic function abnormal Hepatic necrosis
 Hepatic neoplasm Hepatic neoplasm malignant Hepatitis
 Hepatitis fulminant Hepatobiliary disease Hepatomegaly
 Hernia Herpes simplex Herpes virus infection Herpes
 zoster High density lipoprotein decreased Hirsutism Hormone
 level abnormal Hostility Hot flush Hydronephrosis
 Hyperaesthesia Hypercalcaemia Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkinesia Hyperlipidaemia
 Hypernatraemia Hyperplasia Hypersensitivity Hypertension
 Hypertonia Hypertonic bladder Hypertrichosis
 Hypertriglyceridaemia Hypertrophy Hyperventilation
 Hypoaesthesia Hypochromic anaemia Hypogeusia
 Hypoglycaemia Hypokalaemia Hypomenorrhoea Hypotension
 Ichthyosis acquired Ill-defined disorder Immune system
 disorder Impaired healing Impatience Incontinence Increased
 appetite Induration Infarction Infection Infestation
 Inflammation Influenza Influenza like illness Injection
 site inflammation Injection site pain Injection site reaction
 Insomnia International normalised ratio increased
 Interstitial lung disease Intestinal obstruction
 Intracranial pressure increased Intraocular pressure
 increased Iron deficiency anaemia Irritability Ischaemia
 Jaundice Jaundice cholestatic Joint swelling Laboratory
 test abnormal Lacrimation increased Leiomyoma Lethargy
 Leukocytosis Leukopenia Leukoplakia Libido decreased
 Libido increased Lipids abnormal Lipids increased Lipoatrophy
 Liver function test abnormal Loss of consciousness Loss of
 libido Lung disorder Lung infiltration Major depression
 Malaise Mass Mastitis Mediastinal disorder Medical
 device complication Melaena Menometrorrhagia Menopausal
 symptoms Menorrhagia Menstrual disorder Menstruation delayed
 Menstruation irregular Mental disorder Methaemoglobinaemia
 Metrorrhagia Micturition urgency Migraine Mood swings
 Muscle mass Muscle rigidity Muscle spasms Muscle twitching
 Muscular weakness Musculoskeletal discomfort Musculoskeletal
 pain Musculoskeletal stiffness Myalgia Myocardial infarction
 Myopathy Nasal congestion Nasal oedema Nasopharyngitis
 Nausea Neck pain Necrosis Neoplasm malignant
 Neoplasm prostate Nephrolithiasis Nephropathy Nervous system
 disorder Nervousness Neuritis Neuropathy peripheral Neutropenia
 Nipple disorder Nipple pain Nitrogen balance negative
 Nocturia Nodular regenerative hyperplasia Nodule
 Normochromic normocytic anaemia Nuchal rigidity Obstruction
 Oedema Oedema peripheral Oesophagitis Oesophagitis
 ulcerative Oligomenorrhoea Optic atrophy Optic neuritis Oral
 disorder Oropharyngeal discomfort Oropharyngeal pain
 Osteonecrosis Osteoporosis Osteoporotic fracture
 Otitis media Ovarian cyst Ovarian disorder Pain in
 extremity Palpitations Pancreatic disorder Pancreatitis
 Papilloedema Papilloma Paraesthesia Parosmia
 Pathological fracture Peliosis hepatis Pelvic pain Penile pain

Penis disorder Peptic ulcer Perineal pain Peripheral
 coldness Peripheral vascular disorder Personality disorder
 Petechiae Pharyngitis Phlebitis Photophobia Photosensitivity
 reaction Pituitary tumour Pleural disorder Pleural effusion
 Pneumonia Pollakiuria Polycythaemia Polydipsia
 Polymenorrhoea Polyp Polyuria Postmenopausal haemorrhage
 Precocious puberty Premenstrual syndrome Presyncope
 Priapism Proctitis Prostate cancer Prostatic adenoma
 Prostatic disorder Prostatic specific antigen increased
 Prostatitis Prostatomegaly Protein urine present Prothrombin
 level decreased Prothrombin level increased Pruritus Pruritus
 genital Pulmonary embolism Pulmonary fibrosis Purpura
 Rash Rash maculo-papular Rash papular Rectal
 haemorrhage Red blood cell count increased Renal failure Renal
 impairment Respiratory disorder Respiratory tract infection
 Retinal disorder Retinal vascular disorder Retinal vein
 thrombosis Rhinitis Scar Sciatica Scleroderma Seborrhoeic
 dermatitis Sensitisation Sensory loss Sepsis Serum
 sickness Shock Sinusitis Skin cancer Skin discoloration Skin
 disorder Skin exfoliation Skin hyperpigmentation Skin hypertrophy
 Skin irritation Skin mass Skin striae Skin test positive
 Skin ulcer Sleep apnoea syndrome Sleep disorder Soft tissue
 disorder Somnolence Speech disorder Spermatozoa abnormal
 Stomatitis Suicidal ideation Sulphaemoglobinaemia Surgery
 Swelling Syncope Tachycardia Tearfulness Tenderness
 Tendonitis Tension Testicular atrophy Thrombocytopenia
 Thrombophlebitis Thrombosis Tonsillitis Tooth abscess Tooth
 disorder Toothache Toxic epidermal necrolysis Tremor Ulcer
 Upper respiratory tract infection Urethral disorder Urinary
 hesitation Urinary incontinence Urinary retention Urinary tract
 disorder Urinary tract infection Urine abnormality Urine
 analysis abnormal Urine colour abnormal Urine output increased
 Urogenital disorder Urticaria Uterine disorder Uterine
 enlargement Uterine haemorrhage Uterine leiomyoma Uterine
 perforation Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Vaginal neoplasm Varicocele Varicose
 vein Vascular headache Vascular purpura Vasculitis Vasculitis
 necrotising Vasodilation procedure Venous thrombosis Vertigo
 Virilism Vision blurred Visual acuity reduced Visual
 impairment Vitreous detachment Vomiting Vulval disorder
 Vulvovaginal dryness Vulvovaginitis Weight decreased
 Weight increased

Cysteinyl leukotriene receptor 2 - Group: Receptor

Treated with:

nedocromil: approved small molecule (44 associated side effects)

For the treatment of mild to moderate asthma

44 known side effects mediated through drugs targeting this protein:

Abdominal pain Anaphylactic shock Arthritis Asthenia Body
 temperature increased Bronchitis Chest pain Cough Dermatitis
 Diarrhoea Dizziness Dyspepsia Dyspnoea Eosinophilia
 Erythema Fatigue Feeling abnormal Feeling hot
 Gastrointestinal pain Headache Increased bronchial

secretion Infection Leukopenia Loeffler's syndrome Malaise
Nasal congestion Nausea Neutropenia Ocular hyperaemia Pain
Pharyngitis Photophobia Pneumonia Pulmonary eosinophilia Rash
Respiratory disorder Respiratory tract infection Rhinitis
Sinusitis Sputum increased Tremor Upper respiratory
tract infection Viral infection Vomiting

Choline transporter-like protein 1 - Group: Transporter

Treated with:

choline: approved, nutraceutical small molecule (0 associated
side effects) For nutritional supplementation, also for treating
dietary shortage or imbalance

known side effects mediated through drugs targeting this protein:

5-hydroxytryptamine 1E receptor - Group: Receptor

Treated with:

eletriptan: approved small molecule (242 associated side
effects) For the acute treatment of migraine with or without aura
in adults.

ziprasidone: approved small molecule (251 associated side
effects) For the treatment of schizophrenia and related psychotic
disorders.

olanzapine: approved small molecule (393 associated side
effects) For the acute and maintenance treatment of schizophrenia
and related psychotic disorders, as well as acute treatment of manic
or mixed episodes of bipolar 1 disorder. Intramuscular olanzapine is
indicated for the rapid control of agitated patients.

clozapine: approved small molecule (228 associated side
effects) For use in patients with treatment-resistant
schizophrenia.

quetiapine: approved small molecule (359 associated side
effects) For the treatment of schizophrenia and related psychotic
disorders.

aripiprazole: approved small molecule (630 associated side
effects) For the treatment of schizophrenia and related psychotic
disorders.

840 known side effects mediated through drugs targeting this
protein:

Abasia Abdominal discomfort Abdominal distension Abdominal
pain Abdominal pain lower Abdominal pain upper Abdominal
tenderness Abnormal dreams Abnormal faeces Abscess
Accommodation disorder Acidosis Acne Acute coronary
syndrome Acute psychosis Adenoma benign Affect lability
Aggression Agitation Agoraphobia Agranulocytosis Akathisia
Akinesia Alanine aminotransferase increased Albuminuria
Alcohol intolerance Alkalosis Alopecia Altered state of
consciousness Amblyopia Amenorrhoea Amnesia Anaemia
Anaemia macrocytic Anaphylactic shock Anaphylactoid
reaction Anger Angina pectoris Angioedema Angiopathy Angle
closure glaucoma Anorectal disorder Anorgasmia Antisocial

behaviour Antisocial personality disorder Anxiety Aortic
dissection Apathy Aphasia Aphthous stomatitis Apnoea
Appendicitis Arrhythmia Arteriospasm coronary Arteritis
Arthralgia Arthritis Arthropathy Asocial behaviour Aspartate
aminotransferase increased Asphyxia Aspiration Asthenia
Asthma Ataxia Atelectasis Atrial fibrillation
Atrial flutter Atrioventricular block Atrioventricular block
first degree Atrophy Azotaemia Back pain Balance disorder
Basophilia Benign prostatic hyperplasia Bladder pain
Blepharitis Blepharospasm Blindness Blister Blood
alkaline phosphatase increased Blood bilirubin increased Blood
cholesterol increased Blood creatine phosphokinase increased Blood
creatinine increased Blood glucose decreased Blood glucose
increased Blood insulin increased Blood lactate dehydrogenase
increased Blood potassium decreased Blood potassium increased
Blood pressure abnormal Blood pressure diastolic decreased
Blood pressure fluctuation Blood pressure increased Blood
pressure systolic decreased Blood prolactin increased Blood
triglycerides increased Blood triglycerides normal Blood urea
increased Blood uric acid increased Blood urine Blood urine
present Blunted affect Body temperature decreased Body
temperature increased Bone neoplasm Bone pain Bradycardia
Bradykinesia Bradyphrenia Breast disorder Breast
enlargement Breast feeding Breast pain Breath odour Bronchitis
Bronchopneumopathy Bruxism Buccoglossal syndrome
Bundle branch block Burning sensation Bursitis Calculus
urinary Candidiasis Carbohydrate tolerance decreased Cardiac
arrest Cardiac disorder Cardiac failure Cardiac failure
congestive Cardiac fibrillation Cardiac flutter Cardiac murmur
Cardio-respiratory arrest Cardiomegaly Cardiomyopathy
Cardiopulmonary failure Cardiovascular disorder
Carpal tunnel syndrome Cataplexy Cataract Catatonia Cells
in urine Cellulitis Cerebral haemorrhage Cerebral infarction
Cerebral ischaemia Cerebrovascular accident
Cerebrovascular disorder Cervicitis Chapped lips
Cheilitis Chest discomfort Chest pain Chills Choking
Choking sensation Cholecystitis Cholelithiasis Cholestasis
Choreoathetosis Chronic obstructive pulmonary disease
Coccydynia Cognitive disorder Cogwheel rigidity Cold sweat
Colitis ischaemic Coma Completed suicide Condition aggravated
Confusional state Conjunctivitis Connective tissue disorder
Constipation Conversion disorder Convulsion
Coordination abnormal Corneal lesion Costochondritis Cough
Cyanosis Cystitis Cystitis noninfective Deafness Death
Decreased appetite Decubitus ulcer Deep vein thrombosis
Deficiency anaemia Dehydration Delirium Delusion
Dementia Dental caries Dependence Depersonalisation
Depressed level of consciousness Depression Depressive
symptom Derealisation Dermal cyst Dermatitis Dermatitis atopic
Dermatitis bullous Dermatitis contact Dermatitis
exfoliative Diabetes mellitus Diabetic coma Diabetic
hyperglycaemic coma Diabetic hyperosmolar coma Diabetic
ketoacidosis Diarrhoea Diplopia Discomfort Disorientation
Disturbance in attention Disturbance in sexual arousal
Dizziness Dizziness exertional Dizziness postural

Drooling Drug abuse Drug dependence Drug eruption Drug
 interaction Dry eye Dry mouth Dry skin Dry throat Duodenal
 ulcer Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea Dyspepsia
 Dysphagia Dysphemia Dysphonia Dysphoria Dyspnoea
 Dystonia Dysuria Ear disorder Ear infection Ear
 pain Ecchymosis Eczema Effusion Ejaculation disorder
 Elastosis perforans Electrocardiogram QT prolonged
 Electrocardiogram ST segment elevation Electrocardiogram T
 wave inversion Electrocardiogram abnormal Electrocardiogram
 change Electroencephalogram abnormal Embolism
 Encephalopathy Endocrine disorder Energy increased
 Enteritis Enuresis Eosinophilia Epididymitis
 Epilepsy Epistaxis Erectile dysfunction Eructation
 Erythema Erythema multiforme Euphoric mood Exfoliative
 rash Exostosis Extrapyrarnidal disorder Extrasystoles Eye
 discharge Eye disorder Eye haemorrhage Eye infection Eye
 inflammation Eye irritation Eye pain Eyelid disorder
 Eyelid function disorder Eyelid oedema Eyelid ptosis
 Face oedema Facial pain Facial paresis Faecal incontinence
 Faecalith Faecaloma Faeces hard Fasting Fatigue Fear
 Feeling abnormal Feeling cold Feeling hot Feeling jittery
 Female sexual dysfunction Flank pain Flat affect Flatulence
 Flushing Folliculitis Formication Fungal infection
 Fungal skin infection Furuncle Gait disturbance
 Galactorrhoea Gamma-glutamyltransferase increased
 Gastric disorder Gastric pH decreased Gastric ulcer
 Gastric ulcer haemorrhage Gastritis Gastroenteritis
 Gastrointestinal disorder Gastrointestinal haemorrhage
 Gastrointestinal pain Gastrooesophageal reflux disease
 Genital discharge Gingival bleeding Gingival pain Gingivitis
 Glaucoma Glossitis Glossodynia Glucose tolerance decreased
 Glucose tolerance impaired Glycosuria Glycosylated
 haemoglobin increased Goitre Gout Grand mal convulsion Groin
 pain Gynaecomastia Haematemesis Haematochezia Haematocrit
 decreased Haematoma Haematuria Haemoglobin Haemoglobin decreased
 Haemoglobin increased Haemolysis Haemoptysis Haemorrhage
 Haemorrhage intracranial Haemorrhoids Hallucination
 Hallucination, auditory Hallucination, visual Hangover
 Head discomfort Headache Heart disease congenital Heart
 rate irregular Hemiparesis Hemiplegia Hepatic enzyme increased
 Hepatic failure Hepatic steatosis Hepatitis Hepatobiliary
 disease Hepatomegaly Hernia Hiccups Hirsutism
 Homicidal ideation Hormone level abnormal Hostility Hot
 flush Hyperacusis Hyperaesthesia Hyperbilirubinaemia
 Hyperchloraemia Hyperchlorhydria Hypercholesterolaemia
 Hyperglycaemia Hyperhidrosis Hyperinsulinism
 Hyperkalaemia Hyperkeratosis Hyperkinesia
 Hyperlipidaemia Hypernatraemia Hyperparathyroidism
 Hyperpathia Hyperplasia Hyperreflexia Hypersensitivity
 Hypersomnia Hypertension Hypertensive crisis
 Hyperthermia Hyperthyroidism Hypertonia
 Hypertriglyceridaemia Hypertrophy Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypoaesthesia oral
 Hypocalcaemia Hypochloraemia Hypocholesterolaemia
 Hypochromic anaemia Hypoglycaemia Hypokalaemia

Hypokinesia Hypomagnesaemia Hypomania Hypomenorrhoea
 Hyponatraemia Hypophagia Hypoproteinaemia Hyporeflexia
 Hypotension Hypothermia Hypothyroidism Hypotonia
 Hypoventilation Hypoxia Idiopathic thrombocytopenic
 purpura Ileus Ileus paralytic Ill-defined disorder Immune
 system disorder Inappropriate antidiuretic hormone secretion
 Incontinence Increased appetite Increased bronchial
 secretion Induration Infarction Infection Infestation
 Inflammation Influenza Inguinal hernia Injection site
 mass Injection site pain Injection site reaction Insomnia
 Intention tremor Intentional self-injury Interstitial lung
 disease Intestinal functional disorder Intestinal obstruction
 Intestinal perforation Iron deficiency Iron deficiency
 anaemia Irritability Irritable bowel syndrome Ischaemia
 Ischaemic stroke Jaundice Jaundice cholestatic Joint
 contracture Joint range of motion decreased Joint stiffness Joint
 swelling Judgement impaired Keratitis Ketoacidosis
 Ketosis Laboratory test abnormal Lacrimal disorder
 Lacrimation increased Laryngitis Laryngospasm Leiomyoma
 Lens disorder Lenticular opacities Lenticular
 pigmentation Lethargy Leukocytosis Leukoderma Leukopenia
 Leukoplakia oral Libido decreased Libido increased Lip dry
 Liver disorder Liver function test abnormal Logorrhoea Loss
 of consciousness Loss of libido Lower respiratory tract infection
 Lymphadenopathy Lymphocytosis Lymphoedema Major depression
 Malaise Male sexual dysfunction Mania Masked facies
 Mastitis Mediastinal disorder Melaena Memory impairment
 Menopausal symptoms Menorrhagia Menstrual disorder
 Menstruation irregular Mental disability Mental disorder
 Mental retardation Mental status changes Metrorrhagia
 Micturition urgency Migraine Miosis Mitral valve
 incompetence Mobility decreased Monocytosis Mood swings Mouth
 ulceration Movement disorder Muscle atrophy Muscle contractions
 involuntary Muscle contracture Muscle enzyme increased
 Muscle relaxant therapy Muscle rigidity Muscle spasms
 Muscle tightness Muscle twitching Muscular weakness
 Musculoskeletal chest pain Musculoskeletal discomfort
 Musculoskeletal pain Musculoskeletal stiffness Myalgia
 Myasthenic syndrome Mydriasis Myocardial infarction
 Myocardial ischaemia Myocarditis Myoclonus Myopathy Nasal
 congestion Nasal disorder Nasal dryness Nasopharyngitis
 Nausea Neck pain Neoplasm Nephritis Nephrolithiasis
 Nervous system disorder Nervousness Neuralgia
 Neurodermatitis Neuroleptic malignant syndrome Neuropathy
 peripheral Neurosis Neutropenia Neutrophil count decreased
 Neutrophil count increased Night sweats Nightmare
 Nocturia Normochromic normocytic anaemia Nuchal rigidity
 Nystagmus Obesity Obsessive thoughts Obstruction
 Ocular hyperaemia Oculogyric crisis Oedema Oedema peripheral
 Oesophageal disorder Oesophageal ulcer Oesophagitis
 Oliguria Onychomycosis Opisthotonus Oral candidiasis
 Oral pain Orchitis noninfective Oropharyngeal discomfort
 Oropharyngeal pain Oropharyngeal spasm Orthostatic
 hypotension Osteoarthritis Osteopenia Osteoporosis Otitis
 externa Otitis media Ovarian cyst Pain Pain in extremity

Pain in jaw Pallor Palpitations Pancreatitis
 Pancreatitis acute Panic attack Panic disorder Panic
 disorder with agoraphobia Panic reaction Paraesthesia
 Paraesthesia oral Paralysis Paranoia Parkinsonian gait
 Parosmia Pathological fracture Pelvic pain Peptic ulcer
 Pericardial effusion Pericarditis Periodontitis
 Periorbital oedema Peripheral vascular disorder Personality
 disorder Petechiae Pharyngeal erythema Pharyngitis Phlebitis
 Phobia Phonological disorder Photophobia Photopsia
 Photosensitivity reaction Platelet count decreased
 Pleural disorder Pleural effusion Pneumonia Pneumonia
 aspiration Poisoning Pollakiuria Polycythaemia Polydipsia
 Polyuria Premature ejaculation Premenstrual syndrome
 Presyncope Priapism Productive cough Prostatitis Protein
 urine present Proteinuria Protrusion tongue Pruritus Pruritus
 genital Psoriasis Psychiatric symptom Psychomotor
 retardation Psychotic disorder Pulmonary congestion Pulmonary
 embolism Pulmonary oedema Purpura Pyelonephritis Pyuria
 Rash Rash erythematous Rash maculo-papular Rash papular
 Rash pustular Rash vesicular Rectal haemorrhage Red
 blood cell count decreased Red blood cell sedimentation rate
 increased Reflux oesophagitis Regressive behaviour Renal
 failure acute Renal pain Respiratory alkalosis Respiratory
 arrest Respiratory disorder Respiratory distress Respiratory
 failure Respiratory tract congestion Respiratory tract infection
 Respiratory tract infection viral Restless legs syndrome
 Retching Rhabdomyolysis Rheumatoid arthritis Rhinitis
 Rhinitis allergic Rhinitis seasonal Rhinorrhoea Rhonchi
 Rosacea Salivary gland enlargement Salivary
 hypersecretion Scab Schizoaffective disorder Schizophreniform
 disorder Sciatica Scotoma Seasonal allergy Seborrhoeic
 dermatitis Sedation Sensation of heaviness Sensory loss
 Sepsis Septic shock Sexual dysfunction Shock Sinus
 congestion Sinus disorder Sinus headache Sinus tachycardia
 Sinusitis Skin discolouration Skin disorder Skin
 hypertrophy Skin irritation Skin ulcer Sleep apnoea syndrome Sleep
 disorder Sleep talking Sluggishness Sneezing Social
 avoidant behaviour Somnambulism Somnolence Speech disorder
 Sputum increased Status epilepticus Stevens-Johnson
 syndrome Stomatitis Stridor Stupor Subarachnoid
 haemorrhage Subdural haematoma Sudden death Suicidal ideation
 Suicide attempt Supraventricular tachycardia Suspiciousness
 Swelling Swelling face Swollen tongue Syncope
 Tachycardia Tardive dyskinesia Tenderness Tendonitis
 Tenosynovitis Tension Tension headache Testicular pain
 Thinking abnormal Thirst Thought blocking Throat tightness
 Thrombocytopenia Thrombocytopenic purpura Thrombocytosis
 Thrombophlebitis Thrombosis Thyroid adenoma Thyroiditis Tic
 Tinnitus Tongue discolouration Tongue disorder Tongue dry
 Tongue oedema Tongue paralysis Tongue spasm Tonsillar
 hypertrophy Tooth abscess Tooth disorder Tooth impacted Tooth
 infection Toothache Torsade de pointes Torticollis Toxic
 epidermal necrolysis Transaminases increased Transient
 ischaemic attack Tremor Trismus Tuberculin test positive
 Tubulointerstitial nephritis Ulcer Ulcer haemorrhage Unintended

pregnancy Upper respiratory tract infection Urethral disorder
 Urinary hesitation Urinary incontinence Urinary retention
 Urinary tract disorder Urinary tract infection Urine
 output increased Urosepsis Urticaria Uterine disorder Uterine
 haemorrhage Uterine leiomyoma Uterovaginal prolapse VIIth nerve
 paralysis Vaginal discharge Vaginal haemorrhage Vaginal infection
 Vaginal inflammation Varicose vein Vascular purpura
 Vasculitis Vasodilation procedure Vasospasm Venous thrombosis
 Ventricular arrhythmia Ventricular extrasystoles Ventricular
 fibrillation Ventricular tachycardia Vertigo Viral
 diarrhoea Viral infection Vision blurred Visual acuity reduced
 Visual impairment Vomiting Vulvovaginal candidiasis
 Vulvovaginal mycotic infection Vulvovaginal pruritus
 Vulvovaginitis Water intoxication Weight decreased
 Weight fluctuation Weight increased Wheezing White blood
 cell count decreased White blood cell count increased White blood
 cells urine positive Withdrawal syndrome Xerosis Yawning

Urea Transporter 2 - Group: Transporter

Treated with:

urea: experimental small molecule (2 associated side effects)

1 known side effects mediated through drugs targeting this protein:
 Pruritus

Histamine H4 receptor - Group: Receptor

Treated with:

clozapine: approved small molecule (228 associated side effects) For use in patients with treatment-resistant schizophrenia.

histamine phosphate: approved small molecule (0 associated side effects) Histamine phosphate is indicated as a diagnostic aid for evaluation of gastric acid secretory function.

228 known side effects mediated through drugs targeting this protein:

Abdominal discomfort Abdominal distension Abnormal faeces Acute coronary syndrome Agitation Akathisia Akinesia Amnesia
 Anaemia Angina pectoris Angle closure glaucoma Anxiety
 Aphasia Arrhythmia Arthralgia Aspiration Asthenia
 Ataxia Blood triglycerides increased Blood uric acid
 increased Body temperature decreased Body temperature increased
 Bradycardia Breast pain Bronchitis Cardiac arrest Cardiac
 failure Cardiac fibrillation Cardiomyopathy Cataplexy Chest
 pain Chills Cholestasis Coma Confusional state Constipation
 Convulsion Cough Cyanosis Decreased appetite Deep vein
 thrombosis Delirium Delusion Dementia Dependence Dermatitis
 Diabetes mellitus Diabetic hyperosmolar coma Diarrhoea
 Discomfort Dizziness Drug abuse Drug dependence Dry mouth
 Dry throat Dysarthria Dysgeusia Dyskinesia Dysmenorrhoea
 Dyspepsia Dysphagia Dysphemia Dyspnoea Dystonia Ear
 disorder Eczema Effusion Ejaculation disorder
 Electrocardiogram change Electroencephalogram abnormal

Embolism Eosinophilia Epistaxis Erectile dysfunction
 Eructation Erythema Erythema multiforme Extrapyrarnidal
 disorder Eyelid disorder Faecalith Faecaloma Fatigue
 Feeling abnormal Gastric disorder Gastric ulcer
 Gastroenteritis Glaucoma Glucose tolerance impaired
 Haematemesis Haemoglobin increased Haemorrhage
 Hallucination Headache Heart disease congenital
 Hepatitis Hot flush Hypercholesterolaemia Hyperglycaemia
 Hyperhidrosis Hyperkinesia Hypersensitivity
 Hypertension Hypertriglyceridaemia Hyperuricaemia
 Hyperventilation Hypoaesthesia Hypokinesia Hyponatraemia
 Hypotension Hypothermia Ileus paralytic Ill-defined disorder
 Incontinence Increased appetite Infarction Infection
 Insomnia Intestinal obstruction Irritability Jaundice
 Ketoacidosis Laryngitis Lethargy Leukocytosis
 Leukopenia Loss of consciousness Lower respiratory tract
 infection Malaise Menopausal symptoms Micturition urgency
 Mitral valve incompetence Muscle rigidity Muscle spasms
 Muscle twitching Muscular weakness Musculoskeletal discomfort
 Myalgia Myasthenic syndrome Mydriasis Myocardial
 infarction Myocarditis Myoclonus Nasal congestion Nasopharyngitis
 Nausea Nephritis Neutropenia Nightmare Nystagmus
 Obstruction Ocular hyperaemia Oedema Oropharyngeal
 discomfort Oropharyngeal pain Osteoarthritis Pain Pallor
 Palpitations Pancreatitis Pancreatitis acute
 Paraesthesia Paranoia Pericardial effusion
 Pericarditis Periorbital oedema Petechiae Phlebitis
 Photosensitivity reaction Pleural disorder Pleural effusion
 Pneumonia Pollakiuria Polydipsia Priapism Protrusion tongue
 Pruritus Psychotic disorder Pulmonary embolism Rash
 Rectal haemorrhage Red blood cell sedimentation rate
 increased Respiratory arrest Respiratory tract infection
 Rhabdomyolysis Rhinorrhoea Salivary gland enlargement
 Salivary hypersecretion Sedation Sensory loss
 Sepsis Shock Sneezing Somnolence Status epilepticus
 Sudden death Suicidal ideation Swelling Syncope
 Tachycardia Tardive dyskinesia Tenderness Throat tightness
 Thrombocytopenia Thrombocytosis Thrombophlebitis Thrombosis
 Tic Tooth impacted Torsade de pointes Toxic epidermal
 necrolysis Tremor Tubulointerstitial nephritis Ulcer Urinary
 retention Urticaria Vasculitis Venous thrombosis Ventricular
 extrasystoles Ventricular fibrillation Ventricular
 tachycardia Vertigo Visual impairment Vomiting Vulvovaginal
 pruritus Weight decreased Weight increased Wheezing White blood
 cell count decreased

Adrenocorticotropic hormone receptor - Group: Receptor

Treated with:

cosyntropin: approved biotech (0 associated side effects)

For use as a diagnostic agent in the screening of patients presumed to have adrenocortical insufficiency.

corticotropin: approved biotech (0 associated side effects)

For use as a diagnostic agent in the screening of patients presumed to have adrenocortical insufficiency.

known side effects mediated through drugs targeting this protein: