Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
01	A02	120693	658-48-0	195.22	DL-alpha-Methyl-p-tyrosine	4-Hydroxy-alpha-methylphenylalanine	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase			Migliorini RH, et al. Am J Physiol. 1997 Feb;(272 (2 Pt2): R656-61
01	A03	291552	20315-68-8	202.26	6-Methoxy-1,2,3,4-tetrahydro-9H-pyrido[3,4b] indole		Neurotransmission	Enzyme	Inhibitor	MAO			Taylor, D.L., et al., J Pharm Pharmacol., 1984 Feb.; 36:125-7.
01	A04	A 0500	60-35-5	59.07	Acetamide	Amide C2	Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase			Kennedy, G.L. Jr, Crit Rev Toxicol. 2001 Mar;31(2):139-222
01	A05	A 1260	665-66-7	187.71	Amantadine hydrochloride	Tricyclo[3.3.1.1 3,7]decan-1-amine hydrochloride	Dopamine		Releaser		Yes	50 mg/ml	Li, X.M., Juorio, A.V., Amantadine increases aromatic L-amino acid decarboxylase mRNA in PC12 cells J. Neurosci. Res. 4th ed.,53, 490 (1998)
01	A06	A 2129	56-12-2	103.12	GABA	gamma-Aminobutyric acid	GABA		Agonist				Schwartz-Bloom, R.D., Sah, R.,J. Neurochem. 77, 353 (2001)
01	A07	A 3539	59556-17-1	175.62	Gabaculine hydrochloride		GABA	Enzyme	Inhibitor	GABA transaminase			Pierard, C., et al., Effects of GABA-transaminase inhibition on brain metabolism and amino-acid compartmentation: anin vivostudy by 2D 1H-NMR spectroscopy coupled with microdialysis Exp. Brain Res. 127, 321 (1999)
01	A08	A 4508	2921-14-4	218.60	O-(Carboxymethyl)hydroxylamine hemihydrochloride	Aminooxyacetic acid; (Carboxymethoxy)amine hemihydrochloride	Biochemistry	Enzyme	Inhibitor	Aminotransferase			Vecsei, L., et al., Eur J Pharmacol. 99 Sep 22;220(2-3):259-62
01	A09	A 5157	85797-13-3	225.18	(±)-2-Amino-7-phosphonoheptanoic acid	(±)-AP-7	Glutamate		Antagonist	NMDA			Stone., The relative potencies of (–)-2-amino-5 phosphonovalerate and (–)-2-amino-7-phosphonoheptanoate as antagonists of N-methylaspartate and quinolinic acids and repetitive spikes in rat hippocampal slices Brain Res. 381, 195 (1986)
01	A10	A 5909	34118-92-8	313.83	N-Acetylprocainamide hydrochloride	Acedainide; N-Acetylnovocainamide hydrochloride; NAPA	Na+ Channel		Blocker				Nakahara, T., et al., Eur J Pharmacol., 2001 Mar 9; 415:73-8.
01	A11	A 6671	13434-13-4	385.51	Actinonin	3-[[1-[(2-(Hydroxymethyl)-1-pyrrolidinyl)carbonyl]-2-methylpropyl]carbamoyl]octanohydroxamic acid	Biochemistry	Enzyme	Inhibitor	Leucine aminopeptidase			Sayama, Y., et al., Effects of an antibiotic protease inhibitor, actinonin on the growth within collagen gels of non-metastatic and metastatic mouse mammary tumors of the same Cancer Lett. 94, 171 (1995)
01	B02	144509	91-40-7	213.24	N-Phenylanthranilic acid	Diphenylamine-2-carboxylic acid; DPC	Cl- Channel		Blocker				Cho H, et al. Eur J Neurosci. 2003 June;17(12):2630-8
01	B03	861669	13153-27-0	434.43	S-(4-Nitrobenzyl)-6-thioguanosine	2-Amino-6-[(4-Nitrobenzyl)thio]-9-beta-D-ribofuranosylpurine	Adenosine		Inhibitor				Hammond, J.R., J Pharmacol Exp Ther. 1991 Nove; 259(2):799-807
01	B04	A 0666	88519-57-7	349.28	N-(4-Aminobutyl)-5-chloro-2-naphthalenesulfonamide hydrochloride	W-13	Intracellular Calcium		Antagonist	Calmodulin			Hidaka, H., and Tanaka, T., Naphthalenesulfonamides as calmodulin antagonists, Meth. Enzymol. 102, 185-194 (1983)
01	B05	A 1755	317-34-0	420.43	Aminophylline ethylenediamine	Theophylline ethylenediamine	Adenosine		Antagonist	A1/A2	Yes	3.7 mg/ml	Thakker, et al., Analytical Profiles of Drug Substances 2nd ed.,2, 1-44 (1982)
01	B06	A 2169	30516-87-1	267.25	3'-Azido-3'-deoxythymidine	Azidothymidine; AZT	Immune System	Enzyme	Inhibitor	Reverse transcriptase	Yes	50 mg/ml	Wu, D., et al., Low blood-brain barrier permeability to azidothymidine (AZT), 3TC, and thymidine in the rat. Brain Res. 791, 313 (1998)
01	B07	A 3595		392.24	AC 915 oxalate	N-(2-(3,4-dichlorophenyl)acetoxy)ethylpyrrolidine oxalate	Opioid		Ligand	sigma1	Yes	18 mg/ml	Maeda, D.Y., et al., As-1 selective analogue of BD1008. A potential substitute for (+)-opioids insreceptor binding assays Bioorg. Med. Chem. Lett. 10, 17-18 (2000)
01	B08	A 4562	1214-79-5	294.15	5-(N,N-Dimethyl)amiloride hydrochloride	3-Amino-N-(aminoiminoethyl)-5-(dimethylamino)-6-chloropyrazinecarboxamide hydrochloride; DMA	Ion Pump		Blocker	Na+/H+ Antiporter			Arakawa, J. and Hara, A.,Pharmacol. 59, 239 (1999)
01	B09	A 5282	76326-31-3	197.13	(±)-2-Amino-5-phosphonopentanoic acid	(±)-AP-5; (±)-AP-V	Glutamate		Antagonist	NMDA	Yes	5.6 mg/ml	Watkins, J.C. and Evans, R.H., Excitatory amino acid transmitters Ann. Rev. Pharmacol. Toxicol. 21, 165-204 (1981)
01	B10	T 9034	145-42-6	537.70	Sodium Taurocholate	3alpha,7alpha,12alpha-Trihydroxy-5beta-cholan-24-oic-acid N-(2-sulfoethyl)amide	Multi-Drug Resistance		Modulator	Conjugate Pathway	Yes	0.5 M	Aveldano, M.I., Phospholipid solubilization during detergent extraction of rhodopsin from photoreceptor disk membranes. Arch. Biochem. Biophys. 324, 331-343 (1995)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
01	B11	A 6770	59-05-2	454.45	Methotrexate	Methylaminopterin; MTX	DNA Metabolism		Inhibitor		Insoluble		Kumar, P., et al., Interaction of polyglutamyl derivatives of methotrexate, 10-deazaaminopterin, and dihydrofolate with dihydrofolate reductase. Cancer Res. 46, 5020-5023 (1986)
01	C02	190047	62284-79-1	373.23	S(-)-p-Bromotetramisole oxalate	R 30402 oxalate	Phosphorylation	Enzyme	Inhibitor	Alkaline phosphatase			Yingst, D.R., et al. Eur Pharmacol. 2000 Oct 6; 406(1):49-52
01	C03	861804	53464-72-5	432.00	TMB-8 hydrochloride	8-(Diethylamino)octyl 3,4,5-trimethoxybenzoate hydrochloride	Intracellular Calcium		Antagonist				Petegnief, V., et al., Neurochem Int. 2004 Mar;44(4):287-91
01	C04	A 0760	2133-34-8	101.11	L-azetidine-2-carboxylic acid	(S)-Azetidine-2-carboxylic acid	Biochemistry		Inhibitor	Collagen			Berggren, D., et al.,Hear. Res. 107, 125 (1997)
01	C05	A 1782	73322-71-1	466.48	S-(p-Azidophenacyl)glutathione		Multi-Drug Resistance	Enzyme	Modulator	Glutathione S-transferase			Seddon, A.P. and Douglas, K.T.,FEBS Lett. 110, 262 (1980)
01	C06	A 2251	62-51-1	195.69	Acetyl-beta-methylcholine chloride	Methacholine chloride	Cholinergic		Agonist	M1	Yes	50 mg/ml	Kamatchi, G.L, et al. J Biol Chem. 2004 Feb 6;279(6):4102-9. Epu 2003 Nov 18
01	C07	A 3711	80809-81-0	326.44	AA-861	2-(12-Hydroxydodeca-5,10-diynyl)-3,5,6-trimethyl-p-benzoquinone	Leukotriene	Enzyme	Inhibitor	5-lipoxygenase			Terao, S., et al.,J. Chem. Soc., Perkin Trans. I 1, 2909 (1982)
01	C08	A 4638	446-86-6	277.27	Azathioprine		P2 Receptor	Enzyme	Inhibitor	Purine synthesis			Fernandex, O., et al., J Neurol Sci. 2004 Aug 15;223(1):29-34
01	C09	A 5330	148451-96-1	472.39	L-732,138	N-Acetyl-L-tryptophan 3,5-bis(trifluoromethyl)benzyl ester	Tachykinin		Antagonist	NK1 > NK2, NK3			MacLeod, A. M., N-acyl-L-tryptophan benzyl esters: potent substance P receptor antagonists. J. Med. Chem. 36, 2044 (1993)
01	C10	A 5922	20537-88-6	214.22	Amifostine	2-(3-Aminopropyl)aminoethyl phosphorothioate; WR2721	Cell Stress		Inhibitor	Cytoprotectant			Capizzi, R.L., et al.,Cancer 72, 3495 (1993)
01	C11	A 6883	2870-71-5	384.32	Atropine methyl bromide		Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Ohnuma, H., et al., Intracerebroventricular injection of methylatropine suppresses insulin response to oral glucose load in rats. J. Auton. Nerv. Syst. 57, 43-48 (1996)
01	D02	194336	627-95-2	153.61	5-Aminovaleric acid hydrochloride	5-Aminopentanoic acid hydrochloride	GABA		Antagonist	GABA-B			Lastres-Becker, I., J Neurchem. 2003 Mar;84(5):1097-109
01	D03	A 0152	504-24-5	94.12	4-Aminopyridine		K+ Channel		Blocker	A-type			Armand, V., et al.,Brain Res. 841, 62 (1999)
01	D04	A 0779	66711-21-5	281.57	p-Aminoclonidine hydrochloride	Apraclonidine hydrochloride	Adrenoceptor		Agonist	alpha2			Alburges, M.E.,a2-agonist binding sites in brain: [125I]p-iodoclonidine versus [3H]para-aminoclonidine Brain Res. Bull. 32, 97 (1993)
01	D05	A 1784	54-62-6	440.42	Aminopterin	4-Aminofolic acid	Antibiotic	Enzyme	Inhibitor	Dihydrofolate reductase			Matherly, L.H., et al., Enhanced polyglutamylation of aminopterin relative to methotrexate in the Ehrlich ascites tumor cellin vitro. Cancer Res. 45, 1073 (1985)
01	D06	A 2385	320-67-2	244.21	5-azacytidine	4-Amino-1-(beta-D-ribofuranosyl)-1,3,5-triazin-2(1H)-one; Ladakamycin	DNA Metabolism	Enzyme	Inhibitor	DNA methyltransferase			Qian X., et al., DNA methylation regulates p27kip1 expression in rodent pituitary cell lines. Am. J. Pathol. 153, 1475-1482 (1998)
01	D07	A 3773	1684-40-8	234.73	9-Amino-1,2,3,4-tetrahydroacridine hydrochloride	Tacrine hydrochloride; THA hydrochloride	Cholinergic	Enzyme	Inhibitor	Cholinesterase			Sussman, J., et al.,Proc. Natl. Acad. Sci. USA 90, 9031 (1993)
01	D08	A 4669	59277-89-3	225.21	Acyclovir	Acycloguanosine	Immune System	Enzyme	Inhibitor	Viral DNA synthesis	Yes	0.7 mg/ml	Ochiai, H., et al., Murine cytomegalovirus DNA polymerase: purification, characterization and role in the antiviral activity of acyclovir. Antiviral Res. 17, 1-16 (1992)
01	D09	A 5376	50-78-2	180.16	Acetylsalicylic acid	O-Acetylsalicylic acid; Aspirin	Prostaglandin	Enzyme	Inhibitor	COX-3 > COX-1 > COX-2	Yes	3.0 mg/ml	Gilroy, D. W., Differential effects of inhibition of isoforms of cyclooxygenase (COX-1 and COX-2) in chronic inflammation. Inflamm. Res. 47, 79 (1998)
01	D10	A 6011	59-66-5	222.25	Acetazolamide	N-[5-(Aminosulfonyl)-1,3,4-thiadiazol-2-yl]acetamide	Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase			Hauge, A., et al., Acute effects of acetazolamide on cerebral blood flow in man. Acta Physiol. Scand. 117, 233 (1983)
01	D11	A 6976		437.96	Amperozide hydrochloride	4-[4,4-bis(4-Fluorophenyl)butyl]-N-ethyl-1-piperazinecarboxamide hydrochloride	Serotonin		Ligand		Yes	14 mg/ml	Rauser, L., et al.,J. Pharmacol. Exp. Ther. 299, 83-89 (2001)
01	E02	211672	498-95-3	129.16	(±)-Nipecotic acid	(±)-3-Piperidine carboxylic acid	GABA		Inhibitor	Uptake			De Marco, A., et al. Eur J Pharm Sci. 2004 Jun;22(2-3):153-64
01	E03	A 0257	5908-99-6	676.83	Atropine sulfate		Cholinergic		Antagonist	Muscarinic	Yes	2.5 mg/ml	Zwart, R., and Vijverberg, H.P., Potentiation and inhibition of neuronal nicotinic receptors by atropine: competitive and noncompetitive effects Mol. Pharmacol. 52, 886-895 (1997)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
01	E04	A 0788	3544-24-9	136.15	3-aminobenzamide	3-ABA; 3-AB	Apoptosis	Enzyme	Inhibitor	PARS	Yes		Purnell, M.R. and Whish, W.J., Novel inhibitors of poly(ADP-ribose) synthetase, Biochem. J. 185, 775-777 (1980)
01	E05	A 1824	1210-83-9	218.26	N-Acetyl-5-hydroxytryptamine	N-Acetylserotonin; Normelatonin	Melatonin		Precursor				Vanecek, J., and Vollrath, L., Developmental changes and daily rhythm in melatonin-induced inhibition of 3',5'-cyclic AMP accumulation in the rat pituitary Endocrinology 126, 1509-1513 (1990)
01	E06	A 3085	1154-25-2	299.77	5-(N-Ethyl-N-isopropyl)amiloride	EIPA	Ion Pump		Blocker	Na+/H+ Antiporter			Abrahamse, S.L., et al.,Am. J. Physiol. 267, G409 (1994)
01	E07	A 3846	246246-19-5	402.51	AL-8810	(5Z, 13E)-(9S,11S,15R)-9,15,dihydroxy-11-fluoro-15-(2-indanyl)-16,17,18,19,20,pentanor-5,13-prostadienoic acid	Prostaglandin		Antagonist	FP Receptor			Griffin, B.W., et al., Pharmacological characterization of an FP prostaglandin receptor on rat vascular smooth muscle cells (A7r5) coupled to phosphoinositide turnover and intracellular calcium mobilization. J. Pharmacol. 286, 411 (1998)
01	E08	A 4687	56824-20-5	341.84	Amiprilose hydrochloride	1,2-O-Isopropylidene-3-O-[3'-(N,N-dimethylamino)propyl]-alpha-D-glucofuranose hydrochloride	Immune System		Modulator				Garrett, E.R., et al.,J. Pharmacol. Sci. 71, 387 (1982)
01	E09	A 5585	96861-65-3	299.77	5-(N-Methyl-N-isobutyl)amiloride	MIA	Ion Pump		Blocker	Na+/H+ Antiporter			Maidorn, R.P., et al.,Br. J. Cancer 67, 297 (1993)
01	E10	A 6134	300-08-3	236.11	Arecoline hydrobromide	1-Methyl-1,2,5,6-tetrahydro-3-pyridinecarboxylic acid methyl ester hydrobromide	Cholinergic		Agonist		Yes		Moos, W.H., et al., Cholinergic agents: effect of methyl substitution in a series of arecoline derivatives on binding to muscarinic acetylcholine receptors. J. Pharm. Sci. 81, 1015-1019 (1992)
01	E11	A 7009	996-19-0	246.25	Aminoguanidine hemisulfate	Hydrazinecarboximidamide hemisulfate	Nitric Oxide	Enzyme	Inhibitor	NOS			Chang, K.C., et al., Br J Pharmacol. 2004 Jul 12 [Epub ahead of print]
01	F02	246379	123-99-9	188.23	Azelaic acid	Dicarboxylic acid C9; Nonanedioic acid; AZA	DNA Metabolism	Enzyme	Inhibitor				Charnock, C., Eur J Pharm Sci. 2004 Apr;21(5):589-96
01	F03	A 0382	52-88-0	366.42	Atropine methyl nitrate	AMN; Methylatropine nitrate	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Nijsen, M.J., et al., Conditioned fear-induced tachycardia in the rat: vagal involvement Eur. J. Pharmacol. 350, 211-222 (1998)
01	F04	A 0937	3414-63-9	319.27	(±)-Norepinephrine (+)bitartrate	(±)-Arterenol (+)bitartrate; (±)-Noradrenalin (+)bitartrate	Adrenoceptor		Agonist				Kitayama, S., and Dohi, T., Eur J Pharmacol. 2003 Oct. 31;479(1-3):65-70
01	F05	A 1895	4431-00-9	422.35	Aurintricarboxylic acid	ATA	Apoptosis	Enzyme	Inhibitor	TopoII			Posner, A., et al., Aurintricarboxylic acid is an inhibitor of mu- and m-calpain Biochem. Mol. Biol. Int. 36, 291-299 (1995)
01	F06	A 3134	2079-89-2	256.26	3-Aminopropionitrile fumarate		Multi-Drug Resistance	Enzyme	Substrate	CYP450			Gilad, G.M. and Gilad, V.H., Eur J Pharmacol., 2001; 430:69-72.
01	F07	A 3940	1614-12-6	134.14	1-Aminobenzotriazole	ABT; 1-Benzotriazolamine	Multi-Drug Resistance	Enzyme	Inhibitor	CYP450, chloroperoxidase			Ortiz de Montellano, P.R., et al.,Tetrahedron Lett. 40, 511 (1984)
01	F08	S 9318	78934-83-5	465.80	Sandoz 58-035	3-[Decyldimethylsilyl]-N-[2-(4-methylphenyl)-1-phenethyl]propanamide	Lipid	Enzyme	Inhibitor	ACAT	Insoluble		Ross, A. C., et al, Selective inhibition of acyl coenzyme A:cholesterol acyltransferase by compound 58-035. J. Biol. Chem. 259, 815-819 (1984)
01	F09	A 5626	6050-81-3	197.73	Acetylthiocholine chloride		Cholinergic		Agonist	Nicotinic			Froede, H.C., Direct determination of acetyl-enzyme intermediate in the acetylcholinesterase-catalyzed hydrolysis of acetylcholine and acetylthiocholine. J. Biol. Chem. 259, 11010 (1984)
01	F10	A 6351		345.47	A-315456	N-[3-(cyclohexylidene(1H-imidazol-4-ylmethyl)phenyl]ethanesulfonamide	Adrenoceptor		Antagonist	alpha1D	Insoluble		Buckner, S.A. et al.,Eur. J. Pharmacol. 433, 123-127 (2001)
01	F11	A 7127	2482-00-0	228.27	Agmatine sulfate	(4-Aminobutyl)guanadine sulfate	Imidazoline		Agonist		Yes	50 mg/ml	Li, et al., Agmatine: An endogenous clonidine-displacing substance in the brain. Science 263, 966 (1994)
01	G02	246557	343-94-2	196.68	Tryptamine hydrochloride	3-(2-Aminoethyl)indole hydrochloride	Serotonin		Ligand				Medhurst, A.D., et al., Br J Pharmacol. 1993 Nov;110(3):1023-30
01	G03	A 0384	14923-17-2	270.31	Arcaine sulfate	N,N'-1,4-Butanediylbis(guanidine) sulfate	Glutamate		Antagonist	NMDA-Polyamine			Reynolds, I.J., Arcaine uncovers dual interactions of polyamines with the N-methyl-D-aspartate receptor J. Pharmacol. Exp. Ther. 255, 1001-1007 (1990)
01	G04	A 0966	1742-95-6	212.21	4-Amino-1,8-naphthalimide		Apoptosis	Enzyme	Inhibitor	PARP			Banasik, M., et al., Specific inhibitors of poly(ADP-ribose) synthetase and mono(ADP-ribosyl)transferase J. Biol. Chem. 267, 1569-1575 (1992)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
01	G05	A 1910	20263-07-4	183.10	(±)-2-Amino-4-phosphonobutyric acid	(±)-AP-4	Glutamate		Antagonist	NMDA			Collingridge, G. L., et al., Excitatory amino acid receptors in the vertebrate central nervous system Pharmacol. Rev. 40, 143-210 (1989)
01	G06	A 3145	520-36-5	270.24	Apigenin	4',5,7-Trihydroxyflavone	Cell Cycle		Inhibitor				Sato, F., et al., Apigenin induces morphological differentiation and G2-M arrest in rat neuronal cells Biochem. Biophys. Res. Comm. 204, 578-584 (1994)
01	G07	A 4147	81028-90-2	161.16	3-Amino-1-propanesulfonic acid sodium		GABA		Agonist	GABA-A			Krantis, A., et al., Rat gastroduodenal motilityin vivo: interaction of GABA and VIP in control of spontaneous relaxations. Am. J. Physiol. 275, 0 (1998)
01	G08	A 4910	20263-06-3	169.07	(±)-2-Amino-3-phosphonopropionic acid	(±)-AP-3	Glutamate		Antagonist	NMDA			Collingridge, G. L., et al., Excitatory amino acid receptors in the vertebrate central nervous system Pharmacol. Rev. 40, 143-210 (1989)
01	G09	A 5791	566-48-3	302.42	4-Androsten-4-ol-3,17-dione	4-OH-A; 4-Hydroxy-4-androstene-3,17-dione	Hormone	Enzyme	Inhibitor	Aromatase			Brodie, A.M., et al.,Endocrinology 100, 1684 (1977)
01	G10	G 8543	185259-85-2	377.49	GR 4661	3-[3-(2-Dimethylaminoethyl)-1H-indol-5-yl]-N-(4-methoxybenzyl)acrylamide	Serotonin		Agonist	5-HT1D			O'Neill, M.F. and Sanger, G.L.,Eur. J. Pharmacol. 370, 85-92 (1999)
01	G11	A 7148	2498-50-2	208.09	4-Aminobenzamidine dihydrochloride		Biochemistry	Enzyme	Inhibitor	Trypsin			Spencer, J.R., et al., Bioorg Med Chem Lett., 2002;12:2023-6.
01	H02	265128	399-76-8	179.15	5-Fluoroindole-2-carboxylic acid		Glutamate		Antagonist	NMDA-Glycine			Kaminski, R., et al., J neural Transm. 1998;105(2-3):133-46
01	H03	A 0430	68781-13-5	137.57	1-Aminocyclopropanecarboxylic acid hydrochloride	ACPC	Glutamate		Agonist	NMDA-Glycine			Sheinin, A., et al.,Neurosci. Lett. 317, 77 (2002)
01	H04	R 0875	50-55-5	608.69	Reserpine	Methyl reserpate; 3,4,5-Trimethoxybenzoic acid ester	Serotonin		Inhibitor	Uptake			Schachter, M., Moxonidine: a review of safety and tolerability after seven years of clinical experience. J. Hypertens. 17, S37-S39 (1999)
01	H05	A 1977		361.53	N-arachidonylglycine	NAGly	Cannabinoid	Enzyme	Inhibitor	FAAH			Huang S M., et al.,J. Biol. Chem. 276, 42639-42644 (2001)
01	H06	A 3281	61714-27-0	377.34	W-7 hydrochloride	N-(6-Aminohexyl)-5-chloro-1-naphthalenesulfonamide hydrochloride	Intracellular Calcium		Antagonist	Calmodulin			Suzuki, Y.J., et al., Modulation of Ca2+channel-gated Ca2+release by W-7 in cardiac myocytes. Cell Calcium 25, 191-198 (1999)
01	H07	A 4393	41372-20-7	303.79	Apomorphine hydrochloride hemihydrate	10,11-Dihydroxyaporphine hydrochloride hemihydrate	Dopamine		Agonist				Gessa, et al., eds.,Apomorphine and Other Dopaminomimetics , New York, NY, USA (1981),
01	H08	A 5006	74-79-3	174.20	L-Arginine		Nitric Oxide		Precursor		Yes	50 mg/ml	Boucher, J.L., et al., Nitric oxide biosynthesis, nitric oxide synthase inhibitors and arginase competition forL-arginine utilization. Cell. Mol. Life Sci. 55, 1015-1028 (1999)
01	H09	A 5879	56-10-0	281.01	2-(2-Aminoethyl)isothiourea dihydrobromide	AET; S-(2-Aminoethyl)isothiouronium dihydrobromide	Nitric Oxide	Enzyme	Inhibitor	NOS			Southan, G.J., et al.,Br. J. Pharmacol. 114, 510 (1995)
01	H10	A 6566	117354-64-0	265.72	2-Hydroxysaclofen	(±)-3-Amino-2-(4-chlorophenyl)-2-hydroxy-propylsulfonic acid	GABA		Antagonist	GABA-B	Yes	1.0 mg/ml	Curtis, et al., Baclofen antagonism by 2-hydroxysaclofen in the cat spinal cord. Neurosci. Lett. 92, 97 (1988)
01	H11	A 7162	13138-33-5	139.09	3-Aminopropylphosphonic acid		GABA		Agonist	GABA-B			Lux-Lantos, et al., Activation of GABA B receptors in the anterior pituitary inhibits prolactin and luteinizing hormone secretion. Neuroendocrinology 56, 687 (1992)
02	A02	A 7250	616-91-1	163.20	N-Acetyl-L-Cysteine		Glutamate		Antagonist		Yes	100 mg/ml with heating	Roederer, M., et al., Cytokine-stimulated human immunodeficiency virus replication is inhibited by N-acetyl-L-cysteine. Proc. Natl. Acad. Sci. USA 87, 4884-4888 (1990)
02	A03	A 7824	60-32-2	131.18	6-Aminohexanoic acid	6-Aminocaproic acid; EACA	Immune System		Inhibitor	Blood Clotting	Yes	0.5 M @ 20C	Soter, N.A., et al., Inhibition bye-aminocaproic acid of the activation of the first component of the complement system, J. Immunol. 114, 928 (1975)
02	A04	A 8723	645-05-6	210.28	Altretamine	N,N,N',N',N'',N''-Hexamethyl-1,3,5-triazine-2,4,6-triamine	DNA Metabolism		Inhibitor				Lee,C.R.& Faulds,D., Altretamine. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in cancer chemotherapy. Drugs 49, 932 (1995)
02	A05	A 9501	60-92-4	329.21	Adenosine 3',5'-cyclic monophosphate	cAMP; 3',5'-Cyclic AMP	Phosphorylation	Enzyme	Activator	PKA	Yes	5 mg/ml	Spada, A., et al., Cyclic AMP and calcium in the transduction of hypothalamic neurohormone action in human pituitary tumors Horm. Res. 47, 235-239 (1997)
02	A06	A 9834	1121-91-1	166.67	(±)-AMT hydrochloride	(±)-2-Amino-5,6-dihydro-6-methyl-4H-1,3-thiazine hydrochloride	Nitric Oxide	Enzyme	Inhibitor	iNOS			Nakane, M., et al.,Mol. Pharmacol. 47, 831 (1995)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
02	A07	A-024	35788-27-3	294.27	5'-N-Methyl carboxamidoadenosine	MECA	Adenosine		Agonist	A2 > A1	Slighty Soluble		Bruns, et al., Characterization of the A2adenosine receptor labeled by [3H]NECA in rat striatal membranes. Mol. Pharmacol. 29, 331 (1986)
02	A08	A-145	149981-25-9	376.39	1-Allyl-3,7-dimethyl-8-p-sulfophenylxanthine		Adenosine		Antagonist	A2	Yes		Jacobson, et al., Effect of trifluoromethyl and other substituents on activity of xanthines at adenosine receptors. J. Med. Chem. 38, 2639 (1993)
02	A09	A-178	968-81-0	324.40	Acetohexamide		Hormone		Releaser	Insulin			Takada, H. et al., J Pharmacol Exp Ther. 1998;287:504-7.
02	A10	A-243	121050-04-2	145.12	cis-Azetidine-2,4-dicarboxylic acid		Glutamate		Modulator	NMDA	Yes		Kozikowski, et al.; J. Med. Chem. 33, 1561 (1990)
02	A11	B 0753	57-71-6	101.11	2,3-Butanedione monoxime	Diacetyl monoxime	K+ Channel		Blocker	ATP-sensitive			Habazettl, H., et al.,Cardiovasc. Res. 37, 684 (1998)
02	B02	A 7275	1118-90-7	161.16	L-2-aminoadipic acid	Aad; (S)-2-Aminohexanedioic acid; L-Homoglutamic acid	Glutamate	Enzyme	Inhibitor	Glutamine synthetase			McBean, J., et al., Inhibition of the glutamate transporter and glial enzymes in rat striatum by the gliotoxin alpha aminoadipate Br. J. Pharmacol. 113, 536-540 (1994)
02	B03	A 7845	252930-37-3	322.26	ATPO	(R,S)-2-Amino-3-[5-tert-butyl-3-(phosphonomethoxy)-4-isoxazolyl]propionic acid	Glutamate		Antagonist	GluR1-4	Insoluble		Madsen, U. et al.,J. Med. Chem. 39, 1682-1691 (1996)
02	B04	A 8762	2494--12--4	195.22	N-Acetyldopamine monohydrate		Dopamine		Precursor				Kuhn, D.M., Arthur, R., Jr., Dopamine inactivates tryptophan hydroxylase and forms a redox-cycling quinoprotein: possible endogenous toxin to serotonin neurons J. Neurosci. 18, 7111 (1998)
02	B05	A 9512	69815-49-5	319.27	L(-)-Norepinephrine bitartrate	(-)-Arterenol bitartrate; Noradrenaline bitartrate	Adrenoceptor		Agonist	alpha, beta1	Yes	46 mg/ml	Kitayama, S., and Dohi, T., Eur J Pharmacol. 2003 Oct. 31;479(1-3):65-70
02	B06	A 9898	51865-79-3	454.45	(-)Amethopterin		DNA Metabolism		Inhibitor		Yes		Itoh, T., et al., Chirality. 2001;13(3):164-9
02	B07	P 0248	57568-80-6	381.99	PNU-37887A	N-(1-Adamantyl)-N'-cyclohexyl-4-morpholinecarboxamidine hydrochloride	K+ Channel		Inhibitor	Kir 6.1/SUR2B	Insoluble	23 mg/ml	Kovalev, H., et al., Br. J. Pharmacol. 2004; 141:867-873
02	B08	A-155	67684-64-4	173.17	trans-(±)-ACPD	trans-(±)-1-Amino-1,3-cyclopentanedicarboxylic acid	Glutamate		Agonist	Metabotropic	Yes	1.0 mg/ml	Palmer, et al., trans-ACPD a selective agonist of the phosphoinositide-coupled excitatory amino acid receptor. Eur. J. Pharmacol. 166, 585 (1989)
02	B09	A-196	168977-94-4	173.58	SKF 97541 hydrochloride	3-Aminopropyl-(methyl)phosphinic acid hydrochloride	GABA		Agonist	GABA-B	Yes		Bon, C., et al., Electrophysiological actions of GABAB agonists and antagonists in rat dorso-lateral septal neurones in vitro Br. J. Pharmacol. 118, 961-967 (1996)
02	B10	A-244	161596-92-9	145.12	trans-Azetidine-2,4-dicarboxylic acid	tADA	Glutamate		Agonist	mGluR1, mGluR5	Yes	5.7 mg/ml	Favaron, et al.,trans-Azetidine-2,4-dicarboxylic acid activates neuronal metabotropic receptors. Neuroreport 4, 967-970 (1993)
02	B11	S 5192	174635-69-9	380.49	SB 222200		Tachykinin		Antagonist	NK3	Insoluble		Sarau, H.M., et al., J Pharmacol Exp Ther. 2000 Oct;295(1):373-81
02	C02	A 7342	1016-47-3	202.26	N-Acetyltryptamine	3-(2-N-Acetylaminoethyl)indole	Melatonin		Agonist - Antagonist		Yes		Dudocovich, M.L., Melatonin receptor antagonists that differentiate between the human Mel1a and Mel1b recombinant subtypes are used to assess the pharmacological profile of the rabbit retina ML1 presynaptic heteroreceptor. Naunyn-Schmiedeberg's Arch. Pharmacol. 355, 365 (1997)
02	C03	A 8003	315-30-0	136.11	Allopurinol	1H-Pyrazolo[3,4-d]pyrimidin-4-ol	Cell Stress	Enzyme	Inhibitor	Xanthine oxidase			Kelley, W.N. and Beardmore, T.D.,Science 169, 388 (1970)
02	C04	A 8835	1937-19-5	110.55	Aminoguanidine hydrochloride	Guanylhydrazine hydrochloride	Nitric Oxide	Enzyme	Inhibitor	NOS			Chang, K.C., et al., Br J Pharmacol. 2004 Jul 12 [Epub ahead of print]
02	C05	A 9561	1428-95-1	311.78	5-(N,N-hexamethylene)amiloride		Ion Pump		Inhibitor	Na+/H+ Antiporter			Jiang, T., Steinberg, S.F.,Am. J. Physiol. 273, H1044 (1997)
02	C06	A 9899	2508-72-7	299.81	Antozoline hydrochloride	2-(N-Benzylanilinomethyl)-2-imidazoline hydrochloride	Imidazoline		Agonist				Berdeu, D., et al., Evidence for two different imidazoline sites on pancreatic B cells and vascular bed in rat. Eur. J. Pharmacol. 275, 91 (1995)
02	C07	A-114	58640-82-7	293.84	(+)-N-Allylnormetazocine hydrochloride	(+)-NANM hydrochloride; SKF-10047	Opioid		Agonist	sigma1	Yes		Itzhak, Y., Pharmacological specificity of some psychotomimetic and antipsychotic agents for thesand PCP binding sites. Life Sci. 42, 745 (1988)
02	C08	A-156	7619-35-4	293.84	(±)-N-Allylnormetazocine hydrochloride	(±)-NAMM hydrochloride; (±)-SKF-10047	Opioid		Agonist	sigma1			Shimazu, S., et al. Eur J Pharmacol. 2000 Jan 28;388(2):139-46
02	C09	A-201	55199-25-2	101.11	cis-4-Aminocrotonic acid	CACA	GABA		Agonist	GABA-C	Yes	124 mg/ml	Feigenspan, et al., Pharmacology of GABA receptor Cl-channels in rat retinal bipolar cells. Nature 361, 159 (1993)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
02	C10	A-252	175521-95-6	189.73	AGN 192403 hydrochloride	(2-endo,3exo)-3-(Methylethyl)-bicyclo[2.2.1]heptan-2-amine hydrochloride	Imidazoline		Ligand	I1	Yes	20 mg/ml	Munk, et al., Synthesis and pharmacologic evaluation of 2-endo-Amino-3-exo-isopropyl-bicyclo[2.2.1]heptane: A potent imidazoline1receptor specific agent. J. Med. Chem. 39, 1193-1195 (1996)
02	C11	B 1183		323.35	1-benzoyl-5-methoxy-2-methylindole-3-acetic acid		Multi-Drug Resistance		Inhibitor	MRP1	Slighty Soluble	<0.17 mg/ml	Maguire, A.R., Synthesis of indomethacin analogues for evaluation as modulators of MRP activity. Bioorg. Med. Chem. 9, 745 (2001)
02	D02	A 7410	2016-88-8	266.09	Amiloride hydrochloride		Na+ Channel		Blocker	Epithelial	Yes	50 mg/ml	Tang, C.M., et al., Amiloride selectively blocks the low threshold (T) calcium channel. Science 240, 213-215 (1988)
02	D03	A 8404	549-18-8	313.87	Amitriptyline hydrochloride		Adrenoceptor		Inhibitor	Uptake	Yes		Stanton, T., et al., Antagonism of the five cloned human muscarinic cholinergic receptors expressed in CHO-K1 cells by antidepressants and antihistaminics Biochem. Pharmacol. 45, 2352-2354 (1993)
02	D04	A 9013	402-40-4	566.42	BW 284c51	1,5-Bis(4-allyldimethylammoniumphenyl)pentan-3-one dibromide	Cholinergic	Enzyme	Inhibitor	Acetylcholinesterase			Dipatre, P.L., et al.,J. Histochem. Cytochem. 41, 129 (1993)
02	D05	A 9630	63-05-8	286.42	4-Androstene-3,17-dione	Androstenedione; 3,17-Dioxo-4-andostene	Hormone		Precursor	Androgen			Provost, P.R., Androgen formation and metabolism in the pulmonary epithelial cell line A549: expression of 17b-hydroxysteroid dehydrogenase type 5 and 3a-hydroxysteroid dehydrogenase type 3. Endocrinology 141, 2786 (2000)
02	D06	A 9950	72432-10-1	219.24	Aniracetam		Glutamate		Agonist	AMPA			Johansen, T.H., et al., Interactions among GYKI-52466, cyclothiazide, and aniracetam at recombinant AMPA and kainate receptors. Mol. Pharmacol. 48, 946-955 (1995)
02	D07	A-129	14028-44-5	313.79	Amoxapine		Adrenoceptor		Inhibitor	Uptake			Kinney, J.L., and Evans, R.L., Jr., Evaluation of amoxapine Clin. Pharm. 1, 417-424 (1982)
02	D08	A-162		179.65	1-Amino-1-cyclohexanecarboxylic acid hydrochloride		Neurotransmission		Substrate				
02	D09	A-202	89705-21-5	386.41	N6-2-(4-Aminophenyl)ethyladenosine	APNEA	Adenosine		Agonist	A3	Insoluble		Fozard, et al., Adenosine A3receptors mediated hypotension in the angiotensin II-supported circulation of the pithed rat Br. J. Pharmacol. 109, 3-5 (1993)
02	D10	A-254	168560-79-0	221.21	AIDA	1-Aminoindan-1,5-dicarboxylic acid; UPF 523	Glutamate		Antagonist	mGluR1	Yes	2.0 mg/ml	Pellicciari, et al., 1-Aminoindan-15-dicarboxylic acid: A novel antagonist at phospholipase C-linked metabotropic glutamate receptors. J. Med. Chem. 38, 3717-3719 (1995)
02	D11	B 1266	106-51-4	108.10	p-Benzoquinone	Quinone; p-BQ	DNA Repair		Inhibitor	G:C site			Siraki, A.G., Toxicol.2004 Jun 3 [Epub ahead of print]
02	E02	A 7655	29122-68-7	266.34	(±)-Atenolol		Adrenoceptor		Antagonist	beta1	Yes	0.3 mg/ml	Doggrell, S.A., The effects of (±)-, (+)-, and (-)-atenolol, sotalol, and amosulalol on the rat left atria and portal vein. Chirality 5, 8-14 (1993)
02	E03	A 8423	1951-25-3	681.78	Amiodarone hydrochloride		Adrenoceptor		Agonist	alpha/beta			McCarthy, T.C., et al., J Pharmacol Exp Ther. 2004 Jul 20
02	E04	A 9251	58-61-7	267.25	Adenosine		Adenosine		Agonist				Krupa A., et al., J Mol Biol. 2004 Jun 18;339(5):102-39
02	E05	A 9657	125-84-8	232.28	(±)-p-Aminoglutethimide		Biochemistry	Enzyme	Inhibitor	P450-dependendent hydroxylation	Slighty Soluble	0.2 mg/ml	Gilman, A.G. and Goodman, L.S., ed.,Goodman and Gilman"s The Pharmacological Basis of Therapeutics 9th ed., (1996),9, 1229, 1274-1275
02	E06	A-003	75922-48-4	284.32	1,3-Diethyl-8-phenylxanthine	DPX	Adenosine		Antagonist	A1			Proc. Natl. Acad. Sci. USA, 78, 3260 (1981)
02	E07	A-138		322.45	Aminobenztropine	ABT	Cholinergic		Ligand	Muscarinic			Haga, K., and Haga, T., Affinity chromatography of the muscarinic acetylcholine receptor J. Biol. Chem. 258, 13575-13579 (1983)
02	E08	A-164	60719-83-7	292.21	Alaproclate hydrochloride	D,L-Alanine, 2-(4-chlorophenyl)-1,1-dimethylethyl ester hydrochloride	Serotonin		Inhibitor	Reuptake	Yes		Lindberg, U.H., et al., Inhibitors of neuronal monoamine uptake. 2. Selective inhibition of 5-hydroxytryptamine uptake bya-amino acid esters of phenethyl alcohols. J. Med. Chem. 21, 448 (1978)
02	E09	A-206	548-42-5	238.34	Agroclavine	8,9-Didehydro-6,8-dimethyl-ergoline	Dopamine		Agonist				Bobkova, N.V., et al., Neuro Behav Physiol. 2003 May;33(4):301-6

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
02	E10	A-255		365.90	A-77636 hydrochloride		Dopamine		Agonist	D1	Yes	10 mg/ml	Kebabian, et al., A-77636: A potent and selective D1receptor agonist with antiparkinsonian activity in marmosets Eur. J. Pharmacol. 229, 203-209 (1992)
02	E11	B 1381	51116-01-9	446.09	8-Bromo-cGMP sodium	8-Bromoguanosine-3',5'-cyclophosphate sodium	Cyclic Nucleotides	Enzyme	Activator		Yes	100 mg/ml	Francis, S.H., et al., Relaxation of vascular and tracheal smooth muscle by cyclic nucleotide analogs that preferentially activate purified cGMP-dependent protein kinase. Mol. Pharmacol. 34, 506-517 (1988)
02	F02	A 7755	1852-53-5	292.47	5alpha-Androstane-3alpha,17beta-diol	Dihydroandrosterone; 3alpha,17beta-Dihydroxy-5alpha-androstane	Hormone		Metabolite	Androgen			Biswas, M.G., et al.,J. Biol. Chem. 272, 15959 (1997)
02	F03	A 8456	30827-99-7	239.70	4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride	AEBSF	Biochemistry	Enzyme	Inhibitor	Serine Protease	Yes	50 mg/ml (unstable)	Baker, B.R. and Cory, M.,J. Med. Chem. 14, 119 (1971)
02	F04	A 9256	56-84-8	133.10	L-Aspartic acid		Glutamate		Agonist		Yes	5.0 mg/ml	Low, S.J, Int J Clin Pharmacol Ther. 2004 Jan;42(1):1-14
02	F05	A 9699		116.12	(±)-HA-966	(±)-3-Amino-1-hydroxy-2-pyrrolidone	Glutamate		Antagonist	NMDA-glycine			Myhrer, T. and Andersen, J.M., Eur J Pharmacol. 2001;428:323-30.
02	F06	A-013	80206-91-3	336.33	8-(p-Sulfophenyl)theophylline		Adenosine		Antagonist	A1 > A2	Yes	12 mg/ml	Bruns, et al., Characterization of the A2adenosine receptor labeled by [3H]NECA in rat striatal membranes. Mol. Pharmacol. 29, 331-346 (1986)
02	F07	A-140	35516-99-5	260.13	Arecaidine propargyl ester hydrobromide	APE	Cholinergic		Agonist	M2	Yes		Moser, U., et al., Aliphatic and heterocyclic analogues of arecaidine propargyl ester. Structure-activity relationships of mono- and bivalent ligands at muscarinic M1M4, M2and M3receptor subtypes. Arzneim.-Forsch. 45, 449 (1995)
02	F08	P 9872		334.38	Psora-4	5-(4-Phenylbutoxy)psoralen	K+ Channel		Inhibitor	Kv1.3	Insoluble	16 mg/ml	Vennekamp, J., et al., Mol. Pharmacol. 65, 1364-1374 (2004)
02	F09	A-230		127.14	gamma-Acetylinic GABA	4-Amino-5-hexynoic acid	GABA	Enzyme	Inhibitor	GABA transaminase	Yes	5.0 mg/ml	Schousboe, et al., Stereoselective uptake of GABA-transaminase inhibitorsg-vinyl GABA andg-acetylenic GABA into neurons and astrocytes. Neurochem. Res. 11, 1497 (1986)
02	F10	A-263	83654-14-2	228.25	ATPA	(RS)-2-Amino-3-(3-hydroxy-5-tert-butylisoxazol-4-yl)propanoic acid	Glutamate		Agonist	Kainate	Yes	2.5 mg/ml	Lauridsen, et al., Ibotenic acid analogues. Synthesis, molecular flexibility andin vitroactivity of agonists and antagonists at central glutamic acid receptors. J. Med. Chem. 28, 668 (1985)
02	F11	B 1427	127243-85-0	519.29	H-89	N-[2-(p-Bromocinnamylamino)ethyl]-5-isoquinolinesulfonamide dihydrobromide	Phosphorylation	Enzyme	Inhibitor	PKA			Chijiwa, T., et al.,J. Biol. Chem. 265, 5267 (1990)
02	G02	A 7762	16338-48-0	115.13	L-allylglycine	L-2-Amino-4-pentenoic acid	Biochemistry	Enzyme	Inhibitor	Glutamic acid decarboxylase	Yes	100 mg/ml	Abshire, V.M., et al., Injection of L-allylglycine into the posterior hypothalamus in rats causes decreases in local GABA which correlate with increases in heart rate. Neuropharmacology 27, 1171-1177 (1988)
02	G03	A 8598	10212-25-6	261.67	Ancitabine hydrochloride	Cyclocytidine hydrochloride; Cyclo-C	DNA Metabolism		Inhibitor				Nakamura, K., Antiviral effect of antileukemic drugs N4-behenoyl-1-b-D-arabinofuranosylcytosine (BH-AC) and 2,2'-anhydro-1-b-D-arabinofuranosylcytosine (cyclo-C) against human cytomegalovirus. J. Med. Virol. 31, 141 (1990)
02	G04	A 9335	472-617-7	596.86	Astaxanthin	3,3'-Dihydroxy-beta,beta-carotene-4,4'-dione	Cell Stress		Inhibitor	Antioxidant			Schroeder, W.A.and Johnson, E.A.,J. Biol. Chem. 270, 18374 (1995)
02	G05	A 9755	53-41-8	290.45	Androsterone	5a-Androstan-3a-ol-17-one; cis-Androsterone	Hormone			Androgen			Chai, X., et al.,J. Biol. Chem. 272, 33125 (1997)
02	G06	A-022	89073-57-4	392.44	1,3-Dipropyl-8-p-sulfophenylxanthine		Adenosine		Antagonist	A1 > A2	Yes	0.43 mg/ml	Daly, et al., 13-Dialkyl-8-(p-sulfophenyl)xanthines: Potent water-soluble antagonists for A1- and A2-adenosine receptors. J. Med. Chem. 28, 487 (1985)
02	G07	A-142	56715-13-0	266.34	R(+)-Atenolol		Adrenoceptor		Antagonist	beta1	Insoluble		Adams-Pearson et al., A stereoselective central hypotensive action of atenolol. J. Pharmacol. Exp. Ther. 250, 759 (1989)
02	G08	S 0568	143797-62-0	304.78	SB 200646 hydrochloride	N-(1-Methyl-1H-indol-5-yl)-N'-3-pyridinyl-urea hydrochloride	Serotonin		Antagonist	5-HT2C/2B			Meller, R. et al.,J. Neurosci. Res. 67, 399-405 (2002)
02	G09	A-236		399.41	AB-MECA	N6-(4-Aminobenzyl)-9-[5-(methylcarbonyl)-beta-D-ribofuranosyl]adenine	Adenosine		Agonist	A3	Insoluble		Jacobson, et al., A role for central A3-adenosine receptors. Mediation of behavioral depressant effects. FEBS Lett. 336, 57-60 (1993)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
02	G10	A-265	160928-38-1	785.06	ARL 67156 trisodium salt	FPL 67156	P2 Receptor	Enzyme	Inhibitor	ecto-ATPase	Yes	10 mg/ml	Crack, B., et al., Pharmacological and biochemical analysis of FPL 67156 a novel selective inhibitor of ecto-ATPase Br. J. Pharmacol. 114, 475-481 (1995)
02	G11	B 1552	88070-98-8	317.18	Bromoenol lactone	BEL; E-6-(Bromoethylene)tetrahydro-3-(1-naphthyl)-2H-pyran-2-one	Lipid	Enzyme	Inhibitor	PLA2			Daniels, S.B., Haloenol lactones: potent enzyme-activated irreversible inhibitors fora-chymotrypsin. J. Biol. Chem. 258, 15046 (1983)
02	H02	H-123	84468-17-7	324.23	H-9 dihydrochloride	N-(2-Aminoethyl)-5-isoquinolinesulfonamide dihydrochloride	Phosphorylation	Enzyme	Inhibitor	cAMP- and cGMP-dependent PKs	Yes		Thueson, D.O. et al., Biochem Biophys Res Commun. 1987;144:732-40.
02	H03	A 8676	13707-88-5	285.82	Alprenolol hydrochloride		Adrenoceptor		Antagonist	beta	Yes	50 mg/ml	Surman, A.J., and Doggrell, S.A., Alprenolol and bromoacetylalprenololmenthane are competitive slowly reversible antagonists at theb1-adrenoceptors of rat left atria J. Cardiovasc. Pharmacol. 21, 35-39 (1993)
02	H04	A 9345	19384-53-9	272.69	N-(4-Amino-2-chlorophenyl)phthalimide		Anticonvulsant				Insoluble		Vamecq, J., et al., Synthesis and anticonvulsant and neurotoxic properties of substituted N-phenyl derivatives of the phthalimide pharmacophore. J. Med. Chem. 43, 1311 (2000)
02	H05	A 9809	54301-15-4	429.93	Amsacrine hydrochloride	m-AMSA hydrochloride	DNA Repair	Enzyme	Inhibitor	TopoII			Nelson, E.M., et al., Mechanism of antitumor drug action: poisoning of mammalian DNA topoisomerase II on DNA by 4'-(9-acridinylamino)-methanesulfon-m-anisidide. Proc. Natl. Acad. Sci. USA 81, 1361-1365 (1984)
02	H06	A-023	43170-89-4	641.20	2-Methylthioadenosine triphosphate tetrasodium	2-Methylthio ATP tetrasodium	P2 Receptor		Agonist	P2Y	Yes	13 mg/ml	Cusack, et al., Specific but noncompetitive inhibition by 2-alkylthio analogs of adenosine 5'-monophosphate and adenosine 5'-triphosphate of human platelet aggregation induced by adenosine 5'-diphosphate. Br. J. Pharmacol. 75, 397-400 (1982)
02	H07	A-143	93379-54-5	266.34	S(-)-Atenolol		Adrenoceptor		Antagonist	beta1	Insoluble		Pearson, A.A., et al., A stereoselective central hypotensive action of atenolol J. Pharmacol. Exp. Ther. 250, 759-763 (1989)
02	H08	A-167	81338-23-0	225.18	D(-)-2-Amino-7-phosphonoheptanoic acid	D-AP-7	Glutamate		Antagonist	NMDA	Yes		Stone, T.W., The relative potencies of (-)-2-amino-5-phosphonovalerate and (-)-2-amino-7-phosphonoheptanoate as antagonists of N-methylaspartate and quinolinic acids and repetitive spikes in rat hippocampal slices Brain Res. 381, 195-198 (1986)
02	H09	A-242		214.18	Alloxazine	Isoalloxazine	Adenosine		Antagonist	A2b	Insoluble		Brackett, L.E., Daly, J.W., Functional characterization of the A2badenosine receptor in NIH 3T3 fibroblasts Biochem. Pharmacol. 47, 801-814 (1994)
02	H10	B 0385	4419-39-0	408.93	Beclomethasone	9alpha-Chloro-16beta-methyl-1,4-pregnadiene-11beta,17alpha,21-triol-3,20-dione	Hormone			Glucocorticoid			Schmidt, J., et al., The effect of different corticosteroids and cyclosporin A on interleukin-4 and interleukin-5 release from murine TH2-type T cells Eur. J. Pharmacol. 260, 247-250 (1994)
02	H11	B 2009	55-21-0	121.14	Benzamide	Benzoylamide	Apoptosis	Enzyme	Inhibitor	PARS			Shiokawa, D., et al., Inhibitors of poly(ADP-ribose) polymerase suppress nuclear fragmentation and apoptotic-body formation during apoptosis in HL-60 cells. FEBS Lett. 413, 99-103 (1997)
03	A02	B 2050	74209-34-0	242.03	3-Bromo-7-nitroindazole		Nitric Oxide	Enzyme	Inhibitor	NOS			Bland-Ward, P.A., and Moore, P.K., 7-Nitro indazole derivatives are potent inhibitors of brain, endothelium and inducible isoforms of nitric oxide synthase Life Sci. 57, PL131-PL135 (1995)
03	A03	B 3023	28395-03-1	364.42	Bumetanide	3-(Aminosulfonyl)-5-(butylamino)-4-phenoxybenzoic acid	Ion Pump		Inhibitor	Na+-K+-2Cl-cotransporter			Isenring, P. and Forbush, B.,J. Biol. Chem. 272, 24556 (1997)
03	A04	B 5399	1134-47-0	213.67	(±)-Baclofen	Lioresal	GABA		Agonist	GABA-B			Park SK, et al/ Neurosci Res. 2004 Aug;49(4):405-16
03	A05	B 7651	20350-15-6	280.37	Brefeldin A from Penicillium brefeldianum	BFA; Ascotoxin, Cyanein	Cytoskeleton and ECM		Inhibitor	Golgi apparatus			Linardic, C.M., et al., Activation of the sphingomyelin cycle by brefeldin A: effects of brefeldin A on differentiation and implications for a role for ceramide in regulation of protein trafficking Cell. Growth Differ. 7, 765-774 (1996)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
03	A06	B 9308	314776-92-6	417.56	BP 897	N-[4-(4-(2-methoxyphenyl)piperazinyl)butyl]-2-naphthamide	Dopamine		Agonist	D3			Pilla, M. et al., Selective inhibition of cocaine-seeking behaviour by a partial dopamine D3 receptor agonist. NMR Shift Reagents 400, 371 (1999)
03	A07	B-102	31677-93-7	276.21	Bupropion hydrochloride	(±)-1-(3-Chlorophenyl)-2-[(1,1-dimethylethyl)amino]-1-propanone hydrochloride	Dopamine		Blocker	Reuptake	Yes	312 mg/ml	Cooper, B.R., et al., Behavioral and biochemical effects of the antidepressant bupropion (Wellbutrin): evidence for selective blockade of dopamine uptake in vivo J. Pharmacol. Exp. Ther. 215, 127-134 (1980)
03	A08	B-154		233.70	BU224 hydrochloride	2-(4,5-Dihydroimidazol-2-yl)-quinoline hydrochloride	Imidazoline		Antagonist	I2	Yes	>16 mg/ml	Diaz, A., et al., BU-224 produces spinal antinociception as an agonist at imidazoline I2 receptors. Eur. J. Pharmacol. 333, 9-15 (1997)
03	A09	C 0330	52214-84-3	289.16	Ciprofibrate	2-[p-(2,2-Dichlorocyclopropyl)phenoxy]-2-methylpropanoic acid	Transcription		Ligand	PPAR-alpha			Goll et al., Comparison of the effects of various peroxisome proliferators on peroxisomal enzyme activities, DNA synthesis, and apoptosis in rat and human hepatocyte cultures. Toxicol. Appl. Pharmacol. 160, 21 (1999)
03	A10	C 0862		292.47	CGP-7930	3-(3',5'-Di-tert-butyl-4'-hydroxy)phenyl-2,2-dimethylpropanol	GABA		Modulator	GABA-B			Urwyler, S. et al.,Mol. Pharmacol. 60, 963-971 (2001)
03	A11	C 1671	6469-93-8	352.33	Chlorprothixene hydrochloride	2-Chloro-9-(3-dimethylaminopropylidene)thioxanthene hydrochloride	Dopamine		Antagonist	D2			Froimowitz, M., and Cody, V., Biologically active conformers of phenothiazines and thioxanthenes. Further evidence for a ligand model of dopamine D2 receptor antagonists. J. Med. Chem. 36, 2219-2227 (1993)
03	B02	B 2134	22260-51-1	750.72	(+)-Bromocriptine methanesulfonate		Dopamine		Agonist	D2	Yes	0.8 mg/ml	Velasco, M. and Luchsinger, A., Dopamine: pharmacologic and therapeutic aspects. Am. J. Ther. 5, 37-43 (1996)
03	B03	B 3501	590-46-5	153.61	Betaine hydrochloride		Biochemistry	Enzyme	Metabolite				Zhu X.M., et al., J Neurosci Res. 2004 Aug 1;77(3):402-9
03	B04	S 7067	152121-30-7	331.35	SB 202190	4-[4-(4-Fluorphenyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]phenol	Phosphorylation	Enzyme	Inhibitor	p38 MAPK			Fox, T., et al, A single amino acid substitution makes ERK2 susceptible to pyridinyl imidazole inhibitors of p38 MAP kinase. Protein Sci. 7, 2249-2255 (1998)
03	B05	B 7777	51333-22-3	430.55	Budesonide	16,17-Butylidenebis(oxy)-11,21-dihydroxypregna-1,4-diene-3,20-dione	Hormone			Cortisol			Wattenberg L.W., et al.,Cancer Res. 57, 5489-92 (1997)
03	B06	B 9647	69304-47-8	333.14	(E)-5-(2-Bromovinyl)-2'-deoxyuridine	BVdU	Immune System		Inhibitor	HSV1			DeClercq, E.D.,J. Med. Chem. 29, 213 (1986)
03	B07	B-103	66016-70-4	462.30	(-)-Bicuculline methbromide, 1(S), 9(R)		GABA		Antagonist	GABA-A	Yes		Avoli, M., et al., Functional and pharmacological properties of GABA-mediated inhibition in the human neocortex. Can. J. Physiol. Pharmacol. 75, 526-534 (1997)
03	B08	B-161	36067-72-8	254.16	B-HT 933 dihydrochloride	Azepexole dihydrochloride	Adrenoceptor		Agonist	alpha2	Yes	>20 mg/ml	Nielson, et al., Calcium utilization coupled to stimulation of post junctional alpha-1 and alpha-2 adrenoceptors in isolated human resistance arteries J. Pharmacol. Exp. Ther. 260, 637-643 (1992)
03	B09	C 0331	6376274-3	266.73	6-Chloromelatonin	N-Acetyl-6-chloro-5-methoxytryptamine	Melatonin		Agonist				Persengiev, S.P., 2-(125I)-Iodomelatonin binding sites in rat adrenals: pharmacological characteristics and subcellular distribution. Life Sci. 51, 647 (1992)
03	B10	C 0987		290.45	CGP-13501	3-(3',5'-Di-tert-butyl-4'-hydroxy)phenyl-2,2-dimethylpropanal	GABA		Modulator	GABA-B			Urwyler, S. et al.,Mol. Pharmacol. 60, 963-971 (2001)
03	B11	C 1754	1927--06-6	184.08	Choline bromide	Choline-methyl-13C bromide	Cholinergic	Enzyme	Substrate	Choline acetyltransferase			Jimenez, B., et al., Occurrence, co-occurence and topographic distribution of choline acetyl transferase, met-enkephalin and neurotensin in the stellate ganglion of the cat. Synapse 43, 163 (2002)
03	C02	B 2292	19916-73-5	241.25	O6-benzylguanine		DNA Repair	Enzyme	Inhibitor	O6-alkylguanine-DNA alkyltransferase			G. Mitra, et. al.,Proc. Natl. Acad. Sci. USA 86, 8650-8654 (1989)
03	C03	B 3650	7758-31-8	137.61	Betaine aldehyde chloride	(Formylmethyl)trimethylammonium chloride	Cholinergic	Enzyme	Metabolite	Choline dehydrogenase			Incharoensakdi A, et al. J Biochem Mol Biol Biophys. 2002 Aug;6(4):243-8
03	C04	B 5681	196309-76-9	249.33	Bay 11-7085	(E)-3-(4-t-Butylphenylsulfonyl)-2-propenenitrile	Cell Cycle		Inhibitor	IkB-alpha	Insoluble		Pierce, J.W., et al.,J. Biol. Chem. 272, 21096 (1997)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
03	C05	B 7880	76939-46-3	430.09	8-Bromo-cAMP sodium	8-Bromoadenosine-3',5'-cyclophosphate sodium	Cyclic Nucleotides	Enzyme	Activator		Yes	100 mg/ml	Meyer, R.B. Jr., and Miller, J.P., Analogs of cyclic AMP and cyclic GMP: general methods of synthesis and the relationship of structure to enzymic activity. Life Sci. 14, 1019-1040 (1974)
03	C06	B 9929		443.42	BRL 15572	4-(3-Chlorophenyl)-alpha-(diphenylmethyl)-1-piperazineethanol hydrochloride	Serotonin		Antagonist	5-HT1D	Yes	5.0 mg/ml with heating	Price, G.W., et al.,Naunyn-Schmiedeberg's Arch. Pharmacol. 356, 312-320 (1997)
03	C07	B-112	93468-89-4	356.30	(±)-Bay K 8644	1,4-Dihydro-2,6-dimethyl-5-nitro-4-[2-(trifluoromethyl)-phenyl]-3-pyridine carboxylic acid methyl ester	Ca2+ Channel		Agonist	L-type	Insoluble		Guppy, L.J., Littleton, J.M.,J. Cardiovasc. Pharmacol. 34, 480 (1999)
03	C08	B-168	36504-94-6	397.99	(±)-Butaclamol hydrochloride	AY 23028	Dopamine		Antagonist	D2>D1			Lippman, et al., Effect of butaclamol and its enantiomers upon striatal homovanillic acid and adenyl cyclase of olfactory tubercle in rats. Life Sci. 16, 213-224 (1975)
03	C09	C 0400	154-93-8	214.05	Carmustine	BCNU; 1,3-Bis(2-chloroethyl)-1-nitrosourea	DNA		Intercalator				Stahl, et al.,Chem. Res. Toxicol. 5, 106 (1992)
03	C10	C 1112	83002-04-4	376.58	CP55940	5-(1,1-dimethylheptyl)-2-[5-hydroxy-2-(3-hydroxypropyl)cyclohexyl]phenol	Cannabinoid		Agonist		Slighty Soluble		Thomas, B.F. et al., J. Pharm. Exp. Ther., 285, 285-292 (1998).,J. Pharmacol. Exp. Ther. 285, 285-292 (1998)
03	C11	C 2137		707.25	Ceramide		Phosphorylation	Enzyme	Inhibitor	Diacylglycerol kinase			Morrison, W.R., Polar lipids in bovine milk. I. Long-chain bases in sphingomyelin Biochim. Biophys. Acta 176, 537-546 (1969)
03	D02	B 2377	79-15-2	137.96	N-Bromoacetamide	NBA	Na+ Channel		Modulator				Huang R.C., Mol Pharmacol. 1995 Sep;48(3):451-8
03	D03	B 4555		320.37	Benazoline oxalate	4,5-Dihydro-2-(2-naphthalenyl)-1H-imidazole oxalate	Imidazoline		Agonist	I2	Yes	< 8.0 mg/ml	Pigini, M. et al.,Bioorg. Med. Chem. 5(5), 833-841 (1997)
03	D04	B 5683		343.90	Betaxolol hydrochloride		Adrenoceptor		Antagonist	beta1	Yes	36 mg/ml	Giudicelli, J.F. et al.,Br. J. Pharmacol. 10, 41-49 (1980)
03	D05	B 8262	132-17-2	403.54	Benztropine mesylate		Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Bolden, C., et al., Antagonism by antimuscarinic and neuroleptic compounds at the five cloned human muscarinic cholinergic receptors expressed in Chinese hamster ovary cells J. Pharmacol. Exp. Ther. 260, 576-580 (1992)
03	D06	B-003	98086-36-3	408.59	Chloroethylclonidine dihydrochloride	CEC dihydrochloride	Adrenoceptor		Antagonist	alpha1B	Yes	12 mg/ml	Leclerc, G., et al., Studies on some para-substituted clonidine derivatives that exhibit ana-adrenoceptor stimulant activity Br. J. Pharmacol. 71, 5-9 (1980)
03	D07	B-121	17139-54-7	305.01	Bromoacetylcholine bromide	2-(2-Bromoacetyloxy)-N,N,N-trimethylethanaminium bromide	Cholinergic		Ligand		Yes		Chiou, et al., Acetylcholinesterase hydrolysis of halogen substituted acetylcholines Biochem. Pharmacol. 17, 805 (1968)
03	D08	B-169	127299-93-8	385.83	BRL 37344 sodium	(±)-(R*,R*)-[4-[2-[[2-(3-Chlorophenyl)-2-hydroxyethyl]amino]propyl]phenoxy]-acetic acid sodium	Adrenoceptor		Agonist	beta3	Yes	10 mg/ml	Oriowo, M.A., et al., The selectivityin vitroof the stereoisomers of theb3adrenoceptor agonist BRL 37344 J. Pharmacol. Exp. Ther. 277, 22 (1996)
03	D09	C 0424	85532-75-8	352.87	PK 11195	1-(2-Chlorophenyl)-N-methyl-N-(1-methylpropyl)	GABA		Antagonist	Benzodiazepine			Okubo, M. and Kawaguchi, M., Inhibitory regulation of amylase release in rat parotid acinar cells by benzodiazepine receptors Eur. J. Pharmacol. 359, 243-249 (1998)
03	D10	C 1159	339-72-0	102.09	L-Cycloserine	(S)-4-Amino-3-isoxazolidone	Sphingolipid	Enzyme	Inhibitor	Ketosphinganine synthetase			Biswas S, et al. Neurosci Lett. 2003 Aug 14;347(1):33-6
03	D11	C 2235	21919-05-1	252.19	CB 1954	5-(1-Aziridinyl)-2,4-dinitrobenzamide	DNA		Intercalator				Knox, R.J., et al., Bioactivation of 5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB 1954) by human NAD(P)H quinone oxidoreductase 2: a novel co-substrate-mediated antitumor prodrug therapy Cancer Res. 60, 4179 (2000)
03	E02	B 2390	980-71-2	435.32	(±)-Brompheniramine maleate		Histamine		Antagonist	H1			Sorbo, J., et al., Mast-cell histamine is angiogenic through receptors for histamine 1 and histamine 2. Int. J. Exp. Pathol. 75, 43 (1994)
03	E03	B 4558	134470-38-5	316.34	BWB70C	N-[3-[3-4(-Fluorophenoxy)phenyl]-1-methyl-2-propenyl]-N-hydroxyurea	Leukotriene	Enzyme	Inhibitor	5-lipoxygenase			Yeadon, M., et al., Effect of BW B70C, a novel inhibitor of arachidonic acid 5-lipoxygenase, on allergen-induced bronchoconstriction and late-phase long eosinophil accumulation in sensitized guinea pigs. AMA Arch. Pathol. 38, 8 (1993)
03	E04	B 6506	1670-40-0	156.62	Benzamidine hydrochloride	Amidinobenzene hydrochloride	Biochemistry	Enzyme	Inhibitor	Peptidase			Jeffcoate, S.L. and White, N.,,J. Clin. Endocrinol. Metab. 38, 155 (1974)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
03	E05	B 8279	29925-17-5	278.35	Ro 20-1724	4-[(3-Butoxy-4-methoxyphenyl)methyl]-2-imidazolidione	Cyclic Nucleotides	Enzyme	Inhibitor	cAMP phosphodiesterase	Insoluble		Begstrand, H., et al.,Mol. Pharmacol. 13, 38 (1977)
03	E06	B-012	70952-50-0	223.63	6-Fluoronorepinephrine hydrochloride	6-FNE hydrochloride	Adrenoceptor		Agonist	alpha	Yes		Cantacuzene, et al., Effect of fluorine substitution on the agonist specificity of norepinephrine. Science 204, 1217 (1979)
03	E07	B-134	21102-95-4	458.43	BMY 7378 dihydrochloride	8-[2-[4-(2-Methoxyphenyl)-1-piperazinyl]ethyl-azaspiro[4.5]decane-7,9-dione dihydrochloride	Serotonin		Agonist	5-HT1A	Yes		Yocca, F.D., et al., BMY 7378 a buspirone analog with high affinity selectivity and low intrinsic activity at the 5-HT1Areceptor in rat and guinea pig hippocampal membranes Eur. J. Pharmacol. 137, 293 (1987)
03	E08	B-173		346.39	BRL 54443 maleate	3-(1-Methylpiperidin-4-yl)-1H-indol-5-ol maleate	Serotonin		Agonist	5-HT1E/1F	Yes	50 mg/ml	Lightowle,r, et al., Effect of BRL 54443 (3-(1-methylpiperidin-4-yl)-1H-indol-5-ol) a 5-HT1E/1Freceptor agonist on general behaviour and maximal electroshock seizure threshold in the rat Br. J. Pharmacol. 123, 237P (1998)
03	E09	C 0625	331-39-5	180.16	Caffeic Acid	3,4-Dihydroxycinnamic acid	Cell Stress		Inhibitor	Antioxidant			Koshihara, Y., et al., Selective inhibition of 5-lipoxygenase by natural compounds isolated from Chinese plantsArtemisia rubripes Nakai. FEBS Lett. 158, 41-44 (1983)
03	E10	C 1172	105637-50-1	361.29	ML-9		Phosphorylation	Enzyme	Inhibitor	MLCK			Saitoh, M., et al., Selective inhibition of catalytic activity of smooth muscle myosin light chain kinase. J. Biol. Chem. 262, 7796-7801 (1987)
03	E11	C 2321	56879-53-1	255.15	Carcinine dihydrochloride	beta-Alanylhistamine dihydrochloride	Cell Stress		Inhibitor	Antioxidant			Flanbaum, L., et al.,Life Sci. 47, 1587 (1990)
03	F02	B 2417	2898-76-2	356.22	Benzamil hydrochloride	N-(Benzylamidino)-3,5-diamino-6-chloropyrazinecarboxamide hydrochloride	Ion Pump		Blocker	Na+/H+, Na+/Ca2+ Pump			Lane, J.W., et al.,Br. J. Pharmacol. 106, 283 (1992)
03	F03	B 5002	59-14-3	307.10	5-Bromo-2'-deoxyuridine	Br-dU; 5-Bromo-1-(2-deoxy-beta-D-ribofuranosyl)uracil	DNA Metabolism		Inhibitor				Boccadoro, M., et al.,Tumor 72, 135 (1986)
03	F04	B 7005	378-44-9	392.47	Betamethasone	9alpha-Fluoro-16beta-methylprednisolone	Hormone			Glucocorticoid			Edwards L.A., et al., J Pharmacol Exp Ther. 1995 Aug;27(2):1025-32
03	F05	B 8385	65391-42-6	344.84	Bestatin hydrochloride	N-[(2S,3R)-3-Amino-2-hydroxy-4-phenylbutyryl]-L-leucine hydrochloride	Biochemistry	Enzyme	Inhibitor	Aminopeptidase			Umezawa, H., et al.,J. Antibiot. 29, 97,100-99,101 (1976)
03	F06	B-015		481.48	Bromoacetyl alprenolol menthane		Adrenoceptor		Antagonist	beta	Insoluble		Pitha et al., Regeneration ofb-adrenergic receptors in senescent rats: A study using an irreversible binding antagonist. Proc. Natl. Acad. Sci. USA 79, 4424 (1982)
03	F07	B-135		455.19	R(+)-6-Bromo-APB hydrobromide	R(+)-6-Bromo-7,8-dihydroxy-3-allyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1/D5			Neumeyer, et al., Stereoisomeric probes for the D1dopamine receptor: Synthesis and characterization of R(+)- and S(–) enantiomers of 3-allyl-78-dihydroxy-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine and its 6-bromo analogue. J. Med. Chem. 35, 1466 (1992)
03	F08	B-175		322.86	BW 723C86		Serotonin		Agonist	5-HT2B	Yes	5.6 mg/ml	Kennett, G.A., et al., Effects of the 5HT2Breceptor agonist BW 723C86 on three rat models of anxiety Br. J. Pharmacol. 117, 1443-1448 (1996)
03	F09	C 0737		369.47	Cilostazol	OPC 13013; OPC 21; Pletaal	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III			Cone, J., et al, Comparison of the effects of cilostazol and milrinone on intracellular cAMP levels and cellular function in platelets and cardiac cells. J. Cardiovasc. Pharmacol. 34, 497-504 (1999)
03	F10	C 1251	225937-10-0	290.28	(+)-Catechin Hydrate	(+)-Cyanidol-3	Cell Stress		Inhibitor	Antioxidant			Ueda, J., A comparison of scavenging abilities of antioxidants against hydroxyl radicals Arch. Biochem. Biophys. 333, 377-384 (1996)
03	F11	C 2505	50-22-6	346.47	Corticosterone	Kendall's Compound B; 4-Pregnene-11beta,21-diol-3,20-dione; Reichstein's Substance H	Hormone			Glucocorticoid			Parrillo, J. E., and Fauci, A.S., Mechanisms of glucocorticoid action on immune processes Ann. Rev. Pharmacol. Toxicol. 19, 179-201 (1979)
03	G02	B 2515	83730-53-4	222.31	L-Buthionine-sulfoximine		Multi-Drug Resistance	Enzyme	Inhibitor				Chen, X., et al., Potential for selective modulation of glutathione in cancer chemotherapy. Chem. Biol. Interact. 111-112, 263- 275 (1998)
03	G03	B 5016	74764-40-2	403.01	Bepridil hydrochloride		Ca2+ Channel		Blocker				Li, Y., et al.,J. Pharmacol. Exp. Ther. 291, 562 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
03	G04	B 7148	33386-08-2	421.97	Buspirone hydrochloride		Serotonin		Agonist	5-HT1A			Tunnicliff, G., Molecular basis of buspirone"s anxiolytic action. Pharmacol. Toxicol. 69, 149 (1991)
03	G05	B 8406	61-75-6	414.36	Bretylium tosylate	2-Bromo-N-ethyl-N,N-dimethylbenzenemethanaminium 4-methyl-benzenesulfontate	Adrenoceptor		Blocker		Yes	50 mg/ml	Anderson, J.L., Bretylium tosylate: profile of the only available class III antiarrhythmic agent. Clin. Ther. 7, 205-224 (1985)
03	G06	B-016	92642-97-2	397.92	Benoxathian hydrochloride	2-[[[2-(2,6-Dimethoxyphenoxy)ethyl]-amino]-methyl]-1,4-benzoxanthian hydrochloride	Adrenoceptor		Antagonist	alpha1	Yes		Melchiorre, C., et al., 2-[[[2-(2,6-dimethoxyphenoxy)ethyl]amino]methyl]-1,4-benzoxathian: A new antagonist with high potency and selectivity towarda1-adrenoreceptors. J. Med. Chem. 27, 1535 (1984)
03	G07	B-138	112726-66-6	335.94	BTCP hydrochloride		Dopamine		Blocker	Reuptake	Yes	> 180 mg/ml	Vignon, J., et al., [3H]N-[1-(2-benzo(b)-thiophenyl)cyclohexyl]piperidine ([3H]BTCP): A new phencyclidine analog selective for the dopamine uptake complex Eur. J. Pharmacol. 148, 427-436 (1988)
03	G08	C 0253	305-03-3	304.22	Chlorambucil	4-[Bis(2-chloroethyl)amino]benzenebutyric acid	DNA		Intercalator				Morabito, F., et al., Bcl-2 protein expression and p53 gene mutation in chronic lymphocytic leukemia: correlation with in vitro sensitivity to chlorambucil and purine analogs Haematologica 82, 16-20 (1997)
03	G09	C 0750	58-08-2	194.19	Caffeine	1,3,7-Trimethylxanthine	Adenosine	Enzyme	Inhibitor	Phosphodiesterase	Yes	15 mg/ml	Poe, B.S., and O'Neill, K.L., Caffeine modulates heat shock induced apoptosis in the human promyelocytic leukemia cell line HL-60 Cancer Lett. 121, 1-6 (1997)
03	G10	C 1290	94-20-2	276.74	Chlorpropamide		Hormone		Releaser	Insulin			Nunes FB, et al. Pharmacol Res. 2004 May;49(5):449-53
03	G11	C 2538	41575-94-4	371.26	Carboplatin	cis-Diammine(1,1-cyclobutanedicarboxylato) platinum	DNA		Intercalator				Oguri, T., et al., The Kruppel-type zinc finger family gene HKR1 is induced in lung cancer by exposure to platinum drugs Gene 222, 61-67 (1998)
03	H02	B 2640	5072-26-4	222.31	DL-Buthionine-[S,R]-sulfoximine		Multi-Drug Resistance	Enzyme	Inhibitor				Fruehauf JP, et al. ,Cell Biol. Int. 111-112, 277-305 (1998)
03	H03	B 5275	2931--03--9	435.32	(+)-Brompheniramine maleate	Dexbrompheniramine maleate	Histamine		Antagonist	H1			Sorbo, J., et al., Mast-cell histamine is angiogenic through receptors for histamine 1 and histamine 2. Int. J. Exp. Pathol. 75, 43 (1994)
03	H04	B 7283	14919-77-8	293.71	Benserazide hydrochloride	DL-Serine, 2-[(2,3,4-trihydroxyphenyl)methyl]hydrazide hydrochloride	Biochemistry	Enzyme	Inhibitor	Decarboxylase	Yes	10 mg/ml	Dingemanse, J., et al., Br J Clin Pharmacol. 1997 Jul;44(1):41-8
03	H05	B 9130	485-49-4	367.36	(+)-Bicuculline		GABA		Antagonist	GABA-A			Johnson, S.W., Seutin, V., Bicuculline methiodide potentiates NMDA-dependent burst firing in rat dopamine neurons by blocking apamin-sensitive Ca2+-activated K+currents. Neurosci. Lett. 231, 13 (1997)
03	H06	B-019	63-92-3	340.30	Phenoxybenzamine hydrochloride		Adrenoceptor		Blocker	alpha	Slighty Soluble		Kalsner, S., Is there feedback regulation of neurotransmitter release by autoreceptors? Biochem. Pharmacol. 34, 4085-4097 (1985)
03	H07	B-152		398.42	N6-Benzyl-5'-N-ethylcarboxamidoadenosine	N6-Benzyl-NECA	Adenosine		Agonist	A3			Fozard, et al., Adenosine A3receptors mediate hypotension in the angiotensin II-supported circulation of the pithed rat Br. J. Pharmacol. 109, 3-5 (1993)
03	H08	C 0256	33818-15-4	497.29	Citicoline sodium	CDP-coline; Citidine (5')-diphosphocholine sodium	Lipid	Enzyme	Inhibitor	PLA2	Yes	100 mg/ml	Schabitz, et al., The effects of prolonged treatment with citicoline in temporary experimental focal ischemia J. Neurol. Sci. 38, 21-25 (1996)
03	H09	C 0768	6055-19-2	261.09	Cyclophosphamide monohydrate	2-[Bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide	DNA		Intercalator				Inagawa, H., et al., Mechanisms by which chemotherapeutic agents augment the antitumor effects of tumor necrosis factor: involvement of the pattern shift of cytokines from Th2 to Th1 in tumor lesions. Anticancer Res. 18, 3957-3964 (1998)
03	H10	C 1610		343.81	1-(4-Chlorobenzyl)-5-methoxy-2-methylindole-3-acetic acid		Multi-Drug Resistance		Inhibitor	MRP1	Insoluble		Maguire, A.R., Synthesis of indomethacin analogues for evaluation as modulators of MRP activity. Bioorg. Med. Chem. 9, 745 (2001)
03	H11	C 2755	53-06-5	360.45	Cortisone	Kendall's Compound E; 4-Pregnene-17alpha,21-diol-3,11,20-trione; Reichstein's Substance Fa	Hormone			Corticosteroid			Stewart, P.M., et al., Horm Res. 2001;56 suppl 1:1-6

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
04	A02	C 2932	3895-92-9	383.83	Chelerythrine chloride	1,2-Dimethoxy-N-methyl(1,3)benzodioxolo(5,6-c)phenanthridinium chloride	Phosphorylation	Enzyme	Inhibitor	PKC	Yes	5.0 mg/ml	Jarvis, W.D., et al., Induction of apoptotic DNA fragmentation and cell death in HL-60 human promyelocytic leukemia cells by pharmacological inhibitors of protein kinase C. Cancer Res. 54, 1707-1714 (1994)
04	A03	C 3662	59865-13-3	1202.64	Cyclosporin A	Antibiotic S 7481F1	Phosphorylation	Enzyme	Inhibitor	Calcineurin phosphatase	Insoluble		Donjerkovic, et al., Regulation of p27Kip1 accumulation in murine B-lymphoma cells: role of c-Myc and calcium. Cell. Growth Differ. 10, 695-704 (1999)
04	A04	C 4382	51-83-2	182.65	Carbachol	Carbamylcholine chloride	Cholinergic		Agonist		Yes	1.0 mg/ml	Yan, G.M., et al., Activation of muscarinic cholinergic receptors blocks apoptosis of cultured cerebellar granule neurons. Mol. Pharmacol. 47, 248-257 (1995)
04	A05	C 4895	15686-71-2	347.40	Cephalexin hydrate		Antibiotic			Cell wall synthesis			Kennedy AR, et al. Acta Crystallogr C. 2003 Nov;59(Pt11):o650-2
04	A06	C 5554	65369-76-8	269.60	1-(3-Chlorophenyl)piperazine dihydrochloride	m-CPP dihydrochloride	Serotonin		Agonist	5-HT1			Rotzinger, et al., Trazadone is metabolized to m-chlorophenylpiperazine by CYP3A4 from human source. Drug Metab. Dispos. 26, 572 (1998)
04	A07	C 6022	969-33-5	323.87	Cyproheptadine hydrochloride		Serotonin		Antagonist	5-HT2	Yes		Kimura, S., et al., Suppressive effects of antihistaminic and/or anti-PAF agents on passive anaphylactic shock in mice sensitized with allogeneic monoclonal IgE and IgG1 antibodies and hyperimmune serum Immunol. Invest. 27, 379-393 (1998)
04	A08	C 6862		438.79	CB34	N,N-Dipropyl-2-(4-chlorophenyl)-6,8-dichloro-imidazo[1,2-a]pyridine-3-acetamide	Benzodiazepine		Ligand		Insoluble		Pisu, M.G. et al.,Eur. J. Pharmacol. 432, 129-134 (2001)
04	A09	C 7632	56-25-7	196.20	Cantharidin	Cantharidine	Phosphorylation	Enzyme	Inhibitor	PP2A			Baskin, T.I., and Wilson J.E., Inhibitors of protein kinases and phosphatases alter root morphology and disorganize cortical microtubules. Plant Physiol. 113, 493-502 (1997)
04	A10	C 8138	69-09-0	355.33	Chlorpromazine hydrochloride		Dopamine		Antagonist				Collier, H.B.,Clin. Biochem. 7, 331 (1974
04	A11	C 8773	3685-84-5	294.18	Centrophenoxine hydrochloride	Meclofenoxate hydrochloride	Nootropic						al-Zuhair, H., et al., The effect of meclofenoxate with ginkgo biloba extract or zinc on lipid peroxide, some free radical scavengers and the cardiovascular system of aged rats. Pharmacol. Res. 38, 65-72 (1998)
04	B02	C 3010	53-19-0	320.05	1-(2-Chlorophenyl)-1-(4-chlorophenyl)-2,2-dichloroethane	Mitotane	Hormone		Inhibitor	Corticosteroid			Andersen, A., et al.,Ther. Drug Monit. 21, 355 (1999)
04	B03	C 3909	68-41-7	102.09	D-Cycloserine	R(+)-4-Amino-3-isoxazolidinone	Glutamate		Agonist	NMDA-Glycine			Watson, et al., D-Cycloserine acts as a partial agonist at the glycine modulatory site of the NMDA receptor expressed inXenopusoocytes Brain Res. 510, 158-160 (1990)
04	B04	C 4397	95-25-0	169.57	Chlorzoxazone	5-Chloro-2(3H)-benzoxazolone	Nitric Oxide	Enzyme	Inhibitor	iNOS			Mizuno, D., et al., Chlorzoxazone: a probe drug whose metabolism can be used to monitor toluene exposure in rats. Arch. Toxicol. 74, 139-144 (2000)
04	B05	C 4911	58-94-6	295.72	Chlorothiazide		Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase			Beyer, K.H., Hypertension. 1993 Sep;22(3):388-91
04	B06	S 0693	152239-46-8	286.36	SB 204741	N-(1-Methyl-1H-indo-5-yl)-N'-(3-methyl-5-isothiazolyl)urea	Serotonin		Antagonist	5-HT2B			Knowles, I.D. and Ramage, A.G.,Br. J. Pharmacol. 129, 177-183 (2000)
04	B07	C 6042	50908-62-8	320.31	5'-(N-Cyclopropyl)carboxamidoadenosine	CPCA	Adenosine		Agonist	A2	1 mg/ml		Kang, M.J. et al., Neurosci Lett. 2003;344:57-61.
04	B08	C 6895	53994-73-3	367.81	Cefaclor		Antibiotic			Cell wall synthesis			Sourgens, H., et al., Int J Clin Pharmacol Ther. 1997 Sep;35(9):374-80
04	B09	C 7861	59729-33-8	405.31	Citalopram hydrobromide	1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbonitrile hydrobromide	Serotonin		Inhibitor	Reuptake			Pollock, B.G., Citalopram:a comprehensive review. Expert Opin. Pharmacother. 2, 681 (2001)
04	B10	C 8145	51521-93-9	554.54	Cefsulodin sodium salt hydrate	Sulcephalosporin	Antibiotic			Cell wall synthesis			
04	B11	C 8903	14976-57-9	459.97	Clemastine fumarate		Histamine		Antagonist	H1			Akoev, G.N., et al., Mast cell mediators excite the afferents of cat small intestine. Neuroscience 71, 1163-1166 (1996)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
04	C02	C 3025	7054--11--7	390.87	(±)-Chlorpheniramine maleate		Histamine		Antagonist	H1			Yoshida, T., et al., Histaminergic effect on apoptosis of rat small intestinal mucosa after ischemia-reperfusion Dig. Dis. Sci. 45, 1138-1144 (2000)
04	C03	C 3912	93882-12-3	493.80	8-(4-Chlorophenylthio)-cAMP sodium		Cyclic Nucleotides	Enzyme	Activator		Yes	25 mg/ml	Connolly, B.J., et al., 8-(4-Chlorophenyl)thio-cyclic AMP is a potent inhibitor of the cyclic GMP-specific phosphodiesterase (PDE VA). Biochem. Pharmacol. 44, 2303-2306 (1992)
04	C04	C 4418	1115-65-7	153.16	L-Cysteinesulfinic Acid		Glutamate		Ligand				Griffiths, R.,Prog. Neurobiol. 35, 313 (1990)
04	C05	C 4915	2438-32-6	390.87	(+)-Chlorpheniramine maleate	(gammaS)-gamma-(4-Chlorophenyl)-N,N-dimethyl-2-pyridinepropanamine maleate	Histamine		Antagonist	H1			Yoshida, T., et al., Histaminergic effect on apoptosis of rat small intestinal mucosa after ischemia-reperfusion Dig. Dis. Sci. 45, 1138-1144 (2000)
04	C06	C 5793	104376-79-6	598.55	Ceftriaxone sodium	Ro-13-9904/001	Antibiotic			Cell wall synthesis			Perry, T.R., et al., Clin Pharmacokinet. 2001;40(9):685-94
04	C07	C 6048	56796-39-5	493.52	Cefmetazole sodium	CS-1170; SKF-83088	Antibiotic			Cell wall synthesis			Schentag, J.J., Pharmacotherapy. 991;11(1):2-19
04	C08	C 7005	68-39-3	102.09	DL-Cycloserine	4-amino-3-isoxazolidinone	Sphingolipid	Enzyme	Inhibitor	Ketosphinganine synthase, Alanine aminotransferase			Edmondson, J.,Biochem. Biophys. Res. Comm. 76, 751 (1977)
04	C09	C 7897	4205-91-8	266.56	Clonidine hydrochloride		Adrenoceptor		Agonist	alpha2	Yes		Eglen, R.M., et al.,'Seeing through a glass darkly': casting light on imidazoline'I'sites. Trends Pharmacol. Sci. 19, 381-390 (1998)
04	C10	C 8221	104594-70-9	284.31	Caffeic acid phenethyl ester	CAPE	Cell Cycle		Inhibitor	NFkB			Grunberger, D., et al., Preferential cytotoxicity on tumor cells by caffeic acid phenethyl ester isolated from propolis Experientia 44, 230-232 (1988)
04	C11	C 9033	51887-89-9	160.00	beta-Chloro-L-alanine hydrochloride		Biochemistry	Enzyme	Inhibitor	Alanine aminotransferase			Morino, Y., et al.,J. Biol. Chem. 254, 279 (1979)
04	D02	C 3130	50-04-4	402.49	Cortisone 21-acetate	21-Acetoxy-4-pregnen-17alpha-ol-3,11,20-trione	Hormone			Cortisol			Stewart, P.M., et al., Horm Res. 2001;56 suppl 1:1-6
04	D03	C 3930	57265-65-3	687.71	Calmidazolium chloride	R 24571 chloride	Intracellular Calcium	Enzyme	Inhibitor	Ca2+ATPase			Fischer, T.H., et al., An investigation of functional similarities between the sarcoplasmic reticulum and platelet calcium-dependent adenosinetriphosphatases with the inhibitors quercetin and calmidazolium Biochemistry 26, 8024-8030 (1987)
04	D04	C 4479	715-91-3	299.35	9-cyclopentyladenine	9-CP-Ade	Cyclic Nucleotides	Enzyme	Inhibitor	Adenylate cyclase	Yes	>100 mg/ml	Johnson, R.A., Isozyme-dependent sensitivity of adenylyl cyclases to P-site mediated inhibition by adenine nucleosides and nucleoside 3'-polyphosphates. J. Biol. Chem. 272, 8962 (1997)
04	D05	C 5020	27164-46-1	476.49	Cefazolin sodium	Sodium CEZ; SKF-41558	Antibiotic			Cell wall synthesis			Poston, S.A., et al., Pharmacotherapy. 2004 May;24(5):668-72
04	D06	C 5913	59-85-8	357.16	4-Chloromercuribenzoic acid	4-(Hydroxymercuri)benzoic acid	Biochemistry	Enzyme	Inhibitor				Hendriks, D., et al., Bichim Biophys Acta. 1990 Apr 23;1034(1):86-92
04	D07	C 6305	5786-21-0	326.83	Clozapine	8-Chloro-11-(4-methyl)-1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine	Dopamine		Antagonist	D4 > D2,D3			Van Tol, H.H.M., et al., Cloning of the gene for a human dopamine D4receptor with high affinity for the antipsychotic clozapine. Nature 350, 610-614 (1991)
04	D08	C 7041	55-45-8	317.22	McN-A-343	(4-Hydroxy-2-butynyl)-1-trimethylammonium-m-chlorocarbanilate chloride	Cholinergic		Agonist	M1	Yes		Lambrecht, G., The design and pharmacology of novel selective muscarinic agonists and antagonists Life Sci. 56, 815 (1995)
04	D09	C 7912	64485-93-4	477.45	Cefotaxime sodium	Cefotaxim sodium	Antibiotic			Cell wall synthesis			Shimamura, T., et al., J Biol Chem. 2002 Nov 29;277(48):46601-8
04	D10	C 8270	24536-60-3	445.45	Cephapirin sodium	BL-P-1322	Antibiotic			Cell wall synthesis			Arvidsson, A., Br J Clin Pharmacol. 1983 Mar;15(3):339-46
04	D11	C 9510	120-80-9	110.11	Pyrocatechol	1,2-Benzenediol; Catechol	Cell Cycle		Inhibitor				Margulies, L.J., et al., Biochim Biophys Acta. 1976 Jun 18;435(2):152-8
04	E02	C 3270	12567--06-5	478.78	Cephalosporin C zinc salt		Antibiotic			Cell wall synthesis			Tollnick, C., et al., Adv Biochem Eng Biotechnol. 2004;86:1-45.
04	E03	G 5918		393.51	GR 113808	1-Methyl-1H-indole-3-carboxylic acid, [1-[2-[(methylsulfonyl)amino]ethyl]-4-piperidinyl]methyl ester	Serotonin		Antagonist	5-HT4			Tuladhar, B.R., et al.,Br. J. Pharmacol. 136, 150-156 (2002)
04	E04	C 4520	58-71-9	418.43	Cephalothin sodium		Antibiotic			Cell wall synthesis			Kuzin, Ap.P, et al., Biochemsitry. 1995 Jul 25;34(29):9532-40

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
04	E05	C 5040	1163-36-6	362.31	Clemizole hydrochloride	1-p-Chlorobenzyl-2-(1-pyrrolidinyl)methylbenzimidazole hydrochloride	Histamine		Antagonist	H1			Oishi, et al., Comparison of the effects of eleven histamine H1-receptor antagonists on monoamine turnover in the mouse brain. Naunyn-Schmiedeberg's Arch. Pharmacol. 349, 140 (1994)
04	E06	C 5923	486-56-6	176.22	(-)-Cotinine	S(-)-1-Methyl-5-(3-pyridyl)-2-pyrrolidone	Cholinergic		Metabolite	Nicotinic			Green, et al., An oral formulation of nicotine for release and absorption in the colon: its development and pharmacokinetics. Br. J. Clin. Pharmacol. 48, 485-493 (1999)
04	E07	C 6506	7424-00-2	199.64	(±)-p-Chlorophenylalanine	p-CPA	Neurotransmission	Enzyme	Inhibitor	Tryptophan hydroxylase			Ricaurte, G.A., Eur J Pharmacol. 2004 Apr 5;489(1-2):1
04	E08	C 7230		373.89	N-(2-[4-(4-Chlorophenyl)piperazin-1-yl]ethyl)-3-methoxybenzamide		Dopamine		Agonist	D4	Insoluble		Perrone, R. et al., A structure-affinity relationship study on derivatives of N-[2-[4-(4-chlorophenyl) peperazin-1-yl]ethyl]-3 methoxybenzamide, a high-affinity and selective D(4) receptor ligand. J. Med. Chem. 43, 270 (2000)
04	E09	C 7971	68550-75-4	342.44	Cilostamide	OPC 3689	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III			Tang, K.M., et al.,Eur. J. Pharmacol. 268, 105 (1994)
04	E10	C 8395	38821-53-3	349.41	Cephradine	Cefradin; SQ-11436	Antibiotic			Cell wall synthesis			Yuasa, H., J Pharmacol exp Ther. 1994 Jun;269(3):1107-11
04	E11	C 9511	26049-94-5	331.80	Z-L-Phe chloromethyl ketone	N-Carbobenzyloxy-L-phenylalanyl chloromethyl ketone; ZPCK	Biochemistry	Enzyme	Inhibitor	Chymotrypsin A-gamma			Segal, D.M., et al.,Biochemistry 10, 3728 (1971)
04	F02	C 3353		422.36	CGP-74514A hydrochloride	N2-(cis-2-Aminocyclohexyl)-N6-(3-chlorophenyl)-9-ethyl-9H-purine-2,6-diamine hydrochloride; Compound 13	Phosphorylation	Enzyme	Inhibitor	Cdk1	Yes	11 mg/ml	Imbach, P., et al., 2,6,9-trisubstituted purines: optimization towards highly potent and selective CDK1 inhibitors. Bioorg. Med. Chem. Lett. 9, 91 (1999)
04	F03	C 4024	298-46-4	236.28	Carbamazepine	5H-Dibenz[b,f]azepine-5-carboxamide	Anticonvulsant				Insoluble		Afanas'ev, I., Lamotrigine and carbamazepine affect differently the release of D-3Haspartate from mouse cerebral cortex slices: involvement of NO. Neurochem. Res. 24, 1153 (1999)
04	F04	C 4522	51481-61-9	252.34	Cimetidine	SKF-92334; Tagamet	Histamine		Antagonist	H2			Balint, G.A., A possible molecular basis for the effect of gastric anti-ulcerogenic drugs Trends Pharmacol. Sci. 19, 401-403 (1998)
04	F05	C 5134	146-77-0	301.69	2-Chloroadenosine	2-CADO	Adenosine		Agonist	A1 > A2			Abdul-Ghani, A.S., et al.,Eur. J. Pharmacol. 326, 7 (1997)
04	F06	C 5976	138908-40-4	465.80	CL 316,243	Disodium 5-[(2R)-2-[[(2R)-2-(3-Chlorophenyl)-2-hydroxyethyl]amino]propyl]-1,3-benzodioxole-2,2-dicarboxylate	Adrenoceptor		Agonist	beta3	Yes	>0.5 mg/ml	Umekawa, T., et al., Effect of CL 316,243, a highly specificb3-adrenoceptor agonist, on lipolysis of human and rat adipocytes Horm. Metab. Res. 28, 394 (1996)
04	F07	C 6628	50-63-5	515.87	Chloroquine diphosphate		DNA		Intercalator	DNA			Luthman, H., and Magnusson, G., High efficiency polyoma DNA transfection of chloroquine treated cells Nucl. Acids Res. 11, 1295-1308 (1983)
04	F08	C 7255	56-17-7	225.20	Cystamine dihydrochloride	Decarboxycystine dihydrochloride	Glutamate	Enzyme	Inhibitor	Transglutaminase			Ientile, R., et al., J Neurosci Res. 2003 Oct 1;74(1):52-9
04	F09	C 8011	138-60-3	183.12	Chelidamic acid	4-Hydroxypyridine-2,6-dicarboxylic acid	Glutamate	Enzyme	Inhibitor	L-glutamic decarboxylase			Porter, T.G., et al., Biochem Pharmacol. 1985 Dec 1;34(23):4145-50
04	F10	C 8417	40616-75-9	313.07	DSP-4 hydrochloride	N-(2-Chloroethyl)-N-ethyl-2-bromobenzylamine hydrochloride	Adrenoceptor		Neurotoxin		Yes	48 mg/ml	Liang, K.C, Pretraining infusion of DSP-4 into the amygdala impaired retention in the inhibitory avoidance task: involvement of norepinephrine but not serotonin in memory facilitation Chin. J. Physiol. 41, 223-233 (1998)
04	F11	C 9611	179067-99-3	247.25	CPCCOEt	7-(Hydroxyimino)cyclopropa[b]chromen-1a-carboxylate ethyl ester	Glutamate		Antagonist	mGluR1			Litschig, S. et al.,Mol. Pharmacol. 55, 453-461 (1999)
04	G02	C 3412	427-51-0	416.95	Cyproterone acetate	6-Chloro-1beta,2beta-dihydro-17-hydroxy-3'H-cyclopropa(1,2)-pregna-1,4,6-triene-3,20-dione acetate	Hormone		Antagonist	Androgen			Mondal, S., and Rai, U.,Gen. Comp. Endocrinol. 116, 291 (1999)
04	G03	C 4042	62571-86-2	217.29	Captopril	(S)-1-(3-Mercapto-2-methyl-1-oxo-propyl)-L-proline	Neurotransmission	Enzyme	Inhibitor	ACE			Gavras, H., and Brunner, H.R., Role of angiotensin and its inhibition in hypertension, ischemic heart disease, and heart failure. Curr. Hypertens. Rep. 37, 342-345 (2001)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
04	G04	C 4542	6202-23-9	311.86	Cyclobenzaprine hydrochloride	5-(3-Dimethylaminopropylidene)dibenzo[a,e]cycloheptatriene hydrochloride	Serotonin		Antagonist	5-HT2			Kobayashi, H., Cyclobenzaprine a centrally acting muscle relaxant acts on descending serotonergic systems. Eur. J. Pharmacol. 311, 29 (1996)
04	G05	C 5259	590-63-6	196.68	Bethanechol chloride	Carbamyl-beta-methylcholine chloride	Cholinergic		Agonist	Muscarinic	Yes	1.7 mg/ml	Koga, Y., et al., Role of acetylcholinesterase in airway epithelium-mediated inhibition of acetylcholine-induced contraction of guinea-pig isolated trachea. Eur. J. Pharmacol. 220, 146 (1992)
04	G06	C 5982		256.69	7-Chloro-4-hydroxy-2-phenyl-1,8-naphthyridine		Adenosine		Antagonist	A1	Insoluble		Ferrarini, P.L. ,J. Med. Chem. 43, 2814 (2000)
04	G07	C 6643	637-07-0	242.70	Clofibrate		Lipid	Enzyme	Modulator	Lipoprotein lipase			Buchmann, A., et al., Inhibition of transforming growth factor beta1-induced hepatoma cell apoptosis by liver tumor promoters: characterization of primary signaling events and effects on CPP32-like caspase activity. Cell Death Differ. 6, 190 (1999)
04	G08	C 7291	13721-77-6	351.32	Clomipramine hydrochloride	Anafranil hydrochloride; Chloripramine	Serotonin		Inhibitor	Reuptake	Yes	25 mg/ml	Ortiz, J., and Artigas, F., Effects of monoamine uptake inhibitors on extracellular and platelet 5-hydroxytryptamine in rat blood: different effects of clomipramine and fluoxetine Br. J. Pharmacol. 105, 941-946 (1992)
04	G09	C 8031	41552-82-3	335.37	N6-Cyclopentyladenosine	CPA	Adenosine		Agonist	A1	Yes	1.7 mg/ml	Lohse, et al., 2-Chloro-N6-cyclopentyladenosine: A highly selective agonist at A1adenosine receptors., Naunyn-Schmiedeberg's Arch. Pharmacol. 337, 687-689 (1988)
04	G10	C 8645	28657-80-9	262.22	Cinoxacin	1-Ethyl-1,4-dihydro-4-oxo[1,3]dioxolo[4,5-g]cinnoline-3-carboxylic acid	Antibiotic	Enzyme	Inhibitor				Goldstein, E.J., et al., Am J Med. 1987 Apr 27;82(4A):284-7
04	G11	C 9754	64-86-8	399.45	Colchicine		Cytoskeleton and ECM		Inhibitor	Tubulin	Yes	10 mg/ml	Luduena, R.F., et al., Tubulin structure and biochemistry Curr. Opin. Cell Biol. 4, 53-57 (1992)
04	H02	C 3635	14173-40-1	250.13	DL-p-Chlorophenylalanine methyl ester hydrochloride		Neurotransmission	Enzyme	Inhibitor	Tryptophan hydroxylase			Farabollini, F., et al., Pharmacol Biochem Behav. 1981 Jun;14(6):911-4
04	H03	C 4238		339.87	CNS-1102	N-(3-Ethylphenyl)-N-methyl-N'-1-naphthalenylguanidine monohydrochloride; Cerestat; Aptiganel hydrochloride	Glutamate		Antagonist	NMDA	Yes	17 mg/ml	Schabitz, W.R. et al.,Stroke 31, 1709-1714 (2000)
04	H04	C 4662	23142-01-1	525.60	Carbetapentane citrate	1-Phenyl-cyclopentanecarboxylic acid 2-[2-(Diethylamino)ethoxy]ethyl ester citrate	Opioid		Ligand	sigma1	Yes		Annels, S.J., et al., Non-opioid antitussives inhibit endogenous glutamate release from rabbit hippocampal slices Brain Res. 564, 341 (1991)
04	H05	C 5270	298-57-7	368.53	Cinnarizine	1-trans-Cinnamyl-4-diphenylmethylpiperazine	Ca2+ Channel		Blocker				Daniel and Mauro, Extrapyramidal symptoms associated with calcium-channel blockers. Pharmacotherapy 29, 73 (1995)
04	H06	C 6019	23593-75-1	344.85	Clotrimazole	1-(o-Chlorotrityl)imidazole	K+ Channel		Inhibitor	Ca2+-activated K+ channel			Snajdrova, L., et al.,J. Biol. Chem. 273, 28032 (1998)
04	H07	C 6645	69-74-9	279.68	Cytosine-1-beta-D-arabinofuranoside hydrochloride	Arabinocytidine hydrochloride; Arabinosylcytosine hydrochloride; Ara-C hydrochloride	DNA Metabolism		Inhibitor				de Vroom, E., et al., Nucleic Acids Res. 1988;16:2987-3003.
04	H08	C 7522	52665-69-7	523.63	Calcimycin	A23187; Calcium ionophore A23187	Intracellular Calcium			Ca2+			Pressman, B.C., et al., Biological applications of ionophores Ann. Rev. Biochem. 45, 50-530 (1976)
04	H09	C 8088		214.22	Cantharidic Acid		Phosphorylation	Enzyme	Inhibitor	PP1 / PP2A			Li, Y.M. and Casida, J.E.,Proc. Natl. Acad. Sci. USA 89, 11867 (1992)
04	H10	C 8759	78-44-4	260.34	Carisoprodol		Neurotransmission			Skeletal muscle			Barnett, A., Goldstein, J., Etonitazine-induced rigidity and its antagonism by centrally acting muscle relaxants. Eur. J. Pharmacol. 30, 23 (1975)
04	H11	C 9758	2219-31-0	274.25	L-Canavanine sulfate	L-alpha-Amino-gamma-(guanidinooxy)butyric acid sulfate	Nitric Oxide	Enzyme	Inhibitor	iNOS	Yes	100 mg/ml	Knowles, R.G., and Moncada, S., Nitric oxide synthases in mammals Biochem. J. 298, 249-258 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
05	A02	C 9847	2259-96-3	389.88	Cyclothiazide	6-Chloro-3,4-dihydro-3-(2-norbornen-5-yl)-2H-1,2-4-benzothiadiazine-7-sulfonamide 1,1-dioxide	Glutamate		Agonist	AMPA			Schmidhammer, et al., Synthesis and biological evaluation of 14-alkoxymorphinans. 2.(-)-N-(Cyclopropylmethyl)-4,14-dimethoxymorphinan-6-one, a selectiveμ opioid receptor antagonist. J. Med. Chem. 32, 418 (1989)
05	A03	C-104	100828-16-8	252.21	(±)-CPP	(±)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid	Glutamate		Antagonist	NMDA	Yes	99.2 mg/ml	Murphy, et al., Binding of [3H]-3-(2-carboxypiperazin-4-yl)-propyl-1-phosphonic acid to rat brain membranes: a selective high affinity ligand for N-methyl-D-aspartate receptors J. Pharmacol. Exp. Ther. 240, 778 (1987)
05	A04	C-141	124182-57-6	535.99	CGS-21680 hydrochloride	2-p-(2-Carboxyethyl)phenethylamino-5'-N-ethylcarboxamidoadenosine hydrochloride	Adenosine		Agonist	A2a	Yes	1.5 mg/ml	Jarvis, et al., [3H]CGS 21680 a selective A2adenosine receptor agonist directly labels A2receptors in rat brain J. Pharmacol. Exp. Ther. 251, 888 (1989)
05	A05	C-199	104615-18-1	285.69	CGS-15943	9-Chloro-2-(2-furyl)[1,2,4]triazolo[1,5-c]quinazolin-5-amine	Adenosine		Antagonist	A1	Insoluble		Williams, M., et al., Biochemical characterization of the triazoloquinazoline CGS 15943 a novel non-xanthine adenosine antagonist. J. Pharmacol. Exp. Ther. 241, 415 (1987)
05	A06	C-277	163042-96-4	544.74	Chloro-IB-MECA	2-Chloro-N6-(3-iodobenzyl)-adenosine-5'-N-methyluronamide	Adenosine		Agonist	A3	Insoluble		Dunwiddie, T.V., et al., Activation of hippocampal adenosine A3receptors produces a desensitization of A1receptor-mediated responses in rat hippocampus. J. Neurosci. 17, 607-614 (1997)
05	A07	D 1306	581-88-4	448.55	Debrisoquin sulfate	3,4-Dihydro-2(1H)-isoquinolinecarboximidamide sulfate; Ro 5-33071	Neurotransmission		Antihypertensive				Scarr, E., et al.,Prog. Neuropsychopharmacol. Biol. Psychiatry 15, 297 (1991)
05	A08	D 2521	33286-22-5	450.99	Diltiazem hydrochloride		Ca2+ Channel		Antagonist	L-type			Smirnov, S.V., Aaronson, P.I.,Eur. J. Pharmacol. 360, 81 (1998)
05	A09	D 3689	162870-29-3	183.17	(S)-3,5-Dihydroxyphenylglycine	S-DHPG	Glutamate		Agonist	mGluR1			Zalewska-Winska, A., Wisniewski, K.,Pharmacol. Res. 42, 239 (2000)
05	A10	D 4505	630-93-3	274.26	Phenytoin sodium	5,5-Diphenylhydantoin sodium	Anticonvulsant						Morimoto, K., et al., BW1003C87, phenytoin and carbamazepine elevate seizure threshold in the rat amygdala-kindling model of epilepsy. Eur. J. Pharmacol. 339, 11-15 (1997)
05	A11	D 5564		178.15	Daphnetin	7,8-Dihydroxycoumarin	Phosphorylation	Enzyme	Inhibitor	PK			Yang, Y.Z., et al., Daphnetin: a novel antimalarial agent with in vitro and in vivo activity. Am. J. Trop. Med. Hyg. 46, 15 (1992)
05	B02	C 9901	36396-99-3	349.39	N6-Cyclohexyladenosine	CHA	Adenosine		Agonist	A1			Daisley, J.N. and Rose, S.P.,Brain Res. 847, 149 (1999)
05	B03	C-106	109028-10-6	450.42	CGS-12066A maleate	7-Trifluoromethyl-4(4-methyl-1-piperazinyl)-pyrrolo[1,2-a]quinoxaline maleate	Serotonin		Agonist	5-HT1B	Yes	1.4 mg/ml	Neale, et al., Biochemical and pharmacological characterization of CGS 120668a selective serotonin-1B agonist. Eur. J. Pharmacol. 136, 1 (1987)
05	B04	Y 0503	146986-50-7	320.26	Y-27632 dihydrochloride	(R)-(+)-trans-4-(1-Aminoethyl)-N-(4-Pyridyl)cyclohexanecarboxamide dihydrochloride	Phosphorylation	Enzyme	Inhibitor	ROCK	Yes	14 mg/ml	Maekawa, M., et al., Signaling from Rho to the actin cytoskeleton through protein kinases ROCK and LIM-kinase Science 389, 895-898 (1999)
05	B05	C-203	14685-79-1	198.60	2-Chloro-2-deoxy-D-glucose	2-Chloro-DG	Biochemistry		Analog	Glucose			Alexoff et al. "Ion Chromatogrphic analsis of high specific activityFDG preparations and detection of the chemical impurity 2-Deoxy-2-chloro-D-glucose." Appl. Radiat. Isot. 43, 1313 (1992)
05	B06	D 0411	2170-58-3	381.86	WB-4101 hydrochloride	2-(2,6-Dimethoxyphenoxyethyl)aminomethyl-1,4-benzodioxane hydrochloride	Adrenoceptor		Antagonist	alpha1A	Yes		Bolognesi, M.L., et al., WB 4101-related compounds. 2. Role of the ethylene chain separating amine and phenoxy units on the affinity fora1-adrenoreceptor subtypes and 5-HT1Areceptors. J. Med. Chem. 42, 4214 (1999)
05	B07	D 1413	3056-17-5	224.22	2',3'-didehydro-3'-deoxythymidine	2',3'-Anhydrothymidine; d4T	Immune System	Enzyme	Inhibitor	Reverse Transcriptase			Baba, M., et al.,Biochem. Biophys. Res. Comm. 142, 128 (1987)
05	B08	D 2531	6700-34-1	352.32	Dextromethorphan hydrobromide monohydrate	d-3-Methoxy-N-methylmorphinan hydrobromide	Glutamate		Antagonist	NMDA			Klein, et al., The effect of prototypic sigma ligands on the binding of [3H]dextromethorphan to guinea pig brain. Neurosci. Lett. 91, 175 (1989)
05	B09	D 3768	522-51-0	527.59	Dequalinium dichloride	1,1'-Decamethylenebis(4-aminoquinaldinium) dichloride	K+ Channel		Blocker				Rotenberg, S.A. and Sun, X.G.,J. Biol. Chem. 273, 2390 (1998)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
05	B10	D 4526	1229-2-4	315.85	Doxepin hydrochloride		Adrenoceptor		Inhibitor	Uptake	Yes		Richelson, E., and Nelson, A., Antagonism by antidepressants of neurotransmitter receptors of normal human brainin vitro J. Pharmacol. Exp. Ther. 230, 94-102 (1984
05	B11	D 5689		246.31	DM 235		Nootropic				Yes	24 mg/ml	Manetti, D. et al,J. Med. Chem. 43, 4499 (2000)
05	C02	C 9911	7689--03-4	348.36	(S)-(+)-Camptothecin		Apoptosis	Enzyme	Inhibitor	TopoI			Beidler, D.R., and Cheng, Y.C., Camptothecin induction of a time- and concentration-dependent decrease of topoisomerase I and its implication in camptothecin activity Mol. Pharmacol. 47, 907-914 (1994)
05	C03	C-108	57-559-31-6	207.75	2-Cyclooctyl-2-hydroxyethylamine hydrochloride	CONH hydrochloride	Neurotransmission	Enzyme	Inhibitor	PNMT	yes		Vincek, et al., J Med Chem. 1981;24:7
05	C04	C-144	######	248.12	1-(m-Chlorophenyl)-biguanide hydrochloride	m-CPBG hydrochloride	Serotonin		Agonist	5-HT3	Yes		Kilpatrick, et al., Eur J Pharmacol. 1990;182:193.
05	C05	C-207	14008-79-8	378.35	4'-Chloro-3-alpha-(diphenylmethoxy)tropane hydrochloride		Dopamine		Blocker	Reuptake	Yes	6.3 mg/ml	Newman, A.H., et al., Novel 3a-(diphenylmethoxy)tropane analogs J. Med. Chem. 37, 2258-2261 (1994)
05	C06	D 0540	2379-57-9	252.14	DNQX	6,7-Dinitroquinoxaline-2,3-dione	Glutamate		Antagonist	Kainate/quisqualate			Muller, et al., Contributions of quisqualate and NMDA receptors to the induction and expression of LTP. Science 242, 1694 (1988)
05	C07	D 1414	548-73-2	379.44	Droperidol	1-[1-[3-(p-Fluorobenzoyl)propyl]-1,2,3,6-tetrahydro-4-pyridyl]-2-benzimidazolinone	Dopamine		Antagonist	D1/D2			Hamik, A., and Peroutka, S.J., Differential interactions of traditional and novel antiemetics with dopamine D2 and 5-HT-3 receptors Cancer Chemother. Pharmacol. 24, 307-310 (1989)
05	C08	S 0443	135938-17-9	308.81	SB 203186	1-Piperidinylethyl-1H-indole-3-carboxylate hydrochloride	Serotonin		Antagonist	5-HT4	Yes	10 mg/ml	Parker SG, et al. Naunyn Schmiedebergs Arch Pharmacol. 1995 Dec;353(1):28-35
05	C09	D 3775	562-10-7	388.47	Doxylamine succinate		Histamine		Antagonist	H1			Brandes, L.J., et al., Enhanced cancer growth in mice administered daily human-equivalent doses of some H1-antihistamines: predictive in vitro correlates. J. Natl. Cancer Inst. 86, 770-775 (1994)
05	C10	P-152	26328-11-0	248.33	S(-)-Pindolol		Adrenoceptor		Antagonist	beta	Insoluble		Watkins, D.J., et al., Loss of [125I]-pindolol binding to beta-adrenoceptors on rat nodose ganglion after chronic isoprenaline treatment. J. Auton. Nerv. Syst. 60, 12-16 (1996)
05	C11	D 5766	3317-61-1	113.16	5,5-Dimethyl-1-pyrroline-N-oxide	DMPO	Cell Stress	Enzyme	Inhibitor	Antioxidant			Lafon-Cazal, M., NMDA-dependent superoxide production and neurotoxicity. Nature 364, 535 (1993)
05	D02	C-007	13012-66-3	362.92	10-(alpha-Diethylaminopropionyl)-phenothiazine hydrochloride	As-1397	Biochemistry	Enzyme	Inhibitor	Butyrylcholinesterase	Yes		Koelle, et al., J Neurochem. 1977;28:307.
05	D03	C-117	118202-69-0	319.32	5-Carboxamidotryptamine maleate	5-CT; AH-21467	Serotonin		Agonist	5-HT7	Yes	10 mg/ml	Borton, M., et al., Contractions to 5-hydroxytryptamine (5-HT) receptor agonists in the human saphenous vein. Br. J. Clin. Pharmacol. 30, 107 (1990)
05	D04	C-145	49564-60-5	629.56	2-Chloroadenosine triphosphate tetrasodium	2-Chloro-ATP tetrasodium	P2 Receptor		Agonist	P2Y	Yes		Gough, et al., Three new adenosine triphosphate analogs. Synthesis and effects on isolated gut J. Med. Chem. 16, 1188 (1973)
05	D05	C-223	40600-13-3	252.75	Cirazoline hydrochloride	2-[(2-Cyclopropylphenoxy)methyl]-4,5-dihydro-1H-imidazole hydrochloride	Adrenoceptor		Agonist	alpha1A	Yes	>35 mg/ml	Wikberg, et al., Further characterization of the guinea pig cerebral cortex idazoxan receptor: Solubilization, distinction from the imidazole site, and demonstration of cirazoline as an idazoxan receptor-selective drug. J. Neurochem. 55, 192-203 (1990)
05	D06	D 0670	1183-35-3	586.68	Dihydroouabain		Ion Pump		Inhibitor	Na+/K+ Pump			Mogul, D.J., et al.,Circ. Res. 64, 1063 (1989)
05	D07	D 1507	1421-65-4	247.68	L-3,4-Dihydroxyphenylalanine methyl ester hydrochloride	Methyl L-DOPA hydrochloride	Dopamine		Precursor				Tabar, et al., The effects on central dopamine function of chronic L-DOPA (methyl ester hydrochloride) treatment of mice. Pharmacol. Biochem. Behav. 33, 139-146 (1989)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
05	D08	D 2763	6190-39-2	679.80	Dihydroergotamine methanesulfonate		Serotonin		Antagonist		Insoluble		Glusa, E., and Roos, A., Endothelial 5-HT receptors mediate relaxation of porcine pulmonary arteries in response to ergotamine and dihydroergotamine. Br. J. Pharmacol. 119, 330-334 (1996)
05	D09	D 3900	58-28-6	302.85	Desipramine hydrochloride		Adrenoceptor		Inhibitor	Uptake	Yes	50 mg/ml	Zhu, M.Y., et al., Down-regulation of the human norepinephrine transporter in intact 293-hNET cells exposed to desipramine. J. Neurochem. 70, 1547-1555 (1998)
05	D10	D 5290	829-74-3	183.21	(-)-alpha-Methylnorepinephrine	Levonordefrin; (-)-3,4-Dihydroxynorephedrine	Adrenoceptor		Agonist				Anderson, G.F., et al., Neurosci Lett. 1995 Jan 16;184(1):59-62
05	D11	D 5782	7481-89-2	211.22	2',3'-dideoxycytidine	ddC	Immune System	Enzyme	Inhibitor	Reverse Transcriptase			Borg, N., et al., Pharmacokinetics and distribution over the blood-brain barrier of zalcitabine (2',3'-dideoxycytidine) and BEA005 (2', 3'-dideoxy-3'-hydroxymethylcytidine) in rats, studied by microdialysis. Antimicrob. Agents Chemother. 42, 2174-2177 (1998)
05	E02	C-008	16709-43-6	287.14	(+)-cis-Dioxolane iodide	L(+)-cis-2-Methyl-4-trimethylammoniummethyl-1,3-dioxolane iodide	Cholinergic		Agonist	Muscarinic	Yes	10 mg/ml	Potter, L.T., and Ferrendelli, C.A., Affinities of different cholinergic agonists for the high and low affinity states of hippocampal M1muscarine receptors J. Pharmacol. Exp. Ther. 248, 974-978 (1989)
05	E03	C-121	18000-24-3	223.62	7-Chlorokynurenic acid	7-Cl-KYNA	Glutamate		Antagonist	NMDA			Kemp, J.A., et al., 7-Chlorokynurenic acid is a selective antagonist at the glycine modulatory site of the N-methyl-D-aspartate receptor complex. Proc. Natl. Acad. Sci. USA 85, 6547 (1988)
05	E04	C-147	3572-80-3	271.41	(+)-Cyclazocine		Opioid		Antagonist		Insoluble		Church, J.L., and Lodge, D., Cyclazocine and pentazocine as N-methylaspartate antagonists on cat and rat spinal neurons in vivo. J. Pharmacol. Exp. Ther. 253, 636-645 (1990)
05	E05	C-231	105737-62-0	590.58	CGP 20712A methanesulfonate	(+/-)-2-Hydroxy-5-[2-[[2-hydroxy-3-[4-[1-methyl-4-(trifluoromethyl)-1H-imidazol-2-yl]phenoxy]propyl]amino]ethoxy]-benzamide methanesulfonate	Adrenoceptor		Antagonist	beta1	Yes	100 mg/ml	Dooley, D.J., et al., CGP 20712 A: A useful tool for quantifyingb1- andb2-adrenoceptors Eur. J. Pharmacol. 130, 137-139 (1986)
05	E06	D 0676	49745-95-1	337.85	Dobutamine hydrochloride	(±)-4-[2-[[3-(4-Hydroxyphenyl)-1-methylpropyl]amino]ethyl]-1,2-benzenediol hydrochloride	Adrenoceptor		Agonist	beta1			Aikawa, J., et al., Vascular smooth muscle relaxation by alpha-adrenoceptor blocking action of dobutamine in isolated rabbit aorta. J. Cardiovasc. Pharmacol. 27, 33-36 (1996)
05	E07	D 1542	100937-52-8	169.61	1,4-Dideoxy-1,4-imino-D-arabinitol	DAB; 2-Hydroxymethyl-3,4-pyrrolidinediol	Phosphorylation	Enzyme	Inhibitor	Glycogen phosphorylase			Winchester, B. et al., Biochem J. 1993;290:743-749.
05	E08	D 2926	4673-26-1	314.55	Diphenyleneiodonium chloride	[1,1'-Biphenyl]-2,2'-diyiodonium chloride	Nitric Oxide	Enzyme	Inhibitor	eNOS			Stuehr, D.J., et al., Inhibition of macrophage and endothelial cell nitric oxide synthase by diphenyleneiodonium and its analogs. FASEB J. 5, 98-103 (1991)
05	E09	D 4000	53-43-0	288.43	trans-Dehydroandrosterone	5-Androsten-3beta-ol-17-one; DHEA	Hormone			Aldosterone			Ebeling, P., and Koivisto, V.A., Physiological importance of dehydroepiandrosterone. Lancet 343, 1479-1481 (1994)
05	E10	D 5294	20153-98-4	677.63	Dilazep hydrochloride	Cormelian	Adenosine		Inhibitor	Uptake	Yes	10 mg/ml	Deguchi, H, et al.,Blood 90, 2345-2356 (1997)
05	E11	D 5794	120166-69-0	489.59	Diacylglycerol Kinase Inhibitor II	R59949	Phosphorylation	Enzyme	Inhibitor	Diacylglycerol kinase	Insoluble		de Chaffoy de Courcelles, D., et al, R59022, a diacylglycerol kinase inhibitor. Its effect on diacylglycerol and thrombin-induced C kinase activation in the intact platelet J. Biol. Chem. 260, 15762 (1985)
05	F02	C-011	76541-57-6	303.21	OXA-22 iodide	cis-2-Methyl-5-trimethylammoniummethyl-1,3-oxathiolane iodide	Cholinergic		Agonist	Muscarinic	Yes		Angeli, P., et al., Affinity and efficacy correlate with chemical structure more than potency does in a series of pentatomic cyclic muscarinic agonists. Br. J. Pharmacol. 85, 783-786 (1985)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
05	F03	C-125	81047-99-6	315.80	(±)-CGP-12177A hydrochloride	4-[4-[(1,1-Dimethylethyl)amino]-2-hydroxypropoxy]-1,3-dihydro-2H-benzimidazol-2-one hydrochloride	Adrenoceptor		Agonist	beta	Yes		Oostendorp, J., et al., Contribution ofb-adrenoceptor subtypes to relaxation of colon and oesophagus and pacemaker activity of ureter in wildtype andb3-adrenoceptor knockout mice Br. J. Pharmacol. 130, 747-758 (2000)
05	F04	C-191	138977-28-3	376.91	Capsazepine	N-[2-(4-Chlorophenyl)ethyl]-1,3,4,5-tetrahydro-7,8-dihydroxy-2H-2-benzazepine-2-carbothioamide	Vanilloid		Agonist				Urban, et al., Capsazepine, a novel capsaicin antagonist, selectively antagonises the effects of capsaicin in the mouse spinal cord in vitro. Neurosci. Lett. 134, 9 (1991)
05	F05	C-237	117857-93-9	159.14	(2S,1'S,2'S)-2-(carboxycyclopropyl)glycine	L-CCG-1	Glutamate		Agonist	mGluR2	Yes	> 7.0 mg/ml	Yamashita, H., et al., Inhibition by folded isomers of L-2-(carboxycyclopropyl)glycine of glutamate uptake via the human glutamate transporter hGluT-1. Eur. J. Pharmacol. 289, 387-390 (1995)
05	F06	D 1064	52497-36-6	229.28	Dihydrokainic acid	2-Carboxy-4-isopropyl-3-pyrrolidineacetic acid	Glutamate		Blocker	Kainate	Yes	> 110mg/ml	Wang, G.J., et al., Dihydrokainate-sensitive neuronal glutamate transport is required for protection of rat cortical neurons in culture against synaptically released glutamate. Eur. J. Neurosci. 10, 2523-2531 (1998)
05	F07	D 1791	111495-86-4	348.24	2,4-Dinitrophenyl 2-fluoro-2-deoxy-beta-D-glucopyranoside		Biochemistry	Enzyme	Inhibitor	exo-beta-(1,3)-Glucanase			Withers, S.G., et al.,J. Amer. Chem. Soc. 109, 7530 (1987)
05	F08	D 3630	147-24-0	291.82	Diphenhydramine hydrochloride		Histamine		Antagonist	H1			Saitou, et al., Slow wave sleep-inducing effects of first generation H1-antagonists. Biol. Pharm. Bull. 22, 1079 (1999)
05	F09	D 4007	57-41-0	252.28	5,5-Diphenylhydantoin	Phenytoin	Anticonvulsant						Morimoto, K., et al., BW1003C87, phenytoin and carbamazepine elevate seizure threshold in the rat amygdala-kindling model of epilepsy. Eur. J. Pharmacol. 339, 11-15 (1997)
05	F10	D 5297	78590-17-7	390.48	Dehydroisoandrosterone 3-sulfate sodium	Dehydroepiandrosterone 3-sulfate sodium	GABA		Modulator	GABA-A			Nilsson, K.R., et al., Neurosteroid analogues. 6. The synthesis and GABAA receptor pharmacology of enantiomers of dehydroepiandrosterone sulfatepregnenolone sulfateand (3alpha5beta)-3-hydroxypregnan-20-one sulfate. J. Med. Chem. 41, 2604-2613 (1998)
05	F11	D 5814	123039-93-0	303.79	Dihydrexidine hydrochloride	(±)-trans-10,11-Dihydroxy-5,6,6a,7,8,12b-hexahydrobenzo[a]phenanthridine hydrochloride	Dopamine		Agonist	D1			Brewster, W.K., Trans-10,11-dihydroxy-5,6,6a,7,8,12b-hexahydrobenzo[a] phenthnidine; a highly potent selective dopamine D1full agonist. J. Med. Chem. 33, 1756 (1990)
05	G02	C-101	102146-07-6	304.40	8-Cyclopentyl-1,3-dipropylxanthine	DPCPX; PD 116,948	Adenosine		Antagonist	A1	Insoluble		Lee, et al., 1,3-Dipropyl-8-cyclopentylxanthine (DPCPX) inhibition of [3H]N-ethylcarboxamidoadenosine (NECA) binding allows the visualization of putative non-A1adenosine receptors Brain Res. 368, 394-398 (1986)
05	G03	C-126	28860-95-9	226.23	S-(-)-Carbidopa		Biochemistry	Enzyme	Inhibitor	Aromatic amino acid decarboxylase			Lotti,V.J., et al., Potentiation and inhibition of some central actions ofL(–)-DOPA by decarboxylase inhibitors J. Pharmacol. Exp. Ther. 172, 406-415 (1970)
05	G04	C-192	80-77-3	273.74	Chlormezanone	2-(4-Chlorophenyl)tetrahydro-3-methyl-4H-1,3-thiazin-4-one 1,1-dioxide	Neurotransmission		Modulator	Muscle relaxant	No	Yes	Adam, K. and Oswald, I. Br J Clin Pharmacol. 1982;14:57-65.
05	G05	C-239		276.12	CNQX disodium	6-Cyano-7-nitroquinoxaline-2,3-dione	Glutamate		Antagonist	AMPA/Kainate	Yes	10 mg/ml	Honore, et al., Quinoxalinediones: Potent competitive non-NMDA glutamate receptor antagonists. Science 241, 701 (1988)
05	G06	D 1260	541-22-0	418.30	Decamethonium dibromide	Decamethylene bis(trimethylammonium bromide)	Cholinergic		Agonist	Nicotinic			Bertrand, et al., Activation and blocking of neuronal nicotinic acetylcholine receptor reconstituted in Xenopus oocytes. Proc. Natl. Acad. Sci. USA 87, 1993-1997 (1990)
05	G07	D 1916	53-85-0	319.15	D-ribofuranosylbenzimidazole	DRB; 5,6-Dichlorobenzimidazole riboside	Transcription		Inhibitor				Bradley J., and Sporns, O., BDNF-dependent enhancement of exocytosis in cultured cortical neurons requires translation but not transcription. Brain Res. 815, 140-149 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
05	G08	D 3634	431-03-8	86.09	2,3-Butanedione	Biacetyl; BDM	Cytoskeleton and ECM	Enzyme	Inhibitor	Myosin ATPase			Eriksson, O., et al., J Biol Chem. 1998 May 15;273(20):12669-74
05	G09	D 4268	65005-57-4	238.72	N^G,N^G-Dimethylarginine hydrochloride	asym-Dimethylarginine hydrochloride ADMA	Nitric Oxide	Enzyme	Inhibitor	NOS			Vallance, P., et al.,Lancet 339, 572 (1992)
05	G10	D 5385	611-59-6	180.17	1,7-Dimethylxanthine	Paraxanthine	Adenosine		Antagonist	A1 > A2	Yes	1.0 mg/ml	Ferre, et al., Paraxanthine displaces the binding of [3H]SCH-23390 from rat striatal membranes Eur. J. Pharmacol. 179, 295-299 (1990)
05	G11	D 5886	62-32-8	203.67	N-Methyldopamine hydrochloride	Epinine hydrochloride; Deoxyepinephrine hydrochloride	Dopamine		Agonist		Yes		Prados, P., et al., A fully automated HPLC method for the determination of catecholamines in biological samples utilizing ethylenediamine condensation and peroxyoxalate chemiluminescence detection Biomed. Chromatogr. 8, 1-8 (1994)
05	H02	C-102	35873-49-5	248.29	8-Cyclopentyl-1,3-dimethylxanthine	CPT; 8-Cyclopentyltheophylline	Adenosine		Antagonist	A1	Slighty Soluble	<0.28 mg/ml	Bruns, Adenosine antagonism by purines, pteridines and benzopteridines in human fibroblasts Biochem. Pharmacol. 30, 325 (1981)
05	H03	C-130	80751-65-1	410.74	(±)-Chloro-APB hydrobromide	(±)-SKF-82958 hydrobromide	Dopamine		Agonist	D1	Yes	3.7 mg/ml	Pfeiffer, et al., Dopaminergic activity of substituted 6-chloro-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepines. J. Med. Chem. 25, 352 (1982)
05	H04	C-197	147700-11-6	330.78	8-(3-Chlorostyryl)caffeine	CSC	Adenosine		Antagonist	A2A			Jacobson, et al., 8-(3-Chlorostyryl)caffeine (CSC) is a selective A2-adenosine antagonistin vitroandin vivo. FEBS Lett. 323, 141-144 (1993)
05	H05	C-271		247.30	CX 546	1-(1,4-Benzodioxan-6-ylcarbonyl)piperidine	Glutamate		Modulator	AMPA	Yes	0.3 mg/ml	Rogers, et al., Ampakines: Labelling with11C for PET distribution studies J. Labelled Compd. Radiopharm. 40, 645-647 (1997)
05	H06	D 1262	102783-36-8	887.49	P1,P4-Di(adenosine-5')tetraphosphate triammonium	Ap4A	Biochemistry		Inhibitor		Yes	50 mg/ml	Ogilvie, A., et al., Adenine dinucleotides: a novel class of signalling molecules. J. Auton. Pharmacol. 16, 325-328 (1996)
05	H07	D 2064		766.60	Dequalinium analog, C-14 linker	C14 Linker; DECA-14; Quinolinium	Phosphorylation	Enzyme	Inhibitor	PKC-alpha			Sullivan, R.M., ,Mol. Pharmacol. 58, 729 (2000)
05	H08	D 3648	10465-78-8	172.19	N,N,N',N'-Tetramethylazodicarboxamide	Azodicarboxylic acid bis(dimethylamide); diamide	Cell Stress		Modulator	Thiols			Kosower, N.S., et al.,Biochem. Biophys. Res. Comm. 37, 593 (1969)
05	H09	D 4434	22560-50-5	288.86	Clodronic acid	Cl2MDP; Clodronic acid disodium magnesium salt; DMDP	Cytoskeleton and ECM	Enzyme	Inhibitor	MMP1 / collagenase			Van Rooijen, N.,J. Immunol. Meth. 124, 1 (1989)
05	H10	D 5439	6956-96-3	218.21	2,3-Dimethoxy-1,4-naphthoquinone	DMNQ	Cell Stress		Modulator				Dypbukt, J.M., Different prooxidant levels stimulate growth, trigger apoptosis, or produce necrosis of insulin-secreting RINm5F cells. J. Biol. Chem. 269, 30553 (1994)
05	H11	D 5891	54-77-3	318.20	1,1-Dimethyl-4-phenyl-piperazinium iodide	DMPP	Cholinergic		Agonist		Yes	21 mg/ml	Vizi, E.S., and Lendvai, B., Modulatory role of presynaptic nicotinic receptors in synaptic and non-synaptic chemical communication in the central nervous system. Brain Res. Rev. 30, 219-235 (1999)
06	A02	D 5919	93076-89-2	459.59	Diacylglycerol kinase inhibitor I	R 59022	Phosphorylation	Enzyme	Inhibitor	Diacylglycerol kinase	Insoluble		de Chaffoy de Courcelles, D., et al., R59022, a diacylglycerol kinase inhibitor. Its effect on diacylglycerol and thrombin-induced C kinase activation in the intact platelet. J. Biol. Chem. 260, 15762 (1985)
06	A03	D 7644	3737--09--5	339.48	Disopyramide	alpha-Diisopropylaminoethyl-alpha-phenylpyridine-2-acetamide	Na+ Channel		Blocker				Nakagawa, T., et al., Br J Clin Pharmacol. 2003 Dec; 56(6):664-9
06	A04	D 8065	151606-30-3	168.15	Dephostatin	2-(N-methyl-N-nitroso)hydroquinone	Phosphorylation	Enzyme	Inhibitor	CD45 Tyrosine Kinase	Insoluble		Imoto, M., et al., Dephostatin, a novel protein tyrosine phosphatase inhibitor produced byStreptomyces. I. Taxonomy, isolation and characterization. Vitamin E: A Comprehensive Treatise 46, 1342 (1993)
06	A05	D 9035	364-98-7	230.67	Diazoxide		K+ Channel		Activator	ATP-sensitive	Insoluble		Grimmsmann, T., et al.,Br. J. Pharmacol. 123, 781 (1998)
06	A06	D 9891	24390-14-5	480.91	Doxycycline hydrochloride		Antibiotic			Protein synthesis			Duivenvoorden, W.C., et al., Cancer Res. 2002 Mar 15;62(6):1588-91
06	A07	D-042	18426-17-0	374.28	R(-)-N-Allylnorapomorphine hydrobromide		Dopamine		Agonist		Yes	0.29 mg/ml	Hensiak, et al., N-Allylnorapomorphine. J. Med. Chem. 8, 557 (1965)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
06	A08	D-104	1952-15-4	451.35	4-DAMP methiodide	4-Diphenylacetoxy-N-methylpiperidine methiodide	Cholinergic		Antagonist	M3	Yes	3.0 mg/ml	Cembala, T.M., et al., Interaction of neuromuscular blocking drugs with recombinant human m1-m5 muscarinic receptors expressed in Chinese hamster ovary cells Br. J. Pharmacol. 125, 1088-1094 (1998)
06	A09	D-132	74885-25-9	403.48	N,N-Dipropyl-5-carboxamidotryptamine maleate		Serotonin		Agonist	5-HT1A	Yes		Schoeffter, P., Hoyer, D., Centrally acting hypotensive agents with affinity for 5-HT1Abinding sites inhibit forskolin-stimulated adenylate cyclase activity in calf hippocampus Br. J. Pharmacol. 95, 975 (1988)
06	A10	D-155	24730-10-7	707.85	Dihydroergocristine methanesulfonate		Dopamine		Agonist		Yes	10 mg/ml	Drago, et al. Pharmacol Biochem Behav. 1988;30:961-965.
06	A11	E 1279	77671-31-9	248.31	Enoximone	1,3-Dihydro-4-methyl-5-[4-methylthiobenzoyl]-2H-imidazol-2-one	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III			Abdel-aleem, S., et al., Effects of phosphodiesterase inhibitors on glucose utilization in isolated cardiac myocytes Mol. Cell Biochem. 180, 129-135 (1998)
06	B02	D 6035	22059-60-5	437.48	Disopyramide phosphate		K+ Channel		Modulator				Hanada, E., et al., J Pharm Pharmacol. 2003 Jul;55(7):995-1002
06	B03	D 7802	486-66-8	254.24	Daidzein	7-Hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one	Cell Cycle	Enzyme	Inhibitor	Aldehyde dehydrogenase			Sargeant, P., et al., ADP- and thapsigargin-evoked Ca2+ entry and protein-tyrosine phosphorylation are inhibited by the tyrosine kinase inhibitors genistein and methyl-25-dihydroxycinnamate in fura-2-loaded human platelets. J. Biol. Chem. 268, 18151-18156 (1993)
06	B04	D 8190	1166-01-4	425.11	3',4'-Dichlorobenzamil	L-594,881	Ion Pump		Inhibitor	Na+/Ca2+ exchanger	Insoluble		Ponte, C.G. et al.,Eur. J. Pharmacol. 391, 11-20 (2001)
06	B05	D 9128	102-32-9	168.15	3,4-Dihydroxyphenylacetic acid	DOPAC	Dopamine		Metabolite		Yes		Dluzen, D.E., Anderson, L.I., The effects of nicotine on dopamine and DOPAC output from rat striatal tissue. Eur. J. Pharmacol. 341, 23 (1998)
06	B06	D-002	73304-33-3	260.13	6,7-ADTN hydrobromide	(±)-2-Amino-6,7-dihydroxy-1,2,3,4-tetrahydro-naphthalene hydrobromide	Dopamine		Agonist		Yes	>7.3 mg/ml	List, et al., Striatal binding of 2-amino-6,7-[3H]-dihydroxy-1234-tetrahydronaphthalene to two dopaminergic sites distinguished by their low and high affinity for neuroleptics. J. Neurosci. 2, 895 (1982)
06	B07	D-044	15180-02-6	308.34	Amfonelic acid	7-Benzyl-1-ethyl-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid	Dopamine		Modulator		Slighty Soluble		Juorio, A.V, The effects of amfonelic acid and some other central stimulants on mouse striatal tyramine dopamine and homovanillic acid Br. J. Pharmacol. 77, 511 (1982)
06	B08	D-108	31542-63-9	250.30	1,3-Dipropyl-7-methylxanthine		Adenosine		Antagonist	A2			Ukena, et al., Analogs of caffeine: Antagonists with selectivity for A2adenosine receptors. Life Sci. 39, 743 (1986)
06	B09	D-133	25983-13-5	231.04	6,7-Dichloroquinoxaline-2,3-dione	DCQX	Glutamate		Antagonist	NMDA-glycine			Ogita, K., and Yoneda, Y., 6,7-Dichloroquinoxaline-2,3-dione is a competitive antagonist specific to strychnine-insensitive [3H]glycine binding sites on the N-methyl-D-aspartate receptor complex. J. Neurochem. 54, 699-702 (1990)
06	B10	D1920-6	56-06-4	126.12	2,6-Diamino-4-pyrimidinone	DAHP; 2,4-Diamino-6-hydroxypyrimidine	Phosphorylation	Enzyme	Inhibitor	GTP cyclohydrolase I			
06	B11	E 1383	33419-42-0	588.57	Etoposide	Lastet	Apoptosis	Enzyme	Inhibitor	Topo II			Chow, K.C., and Ross, W.E., Topoisomerase-specific drug sensitivity in relation to cell cycle progression Mol. Cell. Biol. 7, 3119-3123 (1987)
06	C02	D 6140	64-73-3	501.32	Demeclocycline hydrochloride	7-chloro-6-demethyltetracycline hydrochloride	Antibiotic			Protein synthesis			Jirji, M.R., et al., Br J Pharmacol. 1991 Oct;104(2):550-3
06	C03	D 7814		275.31	Dubinidine		Anticonvulsant						Bessonova, et al.,Chem. Nat. Cpds. 5, 626 (1971)
06	C04	D 8296	6736-58-9	252.23	3-deazaadenosine	4-Amino-1-(beta-D-ribofuranosyl)-1H-imidazo(4,5)-pyridine	Immune System		Inhibitor		Yes	10 mg/ml	Jurgensen, C.H., et al.,J. Immunol. 144, 653 (1990)
06	C05	D 9175	14663-23-1	336.24	Dantrolene sodium	1-([5-(p-Nitrophenyl)furfurylidene]amino) hydantoin	Intracellular Calcium		Inhibitor	Release			Song, S.K., et al.,Proc. Natl. Acad. Sci. USA 90, 3933 (1993)
06	C06	D-003	641-36-1	317.82	R(-)-Apocodeine hydrochloride	R(-)-10-Methoxy-11-hydroxyaporphine hydrochloride	Dopamine		Agonist		Very Soluble		Gessa, et al., eds.,Apomorphine and Other Dopaminomimetics , New York, NY, USA (1981),Vols. 1 and 2,

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
06	C07	I 9532		311.30	Icilin	AG-3-5; 1-(2-Hydroxyphenyl)-4-(3-nitrophenyl)-1,2,3,6-tetrahydropyrimidin-2-one	Neurotransmission		Agonist	CMR1			McKemy, D.D. et al.,Nature 416, 52-58 (2002)
06	C08	D-122	57808-66-9	425.92	Domperidone		Dopamine		Antagonist	D2	Insoluble		Laduron, P.M., and Leysen, J.E., Domperidone, a specific in vitro dopamine antagonist, devoid of in vivo central dopaminergic activity Biochem. Pharmacol. 28, 2161-2165 (1979)
06	C09	D-134	14114-46-6	218.22	3,7-Dimethyl-l-propargylxanthine	DMPX	Adenosine		Antagonist	A2	Yes	1.1 mg/ml	Ukena, et al., Analogs of caffeine: Antagonists with selectivity for A2adenosine receptors. Life Sci. 39, 743-750 (1986)
06	C10	D-193	70052-12-9	218.63	DL-alpha-Difluoromethylornithine hydrochloride	DFMO hydrochloride	Angiogenesis	Enzyme	Inhibitor	ODC	Yes	>20 mg/ml	Jasnis, M.A., et al., Polyamines prevent DFMO-mediated inhibition of angiogenesis. Cancer Lett. 79, 39-43 (1994)
06	C11	E 1779		523.74	ET-18-OCH3	3,5,9-Trioxa-4-phosphaheptacosan-1-aminium	Lipid	Enzyme	Inhibitor	PIPLC	Yes	17 mg/ml	Jan, C.R., et al., Br J Pharmacol. 1999 Jul;127(6):1502-10
06	D02	D 6518	67-43-6	393.35	Diethylenetriaminepentaacetic acid	Pentetic acid; DTPA	Biochemistry	Enzyme	Inhibitor	Zn2+-dependent protease			Sciaudone, M.P., et al., Biol Trace Elem Res. 2004 Jul;99(1-3):219-32
06	D03	D 7909	67-32-5	345.96	Dicyclomine hydrochloride	2-(Diethylamino)ethyl 1-cyclohexylcyclohexane-1-carboxylate hydrochloride	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Eltze, M., Galvan, M., Involvement of muscarinic M2and M3, but not of M1and M4receptors in vagally stimulated contractions of rabbit bronchus/trachea Pulm. Pharmacol. 7, 109 (1994)
06	D04	G 5168	39025-23-5	312.46	(Z)-Gugglesterone	trans-4,17(20)-Pregnadiene-3,16-dione	Lipid Signaling		Antagonist	FRX			Urizar, N. L., et al, A natural product that lowers cholesterol as an antagonist ligand for the FXR. Science 296, 1703-1706 (2000)
06	D05	D 9190	60563-36-2	231.08	DCEBIO	5,6-Dichloro-1-ethyl-1,3-dihydro-2H-benzimidazol-2-one	K+ Channel		Activator	hlK1			Singh, S. et al.,J. Pharmacol. Exp. Ther. 296, 600-611 (2001)
06	D06	D-027	18426-20-5	331.85	R(-)-Propylnorapomorphine hydrochloride	R(-)-NPA hydrochloride	Dopamine		Agonist	D2	Moderately Soluble		Creese, et al., N-Propylnorapomorphine[3H]-: A novel agonist ligand for central dopamine receptors. Eur. J. Pharmacol. 56, 411 (1979)
06	D07	D-047	81633-77-4	291.78	(±)-SKF-38393 hydrochloride	(±)-1-Phenyl-2,3,4,5-tetrahydro-(1H)-3-benzazepine-7,8-diol hydrochloride	Dopamine		Antagonist	D1	Yes	10 mg/ml	Ongini, E., et al., Stimulation of dopamine D-1 receptors by SKF-38393 induces EEG desynchronization and behavioral arousal. Life Sci. 37, 2327 (1985)
06	D08	D126608	2078-54-8	178.28	Propofol		Cholinergic		Inhibitor	Muscarinic			Trapani, G., Curr Med Chem. 2000 Feb;7(2):249-71
06	D09	D-138	131123-76-7	258.06	5,7-Dichlorokynurenic acid	5,7-Dichloro-4-hydroxyquinoline-2-carboxylic acid	Glutamate		Antagonist	NMDA-glycine	Insoluble		Baron, et al., Activity of 5,7-dichlorokynurenic acid, a potent antagonist at the N-methyl-D-aspartate receptor-associated glycine binding site. Mol. Pharmacol. 38, 554 (1990)
06	D10	S 4443		277.33	SCH-28080	2-Methyl-8-(phenylmethoxy)imidazo[1,2-a]pyridine-3-acetonitrile	Ion Pump	Enzyme	Inhibitor	H+/K+-ATPase	Insoluble		Scott, C.K., and Sundell, E. ,Eur. J. Pharmacol. 112, 268-270 (1985)
06	D11	E 1896	35838-58-5	325.80	Etazolate hydrochloride	SQ 20,009; 1-Ethyl-4-[(1-methylethylidene)hydrazino]-1H-pyrazolo[3,4-b]pyridine-5-carboxylic acid ethyl ester hydrochloride	Adenosine	Enzyme	Inhibitor	Phosphodiesterase	Yes	>20 mg/ml	Bergman, M. R., Pharmacological modulation of myocardial tumor necrosis factor alpha production by phosphodiesterase inhibitors. J. Pharmacol. Exp. Ther. 279, 247 (1996)
06	E02	D 6899	15307-79-6	318.14	Diclofenac sodium	2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid sodium	Prostaglandin	Enzyme	Inhibitor	COX	Yes	50 mg/ml	Kobayashi, K., et al.,Biochem. Pharmacol. 63, 889-896 (2002)
06	E03	D 7910	51050-59-0	215.04	3,4-Dichloroisocoumarin	3,4-DCI	Biochemistry	Enzyme	Inhibitor	Serine Protease			Harper, J.W., et al.,Biochemistry 24, 1831 (1985)
06	E04	D 8399	17230-88-5	337.47	Danazol		Hormone		Inhibitor				Katsuki, Y, et al.,Toxicol. Lett. 98, 105 (1998)
06	E05	D 9305	73285-50-4	199.64	1-Deoxynojirimycin hydrochloride	DNM; 1,5-Dideoxy-1,5-imino-D-sorbitol hydrochloride	Biochemistry	Enzyme	Inhibitor	alpha-glucosidase			Neverova, I., et al.,Anal. Biochem. 222, 190 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
06	E06	D-029	77630-01-4	364.24	R(-)-2,10,11-Trihydroxyaporphine hybrobromide	R(-)-2-Hydroxyapomorphine hydrobromide	Dopamine		Agonist	D2	Yes		Neumeyer, et al., Aporphines. 39. Synthesisdopamine receptor bindingand pharmacological activity of (R)-(-)- and (S)-(+)-2-hydroxyapomorphine. J. Med. Chem. 25, 990 (1982)
06	E07	D-052	67469-78-7	523.50	GBR-12909 dihydrochloride	1-[2-[bis(4-Fluorophenyl)methoxy]ethyl]-4-[3-phenylpropyl]piperazine dihydrochloride	Dopamine		Inhibitor	Reuptake	Yes	2.0 mg/ml	Matecka, D., et al., Development of novel potent and selective dopamine reuptake inhibitors through alteration of the piperazine ring of 1-[2-(diphenylmethoxy)ethyl]-and 1-[2-[bis(4-fluorophenyl)methoxy]ethyl]-4-(3-phenylpropyl)piperazines (GBR 12935 and GBR 12909). J. Med. Chem. 39, 4704 (1996)
06	E08	D-127	125-73-5	407.47	Dextrorphan D-tartrate	(+)-3-Hydroxy-N-methylmorphinan D-tartrate	Glutamate		Antagonist	NMDA	Yes		Faden, et al., The role of excitatory amino acids and NMDA receptors in traumatic brain injury. Science 244, 798 (1989)
06	E09	D-142	130817-71-9	394.34	4-Diphenylacetoxy-N-(2-chloroethyl)piperidine hydrochloride	4-DAMP mustard hydrochloride	Cholinergic		Antagonist	Muscarinic			Ehlert, F.J., et al., The quaternary transformation products of N-(3-chloropropyl)-4-piperidinyl diphenylacetate and N-(2-chloroethyl)-4-piperidinyl diphenylacetate (4-DAMP mustard) have differential affinity for subtypes of the muscarinic receptor J. Pharmacol. Exp. Ther. 276, 405-410 (1996)
06	E10	D-206		264.80	S(-)-DS 121 hydrochloride	S(-)-3-(1-Propyl-3-piperidinyl)-benzonitrile hydrochloride	Dopamine		Antagonist	Autoreceptor	Yes	>10 mg/ml	Sonesson, et al., Substituted 3-phenylpiperidines: New centrally acting dopamine autoreceptor antagonists. J. Med. Chem. 36, 3188-3196 (1993)
06	E11	C 8863	213743-31-8	370.46	7-Cyclopentyl-5-(4-phenoxy)phenyl-7H-pyrrolo[2,3-d]pyrimidin-4-ylamine		Phosphorylation	Enzyme	Inhibitor	Ick			Arnold, L.D., et al., Pyrrolo[2,3-d]pyrimidines containing an extended 5-substituent as potent and selective inhibitors of Ick I. Bioorg. Med. Chem. Lett. 10, 2167-2170 (2000)
06	F02	D 6908	3102-56-5	301.52	DL-erythro-Dihydrosphingosine	DL-Sphinganine	Phosphorylation	Enzyme	Inhibitor	PKC / PLA2 / PLD			Archibald, Structural studies of lipid fibers formed by sphingosine. Biochim. Biophys. Acta 1166, 154-162 (1993)
06	F03	D 7938	195211-53-1	297.62	DBO-83	3-(6-Chloro-3-pyridazinyl)-3,8-diazabicyclo[3.2.1]octane dihydrochloride	Cholinergic		Agonist	Nicotinic	Yes	38 mg/ml	Ghelardini, C., Antinociceptive profile of the new nicotinic agonist DBO-83 Drug Dev. Res. 40, 251 (1997)
06	F04	D 8555	142720-24-9	436.62	N,N-Dihexyl-2-(4-fluorophenyl)indole-3-acetamide	FGIN-1-27	Benzodiazepine		Ligand	Mitochondria	Insoluble		Romeo, E., et al.,J. Pharmacol. Exp. Ther. 267, 462 (1993)
06	F05	D 9628	59-92-7	197.19	L-3,4-Dihydroxyphenylalanine	L-DOPA; Levodopa	Dopamine		Precursor				Tabar, et al., The effects on central dopamine function of chronic L-DOPA (methyl ester hydrochloride) treatment of mice Pharmacol. Biochem. Behav. 33, 139 (1989)
06	F06	D-030	77630-02-5	392.30	R(-)-2,10,11-Trihydroxy-N-propylnoraporphine hydrobromide	R(-)-TNPA HBr; R(-)-2-OH-NPA hydrobromide	Dopamine		Agonist	D2	Moderately Soluble		Neumeyer, et al., Aporphines 34. (-)-2,10,11-Trihydroxy-N-n-propylnoraporphine (TNPA) a novel dopaminergic aporphine alkaloid with anticonvulsant activity. J. Med. Chem. 24, 898 (1981)
06	F07	D-054	125941-87-9	324.25	R(+)-SCH-23390 hydrochloride	R(+)-7-Chloro-8-hydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride	Dopamine		Antagonist	D1	Yes	8.0 mg/ml	Iorio, et al., SCH 23390a potential benzazepine antipsychotic with unique interactions on dopaminergic systems J. Pharmacol. Exp. Ther. 226, 462-468 (1983)
06	F08	D-129	81166-47-4	399.32	R(+)-Butylindazone	R(+)-DIOA	Ion Pump		Inhibitor	K+/Cl- transport	Insoluble		Garay, et al., The significance of the relative effects of loop diuretics and anti-brain edema agents on the sodium-potassium-chloride cotransport system and the chloride/NaCO3-anion exchanger. Naunyn-Schmiedeberg's Arch. Pharmacol. 334, 202 (1986)
06	F09	D14204	646-25-3	172.32	1,10-Diaminodecane	DA10; Decamethylenediamine	Glutamate		Agonist (inverse)	NMDA-polyamine			Doyle, K.M., et al., Br J Pharmacol. 1998 May;124(2):386-90
06	F10	E 0137	304-84-7	223.27	Vanillic acid diethylamide	Ethamivan	Vanilloid		Agonist				Daiz, P.M., Pentylenetetrazol and ethamivan effects on brain serotonin metabolism. Life Sci. 9, 831 (1970)
06	F11	E 2375	316-42-7	553.58	Emetine dihydrochloride hydrate		Apoptosis		Activator				Galasinski W., et al., The substances of plant origin that inhibit protein biosynthesis. Acta Pol. Pharm. 53, 311-318 (1996)
06	G02	D 6940		209.72	R-(-)-Desmethyldeprenyl hydrochloride	L-Nordeprenyl hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-B	Yes	22 mg/ml	Tatton, W.G., et al., Neurology. 1996 Dec;47 (6 Suppl 3):S171-83

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
06	G03	D 8008	89560-01-0	336.56	7,7-Dimethyl-(5Z,8Z)-eicosadienoic acid	DEDA	Lipid	Enzyme	Inhibitor	PLA2 / Lipoxygenase			Welton, A.F., et al.,Prostaglandins 28, 649 (1984)
06	G04	D 8690		320.44	(R,R)-cis-Diethyl tetrahydro-2,8-chrysenediol	(5R, 11R)-5,11-Diethyl-5,6,11,12-tetrahydro-2,8-chrysenediol	Hormone		Antagonist	ER-beta	Slighty Soluble		Meyers, M.J. et al.,J. Med. Chem. 42, 2456-2468 (1999)
06	G05	D 9766	58-32-2	504.64	Dipyridamole		Adenosine		Inhibitor				Thorn, J.A., and Jarvis, S.M., Adenosine transporters Gen. Pharmacol. 27, 613-620 (1996)
06	G06	D-031	65273-66-7	318.26	Dipropyldopamine hydrobromide		Dopamine		Agonist				Cavero, et al., Peripheral dopamine receptors, potential targets for a new class of anti-hypertensive agents. Part II: Sites and mechanisms of action of dopamine receptor agonists. Life Sci. 31, 1059 (1982)
06	G07	D-101	82830-44-2	357.62	(±)-DOI hydrochloride	(±)-2,5-Dimethoxy-4-iodoamphetamine hydrochloride	Serotonin		Agonist	5-HT2/5-HT1C	Yes	10 mg/ml	Ichikawa, J., et al., DOI, a 5-HT2A/2Creceptor agonist, potentiates amphetamine-induced dopamine release in rat striatum Brain Res. 698, 204-208 (1995)
06	G08	D-130	120442-40-2	521.58	DPMA	PD-125944	Adenosine		Agonist	A2	Insoluble		Bridges, N6-[2-(3,5-Dimethoxyphenyl)-2-(2-methylphenyl)-ethyl]adenosine and its uronamide derivatives. Novel adenosine agonists with both high affinity and high selectivity for the adenosine A2receptor J. Med. Chem. 31, 1282 (1988)
06	G09	D-149	23255-54-1	356.26	Dihydro-beta-erythroidine hydrobromide	3beta-1,6-Didehydro-14,17-dihydro-3-methoxy-16(15H)-oxaerythrinan-15-one hydrobromide	Cholinergic		Antagonist	nAch	Yes	800 mg/ml	Rapier, C, et al., Nicotinic modulation of [3H]dopamine release from striatal synaptosomes: pharmacological characterization. J. Neurochem. 54, 937-945 (1990)
06	G10	E 0381	100992-60-7	344.84	Epibestatin hydrochloride	([2R,3R]-3-Amino-2-hydroxy-4-phenylbutanoyl)-L-leucine hydrochloride	Biochemistry	Enzyme	Inhibitor	Metalloprotease			
06	G11	E 2387	35920-39-9	308.30	5'-N-Ethylcarboxamidoadenosine	NECA	Adenosine		Agonist	A1/A2	Insoluble		Cusack, et al., 5'-N-Ethylcarboxamidoadenosine - a potent inhibitor of human platelet aggregation Br. J. Pharmacol. 72, 443 (1981)
06	H02	D 7505	366-18-7	156.19	2,2'-Bipyridyl	alpha,alpha'-Bipyridyl	Biochemistry	Enzyme	Inhibitor	Metalloprotease			
06	H03	D 8040	83913-05-7	465.44	(±) trans-U-50488 methanesulfonate	trans-(±)-3,4-Dichloro-N-methyl-N-[2-(1-pyrrolidinyl)-cyclohexyl]-benzeneacetamide methanesulfonate	Opioid		Agonist	kappa	Yes	50 mg/ml	Yu, X.C., et al., Anti-arrhythmic effect ofk-opioid receptor stimulation in the perfused rat heart: involvement of a cAMP-dependent pathway. J. Mol. Cell. Cardiol. 31, 1809-1819 (1999)
06	H04	S 5567		220.23	SP600125	Anthrapyrazolone; 1,9-Pyrazoloanthrone	Phosphorylation	Enzyme	Inhibitor	c-JNK	Insoluble		Bennett, B.L., et al, SP600125, an anthrapyrazolone inhibitor of Jun N-terminal kinase Proc. Natl. Acad. Sci. USA 98, 13681-13686 (2001)
06	H05	D 9815	77883-43-3	547.59	Doxazosin mesylate	1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-[4-(1,4-benzodioxan-2-yl)carpiperazin-1-yl)]-6,7-dimethoxyquinazoline mesylate	Adrenoceptor		Blocker	alpha1			Conley, R.K. et al.,Br. J. Pharmacol. 133, 61-72 (2001)
06	H06	D-033	55528-07-9	397.99	(+)-Butaclamol hydrochloride		Dopamine		Antagonist		Yes	0.25 mg/ml	Lippman, et al., Effect of butaclamol and its enantiomers upon striatal homovanillic acid and adenyl cyclase of olfactory tubercle in rats. Life Sci. 16, 213-224 (1975)
06	H07	D-103	39226-94-3	226.53	(±)-2,3-Dichloro-alpha-methylbenzylamine hydrochloride	DCMB hydrochloride; LY-78335	Neurotransmission	Enzyme	Inhibitor	PNMT	Yes		Fuller, R.W., Lowering of epinephrine concentration in rat brain by 2,3-dichloro-a-methylbenzylamine, an inhibitor of norepinephrine N-methyltransferase. Biochem. Pharmacol. 26, 2087 (1977)
06	H08	D-131	7659-29-2	200.11	3,5-Dinitrocatechol	OR-486	Neurotransmission	Enzyme	Inhibitor	COMT	Slighty Soluble	0.17 mg/ml	Nissinen, et al., Inhibition of catechol-O-methyltransferase activity by two novel disubstituted catechols in the rat Eur. J. Pharmacol. 153, 263 (1988)
06	H09	D-153	82864-02-6	357.62	(R)-(-)-DOI hydrochloride	(-)-2,5-Dimethoxy-4-iodoamphetamine hydrochloride	Serotonin		Agonist	5-HT2	Yes		Johnson, et al., [125I]-2-(2,5-Dimethoxy-4-iodophenyl)aminoethane ([125I]-2C-I) as a label for the 5-HT2receptor in rat frontal cortex. Pharmacol. Biochem. Behav. 35, 211 (1989)
06	H10	E 0516	41340-25-4	287.36	Etodolac	1,8-Diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indole-1-acetic acid	Prostaglandin	Enzyme	Inhibitor	COX			Giuliano, F., et al., Cyclooxygenase selectivity of non-steroid anti-inflammatory drugs in humans:ex vivoevaluation. Eur. J. Pharmacol. 426, 95-103 (2001)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
06	H11	E 3132	66701-25-5	357.41	E-64	L-trans-3-Carboxyoxiran-2-carbonyl-L-leucylagmatine	Biochemistry	Enzyme	Inhibitor	Cysteine protease			Beynon, R.J. and Bond, J.S., ed.,Proteolytic Enzymes: A Practical Approach , New York, NY (1989), 244
07	A02	S 3567	264218-23-7	359.73	SB 415286	3-[(3-Chloro-4-hydroxyphenyl)amino]-4-(2-nitrophenyl)-1H-pyrrol-2,5-dione	Phosphorylation	Enzyme	Inhibitor	GSK-3	Insoluble		Coughlan, M.P., et al, Selective small molecule inhibitors of glycogen synthase kinase-3 modulate glycogen metabolism and gene transcription. Chem. Biol. 10, 793-803 (2000)
07	A03	E 3770	163702-18-9	550.77	rac-2-Ethoxy-3-octadecanamido-1-propylphosphocholine		Phosphorylation	Enzyme	Inhibitor	PKC			Marx, M.H., et al.,J. Med. Chem. 31, 858 (1988)
07	A04	E 8375	57-47-6	275.35	(-)-Physostigmine	Eserine	Cholinergic	Enzyme	Inhibitor	Cholinesterase			Johansson, M., and Nordberg, A.,, Pharmacokinetic studies of cholinesterase inhibitors Acta Neurol. Scand 149, 22-125 (1993)
07	A05	E-101	97612-24-3	377.31	S-(-)-Eticlopride hydrochloride	FLB 131	Dopamine		Antagonist	D2	Yes	12 mg/ml	Hall, et al., Somein vitroreceptor binding properties of [3H]-eticlopride, a novel substituted benzamide selective for dopamine D2receptors in the rat brain. Eur. J. Pharmacol. 111, 191-199 (1985)
07	A06	F 1678		345.80	R-(-)-Fluoxetine hydrochloride		Serotonin		Inhibitor	Reuptake	Yes	20 mg/ml	Wong, D.T. et al.,Neuropsychopharmacology 5, 43-47 (1991)
07	A07	F 6020	45962-28-9	360.84	Fenofibrate	2-[4-(4-Chlorobenzoyl)phenoxy]-2-methylpropanoic acid 1-methyl-ethyl ester	Transcription		Agonist	PPAR-alpha			Chaput, et al., Fenofibrate protects lipoproteins from lipid peroxidation: synergistic interaction with alpha-tocopherol. Lipids 34, 497-502 (1999)
07	A08	F 6886	66575-29-9	410.51	Forskolin		Cyclic Nucleotides	Enzyme	Activator	Adenylate cyclase			Huang, R.D., Inhibition of forskolin-activated adenylate cyclase by ethanol and other solvents. J. Cyclic Nucl. Res. 8, 385 (1982)
07	A09	F 9427		501.67	Fexofenadine hydrochloride	Terfenidine carboxylate, MDL 16455	Histamine		Antagonist	H1			Mattila, M.J. et al.,Eur. J. Clin. Pharmacol. 55, 85-93 (1999)
07	A10	D 8816		268.36	N-(3,3-Diphenylpropyl)glycinamide	N20C	Glutamate		Blocker	NMDA			Planells-Cases, R. et al.,J. Pharmacol. Exp. Ther. 302, 163-173 (2002)
07	A11	G 4788	1072-13-5	398.19	Guanidinoethyl disulfide dihydrobromide	GED dihydrobromide	Nitric Oxide	Enzyme	Inhibitor	iNOS			Szabo, C., et al.,Br. J. Pharmacol. 118, 1659 (1996)
07	B02	E 3149	1071-37-0	185.09	S-Ethylisothiourea hydrobromide	2-Ethyl-2-thiopseudourea hydrobromide	Nitric Oxide	Enzyme	Inhibitor	NOS			Garvey, E.P., et al.,J. Biol. Chem. 269, 26669 (1994)
07	B03	E 3876	128-53-0	125.13	N-Ethylmaleimide	NEM	Biochemistry	Enzyme	Inhibitor	Isocitrate dehydrogenase			Riordan, J.F. and Vallee, B.L., Reagent for the modification of sulfhydryl groups in proteins Meth. Enzymol. 25, 449-456 (1972)
07	B04	N 3911	184241-44-9	434.20	NBI 27914	5-Chloro-4-(N-(cyclopropyl)methyl-N-propylamino)-2-methyl-6-(2,4,6-trichlorophenyl)-aminopyridine	Neurotransmission		Antagonist	CRF1	Insoluble		Maciejewski, L.D. et al.,Endocrinology 141(2), 498-504 (2000)
07	B05	E-111		361.40	(S)-ENBA	PD-126280; ((2S)-N6-[2-endo-Norbornyl]adenosine	Adenosine		Agonist	A1	Insoluble	0.01 mg/ml	Trivedi et al., N6-Bicycloalkyladenosines with unusually high potency and selectivity for the adenosine A1receptor. J. Med. Chem. 32, 8 (1989)
07	B06	F 2802	61718-82-9	434.42	Fluvoxamine maleate	(E)-5-Methoxy-1-[4-(trifluoromethyl)phenyl]-1-pentanone-O-(2-aminoethyl)oxime maleate	Serotonin		Inhibitor	Reuptake	Yes		Inazu, M., et al,Neurochem. Int. 39, 39 (2001)
07	B07	F 6145	5053--08-7	296.80	Fenspiride hydrochloride	8-(2-Phenylethyl)-1-oxa-3,8-diazaspiro[4.5]decan-2-one hydrochloride	Adrenoceptor		Antagonist	alpha			Feray, J.C., et al., Fenspiride and membrane transduction signals in rat alveolar macrophages Biochem. Pharmacol. 54, 293 (1997)
07	B08	F 6889		337.45	Famotidine	N'-(Aminosulfonyl)-3-([2-(diaminomethyleneamino)-4-thiazolyl]methylthio)propanamidine	Histamine		Antagonist	H2			Mikawa, et al., The effects of cimetidine, ranitidine, and famotidine on human neutrophil functions. Anesth. Analg. 89, 218 (1999)
07	B09	F 9552	73573-87-2	804.90	Formoterol	(R*,R*)-N-[2-hydroxy-5-[1-hydroxy-2-[[2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]formamide	Adrenoceptor		Agonist	beta2	Insoluble		Whelan, C.J. et al.,Br. J. Pharmacol. 110, 613-618 (1993)
07	B10	G 0639	10238-21-8	494.01	Glibenclamide	Glyburide	K+ Channel		Blocker	ATP-dependent	Insoluble		Chrabi, A. and Horisberger, J.D,J. Pharmacol. Exp. Ther. 290, 341 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
07	B11	G 5668		495.58	GW1929	N-(2-Benzoylphenyl)-O-[2-(methyl-2-pyridinylamino)ethyl]-L-tyrosine; N-(2-Benzoyl phenyl)-L-tyrosine	Transcription		Agonist	PPAR-gamma			Brown, K.K., et al, A novel N-aryl tyrosine activator of peroxisome proliferator-activated receptor-gamma reverses the diabetic phenotype of the Zucker diabetic fatty rat Diabetes 90, 1415-1424 (1999)
07	C02	E 3250		428.55	(-)-Ephedrine hemisulfate		Adrenoceptor		Activator				Persky, A.M. et al., Br J Clin Pharmacol. 2004;57:552-562
07	C03	E 4375	51-42-3	333.30	(-)-Epinephrine bitartrate	Adrenaline bitartrate	Adrenoceptor		Agonist		Yes		Levitzki, A., Science. 1988 Aug 12;241(4867):800-6
07	C04	E 8875	50-28-2	272.39	beta-Estradiol	Dihydrofolliculin	Hormone			Estrogen			Beato, M., Gene regulation by steroid hormones. Cell 56, 335-344 (1989)
07	C05	E-114	51350-19-7	313.83	erythro-9-(2-Hydroxy-3-nonyl)adenine hydrochloride	EHNA hydrochloride	Adenosine	Enzyme	Inhibitor	Adenosine deaminase	Yes	2.0 mg/ml	Schaeffer, et al., Enzyme inhibitors. 26. Bridging hydrophobic and hydrophilic regions on adenosine deaminase with some 9-(2-hydroxy-3-alkyl) adenines. J. Med. Chem. 17, 6 (1974)
07	C06	F 2927		327.36	1-(4-Fluorobenzyl)-5-methoxy-2-methylindole-3-acetic acid		Multi-Drug Resistance		Inhibitor	MRP1	Yes	min. 18 mg/ml	Maguire, A.R., Synthesis of indomethacin analogues for evaluation as modulators of MRP activity. Bioorg. Med. Chem. 9, 745 (2001)
07	C07	F 6300	78755-81-4	303.30	Flumazenil	Ro 15-1788	Benzodiazepine		Antagonist				Bertz, R.J., et al., Effect of neuroactive steroids on [3H]flumazenil binding to the GABAAreceptor complex in vitro. Neuropharmacology 34, 1169-1175 (1995)
07	C08	F 7927	156547-56-7	506.56	FSCPX	8-Cyclopentyl-N3-[3-(4-(fluorosulfonyl)benzoyloxy)propyl]-N1-propylxanthine	Adenosine		Antagonist	A1	Insoluble		van Muijlwijk-Koezen,Bioorg. Med. Chem. Lett. 11, 815 (2001)
07	C09	F 9677	72509-76-3	384.26	Felodipine	Plendil	Ca2+ Channel		Blocker	L-type	Insoluble		Angus, J., et al., Quantitative analysis of vascular to cardiac selectivity of L- and T-type voltage-operated calcium channel antagonists in human tissues. Clin. Exp. Obstet. Gynecol. 27, 1019 (2000)
07	C10	G 0668		395.47	GW2974	N4-(1-Benzyl-1H-indazol-5-yl)-N6,N6-dimethyl-pyrido[3,4-d]pyrimidine4-4,6-diamine	Phosphorylation	Enzyme	Inhibitor	EGFR / ErbB-2			Rusnack, D. W., et al., The characterization of novel, dual ErbB-2/EGFR, tyrosine kinase inhibitors: potential therapy for cancer. CRC Handbook of Microbiology 61, 7196 (2001)
07	C11	G 6416		520.95	GW5074	3-(3, 5-Dibromo-4-hydroxybenzylidine-5-iodo-1,3-dihydro-indol-2-one)	Phosphorylation	Enzyme	Inhibitor	Raf1 kinase			Lackey, K., et al, The discovery of potent cRaf1 kinase inhibitors. Bioorg. Med. Chem. Lett. 10, 223 (2000)
07	D02	E 3256	116-38-1	201.70	Edrophonium chloride	Ethyl(m-hydroxyphenyl)dimethylammonium chloride	Cholinergic	Enzyme	Inhibitor	Acetylcholinesterase			Deschamps, A., et al., J Pharmacol Exp Ther. 2002 Jan;300(1):112-7
07	D03	E 4378	67-42-5	380.35	Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid	EGTA; Egtazic acid	Biochemistry	Enzyme	Inhibitor	Carboxypeptidase B	Yes		Schmid, R.W., Reilly, C.N.,Anal. Chem. 29, 264 (1957)
07	D04	E 9750	53-16-7	270.37	Estrone	Folliculin	Hormone			Estrogen			Abplanalp, W., Evidence for interference in estradiol-17binactivation to estrone by oxidized low-density lipoprotein and selected lipid peroxidation products. J. Lab. Clin. Med. 134, 253 (1999)
07	D05	E-140		609.73	Ergocristine	12'-Hydroxy-2'-(1-methyl-ethyl)-5'-(phenylmethyl)ergotaman-3'6'18-trione	Dopamine		Agonist		Insoluble		Choudhary, M.S., Differential ergoline and ergopeptine binding to 5-hydroxytryptamine2A receptors: ergolines require an aromatic residue at position 340 for high affinity binding. Mol. Pharmacol. 47, 450 (1995)
07	D06	F 3764	85666-17-7	275.24	Furegrelate sodium	5-(3-Pyridinylmethyl)benzofurancarboxylic acid sodium	Phosphorylation	Enzyme	Inhibitor	Thromboxane synthase			Gorman, R.R., et al.,Prostaglandins 26, 325 (1983)
07	D07	F 6426		307.35	Foliosidine		Anticonvulsant						Pastukhova, et al.,Chem. Nat. Cpds. 1, 27 (1965)
07	D08	F 8175		358.55	Farnesylthiosalicylic acid	FTS	G protein	Enzyme	Antagonist	Ras			Karussis, D. et al., J Neuroimmunol. 2001;120:1-9.
07	D09	F-100	1841-19-6	475.59	Fluspirilene	R 6218	Dopamine		Antagonist	D2/D1	Insoluble		Galizzi, J.P., Neuroleptics of the diphenylbutylpiperidine series are potent calcium channel inhibitors Proc. Natl. Acad. Sci. USA 83, 7513 (1986)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
07	D10	G 1043	29520-14-7	282.56	Guanfacine hydrochloride	N-(aminoiminomethyl)-2,6-dichloro-benzeneacetamide hydrochloride	Adrenoceptor		Agonist	alpha2	Yes	12 mg/ml @ 60°C	Taylor, F.B and Russo, J, Comparying guanfacine and dextroamphetamine for the treatment of adult attention deficit/hyperactivity disorder J. Clin. Psychopharmacol. 21, 223-228 (2001)
07	D11	G 6649	446-72-0	270.24	Genistein	5,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase			Akiyama, T., et al., Genistein, a specific inhibitor of tyrosine-specific protein kinases J. Biol. Chem. 262, 5592-5595 (1987)
07	E02	E 3263	89197-00-2	252.75	Efaroxan hydrochloride	RX 821037A	Imidazoline		Antagonist	I1	Yes	300 mg/ml	Berridge, T.L., et al., Selectivity profile of the alpha 2-adrenoceptor antagonist efaroxan in relation to plasma glucose and insulin levels in the rat Eur. J. Pharmacol. 213, 205-212 (1992)
07	E03	E 4642	329-63-5	219.67	(±)-Epinephrine hydrochloride	(±)-Adrenalin hydrochloride	Adrenoceptor		Agonist				Van Bockstaele E.J>, Brain Res Bull. 1998 Sep 1;47(1):1-15
07	E04	E-002	69954-48-9	226.24	Methyl beta-carboline-3-carboxylate	beta-CCM	Benzodiazepine		Agonist				Cain, et al.,b-Carbolines: Synthesis and neurochemical and pharmacological actions on brain benzodiazepine receptors. J. Med. Chem. 25, 1081 (1982)
07	E05	F 0778	25451-15-4	238.25	Felbamate	2-Phenyl-1,3-propanediol dicarbamate	Glutamate		Antagonist				Domenici, M.R., et al., Effects of felbamate, kynurenic acid derivatives and NMDA antagonists onin vitrokainate-induced epileptiform activity. Life Sci. 58, 391-396 (1996)
07	E06	F 4303		592.12	Fiduxosin hydrochloride	(3-[4-((3alphaR,9betaR)-cis-9-methoxy-1,2,3,3a,4,9b-hexahydro-[1]-benzopyrano[3,4-c]pyrrol-2-yl)butyl]-8-phenyl-pyrazino-[2',3':4,5]thi-eno [3,2-d]pyrimidine-2,4(1H,3H)-dione) hydrochloride	Adrenoceptor		Antagonist	alpha1	Insoluble		Hancock, A. et al.,J. Pharmacol. Exp. Ther. 300, 478-486 (2002)
07	E07	F 6513	536-69-6	179.22	Fusaric acid	5-Butyl-2-pyridinecarboxylic acid	Dopamine	Enzyme	Inhibitor	Dopamine beta-hydroxylase			Bencsics, A., et al., Dopamine, as well as norepinephrine, is a link between noradrenergic nerve terminals and splenocytes Brain Res. 761, 236-243 (1997)
07	E08	F 8257	30484-77-6	477.43	Flunarizine dihydrochloride	1-[bis(4-fluorophenyl)methyl]-4-(3-phenyl-2-propenyl)-piperazine dihydrochloride	Ion Pump		Blocker	Na+/Ca2+ channel			Ayajiki, K.,Eur. J. Pharmacol. 329, 49 (1997)
07	E09	F-114	2709-56-0	507.45	cis-(Z)-Flupenthixol dihydrochloride	(Z)-4-[3-[2-(Trifluoromethyl)-9H-thioxanthen-9-ylidene]propyl]-1-piperazine-ethanol dihydrochloride	Dopamine		Antagonist		Yes		Nielsen, et al., Prolonged neuroleptic effect ofa-flupenthixol decanoate in oil. Acta Pharmacol. Toxicol. 32, 363-376 (1973)
07	E10	G 2128	138-15-8	183.59	L-Glutamic acid hydrochloride	S(+)-1-Aminopropane-1,3-dicarboxylic acid hydrochloride	Glutamate		Agonist				Pin, J.-P., Dulvoisin, R.,Neuropharmacology 34, 1 (1995)
07	E11	G 6793		502.77	GW7647	2-(4-(2-(1-Cyclohexanebutyl)-3-cyclohexylureido)ethyl)phenylthio)-2-methylpropionic acid	Transcription		Agonist	PPAR-alpha	Insoluble		Brown, P.J., et al, Identification of a subtype selective human PPARaagonist through parallel-array synthesis. Bioorg. Med. Chem. Lett. 11, 1225-1227 (2001)
07	F02	E 3380	519-23-3	246.31	Ellipticine	5,11-Dimethyl-6H-pyrido[4,3-b]carbazole	Cell Cycle	Enzyme	Inhibitor	CYP1A1 / TopoII			Sailer, B.L., et al., Monitoring uptake of ellipticine and its fluorescence lifetime in relation to the cell cycle phase by flow cytometry. Exp. Cell Res. 236, 259-267 (1997)
07	F03	E 7138	77-67-8	141.17	Ethosuximide	2-Ethyl-2-methylsuccinimide	Anticonvulsant						Leresche, N., et al.,J. Neurosci. 18, 4842 (1998)
07	F04	E-006	78538-74-6	225.25	N-Methyl-beta-carboline-3-carboxamide	FG-7142	GABA		Antagonist	GABA-A	Insoluble		Dorow, et al., Severe anxiety induced by FG-7142, ab-carboline ligand for benzodiazepine receptors. Lancet 2, 98-99 (1983)
07	F05	F 0881	751-94-0	538.71	Fusidic acid sodium	Fusidin	Cell Cycle		Inhibitor		Yes		Di Marco, R., et al., Amelioration of experimental allergic neuritis by sodium fusidate (fusidin): suppression of IFN-gamma and TNF-alpha and enhancement of IL-10. J. Autoimmun. 13, 187-195 (1999)
07	F06	F 4381	54-31-9	330.75	Furosemide		Ion Pump		Inhibitor	Na+,K+,Cl- cotransport	Yes		Zangen, A., et al.,Eur. J. Pharmacol. 361, 151 (1998)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
07	F07	F 6627	51-21-8	130.08	5-Fluorouracil	5-FU	Cell Cycle	Enzyme	Inhibitor	Thymidylate synthetase			Elstein, K.H., et al., Nucleoside-mediated mitigation of 5-fluorouracil-induced toxicity in synchronized murine erythroleukemic cells Toxicol. Appl. Pharmacol. 146, 29-39 (1997)
07	F08	F 8791	3094--09--5	246.20	5-fluoro-5'-deoxyuridine	5'dFUrd	DNA Metabolism		Inhibitor				Tanaka, Y., et al.,Cancer Res. 50, 4528 (1990)
07	F09	F-124	80288-49-9	260.25	Furafylline	3-(2-Furanylmethyl)-3,7-dihydro-1,8-dimethyl-1H-purine-2,6-dione	Biochemistry	Enzyme	Inhibitor	P450IA2	Insoluble		Segura, et al., Some pharmacokinetic characteristics of furafylline, a new 1,3,8-trisubstituted xanthine. J. Pharm. Pharmacol. 38, 615-618 (1986)
07	F10	G 2536	82410-32-0	255.24	Ganciclovir		Cell Cycle		Inhibitor	G2-M checkpoint			Halloran, P.J., and Fenton, R.G., Irreversible G2-M arrest and cytoskeletal reorganization induced by cytotoxic nucleoside analogues Cancer Res. 58, 3855-3865 (1998)
07	F11	G 7788	73477-53-9	189.17	alpha-Guanidinoglutaric acid	GGA	Nitric Oxide	Enzyme	Inhibitor	NOS			Mori, A., et al.,J. Neurochem. 35, 603 (1980)
07	G02	E 3520	60940-34-3	274.18	Ebselen	2-Phenyl-1,2-benzisoselenazol-3(2H)-one	Leukotriene	Enzyme	Inhibitor	Lipoxygenases / glutathione S-transferase			Noguchi, N., et al.,Biochim. Biophys. Acta 1213, 176 (1994)
07	G03	E 7649	145-73-3	186.17	Endothall	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	Phosphorylation	Enzyme	Inhibitor	PP2A			Li, Y.M. and Casida, J.E.,Proc. Natl. Acad. Sci. USA 89, 11867 (1992)
07	G04	E-007	82499-00-1	314.34	Methyl 6,7-dimethoxy-4-ethyl-beta-carboline-3-carboxylate	DMCM	Benzodiazepine		Agonist		Insoluble		Braestrup, et al., Interaction of convulsive ligands with benzodiazepine receptors. Science 216, 1241 (1982)
07	G05	F 1016	1944-12--3	384.27	Fenoterol hydrobromide	2-(3,5-Dihydroxyphenyl)-2-hydroxy-2'-(4-hydroxyphenyl)-1'-methyldiethylamine hydrobromide	Adrenoceptor		Agonist	beta2			Preuss, J.M., et al., The influence of animal age onb-adrenoceptor density and function in tracheal airway smooth muscle. Naunyn-Schmiedeberg's Arch. Pharmacol. 360, 171-178 (1999)
07	G06	F 4646	1132-68-9	183.18	p-Fluoro-L-phenylalanine	4-Fluoro-L-phenylalanine	Neurotransmission	Enzyme	Substrate	Tyrosine Hydroxylase			Sunkara, P.S., et al., Chromosome condensing ability of mitotic proteins diminished by the substitution of phenylalanine with parafluorophenylalanine Eur. J. Cell Biol. 23, 312-316 (1981)
07	G07	F 6777	54143-56-5	474.40	Flecainide acetate	N-(2-Piperidylmethyl)-2,5-bis-(2,2,2-trifluoroethoxy)benzamide acetate	Na+ Channel		Blocker				Somani, P,Clin. Pharmacol. Ther. 27, 464 (1980)
07	G08	F 8927		420.40	Flupirtine maleate	2-amino-6-[[(4-fluorophenyl)methyl]amino]-3-pyridinyl]-carbamic acid, ethyl ester maleate	Glutamate		Antagonist	NMDA	Insoluble		Muller, et al.,Mech. Ageing Dev. 116, 163-218 (2000)
07	G09	F-131	120934-96-5	347.42	FPL 64176	2,5-Dimethyl-4-[2-(phenylmethyl)benzoyl]-1H-pyrrole-3-carboxylic acid methyl ester	Ca2+ Channel		Activator	L-type			Rampe, et al., A new site for the activation of cardiac calcium channels defined by the nondihydropyridine FPL 64176 J. Pharmacol. Exp. Ther. 259, 982-987 (1991)
07	G10	G 3126	56-85-9	146.15	L-Glutamine	S(+)-Glutamic acid 5-amide	Glutamate		Agonist				McMahon, H.T., Nicholls, D.G.,J. Neurochem. 54, 373 (1990)
07	G11	G 8134	65-29-2	891.54	Gallamine triethiodide		Cholinergic		Antagonist	M2	Yes	100 mg/ml	Leppik, R.A., et al., Role of acidic amino acids in the allosteric modulation by gallamine of antagonist binding at the m2 muscarinic acetylcholine receptor. Mol. Pharmacol. 45, 983-990 (1994)
07	H02	E 3645	112989-01-2	522.71	rac-2-Ethoxy-3-hexadecanamido-1-propylphosphocholine		Phosphorylation	Enzyme	Inhibitor	PKC			Marx, M.H., et al.,J. Med. Chem. 31, 858 (1988)
07	H03	E 7881	518-82-1	270.24	Emodin		Phosphorylation	Enzyme	Inhibitor	p56lck TK			Kumar, et al., Emodin (3-methyl-1,6,8-trihydroxyanthraquinone) inhibits TNF-induced NF-kappaB activation, IkappaB degradation, and expression of cell surface adhesion proteins in human vascular endothelial cells. Oncogene 17, 913-918 (1998)
07	H04	E-100	104015-29-4	334.38	(-)-Eseroline fumarate		Cholinergic	Enzyme	Inhibitor	Cholinesterase	Yes		Furst, S. et al., Direct evidence that eseroline possesses morphine-like effects Eur. J. Pharmacol. 83, 232 (1982)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
07	H05	F 1553		345.80	S-(+)-Fluoxetine hydrochloride		Serotonin		Inhibitor	Reuptake	Yes	18 mg/ml	Wong, D.T. et al.,Neuropsychopharmacology 5, 43-47 (1991)
07	H06	F 4765	146-56-5	510.45	Fluphenazine dihydrochloride		Dopamine		Antagonist	D1/D2			Cai, G., Inverse agonist properties of dopaminergic antagonistsat the D (1A) dopamine receptor: uncoupline of the D (1A) dopamine receptor from G (s) protein Mol. Pharmacol. 56, 989 (1999)
07	H07	F 6800		386.68	Fenoldopam bromide	SKF-82526	Dopamine		Agonist	D1	Yes	4.75 mg/ml	Hahn, R.A., et al., Characterization of the peripheral and central effects of SK&F 82526a novel dopamine receptor agonist J. Pharmacol. Exp. Ther. 223, 305-313 (1982)
07	H08	F 9397	13311-84-7	276.22	Flutamide	2-Methyl-N-(4-nitro-3-[trifluoromethyl]phenyl)propanamide	Hormone		Inhibitor	Androgen			Zaccheo, T., et al.,Endocrinol. Relat. Cancer 6, 429 (1999)
07	H09	F-132	59333-67-4	345.80	Fluoxetine hydrochloride	Prozac; LY-110,140 hydrochloride	Serotonin		Inhibitor	Reuptake	Yes	4 mg/ml	Wong, D.T., et al., Prozac (fluoxetine, Lilly 110140), the first selective serotonin uptake inhibitor and an antidepressant drug: twenty years since its first publication. Life Sci. 57, 411-441 (1995)
07	H10	G 3416		699.61	Guanidinyl-naltrindole di-trifluoroacetate	GNTI di-trifluoroacetate	Opioid		Antagonist	kappa	Yes	30 mg/ml	Jones, R.M. and Portoghese, P.S.,Eur. J. Pharmacol. 396, 49-52 (2000)
07	H11	G 9659	67469-81-2	487.52	GBR-12935 dihydrochloride	1-[2-(Diphenylmethoxy)ethyl]-4-(3-phenylpropyl)-piperazine dihydrochloride	Dopamine		Inhibitor	Reuptake	Yes	20 mg/ml	Gordon, I., et al., [3H]GBR 12935 binding to human platelet membranes is sensitive to piperazine derivatives but not to dopamine uptake inhibitors. Life Sci. 55, 189-199 (1994)
08	A02	G-002	68547-97-7	163.61	Isoguvacine hydrochloride	1,2,3,6-Tetrahydro-4-pyridinecarboxylic acid hydrochloride	GABA		Agonist	GABA-A, GABA-C	Yes		Krogsgaard-Larsen, et al., Structure-activity studies on the inhibition of GABA binding to rat brain membranes by muscimol and related compounds. J. Neurochem. 30, 1377 (1978)
08	A03	G-120		295.34	GYKI 52895	1-(4-Aminophenyl)-4-methyl-7,8-methylenedioxy-3,4-dihydro-5H-2,3-benzodiazepine hydrochloride	Dopamine		Inhibitor	Reuptake			Horvath, K., et al., Pharmacological effects of GYKI 52895a new selective dopamine uptake inhibitor Eur. J. Pharmacol. 183, 1416 (1990)
08	A04	H 1377	67423-45-4	454.52	MHPG piperazine	MOPEG piperazine	Adrenoceptor		Metabolite				Wada, Y., et al., Variation of monoamines and their metabolite contents in the cerebrospinal fluid of conscious rats Jpn. J. Pharmacol. 78, 237-240 (1998)
08	A05	H 2775	4294-45-5	149.10	DL-threo-beta-hydroxyaspartic acid	threo-2-Amino-3-hydroxysuccinic acid	Glutamate		Inhibitor	Transport			Hirata, A., et al., AMPA receptor-mediated slow neuronal death in the rat spinal cord induced by long-term blockade of glutamate transporters with THA Brain Res. 771, 37-44 (1997)
08	A06	H 5752	68-96-2	330.47	17alpha-hydroxyprogesterone	17alpha-Hydroxy-4-pregnene-3,20-dione	Hormone		Metabolite	Progesterone			Linder, N., et al.,Arch. Dis. Child Fetal Neonatal Ed. 81, 175 (1999)
08	A07	H 8125	5934-29-2	191.62	L-Histidine hydrochloride	S(+)-alpha-Amino-1H-imidazole-4-propanoic acid hydrochloride	Histamine		Precursor				Fitzsimons, C.P., Histamine deficiency induces tissue-specific down-regulation of histamine H2 receptor expression in histidine decarboxylase knockout mice. FEBS Lett. 508, 245 (2001)
08	A08	H 9002	101-31-5	289.38	L-Hyoscyamine	[3(S)-endo]-alpha-(Hydroxymethyl)benzeneacetic acid 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester	Cholinergic		Antagonist				Palmer, L, et al., A method using L-hyoscyamine for the study of muscarinic acetylcholine receptor bindingin vivo Pharmacol. Toxicol. 60, 54-57 (1987)
08	A09	H 9882	5351-23-5	152.15	4-Hydroxybenzhydrazide	4-Hydroxybenzoylhydrazine	Biochemistry	Enzyme	Inhibitor				
08	A10	H-168	82730-72-1	328.30	R-(+)-7-Hydroxy-DPAT hydrobromide	R(+)-7-Hydroxy-dipropylaminotetralin hydrobromide	Dopamine		Agonist	D3	Yes	>100 mg/ml	Baldessarini, R., Isomeric selectivity at dopamine D receptors Eur. J. Pharmacol. 239, 269 (1993)
08	A11	I 1149	144-48-9	184.96	Iodoacetamide		Biochemistry	Enzyme	Inhibitor		Yes	0.5 @ 20°C	Wu, Y., et al., FEBS Lett. 1998 Nov 27;440(1-2):111-5
08	B02	G-007	498-96-4	163.61	Guvacine hydrochloride		GABA		Inhibitor	Uptake	Yes		Johnston, et al., Betel nut constituents as inhibitors of gamma-aminobutyric acid uptake. Nature 258, 6228 (1975)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
08	B03	G-133	126766-32-3	530.41	GR-89696 fumarate	4-[(3,4-Dichlorophenyl)acetyl]-3-(1-pyrrolidinylmethyl)-1-piperazinecarboxylic acid methyl ester fumarate	Opioid		Agonist	kappa	Yes	8.5 mg/ml	Birch, et al., Neuroprotective actions of GR 89696 a highly potent and selectivek-opioid recetptor agonist Br. J. Pharmacol. 103, 1819-1823 (1991)
08	B04	H 1384	300-84-5	109.15	Hypotaurine	2-Aminoethanesulfinic acid	Cell Stress		Inhibitor	Antioxidant	Yes	100 mg/ml	Okamoto, K., and Sakai, Y., Inhibitory actions of taurocyamine, hypotaurine, homotaurine, taurine and GABA on spike discharges of Purkinje cells Brain Res. 206, 371-386 (1981)
08	B05	H 3132	645-33-0	203.67	4-Methoxy-3-hydroxyphenethylamine hydrochloride	4-O-Methyldopamine hydrochloride	Dopamine		Metabolite				Shen, R.S., Inhibition of dihydropteridine reductase by catecholamines and related compounds. Biochim. Biophys. Acta 743, 129 (1983)
08	B06	H 6036		386.45	1,3,5-tris(4-hydroxyphenyl)-4-propyl-1H-pyrazole	PPT	Hormone		Agonist	ER-alpha	Insoluble		Stauffer, et al.,J. Med. Chem. 43, 4934 (2000)
08	B07	H 8250	9024-61-7	328.30	(±)-8-Hydroxy-DPAT hydrobromide	(±)-8-Hydroxy-dipropylaminotetralin hydrobromide	Serotonin		Agonist	5-HT1A			Nilsson, T., et al., Eur Pharmacol. 1999 May 7;372(1):49-56
08	B08	H 9003	123-31-9	110.11	Hydroquinone	1,4-Benzenediol	Leukotriene	Enzyme	Inhibitor	Arachidonate 12-Lipoxygenase			McCue, J.M., et al., Mol Immunol. 2003 Jun;39(16):995-1001
08	B09	H-108	312-45-8	574.36	Hemicholinium-3		Cholinergic		Blocker	Uptake	Yes	0.10 mg/ml	Bove, et al., Pharmacological activities of acetal derivatives of hemicholinium No. 3 Eur. J. Pharmacol. 57, 149-163 (1979)
08	B10	G 6043		524.59	GR 125487 sulfamate salt	[1-[2-[(Methylsulfonyl)amino]ethyl]-4-piperidinyl]methyl-5-fluoro-2-methoxy-1H-indole-3-carboxylate	Serotonin		Antagonist	5-HT4	Yes	14 mg/ml @ 60C	Pindon, A., et al., Mol. Pharmacol., 61, 85-96 (2002),Mol. Pharmacol. 61, 85-96 (2002)
08	B11	I 1392	84468-24-6	313.81	HA-100	1-(5-Isoquinolinesulfonyl)piperazine hydrochloride	Phosphorylation	Enzyme	Inhibitor	PKA / PKC / MLCK			Hagiwara M., et al., Mol Pharmacol. 1987 Jul;32(1):7-12
08	C02	G-017	77521-29-0	267.08	(±)-AMPA hydrobromide	(±)-alpha-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid hydrobromide	Glutamate		Agonist	AMPA/kainate	Yes	1.2 mg/ml	Krogsgaard-Larsen, New class of glutamate agonist structurally related to ibotenic acid. Nature 284, 64 (1980)
08	C03	G-154	60142-96-3	171.24	Gabapentin	1-(Aminomethyl)-cyclohexaneacetic acid	Anticonvulsant				Yes	10 mg/ml	Gee, N., et al., The novel anticonvulsant drug gabapentin (neurontin) binds to thea2dsubunit of a calcium channel J. Biol. Chem. 271, 5768 (1996)
08	C04	H 1512	52-86-8	375.87	Haloperidol		Dopamine		Antagonist	D2/D1	Insoluble		Nakahara, T., Effects of atypical antipsychotic drugs vs. haloperidol on expresion of heat shock protein in the discrete brain regions of phencyclidine treated rates Brain Res. Mol. Brain Res. 73, 193 (1999)
08	C05	H 3146	118909-22-1	330.34	Hydroxytacrine maleate	HP-029	Cholinergic	Enzyme	Inhibitor	Cholinesterase			Shutske, G.M., et al.,J. Med. Chem. 32, 1805 (1989)
08	C06	H 6892	95333-64-5	206.27	1-(4-Hydroxybenzyl)imidazole-2-thiol		Dopamine	Enzyme	Inhibitor	Dopamine beta-hydroxylase			Kruse, L.I., et al.,J. Med. Chem. 29, 2465 (1986)
08	C07	H 8502	62-31-7	189.64	Dopamine hydrochloride	3-Hydroxytyramine hydrochloride	Dopamine		Agonist		Yes		Jones, et al., Dopamine neuronal transport kinetics and effects of amphetamine J. Neurochem. 73, 2406-2414 (1999)
08	C08	B 8433		243.29	BU99006	2-(Imidazolin-2-yl)-5-isothiocyanatobenzofuran	Imidazoline		Ligand	I2			Tyacke, R.J., Neuropharmacology. 2002 Jul;43(1):75-83
08	C09	H-120	92564-34-6	329.81	HA-1004 hydrochloride	N-(2-Guanidinoethyl)-5-isoquinolinesulfonamide hydrochloride	Phosphorylation	Enzyme	Inhibitor	PK			Giidman, H.M., et al., Endocrinology. 1990 Jan;26(1_:441-50
08	C10	I 0154	121034-89-7	428.30	IEM-1460	1-Trimethylammonio-5-(1-adamantanemethylammonio)pentane dibromide	Glutamate		Inhibitor	AMPA			Samoilova, M.V, et al.,Neuroscience 94, 261-268 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
08	C11	I 1637	22254-24-6	412.37	Ipratropium bromide	Atropine isopropyl bromide	Cholinergic		Antagonist	Muscarinic	Yes	10 mg/ml	Groeben, H., and Brown, R.H.,, Ipratropium decreases airway size in dogs by preferential M2muscarinic receptor blockadein vivo. Anesthesiology 85, 867-873 (1996)
08	D02	G-019	18174-72-6	195.02	Muscimol hydrobromide	3-Hydroxy-5-aminomethylisoxazole hydrobromide	GABA		Agonist	GABA-A, GABA-C	Yes	19 mg/ml	Curtis, D.R., et al., Bicuculline, an antagonist of GABA and synaptic inhibition in the spinal cord of the cat. Brain Res. 32, 69-96 (1971)
08	D03	H 0126	51-56-9	356.26	DL-Homatropine hydrobromide	Tropine mandelate hydrobromide	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Sim, M.K., and Manjeet, S., Muscarinic receptors in the aortae of normo- and hypertensive rats: a binding study Clin. Exp. Hypertens. 15, 409-421 (1993)
08	D04	H 1753	304-20-1	196.64	Hydralazine hydrochloride	1-Hydrazinophthalazine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-A/B			Gronvall, J.L., An autoradiographic method of visualising semicarbazide-sensitive amine oxidase activity in mouse tissue sections. Neurobiol. Dis. 8, 167 (2000)
08	D05	H 4001	50-23-7	362.47	Hydrocortisone	Cortisol	Hormone			Cortisol			Parrillo, J. E., Fauci, A.S., Mechanisms of glucocorticoid action on immune processes. Ann. Rev. Pharmacol. Toxicol. 19, 179 (1979)
08	D06	H 7250	56-92-8	184.07	Histamine dihydrochloride	1H-Imidazole-4-ethanamine dihydrochloride	Histamine		Agonist				Fu, L.W., et al., Endogenous histamine stimulates ischemically sensitive abdominal visceral afferents through H1 receptors. Am. J. Physiol. 273(6 Pt 2), 2726 (1997)
08	D07	H 8627	127-07-1	76.06	Hydroxyurea		DNA Metabolism	Enzyme	Inhibitor	Ribonucleoside reductase	Yes	50 mg/ml	Lassmann, G., et al., EPR stopped-flow studies of the reaction of the tyrosyl radical of protein R2 from ribonucleotide reductase with hydroxyurea Biochem. Biophys. Res. Comm. 188, 879-887 (1992)
08	D08	H 9382	81012-99-9	211.09	3-Hydroxybenzylhydrazine dihydrochloride	NSD-1015; alpha-Hydrazino-m-cresol dihydrochloride	Biochemistry	Enzyme	Inhibitor	Amino acid decarboxylase			Goodale, D.B., and Moore, K.E.,Life Sci. 19, 701 (1976)
08	D09	H-121		364.30	H-7 dihydrochloride	1-(5-Isoquinolinesulfonyl)-2-methylpiperazine dihydrochloride	Phosphorylation	Enzyme	Inhibitor	PKC	Yes	104 mg/ml	Hu, et al., Modulation of niotinic Ach-, GABAA- and 5-HT3-receptor functions by external H-7, a protein kinase inhibitor, in rat sensory neurons Br. J. Pharmacol. 122, 1195 (1977)
08	D10	I 0157	50847-11-5	230.31	Ibudilast	KC-404	Cyclic Nucleotides	Enzyme	Inhibitor	PDE IV	Yes	4.5 mg/ml	Suzumura, A., et al, Ibudilast suppresses TNFaproduction by glial cells functioning mainly as type III phosphodiesteraze inhibitor in CNS. Brain Res. 837, 203-212 (1999)
08	D11	I 1656	57852-57-0	497.51	Idarubicin	Idamycin	DNA Metabolism		Inhibitor				Borchmann, P., et al., Idarubicin: a brief overview on pharmacology and clinical use. Int. J. Clin. Pharmacol. Ther. 35, 80-83 (1997)
08	E02	G-110	23256-50-0	291.14	Guanabenz acetate	WY-8678	Adrenoceptor		Agonist	alpha2	Yes	11 mg/ml	Holmes, et al., Guanabenz. A review of its pharmacodynmie properties and therapeutic efficacy in hypertension. Drugs 26, 212-229 (1983)
08	E03	H 0131	55-10-7	198.18	(±)-Vanillylmandelic acid	(±)-4-Hydroxy-3-methoxymandelic acid	Adrenoceptor		Metabolite				Pani, A.K., and Anctil, M., Evidence for biosynthesis and catabolism of monoamines in the sea pansyRenilla koellikeri(Cnidaria) Neurochem. Int. 25, 465-474 (1994)
08	E04	H 1877	32673-41-9	134.57	4-Imidazolemethanol hydrochloride	4-(Hydroxymethyl)imidazole hydrochloride	Histamine	Enzyme	Inhibitor	Histinol Dehydrogenase			
08	E05	L 4408	7447-41-8	42.39	Lithium Chloride		Neurotransmission	Enzyme	Inhibitor	Inositol monophosphatase	Yes	1 M @ 20C	Weerasinghe, G.R., et al., Dalton Trans. 2004 Jul 15;63 (6):485-9
08	E06	H 7258	486-84-0	182.23	Harmane	Aribine	Imidazoline		Agonist	I1			Musgrave, I.F., and Badoer, E.,, Harmane produces hypotension following microinjection into the RVLM: possible role of I(1)-imidazoline receptors Br. J. Pharmacol. 129, 1057-1059 (2000)
08	E07	H 8645	29617-43-4	383.40	(+)-Hydrastine	(+)-beta-Hydrastine 1(S),9(R)	GABA		Antagonist	GABA-A			Huang, et al., (+)-Hydrastine a potent competitive antagonist at mammalian GABAAreceptors Br. J. Pharmacol. 99, 727 (1990)
08	E08	H 9523	153-98-0	212.68	Serotonin hydrochloride	5-HT hydrochloride	Serotonin		Agonist		Yes	17 mg/ml	Bpmasera. S.J., Tecott, L.H., Mouse models of serotonin receptor function: toward a genetic dissection of serotonin systems. Pharmacol. Ther. 88, 133 (2000)
08	E09	H-127	116679-83-5	386.03	Hexahydro-sila-difenidol hydrochloride, p-fluoro analog	p-F-HHSiD hydrochloride	Cholinergic		Antagonist	M3>M1>M2	Slighty Soluble	1.5 mg/ml	Lambrecht, G., et al., Affinity profiles of hexahydro-sila-difenidol analogues at muscarinic receptor subtypes Eur. J. Pharmacol. 168, 71-80 (1989)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
08	E10	I 0375	3251-69-2	162.58	Imidazole-4-acetic acid hydrochloride	I4AA	GABA		Antagonist	GABA-C			Chebib, M., et al., GABA(C) receptor antagonists differentiate between human rho1 and rho2 receptors expressed in Xenopus oocytes Eur. J. Pharmacol. 357, 227 (1998)
08	E11	I 1899	93515-00-5	358.18	2-Iodomelatonin	N-Acetyl-2-iodo-5-methoxytryptamine	Melatonin		Agonist		Yes	2.5 mg/ml	Iuvone, M.P. and Gan, J.,J. Neurochem. 63, 118 (1994)
08	F02	G-111	90237-02-8	240.24	gamma-D-Glutamylaminomethylsulfonic acid	GAMS	Glutamate		Antagonist	Kainate	Yes		Davies, et al., Depressant actions ofg-D-glutamylaminomethyl sulfonate (GAMS) on amino acid-induced and synaptic excitation in the cat spinal cord Brain Res. 327, 113 (1985)
08	F03	H 0627	2208-41-5	248.28	6-Hydroxymelatonin	3-(N-Acetylaminoethyl)-6-hydroxy-5-methoxyindole	Melatonin		Metabolite				Pang, C.S., et al., Comparison of the pharmacological characteristics of 2-[125I]iodomelatonin binding sites in the lung, spleen, brain and kidney of chicken Biol. Signals 4, 311 (1995)
08	F04	H 2138	60-25-3	273.29	Hexamethonium dichloride	N,N,N,N',N',N'-Hexamethyl-1,6-hexanediaminium dichloride	Cholinergic		Antagonist	Nicotinic	Yes		Lawson, C.J., et al., The effects of l-glucose on memory in mice are modulated by peripherally acting cholinergic drugs. Neurobiol. Learn. Mem. 77, 17 (2002)
08	F05	H 4759	58-93-5	297.74	Hydrochlorothiazide	6-Chloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide	Biochemistry	Enzyme	Inhibitor	Carbonic anhydrase			Chung, N.A., et al., Blood Press. 2004; 13(3):183-189
08	F06	H 7278	53598-01-9	250.26	NG-Hydroxy-L-arginine acetate	NOHA acetate	Nitric Oxide	Enzyme	Metabolite	NOS			Klatt, P., et al.,J. Biol. Chem. 268, 14781 (1993)
08	F07	H 8653	159795-63-8	328.30	(±)-7-Hydroxy-DPAT hydrobromide	(±)-7-OH-DPAT HBr; (±)-Hydroxy-dipropylaminotetralin hydrobromide	Dopamine		Agonist	D3	Yes	>15 mg/ml	Maj, J., et al., Effect of antidepressant drugs administered repeatedly on the dopamine D3 receptors in the rat brain Eur. J. Pharmacol. 351, 31 (1998)
08	F08	L 2167	79558-09-1	402.45	L-165,041	4-[3-(4-Acetyl-3-hydroxy-2-propylphenoxy)propoxy]phenoxy acetic acid	Lipid Signaling		Agonist	PPAR-gamma			Berger, J., et al, Novel peroxisome proliferator-activated receptor (PPAR)gand PPARdligands produce distinct biological effects. J. Biol. Chem. 274, 6718-6725 (1999)
08	F09	H-128	75614-87-8	198.10	Histamine, R(-)-alpha-methyl-, dihydrochloride	R(-)-alpha-Methylhistamine dihydrochloride	Histamine		Agonist	H3	Yes		Gerhard, et al., Structure-activity relations of histamine analogs. XX. Absolute configuration and histamine-like activity of enantiomerica-methyl histamines Arch. Pharm. Res. 313, 709 (1980)
08	F10	I 0404		277.28	Indirubin-3'-oxime	Indirubin-3'-monoxime	Phosphorylation	Enzyme	Inhibitor	CDK	Yes		Hoessel, R.,Nature Cell Biol. 1, 60 (1999)
08	F11	S 2318	181629-93-6	431.39	SB 228357	N-[3-Fluoro-5-(3-pyridinyl)phenyl]-2,3-dihydro-5-methoxy-6-(trifluoromethyl)-1H-indole-1-carboxamide	Serotonin		Antagonist	5-HT2B/2C	Insoluble		Reavill, C., et al. ,Br. J. Pharmacol. 126, 572-574 (1999)
08	G02	G-117	29094-61-9	445.54	Glipizide		K+ Channel		Blocker	ATP-sensitive			Raeburn, et al., RP 49356 and cromakakim relax airway smooth muscle in vitro by opening a sulfonylurea-sensitive K+channel: A comparison with nifedipine J. Pharmacol. Exp. Ther. 256, 480-485 (1991)
08	G03	H 0879	55-97-0	362.19	Hexamethonium bromide	Hexane-1,6-bis(trimethylammonium bromide)	Cholinergic		Antagonist	Nicotinic			Lawson, C.J., et al., The effects of l-glucose on memory in mice are modulated by peripherally acting cholinergic drugs. Neurobiol. Learn. Mem. 77, 17 (2002)
08	G04	H 2270	125-04-2	484.53	Hydrocortisone 21-hemisuccinate sodium	Cortisol 21-hemisuccinate sodium	Hormone			Cortisol	Yes	50 mg/ml	Kang, B.S., et al., Biol Pharm Bull. 2001 Jun;24(6):701-3
08	G05	S 8817		396.45	SB 218795	(-)-(R)-N-(alpha-methoxycarbonylbenzyl)-2-phenylquinoline-4-carboxamide	Neurotransmission		Antagonist	NK3	Insoluble		Medhurst, A.D., et al.,Br. J. Pharmacol. 122, 469-476 (1997)
08	G06	H 7779	65646-68-6	391.56	Retinoic acid p-hydroxyanilide	N-(4-Hydroxyphenyl)retinamide	Cell Cycle		Inhibitor				Marth, C., et al., Effect of 4-hydroxyphenylretinamide and retinoic acid on proliferation and cell cycle of cultured human breast cancer cells J. Natl. Cancer Inst. 75, 871-875 (1985)
08	G07	H 8759	73124-20-4	302.35	MHPG sulfate potassium	4-Hydroxy-3-methoxyphenylglycol-4-sulfate potassium	Adrenoceptor		Metabolite		Yes	50 mg/ml	Eisenhofer, G., et al., Mesenteric organ production, hepatic metabolism, and renal elimination of norepinephrine and its metabolites in humans. J. Neurochem. 66, 1573 (1996)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
08	G08	H 9772	145224-90-4	220.23	5-Hydroxy-L-tryptophan	S(+)-1-alpha-Amino-5-hydroxyindole-3-propionic acid	Serotonin		Precursor		Yes	10 mg/ml	Fickbohm, D.J., Katz, P.S., Paradoxical actions of the serotonin precursor 5-hydroxytryptophan on the activity of identified serotonergic neurons in a simple motor circuit. J. Neurosci. 20, 1622 (2000)
08	G09	H-135	624-00-0	210.25	5-hydroxydecanoic acid sodium		K+ Channel		Blocker		Yes		Grover, et al., Pharmacologic profile of cromakalim in the treatment of myocardial ischemia in isolated rat hearts and anesthetized dogs. J. Cardiovasc. Pharmacol. 16, 853 (1990)
08	G10	N 1786		310.39	NSC 95397	2,3-bis[(2-Hydroxyethyl)thio]-1,4-naphthoquinone	Phosphorylation	Enzyme	Inhibitor	Cdc25			Lazo, J.S., et al., , Identification of a potent and selective pharmacophore for Cdc25 dual specificity phosphatase inhibitors. Mol. Pharmacol. 61, 720-728 (2002)
08	G11	I 2279		374.68	IMID-4F hydrochloride	2-[N-(2,6-dichlorophenyl)-N-(4-fluorobenzyl)amino]-2-imidazoline hydrochloride	K+ Channel		Blocker				McPherson, G.A., Functional and electrophysiological effects of a novel imidazoline-based K(ATP) channel blocker, IMID-4F. Br. J. Pharmacol. 128, 1636 (1999)
08	H02	G-119	102771-26-6	329.79	GYKI 52466 hydrochloride	1-(4-Aminophenyl)-4-methyl-7,8-methylenedioxy-5H-2,3-benzodiazepine hydrochloride	Glutamate		Antagonist	AMPA/kainate	Insoluble		Donevan, et al., GYKI 52466, a 2,3-benzodiazepine is a highly selective, non-competitive antagonist of AMPA/kainate receptor responses. Neuron 10, 51 (1993)
08	H03	H 1252	306-08-1	182.18	4-Hydroxy-3-methoxyphenylacetic acid	Homovanillic acid; HVA	Dopamine		Metabolite				Guilbault, G.G., et al.,Anal. Chem. 40, 190 (1968)
08	H04	H 2380	21373-30-8	213.19	6-Hydroxy-DL-DOPA	2,5-Dihydroxy-DL-tyrosine	Adrenoceptor		Neurotoxin		Yes	3.0 mg/ml	Lin, J.Y., et al., Effects of systemic administration of 6-hydroxydopamine, 6-hydroxydopa and 1-methyl-4-phenyl-1,2,3,6-tetrahydroxypyridine (MPTP) on tuberoinfundibular dopaminergic neurons in the rat Brain Res. 624, 126-130 (1993)
08	H05	H 5257	555-55-5	246.22	Hispidin	6-(3,4-dihydroxystyrl)-4-hydroxy-2-pyrone	Phosphorylation	Enzyme	Inhibitor	PKC-beta			Gonindard, C., et al., Synthetic hispidin, a PKC inhibitor, is more cytotoxic toward cancer cells than normal cells in vitro. Cell Biol. Toxicol. 13, 141-153 (1997)
08	H06	H 8034		388.43	HE-NECA	2-Hexynyl-5'-ethylcarboxamidoadenosine	Adenosine		Agonist	A2	Insoluble		Vittori, S. et al.,Nucleosides and Nucleotides 18, 739-740 (1999)
08	H07	H 8876	54-16-0	191.19	5-Hydroxyindolacetic acid	5-HIAA	Serotonin		Metabolite				Brown, G.L., Linnoila, M.I., CSF serotonin metabolite (5-HIAA) studies in depression, impulsivity, and violence. J. Clin. Psychiatry 51, 42 (1990)
08	H08	H 9876	5470--11--1	69.49	Hydroxylamine hydrochloride		Neurotransmission	Enzyme	Inhibitor	MAO			Roh, J.H., Purification, characterization, and crystallization of monoamine oxidase fromEscherichia coliK-12. Biosci. Biotechnol. Biochem. 58, 1652 (1994)
08	H09	H-140	78095-19-9	328.30	R-(+)-8-Hydroxy-DPAT hydrobromide	(+)-8-Hydroxy-2-(dipropylamino)tetralin hydrobromide	Serotonin		Agonist	5-HT1A	Yes	>20 mg/ml	Bjork, et al., Resolved N,N'-dialkylated 2-amino-8-hydroxytetralins: Stereoselective interactions with 5-HT1Areceptors in the brain. J. Med. Chem. 32, 779 (1989)
08	H10	I 0782	84243-58-3	240.27	Imazodan	CI 914	Cyclic Nucleotides	Enzyme	Inhibitor	PDE II			Mochizuke, N., et al, Cardiovascular effects of NSP-804 and NSP-805, novel cardiotonic agents with vasodilator properties J. Cardiovasc. Pharmacol. 21, 983-995 (1993)
08	H11	I 2760	54750-10-6	361.35	R(-)-Isoproterenol (+)-bitartrate		Adrenoceptor		Agonist	beta			Chi, O.Z., et al., Effects of isoproterenol on blood-brain barrier permeability in rats. Neurol. Res. 20, 259-264 (1998)
09	A02	I 2764	110448-33-4	452.74	ML-7	1-(5-Iodonaphthalene-1-sulfonyl)-1H-hexahydro-1,4-diazepine hydrochloride	Phosphorylation	Enzyme	Inhibitor	MLCK			Makishima, M., et al.,FEBS Lett. 287, 175 (1991)
09	A03	I 5879	28822-58-4	222.25	3-Isobutyl-1-methylxanthine	IBMX	Adenosine	Enzyme	Inhibitor	Phosphodiesterase			Elks, M.L., and Manganiello, V.C., A role for soluble cAMP phosphodiesterases in differentiation of 3T3-L1adipocytes J. Cell Physiol. 124, 191-198 (1985)
09	A04	I 7627	305-33-9	277.22	Iproniazid phosphate		Neurotransmission	Enzyme	Inhibitor	MAO			Ito, K., et al., Manganese-mediated oxidative damage of cellular and isolated DNA by isoniazid and related hydrazines: non-Fenton-type hydroxyl radical formation Biochemistry 31, 11606-11613 (1992)
09	A05	I 9890	80663-95-2	648.26	m-Iodobenzylguanidine hemisulfate	MIBG	Apoptosis		Activator				Smets, L.A., et al.,Cancer Chemother. Pharmacol. 21, 9 (1988)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
09	A06	I-135	32385-58-3	332.06	Imetit dihydrobromide	S-[2-(Imidazol-4-yl)ethyl]isothiourea dihydrochloride	Histamine		Agonist	H3	Yes		Garbarg, et al., S-[2-(4-Imidazol)ethyl]isothioureaa highly specific and potent histamine H3receptor agonist J. Pharmacol. Exp. Ther. 263, 304 (1992)
09	A07	J-102		307.40	JL-18	8-Methyl-6-(4-methyl-1-piperazinyl)-11H-pyrido[2,3-b][1,4]benzeodiazepine	Dopamine		Antagonist	D4>D2	0.33 mg/ml		Liegeois, et al., Eur J Pharmacol. 1995;273:R1-R3.
09	A08	K 3888		327.18	Kenpaullone	NSC 664704	Phosphorylation	Enzyme	Inhibitor	CDK1, CDK2, CDK5	Yes	5.0 mg/ml	Schultz, C., et al., Paullones, a series of cyclin-dependent kinase inhibitors: synthesis, evaluation of CDK1/cyclin B inhibition, and in vitro antitumor activity J. Med. Chem. 42, 2909-2919 (1999)
09	A09	L 2411		452.55	LY-367,265	1-[2-[4-(6-fluoro-1H-indol-3-yl)-3,6-dihydro-1(2H)-pyridinyl]ethyl]-5,6-dihydro-1H,4H-[1,2,5]thiadiazolo[4.3.2-ij]quinoline-2,2-dioxide	Serotonin		Antagonist	Reuptake			Pullar, I.A., LY367265, an inhibitor of the 5-hydroxytryptamine transporter and 5-hydroxytryptamine(2A) receptor antagonist: a comparison with the antidepressant, nefazodone. Eur. J. Pharmacol. 407, 39 (2000)
09	A10	L 5025	75706-12-6	270.21	Leflunomide	5-Methylisoxazole-4-(4-trifluoromethylcarboxanilide)	Immune System	Enzyme	Inhibitor				Brazelton, T.R., and Morris, R.E.,Curr. Opin. Immunol. 8, 710 (1996)
09	A11	L 8789	244240-24	360.01	LFM-A13	alpha-Cyano-beta-hydroxy-beta-methyl-N-(2,5-dibromophenyl)propenamide	Phosphorylation	Enzyme	Inhibitor	BTK			Mahajan, S., et al., Rational design and synthesis of a novel anti-leukemic agent targeting Bruton's tyrosine kinase (BTK), LFM-A13 [a-cyano-b-hydroxy-b-methyl-N-(2,5-dibromophenyl)propenamide]. Vitamin E: A Comprehensive Treatise 274, 9587 (1999)
09	B02	I 2765	2552-55-8	158.11	(±)-Ibotenic acid	(±)-alpha-Amino-3-hydroxy-5-isoxazoleacetic acid	Glutamate		Agonist	NMDA	Yes	1.0 mg/ml	Scholz, An ibotenate-selective metabotropic glutamate receptor mediates protein phosphorylation in cultured hippocampal pyramidal neurons J. Neurochem. 62, 1764 (1994)
09	B03	I 6138	79944-56-2	240.69	Idazoxan hydrochloride	RX 781094	Imidazoline		Ligand	I1 / I2	Yes	300 mg/ml	Clarke, R.W., et al., Imidazoline I(2)-receptors and spinal reflexes in the decerebrated rabbit. Neuropharmacology 39, 1904-1912 (2000)
09	B04	I 8005	14638-70-1	361.35	S(+)-Isoproterenol (+)-bitartrate		Adrenoceptor			beta			Huang C.C., et al., J Neurosci. 1998 Mar 15;18(6):2276-82 Review
09	B05	I-106	51146-56-6	206.29	S(+)-Ibuprofen	S-(+)-2-(4-Isobutylphenyl)propionic acid	Prostaglandin	Enzyme	Inhibitor	COX			Mehvar, et al., Liquid chromatography assay of ibuprofen enantiomers in plasma Clin. Chem. 34, 493-496 (1988)
09	B06	I-138	5154--02--9	161.16	1,5-Isoquinolinediol	1,5-Dihydroxyisoquinoline	Apoptosis	Enzyme	Inhibitor	PARS	Insoluble		Zhang, J., et al., Nitric oxide activation of poly(ADP-ribose) synthase in neurotoxicity. Science 263, 687-689 (1994)
09	B07	K 0250	58002-62-3	213.24	Kainic acid	2-Carboxy-3-carboxymethyl-4-isopropenylpyrrolidine	Glutamate		Agonist	Kainate	Yes		Coyle, J.T., Kainic acid: insights into excitatory mechanisms causing selective neuronal degeneration Ciba Found. Symp. 126, 186-203 (1987)
09	B08	K 4262	39089-30-0	377.53	Karakoline		Cholinergic		Antagonist	Nicotinic			Sultankhodjaev,Chem. Nat. Cpds. 2, 199 (1973)
09	B09	L 2536		430.95	LY-310,762 hydrochloride		Serotonin		Antagonist	5-HT1D	Insoluble		Pullar, et al.,Eur. J. Pharmacol. 407, 39 (2000)
09	B10	V 1889		626.39	VER-3323 hemifumarate salt	(S)-1-(6-Bromo-2,3-dihydroindol-1-yl)-2-propylamine hemifumarate salt	Serotonin		Agonist	5-HT2C/5-HT2B	Yes	9.0 mg/ml	
09	B11	N 0287		564.58	NNC 55-0396	(1S,2S)-2-(2-(N-[(3-Benzimidazol-2-yl)propyl]-N-methylamino)ethyl)-6-fluoro-1,2,3,4-tetrahydro-1-isopropyl-2-naphtyl cyclopropanecarboxylate dihydrochloride	Ca2+ Channel		Inhibitor	T-type	15 mg/ml		Huang, L., et al., J. Pharmacol. Exp. Ther. 309, 193-199 (2004)
09	C02	I 2892	23210-58-4	801.00	Ifenprodil tartrate	alpha-(4-Hydroxyphenyl)-beta-(4-benzylpiperidin-1-yl)-beta-methylethanol tartrate	Glutamate		Blocker	Polyamine site NMDA			Carter, et al., Ifenprodil and SL 82.0715 are antagonists at the polyamine site of the N-methyl-D-aspartate (NMDA) receptor Eur. J. Pharmacol. 164, 611 (1989)
09	C03	I 6391	140663-38-3	364.30	1-(5-Isoquinolinylsulfonyl)-3-methylpiperazine dihydrochloride	Iso-H-7	Phosphorylation	Enzyme	Inhibitor	PKC			
09	C04	I 8021	150403-89-7	223.70	L-N6-(1-Iminoethyl)lysine hydrochloride	L-NIL	Nitric Oxide	Enzyme	Inhibitor	iNOS			Moore, W.M., et al.,J. Med. Chem. 37, 3886 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
09	C05	I-114	108294-53-7	392.46	p-Iodoclonidine hydrochloride	2-[(2,6-Dichloro-4-iodophenyl)imino]imidazoline hydrochloride	Adrenoceptor		Agonist	alpha2	Yes		Van Dor, T., Radioiodinated p-iodoclonidine: A high-affinity probe for thea2-adrenergic receptor. J. Med. Chem. 30, 1241 (1987)
09	C06	I-139	130383-75-4	404.25	S(-)-IBZM	Iodobenzamide	Dopamine		Ligand	D2	Slighty Soluble	<0.5 mg/ml	Cordes, et al., Initial experience with SPECT examinations using [123I]IBZM as a D2-dopamine receptor antagonist in Parkinson¿s disease Eur. J. Radiol. 12, 182 (1991)
09	C07	K 1003	65277-42-1	531.44	Ketoconazole	cis-1-Acetyl-4-[4-[[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-piperazine	Multi-Drug Resistance	Enzyme	Inhibitor	Cytochrome P450c17			Von Moltke, L.L., et al.,Clin. Pharmacokinet. 29 (Suppl 1), 33 (1995)
09	C08	L 0258	142326-59-8	363.80	L-701,324	7-Chloro-4-hydroxy-3-(3-phenoxy)phenylquinolin-2[1H]-one	Glutamate		Antagonist	NMDA-Glycine			Bristow, L.J., et al., Anticonvulsant and behavioral profile of L-701,324a potentorally active antagonist at the glycine modulatory site on the N-methyl-D-aspartate receptor complex J. Pharmacol. Exp. Ther. 279, 492-501 (1996)
09	C09	L 2540		591.24	L-368,899	1-((7,7-Dimethyl-2(S)-(2(S)-amino-4-(methylsulfonyl)butyramido)bicyclo[2,2,1]heptan-1(S)-yl)methylsulfonyl)-4-(2-methylphenyl)piperazine hydrochloride	Neurotransmission		Antagonist	Oxytocin receptor	Yes	20 mg/ml	Cui, S.S. et al.,J. Neurosci. 24, 9867-9876 (2001)
09	C10	L 5647	6108-05-0	270.81	Lidocaine hydrochloride		Na+ Channel		Modulator		Yes		Argoff C.E., Clin J Pain. 2000 Jun;16(2 Suppl):S62-6 Review
09	C11	L 9539	103253-15-2	373.86	L-655,240	3-[1-(4-Chlorobenzyl)-5-fluoro-3-methyl-indol-2-yl]-2,2-dimethyl propanoic acid	Thromboxane		Antagonist	TXA2	Insoluble		Bunke, M., et al., Protection of glomerular filtration rate by the thromboxane receptor antagonist L-655,240 during low dose cyclosporine administration Prostaglandins 43, 351-360 (1992)
09	D02	I 3639	7279-75-6	335.42	Isotharine mesylate	4-[1-Hydroxy-2-[(1-methylethyl)amino]butyl]-1,2-benzenediol mesylate	Adrenoceptor		Agonist	beta			Charan, N.B., et al., Nitric oxide andb-adrenergic agonist-induced bronchial arterial vasodilation. J. Appl. Physiol. 82, 686-692 (1997)
09	D03	I 6504	5984-95-2	247.72	(-)-Isoproterenol hydrochloride	(-)-Isoprenaline hydrochloride	Adrenoceptor		Agonist	beta			Chi, O.Z., et al., Effects of isoproterenol on blood-brain barrier permeability in rats. Neurol. Res. 20, 259-264 (1998)
09	D04	I 8250	70-78-0	307.09	3-Iodo-L-tyrosine	S(-)-3-Iodo-4-hydroxyphenylalanine	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase			Fitzpatrick, P.F., Steady-state kinetic mechanism of rat tyrosine hydroxylase. Biochemistry 30, 3658-3662 (1991)
09	D05	I-117	54197-31-8	357.24	R(+)-IAA-94	R(+)-Methylindazone; Indanyloxyacetic acid 94	Cl- Channel		Inhibitor		Yes	0.2 mg/ml	Landry, et al., Epithelial chloride channel: Development of inhibitory ligands J. Gen. Physiol. 90, 779-798 (1987)
09	D06	I-146	152918-18-8	510.29	IB-MECA	1-Deoxy-1-[6-[[(3-iodophenyl) methyl]amino]-9H-purin-9-yl]-N-methyl-beta-D-ribofuranuronamide	Adenosine		Agonist	A3	Insoluble		Jacobson, et al., A role for central A3-adenosine receptors. Mediation of behavioral depressant effects. FEBS Lett. 336, 57-60 (1993)
09	D07	K 1136	74103-07-4	376.41	Ketorolac tris salt	Toradol	Prostaglandin	Enzyme	Inhibitor	COX	Yes	15 mg/ml	Laneuville, O.,, Differential inhibition of human prostaglandin endoperoxide H synthases-1 and -2 by nonsteroidal antiinflammatory drugs. J. Pharmacol. Exp. Ther. 271, 927 (1994)
09	D08	L 0664	68767-14-6	246.31	loxoprofen	Koloxo	Prostaglandin	Enzyme	Inhibitor	COX			Sugimoto, M., Inhibition of prostaglandin production in the inflammatory tissue by loxoprofen-Na, an anti-inflammatory prodrug. Biochem. Pharmacol. 42, 2363 (1991)
09	D09	L 2906	98079-51-7	387.82	Lomefloxacin hydrochloride		Antibiotic	Enzyme	Inhibitor	DNA Gyrase			Croom K.F., et al., Drugs. 2003;63(24)2769-802 Review
09	D10	L 5783	21306-56-9	343.31	Lidocaine N-ethyl bromide quaternary salt	QX-314	Na+ Channel		Antagonist				Regehr, W.G. and Tank, D.W.,J. Neurosci. 12, 4202-4223 (1992)
09	D11	L 9664	79794-75-5	382.89	Loratadine	4-(8-chloro-5,6-dihydro-11H-benzo[5,6]cycloheptal[1,2-b]pyridin-11-ylidene-1-piperidinecarboxylic acid ethyl ester	Histamine		Antagonist	H1	Insoluble		Baroody, F.M. and Naclerio, R.M.,AMA Arch. Pathol. 55 Suppl. 64, 17 (2000)
09	E02	I 3766	961-29-5	256.26	Isoliquiritigenin	2',4,4'-Trihydroxychalcone	Cyclic Nucleotides	Enzyme	Activator	Guanylyl cyclase	Yes	>0.1 mg/ml	Yamamoto, et al., The potent anti-tumor-promoting agent isoliquiritigenin Carcinogenesis 12, 317-323 (1991)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
09	E03	I 7016	108930-17-2	364.30	1-(5-Isoquinolinylsulfonyl)-2-methylpiperazine dihydrochloride	H-7 dihydrochloride	Phosphorylation	Enzyme	Inhibitor	PKA / PKC	Yes	20 mg/ml	Hidaka, H., et al.,Biochemistry 23, 5036 (1984)
09	E04	I 8768	150403-88-6	209.68	L-N5-(1-Iminoethyl)ornithine hydrochloride	L-NIO	Nitric Oxide	Enzyme	Inhibitor	NOS			McCall, T.B., et al.,Br. J. Pharmacol. 102, 234 (1991)
09	E05	I-119	96850-13-4	328.67	Indatraline hydrochloride	Lu 19-005	Dopamine		Inhibitor	Reuptake	Yes	2.0 mg/ml	Arnt, J, et al., Pharmacologyin vivoof the phenylindan derivative, Lu 19-005, a new potent inhibitor of dopamine, noradrenaline and 5-hydroxytryptamine uptake in rat brain. Naunyn-Schmiedeberg's Arch. Pharmacol. FB329, 101-107 (1985)
09	E06	I-151		426.90	Indomethacin morpholinylamide	BML-190	Cannabinoid		Ligand	CB2	Insoluble		Gallant, et al., New class of potent ligands for the human peripheral cannabinoid receptor Bioorg. Med. Chem. Lett. 6, 2263-2268 (1996)
09	E07	K 1751	22071-15-4	254.29	Ketoprofen	2-(3-Benzoylphenyl)propionic acid	Prostaglandin	Enzyme	Inhibitor	COX-1			Cryer, B., , Feldman, M., Cyclooxygenase-1 and cyclooxygenase-2 selectivity of widely used nonsteroidal anti-inflammatory drugs. Am. J. Med. 104, 413 (1998)
09	E08	L 1011	32780-64-6	364.88	Labetalol hydrochloride	2-Hydroxy-5-(1-hydroxy-2-[(1-methyl-3-phenylpropyl)amino]ethyl)benzamide hydrochloride	Adrenoceptor		Antagonist	beta	Yes		Riva, E., et al., Thea- andb-adrenoceptor blocking activities of labetalol and its RR-SR (50:50) stereoisomers Br. J. Pharmacol. 104, 823-828 (1991)
09	E09	L 3791	84057-84-1	256.10	Lamotrigine	GI 267119X; 6-(2,3-dichlorophenyl)-1,2,4-triazine-3,5-diamine	Anticonvulsant				Insoluble		Laughlin, T.M. et al.,J. Pharmacol. Exp. Ther. 302, 1168-1175 (2002)
09	E10	L 8397	88264-65-7	337.42	L-Leucinethiol, oxidized dihydrochloride	Dithiobis(2-amino-4-methylpentane)	Biochemistry	Enzyme	Inhibitor	Aminopeptidase			Chan, W., W-C.,Biochem. Biophys. Res. Comm. 116, 297 (1983)
09	E11	L 9756	16595-80-5	240.76	(-)-Tetramisole hydrochloride	Levamisole hydrochloride	Phosphorylation	Enzyme	Inhibitor				Van Belle, H.,Biochim. Biophys. Acta 289, 158 (1972)
09	F02	I 4883	15687-27-1	206.29	(±)-Ibuprofen	alpha-Methyl-4-(isobutyl)phenylacetic acid	Prostaglandin	Enzyme	Inhibitor	COX			Chen, C.S., et al., Metabolic stereoisomeric inversion of 2-arylpropionic acids. On the mechanism of ibuprofen epimerization in rats Biochim. Biophys. Acta 1033, 1 (1990)
09	F03	I 7378	53-86-1	357.80	Indomethacin		Prostaglandin	Enzyme	Inhibitor	COX			Laneuville, O., et al., Differential inhibition of human prostaglandin endoperoxide H synthases-1 and -2 by nonsteroidal anti-inflammatory drugs J. Pharmacol. Exp. Ther. 271, 927-934 (1994)
09	F04	I 8898	70288-86-7	875.12	Ivermectin	MK-933	Cholinergic		Modulator	alpha7 nACh	Insoluble		Adelsberger, H., et al., A patch clamp study of a glutamatergic chloride channel on pharyngeal muscle of the nematode Ascaris suum. Neurosci. Lett. 230, 183-186 (1997)
09	F05	I-120	95896-48-3	339.65	Iofetamine hydrochloride	N-Isopropyl-p-iodoamphetamine hydrochloride	Neurotransmission		Analog				Rupright J., et al., Brain Inj. 1997 Jan;11(1):49-57
09	F06	I-160		364.83	3-(1H-Imidazol-4-yl)propyl di(p-fluorophenyl)methyl ether hydrochloride		Histamine		Antagonist	H3	Yes	>4.0 mg/ml	Huls, A., et al., Diphenylmethyl ethers: Synthesis and histamine H3-receptor antagonist in vitro and in vivo activity Bioorg. Med. Chem. Lett. 6, 2013-2018 (1996)
09	F07	K 1888		376.50	K 185	N-Butanoyl 2-(5,6,7-trihydro-11-methoxybenzo[c]cyclohept[2,1-a]indol-13-yl)ethanamine	Melatonin		Antagonist				Faust, R. et al.,J. Med. Chem. 43, 1050 (2000)
09	F08	L 1415	151488-11-8	582.79	L-162,313	(5,7-dimethyl-2-ethyl-3-[[4-[2(n-butyloxycarbonylsulfonamido)-5-isobutyl-3-thienyl]phenyl]methyl]imidazo[4,5,6]pyridine	Neurotransmission		Agonist	AT1			Vianello, B. et al.,Eur. J. Pharmacol. 347, 113-118 (1998)
09	F09	L 4376	134-63-4	373.93	alpha-Lobeline hydrochloride	(-)-Lobeline hydrochloride	Cholinergic		Agonist	Nicotinic	Yes	25 mg/ml	Damaj, M.I., et al., Pharmacology of lobeline, a nicotinic receptor ligand J. Pharmacol. Exp. Ther. 282, 410-419 (1997)
09	F10	L 8401		290.41	LE 300	7-Methyl-6,7,8,9,14,15-hexahydro-5H-benz[d]indolo[2,3-g]azecine	Dopamine		Antagonist	D1	Insoluble		Witt, T., 7-Methyl-6,7,8,9,14,15-hexahydro-5H-benz[d]indolo[2,3-g]azecine: a new heterocyclic system and a new lead compound for dopamine receptor antagonists J. Med. Chem. 43, 2079 (2000)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
09	F11	L 9787		341.37	L-655,708	Ethyl (S)-11,12,13,13a-Tetrahydro-7-methoxy-9-oxo-9H-imidazo[1,5-a]pyrrolo[2,1-c][1,4]benzodiazepine-1-carboxylate	Benzodiazepine		Ligand	GABA-A	Insoluble		Quirk, K., et al., [3H]L-655,708, a novel ligand selective for the benzodiazepine site of GABAAreceptors which contain thea5subunit Neuropharmacology 356, 1331-1335 (1996)
09	G02	I 5531		348.45	IIK7	N-Butanoyl 2-(9-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethanamine	Melatonin		Agonist				Faust, R. et al.,J. Med. Chem. 43, 1050 (2000)
09	G03	I 7379	113-52-0	316.88	Imipramine hydrochloride		Serotonin		Blocker	Reuptake	Yes	50 mg/ml	Wood, M.D., Examination of the relationship between the uptake site for 5-hydroxytryptamine and the high affinity binding site for [3H]imipramine. II. The role of sodium ions Neuropharmacology 26, 1081-1085 (1987)
09	G04	I 9531		280.76	Imiloxan hydrochloride	RS 21361	Adrenoceptor		Antagonist	alpha2B	Yes	50 mg/ml	Michel, A.D. et al., Assessment of imiloxan as a selectivea2B-adrenoceptor antagonist.
09	G05	I-122	121264-04-8	501.84	ICI 204,448 hydrochloride		Opioid		Agonist	kappa	Yes	4.5 mg/ml	Shaw, et al., ICI 204448: A kappa-opioid agonist with limited access to the CNS Br. J. Pharmacol. 96, 986-992 (1989)
09	G06	I18008	498-94-2	129.16	Isonipecotic acid	4-Piperidine carboxylic acid	GABA		Agonist	GABA-A			Krehan D., et al., Neurochem Int. 203 Jun;42(7):561-5
09	G07	K 2628	34580-14-8	425.51	Ketotifen fumarate		Histamine		Antagonist	H1			Ohkawa, et al., Histamine H1 receptor and reactivity of the nasal mucosa in sensitized guinea pigs Auris. Nasus. Larynx. 26, 293 (1999)
09	G08	L 1788		256.78	Lidocaine N-methyl hydrochloride	QX-222	Na+ Channel		Blocker		Yes		Inagaki, et al., Characterization of antihistamines using biphasic cutaneous reaction in BALB/c mice. Life Sci. 63, 145 (1998)
09	G09	L 4762	34552-83-5	513.51	Loperamide hydrochloride		Opioid		Ligand				Church, J., et al., Loperamide blocks high-voltage-activated calcium channels and N-methyl-D-aspartate-evoked responses in rat and mouse cultured hippocampal pyramidal neurons. Mol. Pharmacol. 45, 747-757 (1994)
09	G10	L 8533	103577-45-3	369.37	Lansoprazole		Ion Pump		Inhibitor	H+ pump			Barradell, L.B., et al.,Drugs 44, 225 (1992)
09	G11	L 9908	154447-36-6	343.81	LY-294,002 hydrochloride	2-(4-Morpholinyl)-8-phenyl-4H-1-benzopyran-4-one hydrochloride	Phosphorylation	Enzyme	Inhibitor	PI3K	Yes		Vlahos, C.J., et al., A specific inhibitor of phosphatidylinositol 3-kinase 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one (LY294002). J. Biol. Chem. 269, 5241 (1994)
09	H02	I 5627	51-30-9	247.72	(±)-Isoproterenol hydrochloride		Adrenoceptor		Agonist	beta			Chi, O.Z., et al., Effects of isoproterenol on blood-brain barrier permeability in rats. Neurol. Res. 20, 259-264 (1998)
09	H03	I 7388	529-61-1	179.14	Isoxanthopterin	2-Amino-4,7-dihydroxypteridine	Cell Stress	Enzyme	Metabolite				Mest, S.J., et al., 2,6-Dichlorophenolindophenol is a competitive inhibitor for xanthine oxidase and is therefore not usable as an electron acceptor in the fluorometric assay. Free Radical Biol. Med. 12, 189-192 (1992)
09	H04	I 9778		548.66	CR 2945	Itriglumide	Cholecystokinin		Antagonist	CCK-B	Yes	4.2 mg/ml	Revel, L., et al., CR 2945: a novel CCKBreceptor antagonist with anxiolytic-like activity. Behav. Pharmacol. 9, 183-194 (1998)
09	H05	I-127	72795-19-8	313.87	ICI 118,551 hydrochloride	(±)-1-[2,3-(Dihydro-7-methyl-1H-inden-4-yl)oxy]-3-[(1-methylethyl)amino]-2-butanol hydrochloride	Adrenoceptor		Antagonist	beta2	Yes	8.0 mg/ml	Bilski, A.J., et al., The pharmacology of ab2-selective adrenoceptor antagonist (ICI 118,551). J. Cardiovasc. Pharmacol. 5, 430-437 (1983)
09	H06	J 4252	155471-08-2	327.43	JWH-015	(2-Methyl-1-propyl-1H-indol-3-yl)-1-naphthalenylmethanone	Cannabinoid		Agonist	CB2			Griffin, G., et al., Evidence for the presence of CB2-like cannabinoid receptors on peripheral nerve terminals Eur. J. Pharmacol. 339, 53-61 (1997)
09	H07	K 3375	492-27-3	189.17	Kynurenic acid	4-Hydroxyquinoline-2-carboxylic acid	Glutamate		Antagonist	NMDA-Glycine			Stone, T.W., Neuropharmacology of quinolinic and kynurenic acids. Neuropharmacology 45, 309-379 (1993)
09	H08	L 2037	4707-32-8	242.28	beta-Lapachone		Apoptosis		Activator				Li, C.J., et al.,J. Biol. Chem. 268, 22463 (1993)
09	H09	L 4900	50264-69-2	321.17	Lonidamine	Diclondazolic acid	Cell Stress	Enzyme	Inhibitor	Mitochondrial hexokinase			Ben-Horin, H., et al.,Cancer Res. 55, 2814 (1995)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
09	H10	L 8539		327.90	L-687,384 hydrochloride	1'-Benzyl-3,4-dihydrospiro[naphthalene-1-(2H),4'-piperidine] hydrochloride	Opioid		Agonist	sigma1	Insoluble		Couture, S and Debonnel, G., Some of the effects of the selective sigma ligand (+)pentazocine are mediated via a naloxone-sensitive receptor. Synapse 39, 323-331 (2001)
09	H11	L-106	27833-64-3	445.91	Loxapine succinate		Dopamine		Antagonist		Yes		Shen, Y., et al., Molecular cloning and expression of a 5-hydroxytryptamine7 serotonin receptor subtype J. Biol. Chem. 268, 18200-18204 (1993)
10	A02	L-107	60634-51-7	500.60	LY-53,857 maleate	6-Methyl-1-(1-methylethyl)-ergoline-8beta-carboxylic acid 2-hydroxy-1-methylpropyl ester maleate	Serotonin		Antagonist	5-HT2/5-HT1C	Yes	5.9 mg/ml	Cohen, et al., LY 53,857 a selective and potent serotonergic (5-HT2) receptor antagonist, does not lower blood pressure in the spontaneously hypertensive rat. J. Pharmacol. Exp. Ther. 227, 327 (1983)
10	A03	L-133		527.67	L-750,667 trihydrochloride	(±)-3-[4-Iodophenyl)-1-piperazyl] methylpyrrolo [2,3-b] pyrimidine	Dopamine		Antagonist	D4	Yes	2.5 mg/ml	Kulagowski, et al., 3-[[4-(4-Chlorophenyl)piperazin-1-yl]-methyl]-1H-pyrrolo[2,3-b]pyridine: An antagonist with high affinity and selectivity for the human dopamine D4receptor. J. Med. Chem. 39, 1941 (1996)
10	A04	M 1387	56010-88-9	118.57	4-Methylpyrazole hydrochloride	Fomepizole	Biochemistry	Enzyme	Inhibitor	Alcohol dehydrogenase			Li, T.-K., and Theorell, H.,Acta Chem. Scand. 23, 892 (1969)
10	A05	M 2381	1019-45-0	308.34	5-Methoxy DMT oxalate	5-Methoxy-N,N-dimethyltryptamine hydrogen oxalate	Serotonin		Agonist				Winter, J.C., The paradox of 5-methoxy-N,N-dimethyltryptamine: an indoleamine hallucinogen that induces stimulus control via 5-HT1Areceptors. Pharmacol. Biochem. Behav. 65, 75 (2000)
10	A06	M 2901	25717-80-0	242.24	Molsidomine	SIN-10	Nitric Oxide		Donor				Nitz, R.E. and Fiedler, V.B.,Pharmacotherapy 7, 28 (1987)
10	A07	M 3668	17692-51-2	403.53	Metergoline	[[(8beta)-1,6-Dimethylergolin-8-yl]-methyl]carbamic acid phenylmethyl ester	Serotonin		Antagonist	5-HT2/5-HT1D	Insoluble		Miller, K.J., et al., Agonist activity of sumatriptan and metergoline at the human 5-HT1D beta receptor: further evidence for a role of the 5-HT1D receptor in the action of sumatriptan. Eur. J. Pharmacol. 227, 99-102 (1992)
10	A08	M 4531	6385-02-0	318.14	Meclofenamic acid sodium	2-([2,6-Dichloro-3-methylphenyl]amino)benzoic acid sodium	Prostaglandin	Enzyme	Inhibitor	COX / 5-Lipoxygenase			Boctor, A.M., et al.,Prostaglandins Leukotrienes Med. 23, 229 (1986)
10	A09	M 5391	56392-17-7	684.83	(±)-Metoprolol (+)-tartrate	1-(Isopropylamino)-3-(p-[beta-methoxyethyl]phenoxy)-2-propanol tartrate	Adrenoceptor		Antagonist	beta1	Yes	50 mg/ml	Brynne, L., et al., Concentration-effect relationship of l-propranolol and metoprolol in spontaneous hypertensive rats after exercise-induced tachycardia. J. Pharmacol. Exp. Ther. 286, 1152-1158 (1998)
10	A10	M 6316		486.53	MRS 1754	8-[4-[((4-Cyanophenyl)carbamoylmethyl)oxy]phenyl]-1,3-di(n-propyl)xanthine	Adenosine		Antagonist	A2B	Yes	<2.4 mg/ml	Kim, Y.-C. et al.,J. Med. Chem. 43, 1165-1172 (2000)
10	A11	M 6690	88191-84-8	382.46	MDL 28170	Z-Val-Phe-CHO	Cell Cycle	Enzyme	Inhibitor	Calpain I / II	Insoluble		Mehdi, S., et al., Inhibition of the proteolysis of rat erythrocyte membrane proteins by a synthetic inhibitor of calpain. Biochem. Biophys. Res. Comm. 157, 1117-1123 (1988)
10	B02	L-109	97964-56-2	481.40	Lorglumide sodium	CR 1409	Cholecystokinin		Antagonist	CCK-A	Yes	10 mg/ml	Makovec, F., et al., Pharmacological properties of lorglumide as a member of a new class of cholecystokinin antagonists Arzneim.-Forsch. 37, 1265-1268 (1987)
10	B03	L-134	105431-72-9	391.48	Linopirdine	DuP 996	Cholinergic		Releaser		Insoluble		Maciag, et al., Studies on the role of K+Cl-and Na+ion permeabilities in the acetylcholine release enhancing effects of linopirdine (DuP 996) in rat cortical slices J. Pharmacol. Exp. Ther. 271, 891-897 (1994)
10	B04	M 1404	31430-18-9	301.33	Nocodazole	R 17934	Cytoskeleton and ECM		Inhibitor	beta-tubulin	Insoluble		Luduena, R.F., and Roach, M.C, Tubulin sulfhydryl groups as probes and targets for antimitotic and antimicrotubule agents. Pharmacol. Ther. 49, 133-152 (1991)
10	B05	M 2398	5874-97-5	520.60	Metaproterenol hemisulfate		Adrenoceptor		Agonist	beta2			Krumins, A.M., and Barber, R., Examination of the effects of increasing Gs protein onb2-adrenergic receptor, Gs, and adenylyl cyclase interactions. Biochem. Pharmacol. 54, 61-72 (1997)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
10	B06	M 2922	66548-69-4	278.24	3-Methyl-6-(3-[trifluoromethyl]phenyl)-1,2,4-triazolo[4,3-b]pyridazine	CL 218,872	Benzodiazepine		Agonist	BZ1			McNamara, R.K., and Corcoran, M., CL 218,872 a triazolopyridazine with a selective affinity for the benzodiazepine BZ1 receptor subtype, retards the development and expression of amygdaloid-kindled seizures: effects of flumazenil. Epilepsy Res. 16, 19-26 (1993)
10	B07	U-106	121843-48-9	519.43	(-)-cis-(1S,2R)-U-50488 tartrate	(-)-(1S,2R)-cis-3,4-Dichloro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]benzeneacetamide tartrate	Neurotransmission		Ligand	Sigma receptor			de Costa, et al., Alterations in the stereochemistry of thek-selective opioid agonist U50488 results in high-affinityligands. J. Med. Chem. 32, 1996 (1989)
10	B08	M 4659	78415-72-2	211.23	Milrinone	1,6-Dihydro-2-methyl-6-oxo-[3,4'-bipyridine]-5-carbonitrile	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III	Insoluble		Weiss, H.R., et al., Cyclic GMP and cyclic AMP induced changes in control and hypertrophic cardiac myocyte function interact through cyclic GMP affected cyclic-AMP phosphodiesterases. Can. J. Physiol. Pharmacol. 77, 422-431 (1999)
10	B09	M 5435	219911-35-0	229.71	6-Methyl-2-(phenylethynyl)pyridine hydrochloride	MPEP hydrochloride	Glutamate		Antagonist	mGluR5	Yes	10 mg/ml	Gasparini, F. et al.,Neuropharmacology 38, 1493-1503 (1999)
10	B10	M 6383	362-07-2	302.42	2-methoxyestradiol	2-Hydroxyestradiol 2-methyl ether	Hormone		Metabolite	Estrogen	Insoluble		Yue, T., et al.,Mol. Pharmacol. 51, 951-962 (1997)
10	B11	M 6760	529-44-2	318.24	Myricetin	Cannabiscetin	Phosphorylation	Enzyme	Inhibitor	Casein Kinase II			Molina-Jimenez M.F., et al., Brain Res. 2004 May 29;1009(1-2):9-16
10	C02	L-110	109216-58-2	414.47	LY-278,584 maleate	1-Methyl-N-(8-methyl-8-azabicyclo[3.2.1]-oct-3-yl)-1H-indazole-3-carboxamide maleate	Serotonin		Antagonist	5-HT3	Yes		Fludzinski, et al., Indazoles as indole bio-isosteres: Synthesis and evaluation of the tropanyl ester and amide of indazole-3-carboxy-late as antagonists at the serotonin 5-HT3receptor. J. Med. Chem. 30, 1535-1537 (1987)
10	C03	L-135		340.86	L-741,626	(±)-3-[4-(4-Chlorophenyl)-4-hydroxypiperidinyl]methylindole	Dopamine		Antagonist	D2	Insoluble		Kulagowski, et al., 3-[[4-(4-Chlorophenyl)piperazin-1-yl]-methyl]-1H-pyrrolo[2,3-b]pyridine: An antagonist with high affinity and selectivity for the human dopamine D4receptor. J. Med. Chem. 39, 1941 (1996)
10	C04	M 1514	1975-81-1	280.28	N-omega-Methyl-5-hydroxytryptamine oxalate salt	N-omega-Methylserotonin	Serotonin		Ligand				Shapiro, D.A., Differential modes of agonist binding to 5-hydroxytryptamine(2A) serotonin receptors revealed by mutation and molecular modeling of conserved residues in transmembrane region 5. Mol. Pharmacol. 58, 877 (2000)
10	C05	M 2525	21535-47-7	300.83	Mianserin hydrochloride	1,2,3,4,10,14b-Hexahydro-2-methyldibenzo[c,f]pyryzino[1,2-a]azepine hydrochloride	Serotonin		Antagonist		Yes	3.4 mg/ml	Leitch, I.M., et al., Pharmacological evaluation of the histamine H1 and 5-HT blocking properties of 2-N-(carboxamidinonormianserin) (FCC5):in vitrostudies. J. Pharm. Pharmacol. 44, 315-320 (1992)
10	C06	M 3047	50924-49-7	259.22	Mizoribine	N'-(beta-D-Ribofuranosyl)-5-hydroxyimidazole-4-carboxamide	DNA Metabolism	Enzyme	Inhibitor	IMP dehydrogenase			Napoli, K.L.,,J. Inter. Fed. Clin. Chem. 4, 15 (1992)
10	C07	M 3778	17780-75-5	308.64	Clorgyline hydrochloride	N-Methyl-N-propargyl-3-(2,4-dichlorophenoxy)-propylamine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-A			Figueiredo, I.V., et al., The role of MAO-A and MAO-B in the metabolic degradation of noradrenaline in human arteries. J. Auton. Pharmacol. 18, 123-128 (1998)
10	C08	M 4796	146669-29-6	209.20	(±)-alpha-Methyl-4-carboxyphenylglycine	(±)-MCPG	Glutamate		Antagonist	Metabotropic			Schoepp, D.D., et al., LY354740 is a potent and highly selective group II metabotropic glutamate receptor agonist in cells expressing human glutamate receptors. Neuropharmacology 36, 1-11 (1997)
10	C09	M 5441	116666-63-8	568.56	Mibefradil dihydrochloride	Ro 40-5967; (1S,2S)-2-[2[[3-(2-benzimidazolylpropyl]methylamino]ethyl]-6-fluoro-1,2,3,4-tetrahydro-1-isopropyl-2-naphthyl methoxyacetate dihydrochloride	Ca2+ Channel		Blocker	T-type	Yes	24 mg/ml	Mishra, S.K., and Hermsmeyer, K.,CRC Handbook of Microbiology 75, 144 (1994)
10	C10	M 6500	156-57-0	113.61	Cysteamine hydrochloride	Mercaptamine; MEA hydrochloride	Somatostatin		Depleter				Khomenko T, et al., Biochem Biophys Res Commun. 2004 Apr 23;317(1):121-7
10	C11	M 7033	53308-83-1	248.28	NG-Monomethyl-L-arginine acetate	L-NMMA	Nitric Oxide	Enzyme	Inhibitor	NOS			Sakuma, I., et al., Identification of arginine as a precursor of endothelium-derived relaxing factor. Proc. Natl. Acad. Sci. USA 85, 8664-8667 (1988)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
10	D02	L-118	18016-80-3	454.53	R(+)-Lisuride hydrogen maleate	R(+)-N'-[(8alpha)-9,10-Didehydro-6-methylergolin-8-yl]-N,N,-diethylurea hydrogen maleate	Dopamine		Agonist	D2	Insoluble		Sundaram, H., et al., Characterisation of recombinant serotonin 5-HT1A receptors expressed in Chinese hamster ovary cells: the agonist [3H]lisuride labels free receptor and receptor coupled to G protein. J. Neurochem. 65, 1909-1916 (1995)
10	D03	L-137	148700-85-0	439.83	L-733,060 hydrochloride	(2S,3S) 3-([3,5-Bis(trifluoromethyl)phenyl]methoxy)-2-phenylpiperidine hydrochloride	Tachykinin		Antagonist	NK1	Insoluble		Seabrook, G., et al., L-733,060a novel tachykinin NK receptor antagonist: effects in [Ca2+] immobilisation cardiovascular and dural extravasation assays Eur. J. Pharmacol. 317, 129 (1996)
10	D04	M 1559		278.14	Moxonidine hydrochloride	BDF-5895	Adrenoceptor		Agonist	alpha2A			Bing, C., et al., The effect of moxonidine on feeding and body fat in obese Zucker rats: role of hypothalamic NPY neurones. Br. J. Pharmacol. 127, 35-42 (1999)
10	D05	M 2537	73573-88-3	390.52	Mevastatin	Compactin	Antibiotic	Enzyme	Inhibitor	Ras, Rho			Brown, M.S., et al., Induction of 3-hydroxy-3-methylglutaryl coenzyme A reductase activity in human fibroblasts incubated with compactin (ML-236B), a competitive inhibitor of the reductase. J. Biol. Chem. 253, 1121 (1978)
10	D06	M 3127	867-44-7	278.37	S-Methylisothiourea hemisulfate	Carbamimidothioic acid methyl ester hemisulfate	Nitric Oxide	Enzyme	Inhibitor	iNOS			Southan G.J., Br J Pharmacol. 1995 Jan;114(2):510-6
10	D07	M 3808	101204-49-3	459.30	MRS 2179	2'-Deoxy-N6-methyl adenosine 3',5'-diphosphate diammonium salt	P2 Receptor		Antagonist	P2Y1	Yes	11 mg/ml	Baurande,Eur. J. Pharmacol. 412, 213 (2001)
10	D08	M 4910	6481-48-7	198.10	1-Methylhistamine dihydrochloride		Histamine		Metabolite				Eglen, et al., The interaction of parafluoro-hexahydro-sila-diphenidol at muscarinic receptorsin vitro. Br. J. Pharmacol. 99, 637 (1990)
10	D09	M 5501	1867-73-8	281.27	N6-Methyladenosine	6-Methylaminopurine-9-ribofuranoside	Adenosine		Agonist		Yes		Daly, et al., Structure-activity relationships for N6-substituted adenosines at a brain A1adenosine receptor with a comparison to an A2adenosine receptor regulating coronary blood flow. Biochem. Pharmacol. 35, 2467 (1986)
10	D10	M 6517	104809-20-3	517.08	alpha,beta-Methylene adenosine 5'-triphosphate dilithium	alpha,beta-Methylene ATP, AMP-CPP dilithium	P2 Receptor		Agonist	P2X > P2Y	Yes	21 mg/ml	Burnstock, et al., Is there a basis for distinguishing two types of P2-purinoceptor? Gen. Pharmacol. 16, 433 (1985)
10	D11	M 7065	111466-41-2	375.90	MK-912	L-657,743 hydrochloride	Adrenoceptor		Agonist	alpha2A	Yes	16 mg/ml	Murrin, L.C. et al.,, Inverse agonism at alpha(2)-adrenoceptors in native tissue Eur. J. Pharmacol. 398, 185-191 (2000)
10	E02	L-119	144425-84-3	598.49	L-703,606 oxalate	cis-2-(Diphenylmethyl)-N-[(2-iodophenyl)methyl]-1-azabicyclo[2.2.2]octan-3-amine oxalate	Tachykinin		Antagonist	NK1	Yes	<2.0 mg/ml	Fong, et al., Localization of agonist and antagonist binding domains of the human neurokinin-1 receptor J. Biol. Chem. 267, 25664 (1992)
10	E03	M 0763	7232-21-5	336.26	Metoclopramide hydrochloride		Dopamine		Antagonist	D2	Yes		De Winter, B.Y., Effect of different prokinetic agents and a novel enterokinetic agent on postoperative ileus in rats. Gut 45, 713 (1999)
10	E04	M 1692		398.42	MRS 1845	N-Propargylnitrendipene	Ca2+ Channel		Inhibitor	SOC	Insoluble		Harper, J.L, et al., Biochem Pharmacol. 2003 Feb 1;65(3)329-38
10	E05	M 2547	78033-08-6	266.30	8-Methoxymethyl-3-isobutyl-1-methylxanthine	8-Methoxymethyl-IBMX	Cyclic Nucleotides	Enzyme	Inhibitor	PDE I			Wells, J.N., and Miller, J.R.,Meth. Enzymol. 159, 489 (1988)
10	E06	M 3184	77257-42-2	437.37	MG 624	N,N,N-Triethyl-2-(4-trans-stilbenoxy)ethylammonium iodide	Cholinergic		Antagonist	Nicotinic	Insoluble		Gotti, C., et al.,Br. J. Pharmacol. 124, 1197 (1998)
10	E07	M 3935	71125-38-7	373.39	Meloxicam sodium	4-Hydroxy-2-methyl-N-(5-methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide	Prostaglandin	Enzyme	Inhibitor	COX-2	Yes		Safieh-Garabedian, B., The role of cytokines and prostaglandin-E(2) in thymulin induced hyperalgesia. Neuropharmacology 39, 1653 (2000)
10	E08	M 5154	964-52-3	315.84	Moxisylyte hydrochloride	4-Dimethylaminoethoxy-5-isopropyl-2-methylphenyl acetate hydrochloride	Adrenoceptor		Antagonist	alpha1			Marquer, C., and Bressolle, F., Moxisylyte: a review of its pharmacodynamic and pharmacokinetic properties, and its therapeutic use in impotence. Fundam. Clin. Pharmacol. 12, 377-387 (1998)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
10	E09	M 5560		232.60	(S)-MAP4 hydrochloride	(S)-2-Amino-2-methyl-4-phosphonobutanoate hydrochloride	Glutamate		Antagonist	mGluR4,6,7			Salt, T.E. and Eaton, S.A., Distinct presynaptic metabotropic receptors for L-AP4 and CCG1 on GABAergic terminals: pharmacological evidence using novela-methyl derivative mGluR antagonists, MAP4 and MCCG, in the rat thalamusin vivo. Neuroscience 65, 5 (1995)
10	E10	M 6524	61-16-5	247.72	Methoxamine hydrochloride		Adrenoceptor		Agonist	alpha1			Lee, R.H., and Heckman, C.J., Enhancement of bistability in spinal motoneuronsin vivoby the noradrenergica1agonist methoxamine. J. Neurophysiol. 81, 2164 (1999)
10	E11	M 7277	555-29-3	211.22	(±)-3-(3,4-dihydroxyphenyl)-2-methyl-DL-alanine	DL-alpha-Methyl-DOPA	Neurotransmission	Enzyme	Inhibitor	L-aromatic amino acid decarboxylase			van Zwieten., P.A., Chalmers, J.P., Different types of centrally acting antihypertensives and their targets in the central nervous system. Cardiovasc. Drugs Ther. 8, 787 (1994)
10	F02	L-121	71-82-9	433.51	Levallorphan tartrate	17-(2-Propenyl)morphinan-3-ol tartrate	Opioid		Antagonist		Yes		Selley, D.E., et al., mu-Opioid receptor-stimulated guanosine-5'-O-(gamma-thio)-triphosphate binding in rat thalamus and cultured cell lines: signal transduction mechanisms underlying agonist efficacy. Mol. Pharmacol. 51, 87-96 (1997)
10	F03	M 0814		335.23	R(-)-Me5	1-(2,6-Dimethylphenoxy)-3-methyl-2-butanamine hydroiodide	Na+ Channel		Antagonist		Yes	22 mg/ml	Annamaria de Luca,Mol. Pharmacol. 57, 268 (2000)
10	F04	M 1777	69567-10-8	177.20	N-Methyl-1-deoxynojirimycin	1,5-Dideoxy-1,5-imino-1-methyl-D-sorbitol	Biochemistry	Enzyme	Inhibitor	Glucosidase			Bause, E., et al.,FEBS Lett. 206, 208 (1986)
10	F05	M 2692	118414-82-7	494.08	MK-886	3-[3-tert-Butylthio-1-(4-chlorobenzyl)-5-isopropyl-1H-indol-2-yl]-2,2-dimethylpropionic acid, sodium salt	Leukotriene		Inhibitor		Insoluble		Rouzer et al, MK886, a potent and specific leukotriene biosynthesis inhibitor blocks and reverses the membrane association of 5-lipoxygenase in ionophore-challenged leukocytes J. Biol. Chem. 265, 1436-1442 (1990)
10	F06	M 3262	6384-92-5	147.13	N-Methyl-D-aspartic acid	NMDA	Glutamate		Agonist	NMDA			Collingridge, G. L., et al., Excitatory amino acid receptors in the vertebrate central nervous system Pharmacol. Rev. 40, 143-210 (1989)
10	F07	M 4008	480-16-0	302.24	Morin	2',3,4',5,7-Pentahydroxyflavone	Cell Stress		Inhibitor	Antioxidant			Zeng, L.H., et al., Morin hydrate protects cultured rat glomerular mesangial cells against oxyradical damage. Life Sci. 55, PL351-PL357 (1994)
10	F08	M 5171	174063-92-4	265.33	S-Methyl-L-thiocitrulline acetate	N5-[Imino(methylthio)methyl]-L-ornithine acetate	Nitric Oxide	Enzyme	Inhibitor	NOS			Narayanan, K. and Griffith, O.W.,J. Med. Chem. 37, 885 (1994)
10	F09	M 5644	16662-47-8	521.10	(±)-Methoxyverapamil hydrochloride	D600; Gallopamil	Ca2+ Channel		Antagonist	L-type			Buckler, K.J., et al.,J. Physiol. London, England 513, 819 (1998)
10	F10	M 6545	70476-82-3	517.41	Mitoxantrone	1,4-Dihydroxy-5,8-bis([2-([2-hydroxyethyl]amino)ethyl]amino)-9,10-anthracenedione	DNA Metabolism		Inhibitor				Fox, K.R., et al., DNA sequence preferences for the anti-cancer drug mitoxanthrone and related anthraquinones revealed by DNase I footprinting. FEBS Lett. 202, 289-94 (1986)
10	F11	M 7684		461.21	MRS 2159		P2 Receptor		Antagonist	P2X1	Yes	>10 mg/ml	Kim, et al.,Drug Dev. Res. 45, 52-66 (1998)
10	G02	L-122	159701-44-7	338.46	S-(-)-Lisuride	S(-)-N'-[(8a)-9,10-Didehydro-6-methylergolin-8-yl]-N,N-diethyl-urea	Dopamine		Agonist	D2			Ahlenius, et al., Antagonism by lisuride and 8-OH-DPAT of 5-HTP-induced prolongation of the performance of male rat sexual behavior Eur. J. Pharmacol. 110, 379-381 (1985)
10	G03	M 1022	19408-84-5	307.44	Dihydrocapsaicin	8-Methyl-N-vanillylnonanamide	Vanilloid		Agonist				Miller, M.S., et al., Dihydrocapsaicin-induced hypothermia and substance P depletion. Eur. J. Pharmacol. 83, 3 (1982)
10	G04	M 1809	212329-37-8	399.56	MRS 1523	3-propyl-6-ethyl-5-[(ethylthio)carbonyl]-2-phenyl-4-propyl-3-pyridine carboxylate	Adenosine		Antagonist	A3	Insoluble		Li, A.-H. et al.,J. Med. Chem. 41, 3186 (1998)
10	G05	M 2727	31828-71-4	215.73	Mexiletene hydrochloride	1-(2,6-Xylyloxy)-2-aminopropane	Na+ Channel		Blocker				Sicouri, S., et al., Effects of sodium channel block with mexiletine to reverse action potential prolongation inin vitromodels of the long term QT syndrome. J. Cardiovasc. Electrophysiol. 8, 1280-1290 (1997)
10	G06	M 3281	7361-31-1	245.71	alpha-Methyl-DL-tyrosine methyl ester hydrochloride	AMPT	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase			

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
10	G07	M 4145	38304-91-5	209.25	Minoxidil		K+ Channel		Activator	ATP sensitive			Kourie, J.I., et al., Effects of ATP-sensitive potassium channel regulators on chloride channels in the sarcoplasmic reticulum vesicles from rabbit skeletal muscle. J. Membr. Biol. 164, 47-58 (1998)
10	G08	M 5250	73-31-4	232.28	Melatonin	N-[2-(5-Methoxyindol-3-yl)ethyl]acetamide	Melatonin		Agonist		Yes	0.1 mg/ml	Reiter, R.J., et al., Melatonin as a pharmacological agent against neuronal loss in experimental models of Huntington's disease, Alzheimer's disease and parkinsonism Ann. N.Y. Acad. Sci. 890, 471-485 (1999)
10	G09	M 5685	221225-04-3	276.29	Metrazoline oxalate	1H-Imidazole, 4,5-dihydro-2-[(1E)-2-(2-methylphenyl)ethenyl,-ethandioate	Imidazoline		Ligand		Yes	16 mg/ml	Polidori, C. et al.,Eur. J. Pharmacol. 392, 41-49 (2000)
10	G10	M 6628	66-83-1	226.71	O-Methylserotonin hydrochloride	Mexamine hydrochloride	Serotonin		Agonist				el Mansari, M., Blier, P., Functional characterization of 5-HT1Dautoreceptors on the modulation of 5-HT release in guinea-pig mesencephalic raphe, hippocampus and frontal cortex. Br. J. Pharmacol. 118, 681 (1996)
10	G11	G 5793		534.06	GR 127935 hydrochloride	N-[4-Methoxy-3-(4-methyl-1-piperazinyl)phenyl]-2'-methyl-4'-(5-methyl-1,2,4-oxadiazol-3-yl)-1,1'-biphenyl-4-carboxamide hydrochloride	Serotonin		Antagonist	5-HT1B/1D	Yes	14 mg/ml	DeVries, P. et al.,Br. J. Pharmacol. 118, 85-92 (1996)
10	H02	L-131		363.29	L-745,870 hydrochloride	3-[[4-(4-Chlorophenyl)piperazin-1-yl]methyl]-1H-pyrrolo[2,3-b]pyridine hydrochloride	Dopamine		Antagonist	D4	Yes	0.2 mg/ml	Patel, et al., Biological profile of L-745,870 a selective antagonist with high affinity for the dopamine D4receptor J. Pharmacol. Exp. Ther. 283, 636 (1997)
10	H03	M 1275	26159-34-2	252.25	(-)-Naproxen sodium	(S)-6-Methoxy-alpha-methyl-2-naphthaleneacetic acid sodium	Prostaglandin	Enzyme	Inhibitor	COX			Barnett, J., et al.,Biochim. Biophys. Acta 1209, 130 (1994)
10	H04	M 2011	148-82-3	305.21	Melphalan	L-Phenylalanine mustard	DNA Metabolism		Intercalator	GCC			Nawata, S., et al., Isolated lung perfusion with melphalan for the treatment of metastatic pulmonary sarcoma. J. Thorac. Cardiovasc. Surg. 112, 1542-1548 (1996)
10	H05	M 2776	57432-61-8	455.52	Methylergonovine maleate	Methergine maleate	Dopamine		Antagonist		Slighty Soluble	25 mg/ml	Karila-Cohen, D., Influence of the endothelium, nitric oxide and serotonergic receptors on coronary vasomotor responses evoked by ergonovine in conscious dogs. Br. J. Pharmacol. 127, 1039 (1999)
10	H06	M 3315	199106-13-3	514.49	MJ33	1-Hexadecyl-3-(trifluoroethyl)-sn-glycero-2-phosphomethanol lithium	Lipid	Enzyme	Inhibitor	PLA2			Chen, J.W., et al.,J. Biol. Chem. 275, 28421 (2000)
10	H07	M 4251	1477-68-5	203.67	3-Methoxy-4-hydroxyphenethylamine hydrochloride	3-Methoxytyramine hydrochloride	Dopamine		Metabolite	L-DOPA			Wood, P.L., Intracerebral dialysis: direct evidence for the utility of 3-MT measurements as an index of dopamine release. Life Sci. 41, 1 (1987)
10	H08	M 5379	15985-39-4	180.23	L-Methionine sulfoximine	L-S-(3-Amino-3-carboxypropyl)-S-methylsulfoximine	Glutamate	Enzyme	Inhibitor	Glutamine synthase			Ginefri-Gayet, M., and Gayet, J., Hypothermia induced by infusion of methionine sulfoximine into the dorsal raphe nucleus of the rat: involvement of 5-HT1A and GABABreceptor. Eur. J. Pharmacol. 235, 189-196 (1993)
10	H09	M 6191		276.68	GW9662	2-Chloro-5-nitro-N-phenyl-benzamide	Transcription		Inhibitor	PPAR-gamma	Insoluble		Lehmann, J. M. et al, An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor gamma (PPAR gamma). J. Biol. Chem. 270, 12953-12956 (1995)
10	H10	M 6680	26046-90-2	218.54	Se-(methyl)selenocysteine hydrochloride	Se-MSC	Cell Cycle		Inhibitor				Spallholz, J.E., et al., Dimethyldiselenide and methylseleninic acid generate superoxide in anin vitrochemiluminescence assay in the presence of glutathione: implications for the anticarcinogenic activity ofL-selenomethionine andL-Se-methylselenocysteine. Nutr. Cancer 40, 34-41 (2001)
10	H11	D 8941		402.44	2,6-Difluoro-4-[2-(phenylsulfonylamino)ethylthio]phenoxyacetamide	PEPA	Glutamate		Agonist	AMPA			Sekiguchi, et al., Br. J. Pharmacol., 136, 1033-1041 (2002).,Br. J. Pharmacol. 136, (2002)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
11	A02	M 8046	84371-65-3	429.61	Mifepristone	RU-486	Hormone		Antagonist	Progesterone			Lecureur, V., et al., The antiprogestatin drug RU 486 potentiates doxorubicin cytotoxicity in multidrug resistant cells through inhibition of P-glycoprotein function. FEBS Lett. 355, 187-194 (1994)
11	A03	M 9511	13614-98-7	492.96	Minocycline hydrochloride		Cell Cycle	Enzyme	Inhibitor				Tamargo, R., et al.,Cancer Res. 51, 672 (1991)
11	A04	M-108	77086-19-2	337.38	(-)-MK-801 hydrogen maleate	(5S,10R)-(–)-5-Methyl-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine	Glutamate		Antagonist	NMDA			Wong, E.H.F., et al., The anticonvulsant MK-801 is a potent NMDA antagonist Proc. Natl. Acad. Sci. USA 83, 7104-7108 (1986)
11	A05	M-149	20229-30-5	452.66	Methiothepin mesylate	1-[10,11-Dihydro--8-(methylthio)dibenzo[b,f]thiepin-10-yl]-4-methylpiperazine mesylate	Serotonin		Antagonist	5-HT1E, 5-HT1F, 5-HT6	Yes	13 mg/ml	Schoeffter, P., et al., Functional endogenously expressed 5-hydroxytryptamine 5-ht7 receptors in human vascular smooth muscle cells Br. J. Pharmacol. 117, 993-994 (1996)
11	A06	M-216		376.20	MDL 105,519	(Z)-2-Carboxy-4,6-dichloroindole-3-(2'-phenyl-2'-carboxy)-ene	Glutamate		Antagonist	NMDA-Glycine	Insoluble		Baron, et al., Pharmacological characterization of MDL-105,519 an NMDA receptor glycine site antagonist. Eur. J. Pharmacol. 323, 181-192 (1997)
11	A07	N 1771	105618-26-6	734.73	nor-Binaltorphimine dihydrochloride	nor-BNI dihydrochloride	Opioid		Antagonist	kappa			Wettstein, J.G. and Grouhel, A.,Pharmacol. Biochem. Behav. 53, 411 (1995)
11	A08	N 4034	99389-57-8	234.62	NCS-356	4-(4-chlorophenyl)-4-hydroxy-2-butanoic acid	GABA		Agonist	gamma-Hydroxybutyrate	Yes	18 mg/ml	Maitre, M.,Prog. Neurobiol. 51, 337 (1997)
11	A09	N 5260	65-31-6	462.41	(-)-Nicotine hydrogen tartrate salt	(-)-1-Methyl-2-(3-pyridyl)pyrrolidine	Cholinergic		Agonist	Nicotinic	Yes	50 mg/ml	Brioni, J.D., et al., The pharmacology of (-)-nicotine and novel cholinergic channel modulators. Adv. Pharmacol. 37, 153-214 (1997)
11	A10	N 7510	54527-84-3	516.00	Nicardipine hydrochloride	YC-93 hydrochloride	Ca2+ Channel		Antagonist	L-type	Insoluble		Matsuda, T. and Kurata, Y., Effects of nicardipine and bupivacaine on early after depolarization in rabbit sinoatrial node cells: a possible mechanism of bupivacaine-induced arrhythmias. Gen. Pharmacol. 33, 115-125 (1999)
11	A11	N 8652	104869-31-0	1162.89	NF 023	8,8'-[carbonylbis(imino-3,1-phenylene carbonylimino)]bis(1,3,5-naphthalene-trisulfonic acid) hexasodium salt	P2 Receptor		Antagonist	P2X1	Yes		Soto, F. et al.,Neuropharmacology 38, 141 (1999)
11	B02	M 8131	672-87-7	195.22	L-alpha-Methyl-p-tyrosine	(S)-alpha-Methyltyrosine	Neurotransmission	Enzyme	Inhibitor	Tyrosine hydroxylase			Ross S.B., et al., Naunyn Schmiedebergs Arch Pharmacol. 1988 May;337(5):512-8
11	B03	M 9651	10347-81-6	313.87	Maprotiline hydrochloride	9-(gamma-Methylaminopropyl)-9,10-dihydro-9,10-ethanoanthracene hydrochloride	Adrenoceptor		Inhibitor	Reuptake	Yes	50 mg/ml	Hosli, E., and Hosli, L., Autoradiographic studies on the uptake of3H-noradrenaline and3H-serotonin by neurones and astrocytes in explant and primary cultures of rat CNS: effects of antidepressants Int. J. Dev. Neurosci. 13, 897-908 (1995)
11	B04	M-109	78263-90-8	306.32	2-Methyl-5-hydroxytryptamine maleate	2-Methylserotonin maleate	Serotonin		Agonist	5-HT3	Yes	4.5 mg/ml	Ismaiel, A.M., 5-HT1and 5-HT2binding profiles of the serotonergic agents alpha-methylserotonin and 2-methylserotonin. J. Med. Chem. 33, 755 (1990)
11	B05	M-152	34983-48-7	539.24	2-Methylthioadenosine diphosphate trisodium	2-(Methylthio)-adenosine 5'-trihydrogen diphosphate trisodium	P2 Receptor		Agonist	P2Y	Yes	35 mg/ml	Satchell, et al., Inhibitory effects of adenine nucleotide analogs of the isolated guinea-pig taenia coli J. Pharmacol. Exp. Ther. 195, 540-548 (1975)
11	B06	M-225		371.40	Metrifudil	N-[(2-Methylphenyl)methyl]-adenosine	Adenosine		Agonist	A2	Yes	0.3 mg/ml	Klitgaard, Contrasting effects of adenosineA1and A2receptor ligands in different chemoconvulsive rodent models. Eur. J. Pharmacol. 242, 221 (1993)
11	B07	N 2001	114-80-7	303.20	Neostigmine bromide		Cholinergic	Enzyme	Inhibitor	Acetylcholinesterase	Yes	1.0 mg/ml	Weinstock, M., et al., Antagonism of the cardiovascular and respiratory depressant effects of morphine in the conscious rabbit by physostigmine. J. Pharmacol. Exp. Ther. 218, 504-508 (1981)
11	B08	N 4148	57564-91-7	336.33	S-Nitrosoglutathione	GSNO	Nitric Oxide		Donor				Jansen, A., et al., The relaxant properties in guinea pig airways of S-nitrosothiols. J. Pharmacol. Exp. Ther. 261, 154-160 (1992)
11	B09	N 5501	2149-70-4	219.20	NG-Nitro-L-arginine	L-NOARG; L-NNA	Nitric Oxide	Enzyme	Inhibitor	NOS			Mayer R.D., J Pharmacol Exp Ther. 2003 Jul;306(1):43-50. Epub 2003 Apr 03
11	B10	N 7634	21829-25-4	346.34	Nifedipine		Ca2+ Channel		Antagonist	L-type			Segawa, D., et al., Cardiac inotropic vs. chronotropic selectivity of isradipine, nifedipine, and clevidipine, a new ultrashort-acting dihydropyridine. Eur. J. Pharmacol. 380, 123-128 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
11	B11	N 8659	52208-23-8	272.70	Nimustine hydrochloride	ACNU	DNA		Intercalator				Shiraishi, A., et al, Increased susceptibility to chemotherapeutic alkylating agents of mice deficient in DNA repair methyltransferase. Carcinogenesis 21, 1879 (2000)
11	C02	S 1068	162100-15-4	337.81	SB-215505	6-Chloro-5-methyl-1-5-quinolycarbamoyl-indoline	Serotonin		Antagonist	5-HT2B	Insoluble	11 mg/ml @ 60oC	Reavill, C. et al.,Br. J. Pharmacol. 126, 572-574 (1999)
11	C03	M 9656	113276-94-1	338.26	H-8 dihydrochloride	N-[2-(Methylamino)ethyl]-5-isoquinolinesulfonamide dihydrochloride	Phosphorylation	Enzyme	Inhibitor	PKA, PKG			Hidaka, H., et al.,Biochemistry 23, 5036 (1984)
11	C04	M-110	304-52-9	306.32	alpha-Methyl-5-hydroxytryptamine maleate	alpha-Methylserotonin maleate	Serotonin		Agonist	5-HT2	Yes	8.0 mg/ml	Ismaiel, A.M., et al., 5-HT1and 5-HT2binding profiles of the serotonergic agentsa-methylserotonin and 2-methylserotonin. J. Med. Chem. 33, 755-758 (1990)
11	C05	M-153		397.97	Mesulergine hydrochloride	CU 32-085 hydrochloride	Dopamine		Agonist		Yes	4.0 mg/ml	Enz, A., Biphasic influence of a 8-a-amino-ergoline, CU 32-085, on striatal dopamine synthesis and turnover in vivo in the rat. Life Sci. 29, 2227 (1981)
11	C06	M-226		507.44	p-MPPF dihydrochloride	4-Fluoro-N-(2-[4-(2-methoxyphenyl)1-piperazinyl]ethyl)-N-(2-pyridinyl)benzamide dihydrochloride	Serotonin		Antagonist	5-HT1A	Yes	19 mg/ml	Thielen, R.J., Frazer, A., Effects of novel 5-HT1Areceptor antagonists on measures of post-synaptic 5-HT1Areceptor activationin vivo. Life Sci. 56, 0 (1995)
11	C07	N 2034		256.35	CR 2249	Nebostinel	Glutamate		Agonist	NMDA-Glycine			Lanza, M., et al., Characterization of a novel putative cognition enhancer mediating facilitation of glycine effect on strychnine-resistant sites coupled to NMDA receptor complex. Neuropharmacology 36, 1057-1064 (1997)
11	C08	N 4159	131733-92-1	242.25	NCS-382	1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid	GABA		Antagonist	gamma-Hydroxybutyrate	Yes	22 mg/ml	Maitre, M.,J. Pharmacol. Exp. Ther. 255, 657 (1990)
11	C09	N 5504	550-99-2	246.74	Naphazoline hydrochloride	2-(1-Naphthylmethyl)imidazoline nitrate	Adrenoceptor		Agonist	alpha			Regunathan, S., et al., Imidazoline receptors and agmatine in blood vessels: a novel system inhibiting vascular smooth muscle proliferation. J. Pharmacol. Exp. Ther. 276, 1272-1282 (1996)
11	C10	N 7758	51481-60-8	363.84	Naloxone hydrochloride		Opioid		Antagonist		Yes	50 mg/ml	Mitsushima, D., et al., Fos expression in gonadotropin-releasing hormone neurons by naloxone or bicuculline in intact male rats. Brain Res. 839, 209-212 (1999)
11	C11	N 8784	29745-04-8	168.15	Norcantharidin		Phosphorylation	Enzyme	Inhibitor	PP2A			Hong, C. Y., et al., Norcantharidin-induced post-G(2)/M apoptosis is dependent on wild-type p53 gene. Biochem. Biophys. Res. Comm. 276, 278 (2000)
11	D02	M 8878	616-47-7	82.11	1-Methylimidazole	Methimazole	Prostaglandin	Enzyme	Inhibitor	COX			Shao W., et al., Biochem Biophys Acta. 1995 Apr 27;1248(2):177-85
11	D03	M-001		334.42	Proglumide	4-Benzoylamino-5-dipropylamino-5-oxopentanoic acid	Cholecystokinin		Antagonist				
11	D04	M-116	17560-51-9	365.84	Metolazone		Ion Pump		Inhibitor	Na+/Cl- transporter			Chan P., et al., J Clin Pharmacol. 1997 Mar;37(3);253-7
11	D05	M-166		280.67	MDL 26,630 trihydrochloride	1,5-(Diethylamino)piperidine trihydrochloride	Glutamate		Agonist	NMDA-Polyamine			Reynolds, et al., 1,5-(Diethylamino)piperidine, a novel spermidine analogue that more specifically activates the N-methyl-D-aspartate receptor-associated polyamine site. Mol. Pharmacol. 41, 989 (1992)
11	D06	M-231		391.90	(-)-3-Methoxynaltrexone hydrochloride		Opioid		Antagonist		Yes	22 mg/ml	Brown, et al., 3-Methoxynaltrexonea selective heroin/morphine-6b-glucuronide antagonist. FEBS Lett. 412, 35-38 (1997)
11	D07	N 2255	38048-32-7	419.42	S-(4-Nitrobenzyl)-6-thioinosine	NBTI	Adenosine		Inhibitor	Uptake	Insoluble		Tandon, et al.,J. Neurochem. 60, 2124 (1993)
11	D08	N 4382	337405-8	254.22	Nalidixic acid sodium	1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid sodium	Antibiotic	Enzyme	Inhibitor	DNA Gyrase			Aoyama, H., Avian myeloblastosis virus reverse transcriptase inhibition by nalidixic acid. Mol. Cell Biochem. 108, 169-174 (1991)
11	D09	N 5636	504-88-1	119.08	3-Nitropropionic acid		Cell Stress		Toxin				Schulz, J.B., et al., The role of mitochondrial dysfunction and neuronal nitric oxide in animal models of neurodegenerative diseases. Mol. Cell Biochem. 174, 193-197 (1997)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
11	D10	N 7778	2942-42-9	163.14	7-Nitroindazole		Nitric Oxide	Enzyme	Inhibitor	nNOS			Garthwaite, J., Glutamate, nitric oxide and cell-cell signalling in the nervous system. Trends Neurosci. 14, 60-67 (1991)
11	D11	N 9007	912-60-7	449.89	Noscapine hydrchloride	Narcotine	Opioid		Ligand				Mahmoudian M, et al., Eur J Clin Pharmacol. 2003 Nov;59(8-9):597-81. Epub 2003 Sep 27
11	E02	M 9020	826-39-1	203.76	Mecamylamine hydrochloride		Cholinergic		Antagonist	Nicotinic	Yes	47 mg/ml	Castillo, P.E., et al., Multiple and opposing roles of cholinergic transmission in the main olfactory bulb. J. Neurosci. 19, 9180-9191 (1999)
11	E03	M-003	14611-52-0	223.75	R-(-)-Deprenyl hydrochloride	Selegiline	Neurotransmission	Enzyme	Inhibitor	MAO-B	Yes		Heikkila, R.E., et al., Protection against the dopaminergic neurotoxicity of MPTP by monoamine oxidase inhibitors. Nature 311, 467-469 (1984)
11	E04	M-120	96316-00-6	396.57	Metaphit methanesulfonate	1-(1-[3-Isothiocyanato]phenyl)cyclohexylpiperidine methansulfonate	Opioid		Antagonist	sigma	Yes		French, E.D., et al., Metaphit, a proposed phencyclidine (PCP) antagonist prevents PCP-induced locomotor behavior through mechanisms unrelated to specific blockade of PCP receptors Eur. J. Pharmacol. 140, 267 (1987)
11	E05	Z 4626		367.92	ZM 39923 hydrochloride	3-(N-Benzyl-N-isopropyl)amino-1-(naphthalen-2-yl)propan-1-one hydrochloride	Phosphorylation	Enzyme	Inhibitor	JNK-3			Roth, H., Research into the photochemical synthesis of ephedrine-like compounds; I. Photopinacolization of 3-aminopropiophenones. Arch. Pharm. (Weinheim) 309, 2-11 (1976)
11	E06	N 0630	4394-00-7	282.22	Niflumic acid	2-(3-[Trifluoromethyl]anilino)nicotinic acid	Prostaglandin	Enzyme	Inhibitor	COX-2			Barnett, J., et al.,Biochim. Biophys. Acta 1209, 130 (1994)
11	E07	N 3136	16676-29-2	377.87	Naltrexone hydrochloride	17-(Cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxymorphinan-6-one hydrochloride	Opioid		Antagonist				Powell, K.R. and Holtzman, S.G., Differential antagonism of the rate-decreasing effects ofk-opioid receptor agonists by naltrexone and norbinaltorphimin. Eur. J. Pharmacol. 377, 21-28 (1999)
11	E08	N 4396	59052-16-3	393.91	Nalbuphine hydrochloride		Opioid		Antagonist		Yes		Gerak, L.R. and France, C.P, Discriminative stimulus effects of nalbuphine in rhesus monkeys. J. Pharmacol. Exp. Ther. 276, 523-531 (1996)
11	E09	N 5751	51298-62-5	269.69	NG-Nitro-L-arginine methyl ester hydrochloride	L-NAME hydrochloride	Nitric Oxide	Enzyme	Inhibitor	NOS	Yes	50 mg/ml	Rees, D.D., et al., Characterization of three inhibitors of endothelial nitric oxide synthasein vitroandin vivo. Br. J. Pharmacol. 101, 746-752 (1990)
11	E10	N 7904		363.42	NS 521 oxalate	1-(1-Butyl)-4-(2-oxo-1-benzimidazolinyl)piperidine oxalate	Glutamate		Modulator	Benzimidazolone	Yes	10 mg/ml	Gronborg, M., et al ,J. Pharmacol. Exp. Ther. 290, 348 (1999)
11	E11	N 9765	68935-273	548.60	(+)-Nicotine (+)-di-p-toluoyl tartrate	R(+)-3-(1-Methyl2-pyrrolidinyl)pyridinium (+)di-p-toluoyl tartrate	Cholinergic		Agonist	Nicotinic	Yes		
11	F02	M 9125	135-23-9	297.85	Methapyrilene hydrochloride	N,N-Dimethyl-N'-(2-pyridinyl)-N'-(2-thienylmethyl)-1,2-ethanediamine hydrochloride	Histamine		Antagonist	H1			Noguchi, S., et al., The suppression of olfactory bulbectomy-induced muricide by antidepressants and antihistamines via histamine H1 receptor blocking. Physiol. Behav. 51, 1123-1127 (1992)
11	F03	M-104	2936-25-6	209.72	(±)-Muscarine chloride	Tetrahydro-4-hydroxy-N,N,N,5-tetramethyl-2-furanmethanammonium chloride	Cholinergic		Agonist	Muscarinic			Barabara, J. G., Pre-and post-synaptic muscarinic receptors in thin slices of rat adrenal gland. Eur. J. Neurosci. 10, 3535 (1998)
11	F04	M-129	555-30-6	211.22	L-alpha-Methyl DOPA	MK-351; Methyldopa	Biochemistry	Enzyme	Inhibitor	Aromatic amino acid decarboxylase	Yes		A. Scriabine, ed.,Pharmacology of Antihypertensive Drugs , New York, NY, USA (1980), 54
11	F05	M-184	33876-97-0	206.63	3-Morpholinosydnonimine hydrochloride	Linsidomine hydrochloride	Nitric Oxide		Donor		Yes	>10 mg/ml	Arvola, et al., L-cysteine augments the vasorelaxation induced by sodium nitrite and SIN-1 but not that due to acetylcholine Eur. J. Pharmacol. 214, 289-292 (1992)
11	F06	N 1016	51803-78-2	308.31	Nimesulide	N-(4-Nitro-2-phenoxyphenyl)methanesulfonamide	Prostaglandin	Enzyme	Inhibitor	COX-2			Bjarnason, Forthcoming non-steroidal anti-inflammatory drugs: are they really devoid of side effects. Ital. J. Gastroenterol Hepatol. 31, S27-S36 (1999)
11	F07	N 3398	79032-48-7	220.25	S-Nitroso-N-acetylpenicillamine	SNAP	Nitric Oxide		Donor				Shaffer, J.E., et al., Lack of tolerance to a 24-hour infusion of S-nitroso N-acetylpenicillamine (SNAP) in conscious rabbits. J. Pharmacol. Exp. Ther. 260, 286-293 (1992)
11	F08	N 4779	107254-86-4	300.32	5-Nitro-2-(3-phenylpropylamino)benzoic acid	NPPB	Cl- Channel		Blocker		Insoluble		Kirkup, A.J., et al.,Br. J. Pharmacol. 117, 175 (1996)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
11	F09	N 7127	1011-74-1	219.67	(±)-Normetanephrine hydrochloride	alpha-(Aminomethyl)-4-hydroxy-3-methoxy-benzyl alcohol hydrochloride	Adrenoceptor		Metabolite	Norepinephrine	Yes	50 mg/ml	Eisenhofer, G, Plasma normetanephrine for examination of extraneuronal uptake and metabolism of noradrenaline in rats Naunyn-Schmiedeberg's Arch. Pharmacol. 349, 259-269 (1994)
11	F10	N 7906		369.25	2-(alpha-Naphthoyl)ethyltrimethylammonium iodide	alpha-NETA	Cholinergic	Enzyme	Inhibitor	Choline Acetyltransferase			Sastry, B.V., et al.,J. Pharmacol. Exp. Ther. 245, 72 (1988)
11	F11	N-115	111469-81-9	450.97	Naltrindole hydrochloride	NTI hydrochloride	Opioid		Antagonist	delta	Yes	8.0 mg/ml	Portoghese, P.S., et al., Naltrindole: a highly selective and potent non-peptided-opioid receptor antagonist. Eur. J. Pharmacol. 146, 185-186 (1988)
11	G02	M 9292	41100-52-1	215.77	Memantine hydrochloride	3,5-Dimethyl-1-adamantanamine hydrochloride	Glutamate		Antagonist	NMDA			Weller, et al., NMDA receptor-mediated glutamate toxicity of cultured cerebellar, cortical and mesencephalic neurons: Neuroprotective properties of amantadine and memantine Brain Res. 613, 143 (1993)
11	G03	M-105	104807-401	728.77	Methoctramine tetrahydrochloride	N,N'-bis[6-[[(2-Methoxyphenyl)methyl]amino]hexyl]1,8-octane diamine tetrahydrochloride	Cholinergic		Antagonist	M2	Yes	30 mg/ml	Wess, J, et al., Methoctramine selectively blocks cardiac muscarinic M2receptors in vivo. Naunyn-Schmiedeberg's Arch. Pharmacol. 338, 246-249 (1988)
11	G04	M-137	129-49-7	469.54	Methysergide maleate		Serotonin		Antagonist		Yes	2.0 mg/ml	Mylecharane, E.J., The classification of 5-hydroxytryptamine receptors. Clin. Exp. Pharmacol. Physiol. 16, 517-522 (1989)
11	G05	M-187	36397-14-5	293.84	3-Methoxy-morphanin hydrochloride	nor-Dextromethorphan hydrochloride	Glutamate		Antagonist				
11	G06	N 1392	51-12-7	298.35	Nialamide	4-Pyridinecarboxylic acid 2-[3-oxo-3-[(phenylmethyl)amino]propyl]hydrazide	Neurotransmission	Enzyme	Inhibitor	MAO			Liu J.P., et al., Brain Res Dev Brain Res. 1991 oct 21;62(2):297-305
11	G07	N 3510	50-65-7	327.13	Niclosamide	2',5'-Dichloro-4'-nitrosalicylanilide	Antibiotic			Protonophore			van Tonder E.C., et al., Int J Pharm. 2004 Jan 28;269(2):417-32
11	G08	N 4784		1505.10	NF449 octasodium salt	4,4',4'',4'''-[Carbonyl-bis[imino-5,1,3-benzenetriyl bis-(carbonyl-imino)]]tetrakis(benzene-1,3-disulfonic acid)	G protein	Enzyme	Antagonist	Gs-alpha	Yes		Hohenegger, M., Gs alpha-selective G protein antagonists. Proc. Natl. Acad. Sci. USA 95, 346 (1998)
11	G09	N 7261	894-71-3	299.85	Nortriptyline hydrochloride		Adrenoceptor		Inhibitor	Uptake	Yes		Nakashita, M., et al., Effects of tricyclic and tetracyclic antidepressants on the three subtypes of GABA transporter. J. Neurosci. Res. 29, 87-91 (1997)
11	G10	N 8403	130506-22-8	175.15	6-Nitroso-1,2-benzopyrone		Transcription	Enzyme	Inhibitor	PARP			Buki, K.G., et al.,FEBS Lett. 290, 181 (1991)
11	G11	N-140	135261-88-0	593.17	N-(p-Isothiocyanatophenethyl)spiperone hydrochloride	NIPS hydrochloride	Dopamine		Antagonist	D2			Xu, et al., N-(p-Isothiocyanatophenethyl)spiperonea selective and irreversible antagonist of D2dopamine receptors in brain J. Pharmacol. Exp. Ther. 257, 608-615 (1991)
11	H02	M 9440		168.15	Me-3,4-dephostatin	3,4-Dihydroxy-N-methyl-N-nitrosaline	Phosphorylation	Enzyme	Inhibitor	PP1B / SHPTP-1	Yes		Suzuki, T., et al., Potentiation of insulin-related signal transduction by a novel protein-tyrosine phosphatase inhibitor, Et-3,4-dephostatin, on cultured 3T3-L1 adipocytes. J. Biol. Chem. 276, 27511-26518 (2001)
11	H03	M-107	77086-22-7	337.38	(+)-MK-801 hydrogen maleate	Dizocilipine maleate	Glutamate		Antagonist	NMDA	Yes	6.0 mg/ml	Wong, E.H.F., et al., The anticonvulsant MK-801 is a potent NMDA antagonist. Proc. Natl. Acad. Sci. USA 83, 7104-7108 (1986)
11	H04	M-140	14721-76-7	196.68	Methylcarbamylcholine chloride	Methylcarbachol chloride	Cholinergic		Agonist	Nicotinic	Yes		Araujo, D.M., et al., Characterization of N-[3H]methylcarbamylcholine binding sites and effect of N-methylcarbamylcholine on acetylcholine release in rat brain. J. Neurochem. 51, 292-299 (1988)
11	H05	M-204	155204-23-2	578.88	p-MPPI hydrochloride	4-Iodo-N-[2-4-(methoxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl-benzamide hydrochloride	Serotonin		Antagonist	5-HT1A	Yes	2.4 mg/ml	Kung, et al.,In vivobinding of [125I]4-(methoxyphenyl)-1-[2'-(N-2''-pyridinyl)-p-iodo-benzamido]-ethylpiperazine, p-MPPI, to 5HT1Areceptors in rat brain. Synapse 18, 459 (1994)
11	H06	N 1530	32795-47-4	354.41	Nomifensine maleate	1,2,3,4-Tetrahydro-2-methyl-4-phenyl-8-isoquinolinamine maleate	Dopamine		Inhibitor	Reuptake			Wieczorek, W.J., et al.,Brain Res. 657, 42 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
11	H07	N 3529	115338-32-4	474.40	NAN-190 hydrobromide	1-(2-Methoxyphenyl)-4-[4-(2-phthalimido)butyl]piperazine hydrobromide	Serotonin		Antagonist	5-HT1A			Rydelek-Fitzgerald, L., et al., NAN-190: agonist and antagonist interactions with brain 5-HT1A receptors. Brain Res. 532, 191-196 (1990)
11	H08	N 5023	500-38-9	302.37	Nordihydroguaiaretic acid from Larrea divaricata (creosote bush)	NDGA	Leukotriene	Enzyme	Inhibitor	Lipoxygenase			Nakayama, et al., Suppression of hydroperoxide-induced cytotoxicity by polyphenols. Cancer Res. 54, 1991s-1993s (1994)
11	H09	N 7505	2646-71-1	833.36	NADPH tetrasodium	Reduced nicotinamide adenosine dinucleotide phosphate tetrasodium	Nitric Oxide	Enzyme	Cofactor				
11	H10	N 8534	63612-50-0	317.23	Nilutamide	Anandron	Hormone		Inhibitor	Androgen			Dole, E. J. , Holdsworth, M. T., Nilutamide: an antiandrogen for the treatment of prostate cancer. Pharmacotherapy 31, 65 (1997)
11	H11	N-142	145645-62-1	386.88	NO-711 hydrochloride	1-(2-(((Diphenylmethylene)imino)oxy) ethyl)-1,2,5,6-tetrahydro-3-pyridine-carboxylic acid hydrochloride	GABA		Inhibitor	Uptake	Yes	20 mg/ml	Nielsen, et al., Characterization of tiagibine (NO-328) a new potent and selective GABA uptake inhibitor. Eur. J. Pharmacol. 196, 257 (1991)
12	A02	N-144	39562-70-4	360.37	Nitrendipine	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinecarboxylic acid ethyl methyl ester	Ca2+ Channel		Antagonist	L-type	Yes		Chen, X., et al., Quantitative determination of nitrendipine and its metabolite dehydronitrendipine in human plasma using liquid chromatography-tandem mass spectrometry. Biomed. Chromatogr. 15, 518 (2001)
12	A03	N-165	119630-94-3	445.52	Naloxone benzoylhydrazone	[(5alpha)-4,5-Epoxy-3,14-dihydroxy-17-(2-propenyl)morphinan-6-ylidene]hydrazide benzoic acid	Opioid		Agonist	kappa	Yes		Gistrak, M.A., et al., Pharmacological actions of a novel mixed opiate agonist/antagonist: Naloxone benzoylhydrazone J. Pharmacol. Exp. Ther. 251, 469-476 (1989)
12	A04	O 0886	101622-51-9	298.35	Olomoucine	2-[[9-Methyl-6-[(phenylmethyl)amino]-9H-purin-2-yl]amino]-ethanol	Phosphorylation	Enzyme	Inhibitor	PK			Vesely, J., et al., Inhibition of cyclin-dependent kinases by purine analogues. Eur. J. Biochem. 224, 771-786 (1994)
12	A05	O 3752	341-69-5	305.85	Orphenadrine hydrochloride	beta-Dimethylaminoethyl 2-methylbenzhydryl ether hydrochloride	Cholinergic		Antagonist	Muscarinic			Kornhuber, J., et al., Orphenadrine is an uncompetitive N-methyl-D-aspartate (NMDA) receptor antagonist: binding and patch clamp studies J. Neural Trans. 102, 237-246 (1995)
12	A06	O-111	4789-68-8	460.98	(±)-Octoclothepin maleate	1-(8-Chloro-10,11-dihydrobenzo[b,f]thiepin-10-yl)-4-methyl-piperazine maleate	Dopamine		Antagonist	D2			Hyttle, J., Amt, J., Characterization of binding of3H-SCH 23390 to dopamine D1receptors. Correlation to other D-1 and D-2 measures and effect of selective lesions J. Neural Trans. 68, 171 (1987)
12	A07	P 0878	40741-0	185.07	O-Phospho-L-serine	L-Phosphoserine	Glutamate		Antagonist	NMDA			Klunk, et al., Possible roles of L-phosphoserine in the pathogenesis of Alzheimer's disease. Mol. Chem. Neurophathol. 15, 51-73 (1991)
12	A08	P 1918	15500-66-0	732.69	Pancuronium bromide	1,1'-([2beta,3alpha,5alpha,16beta,17beta]-3,17-Bis[acetyloxy]androstane-2,16-diyl)bis(1-methylpiperidinium) dibromide	Cholinergic		Antagonist				Garland, C.M., et al., The actions of muscle relaxants at nicotinic acetylcholine receptor isoforms Eur. J. Pharmacol. 357, 83-92 (1998)
12	A09	P 3520	52-62-0	538.60	Pentolinium di[L(+)-tartrate]	1,1'-Pentamethylenebis(1-methylpyrrolidinium hydrogen tartrate)	Cholinergic		Antagonist	Nicotinic			Koga, et al., Roles of nitric oxide in the spinal cord in cardiovascular regulation in rats Neurosci. Lett. 267, 173-176 (1999)
12	A10	P 4543	1069-66-5	166.20	Valproic acid sodium	2-Propylpentanoic acid sodium	Anticonvulsant				Yes	50 mg/ml	Della Paschoa, O.E., et al., Modelling of the pharmacodynamic interaction between phenytoin and sodium valproate. Br. J. Pharmacol. 125, 1610-1616 (1998)
12	A11	P 5514	59-33-6	401.47	Pyrilamine maleate	Mepyramine maleate	Histamine		Antagonist	H1			Haley, Physical and biological properties of pyrilamine. J. Pharm. Sci. 72, 3 (1983)
12	B02	N-149	66085-59-4	418.45	Nimodipine	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinecarboxylic acid 2-methoxyethyl 1-methylethyl ester	Ca2+ Channel		Antagonist	L-type	Insoluble		Dolin, et al., Anticonvulsant profile of the dihydropyridine calcium channel antagonistsnitrendipine and nimodipine Eur. J. Pharmacol. 152, 19-27 (1988)
12	B03	N-170	153587-01-0	362.23	NS-1619	1,3-Dihydro-1-[2-hydroxy-5-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2H-benzimidazol-2-one	K+ Channel		Activator	Ca2+ activated	Insoluble		Oleson, et al., Selective activation of Ca2+dependent K+channels by novel benzimidazolone Eur. J. Pharmacol. 251, 53-59 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
12	B04	O 1008	112-80-1	282.47	Oleic Acid	Elainic acid	Phosphorylation	Enzyme	Activator	PKC			Diaz-Guerra, M.J.,J. Biol. Chem. 266, 23568 (1991)
12	B05	T 5575	300801-52-9	249.33	TG003	(Z)-1-(3-Ethyl-5-methoxy-2,3-dihydrobenzothiazol-2-ylidene)-propan-2-one	Cell Cycle	Enzyme	Inhibitor	Clk		33 mg/ml	Muraki, M., et al., J. Biol. Chem. 279, 24246-24254 (2004)
12	B06	P 0130	57-83-0	314.47	Progesterone	4-Pregnene-3,20-dione	Hormone			Progesterone			Lanari, C., and Molinolo, A.A., Progesterone receptors--animal models and cell signalling in breast cancer. Diverse activation pathways for the progesterone receptor: possible implications for breast biology and cancer. Breast Cancer Res. 4, 240-243 (2002)
12	B07	P 0884	318-98-9	295.81	(±)-Propranolol hydrochloride	(±)-1-(Isopropylamino)-3-(1-naphthyloxy)-2-propanol hydrochloride	Adrenoceptor		Antagonist	beta	Yes	50 mg/ml with heat	Alexander, B.S., and Wood, M.D., Stereoselective blockade of central [3H]5-hydroxytryptamine binding to multiple sites (5-HT1A, 5-HT1B and 5-HT1C) by mianserin and propranolol. J. Pharm. Pharmacol. 39, 664-666 (1987)
12	B08	P 2016	567-02-2	334.50	3-alpha,21-Dihydroxy-5-alpha-pregnan-20-one	5-alpha-THDOC	GABA		Modulator	GABA-A			Zaman, et al., Effects of subunit types of the recombinant GABAAreceptor on the response to a neurosteroid. Eur. J. Pharmacol. 225, 321 (1992)
12	B09	P 4015	14901-16-7	235.33	1-Phenyl-3-(2-thiazolyl)-2-thiourea		Dopamine	Enzyme	Inhibitor	beta-Hydroxylase			Johnson, G.A., et al.,J. Pharmacol. Exp. Ther. 171, 80 (1970)
12	B10	P 4651	58-33-3	320.89	Promethazine hydrochloride		Histamine		Antagonist	H1			Li and Hatton, Histamine-induced prolonged depolarization in rat supraoptic neurons: G-protein-mediated Ca(2+)-independent suppression of K+ leakage conductance. Neuroscience 70, 145 (1996)
12	B11	P 5654		331.35	Piroxicam	4-Hydroxy-2-methyl-3-(pyrid-2-yl-carbamoyl)-2H-1,2-benzothiazine 1,1-dioxide	Prostaglandin	Enzyme	Inhibitor	COX			
12	C02	N-151	57754-86-6	307.82	Nisoxetine hydrochloride	LY-94,939	Adrenoceptor		Blocker	Reuptake	Yes	20 mg/ml	Wong, D.T., et al., dl-N-Methyl-3-(o-methoxyphenoxy)-3-phenylpropylamine hydrochloride, Lilly 94939, a potent inhibitor for uptake of norepinephrine into rat brain synaptosomes and heart. Life Sci. 17, 755-760 (1975)
12	C03	N-176	82824-01-9	723.70	Naloxonazine dihydrochloride	Bis(5-alpha-4,5-epoxy-3,14,-dihydroxy-17-[2-propenyl]morphinan-6-ylidene)hydrazone	Opioid		Antagonist	mu1	Yes	>24 mg/ml	Cruciani, et al., Naloxonazine effects on the interaction of enkephalin analogs withμ1μ anddopioid binding sites in rat brain membranes J. Pharmacol. Exp. Ther. 242, 15-20 (1987)
12	C04	O 2378	2315--02--8	296.84	Oxymetazoline hydrochloride	3-[(4,5-Dihydro-1H-imidazol-2-yl)methyl]-6-(1,1-dimethylethyl)-2,4-dimethylphenol hydrochloride	Adrenoceptor		Agonist	alpha2A	Yes		Schoeffter, P., Hoyer, D., Interaction of the alpha-adrenoceptor agonist oxymetazoline with serotonin 5-HT1A, 5-HT1B, 5-HT1C, and 5-HT1D receptors. Eur. J. Pharmacol. 196, 213 (1991)
12	C05	O 8757	82419-36-1	361.38	Ofloxacin	Ofloxacine; DL-8280; HOE-280	Antibiotic			DNA Synthesis			Seibert, G., et al.,Eur. J. Clin. Microbiol. 2, 548 (1983)
12	C06	P 0359	544-31-0	299.50	Palmitoylethanolamide	Palmidrol	Cannabinoid		Agonist	CB2			Griffen, G., et al., Cloning and pharmacological characterization of of the rat CB2cannabinoid receptor J. Pharmacol. Exp. Ther. 292, 886-894 (2000)
12	C07	P 1061	62-68-0	389.97	SKF-525A hydrochloride	Proadifen hydrochloride	Multi-Drug Resistance	Enzyme	Inhibitor	Microsomal oxidation			Bruce J.I., et al., Br J Pharmacol. 2000 Oct;131(4):761-71
12	C08	P 2116	53179-13-8	185.23	Pirfenidone	5-Methyl-1-phenyl-2-(1H)-pyridone	Immune System		Inhibitor		Yes	up to 10 mM	Byung-Seok, L.,J. Clin. Endocrinol. Metab. 83, 219 (1998)
12	C09	T 9567	82079-32-1	210.30	Thiolactomycin	[R-(E)]-4-hydroxy-3,5-dimethyl-5-(2-methyl-1,3-butadienyl)-2(5H)-thiophenone	Antibiotic	Enzyme	Inhibitor	Myristate synthesis	Yes	>24 mg/ml	Morita, Y.S., et al., Specialized fatty acid synthesis in African trypanosomes: myristate for GPI anchors. Science 140 (2000)
12	C10	P 4668	55268-74-1	312.42	Praziquantel	2-(Cyclohexylcarbonyl)-1,2,3,6,7-11b-hexahydro-4H-pyrazinoe(2,1a)isoquinolin-4-one	Antibiotic			Ca2+ Ionophore			William S., et al., Int J Parasitol. 2004 Jul;34(8):971-7
12	C11	P 5679	41078-02-8	194.19	3-n-Propylxanthine	Enprofylline	Adenosine		Antagonist	A1 > A2	Yes		Ukena, et al.,Eur. J. Pharmacol. 117, 25 (1985)
12	D02	N-153	849-55-8	335.88	Nylidrin hydrochloride		Adrenoceptor		Agonist	beta			Hofner G., et al., Eur J Pharmacol. 2000 Apr 14;394(2-3):211-9
12	D03	N-183	118876-58-7	380.25	NBQX disodium	FG9202 disodium	Glutamate		Antagonist	AMPA/kainate	Yes	40 mg/ml	Randle, et al., Competitive inhibition by NBQX of kainate/AMPA receptor currents and excitatory synaptic potentials: importance of 6-nitro-substitution. Eur. J. Pharmacol. 215, 237 (1992)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
12	D04	O 2751	565-73-1	111.03	Sodium Oxamate	Oxalic acid monoamide sodium salt	Biochemistry	Enzyme	Inhibitor	Lactate Dehydrogenase			Liu H., Biochemistry. 2001 May 8;40(18):5542-7
12	D05	O 9126	17360-35-9	760.80	Oxotremorine sesquifumarate salt	1-(4-[1-Pyrrolidinyl]-2-butynyl)-2-pyrrolidinone	Cholinergic		Agonist	M2	Yes	50 mg/ml	Ringdahl, B., Jenden, D.J., Pharmacological properties of oxotremorine and its analogs Life Sci. 32, 2401 (1983)
12	D06	P 0453	10083-24-6	244.25	Piceatannol	(E)-4-[2-(3,5-Dihydroxyphenyl)ethenyl]1,2-benzenediol	Phosphorylation	Enzyme	Inhibitor	Syk / Lck	Yes	0.5 mg/ml	Cambien, et al., Src-regulated extracellular signal-related kinase and syk-regulated c-Jun N-terminal kinase pathways act in conjunction to induce IL-1 synthesis in response to microtubule disruption in HL60 cells. J. Immunol. 163, 5079-5085 (1999)
12	D07	P 1675	124-87-8	602.60	Picrotoxin		GABA		Antagonist	GABA-C			Yoon, K.W., et al., Multiple mechanisms of picrotoxin block of GABA-induced currents in rat hippocampal neurons. J. Physiol. 464, 423 (1993)
12	D08	P 2278	961-45-5	256.27	1,3-Dimethyl-8-phenylxanthine	8-Phenyltheophylline	Adenosine		Antagonist	A1	Slighty Soluble		Bruns, et al.,Mol. Pharmacol. 29, 331 (1986
12	D09	P 4394	15663-27-1	300.06	Cisplatin	cis-Diammineplatinum(II) dichloride	DNA		Intercalator				Singh, R.A., and Sodhi, A., Antigen presentation by cisplatin-activated macrophages: role of soluble factor(s) and second messengers. Immunol. Cell Biol. 76, 513-519 (1998)
12	D10	P 4670	54063-53-5	377.92	Propafenone hydrochloride	1-(2-[2-Hydroxy-3-(propylamino)propoxy]phenyl)-3-phenyl-1propanone	K+ Channel		Blocker	hKv1.5			Koller, R., and Franz, M.R., New classification of moricizine and propafenone based on electrophysiologic and electrocardiographic data from isolated rabbit heart. J. Cardiovasc. Pharmacol. 24, 753-760 (1994)
12	D11	P 6126	61-76-7	203.67	Phenylephrine hydrochloride		Adrenoceptor		Agonist	alpha1			Lazou, A., et al., Activation of mitogen-activated protein kinases (p38-MAPKs, SAPKs/JNKs and ERKs) by the G-protein-coupled receptor agonist phenylephrine in the perfused rat heart. Biochem. J. 332, 459-465 (1998)
12	E02	N-154	109292-91-3	217.28	N6-Cyclopentyl-9-methyladenine	N-0840	Adenosine		Antagonist	A1	Insoluble		Ukena, et al., N6-Substituted 9-methyladenines: A new class of adenosine receptor antagonists. FEBS Lett. 215, 203 (1987)
12	E03	N-211		269.06	NS 2028	4H-8-Bromo-1,2,4-oxadiazolo(3,4-d)benz(b)(1,4)oxazin-1-one	Cyclic Nucleotides	Enzyme	Inhibitor	Guanylate cyclase			Olesen, et al., Characterization of NS 2028 as a specific inhibitor of soluble guanylyl cyclase Br. J. Pharmacol. 123, 299-309 (1998)
12	E04	O 2881	1508-65-2	393.96	Oxybutynin Chloride	alpha-Phenylcyclohexaneglycolic acid 4-(diethylamino)-2-butynyl ester hydrochloride	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Watson, N., et al., Comparative pharmacology of recombinant human M3and M5muscarinic receptors expressed in CHO-K1 cells Br. J. Pharmacol. 127, 590-596 (1999)
12	E05	O 9387	60607-34-3	426.57	Oxatomide	1-[3-[4-(Diphenylmethyl)-1-piperazinyl]propyl]-1,3-dihydro-2H-benzimidazol-2-one	Immune System		Modulator				Kosaka, Y., et al.,Agents and Actions 21, 32 (1985)
12	E06	P 0547	140-64-7	592.69	Pentamidine isethionate	4'4-[1,5-Pentanediylbis(oxy)]bis-benzenecarboximidamide isethionate	Glutamate		Antagonist	NMDA			Reynolds, et al., Pentamidine is an N-methyl-D-aspartate receptor antagonist and is neuroprotectivein vitro. J. Neurosci. 12, 970 (1992)
12	E07	P 1726		187.16	4-Phenyl-3-furoxancarbonitrile	Furoxan	Nitric Oxide		Donor				Medana, C., et al.,J. Med. Chem. 37, 4412 (1994)
12	E08	P 2607		353.89	PRE-084		Opioid		Agonist	sigma1	Yes	24 mg/ml	Maurice, T., et al.,Br. J. Pharmacol. 127, 335-342 (1999)
12	E09	P 4405	518-28-5	414.42	Podophyllotoxin		Cytoskeleton and ECM		Inhibitor				Damayanthi, Y. and Lown, J.W.,Curr. Med. Chem. 5, 205 (1998)
12	E10	P 5052		332.49	5alpha-Pregnan-3alpha-ol-11,20-dione	Alfaxalone	GABA		Modulator	GABA-A			Sooksawate and Simmonds, Increased membrane cholesterol reduces the potentiation of GABA(A) currents by neurosteroids in dissociated hippocampal neurones Neuropharmacology 37, 1103 (1998)
12	E11	P 6402	58-39-9	403.98	Perphenazine		Dopamine		Antagonist	D2			Okumura, K., et al., BMY-14802 reversed the sigma receptor agonist-induced neck dystonia in rats J. Neural Trans. 103, 1153-1161 (1996)
12	F02	N-156	122517-78-6	511.60	Naltriben methanesulfonate	NTB	Opioid		Antagonist	delta2	Yes	0.6 mg/ml	Takemori, A.E., et al., Agonist and antagonist activities of ligands derived from naltrexone and oxymorphone. Life Sci. 50, 1491-1495 (1992)
12	F03	O 0250	770-05-8	189.64	(±)-Octopamine hydrochloride	(±)-alpha-(Aminomethyl)-4-hydroxybenzyl alcohol hydrochloride	Adrenoceptor		Agonist	alpha	Yes		Airriess, C.N., et al., Selective inhibition of adenylyl cyclase by octopamine via a human cloneda2A-adrenoceptor. Br. J. Pharmacol. 122, 191-198 (1997)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
12	F04	O 3011	62613-82-5	158.16	Oxiracetam	4-Hydroxy-2-oxopyrrolidine-N-acetamide	Nootropic						Raiteri, M., et al.,Neurosci. Lett. 145, 109 (1992)
12	F05	S 3442	208744-09-4	371.23	SB 216763	3-(2,4-Dichlorophenyl)-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione	Phosphorylation	Enzyme	Inhibitor	GSK-3	Insoluble		Smith, D.G., et al, , 3-Anilino-4-arylmaleimides: potent and selective inhibitors of glycogen synthase kinase-3 (GSK-3). Bioorg. Med. Chem. Lett. 11, 635-639 (2001)
12	F06	P 0618		312.25	cis-(±)-8-OH-PBZI hydrobromide	cis-(±)-1,2,3a,4,5,9b-hexhydro-1H-benz[e]indole hydrobromide	Dopamine		Agonist	D3	Yes	10 mg/ml	Fink-Jensen, A., et al.,Eur. J. Pharmacol. 342, 153-161 (1998)
12	F07	P 1784	6493--05--6	278.31	Pentoxifylline	3,7-Dihydro-3,7-dimethyl-1-(5-oxohexyl)-1H-purine-2,6-dione	Cyclic Nucleotides	Enzyme	Inhibitor	PDE	Yes	>43 mg/ml	Reuter, et al., Phosphodiesterase inhibitors prevent NSAID enteropathy independently of effects on TNF-alpha release Am. J. Physiol. 277, 854 (1999)
12	F08	P 2738		694.37	PPNDS tetrasodium	Pyridoxal-5'-phosphate-6-(2'-naphthylazo-6'-nitro-4',8'-disulfonate) tetrasodium	P2 Receptor		Antagonist	P2X1	Yes	38 mg/ml	Lambrecht, G.,Eur. J. Pharmacol. 387, 19 (2000)
12	F09	P 4484		388.90	Purvalanol A	NG-60	Phosphorylation	Enzyme	Inhibitor	CDK			Gray, N.S. et al., Exploiting chemical libraries, structure and genomics in the search for kinase inhibitors Science 281, 533 (1998)
12	F10	P 5114	546-48-5	305.37	Pempidine tartrate	Pirilene	Cholinergic		Antagonist	Nicotinic			Lee J.E., et al.,Nature 181, 1717 (1958)
12	F11	P 6500	54-95-5	138.17	Pentylenetetrazole	Metrazole	Neurotransmission		Modulator	CNS			Suzuki, T., et al.,Eur. J. Pharmacol. 369, 163 (1999)
12	G02	N-158	57149-07-2	465.42	Naftopidil dihydrochloride	KT-611 dihydrochloride	Adrenoceptor		Antagonist	alpha1	Insoluble		Yamada, S., et al., Binding characteristics of naftopidil anda1-adrenoceptor antagonists to prostatica-adrenoceptors in benign prostatic hypertrophy. Life Sci. 50, 127-135 (1992)
12	G03	O 0383	111-58-0	325.54	N-Oleoylethanolamine	N-(Hydroxyethyl)oleamide	Sphingolipid	Enzyme	Inhibitor	Ceramidase			Ramachandran, C.K., et al.,Biochem. Arch. 8, 369 (1992)
12	G04	O 3125	11018-89-6	584.67	Ouabain	Acocantherine	Ion Pump		Inhibitor	Na+/K+ ATPase	Yes	10 mg/ml	Peng, M., et al., Partial inhibition of Na+/K+-ATPase by ouabain induces the Ca2+-dependent expressions of early-response genes in cardiac myocytes. J. Biol. Chem. 271, 10372-10378 (1996)
12	G05	O 9637	21256-18-8	293.33	Oxaprozin	Daypro	Prostaglandin	Enzyme	Inhibitor				Todd, P. A., Oxaprozin. A preliminary review of its pharmacodynamic and pharmacokinetic properties, and therapeutic efficacy Drugs 32, 291 (1986)
12	G06	P 0667	20554-84-1	248.32	Parthenolide		Serotonin		Inhibitor				Kwok, B.H., et al., The anti-inflammatory natural product parthenolide from the medicinal herb Feverfew directly binds to and inhibits IkB kinase. Chem. Biol. 8, 759-766 (2001)
12	G07	P 1793	2062-78-4	461.56	Pimozide		Dopamine		Antagonist	D2	Insoluble		Ishine, T., Serotonin 5-HT7receptors mediate relaxation of porcine pial veins. Am. J. Physiol. Heart Circ. Physiol. 278, 0 (2000)
12	G08	P 2742		217.29	PD 404,182	6H-6-Imino-(2,3,4,5-tetrahydropyrimido)[1,2-c]-[1,3]benzothiazine	Biochemistry	Enzyme	Inhibitor	KDO-8-P synthase	Insoluble		Birck MR, et al, Identification of a slow tight-binding inhibitor of 3-deoxy-D-manno-octulosonic acid 8-phosphate Synthase J. Amer. Chem. Soc. 122, 9334 (2000)
12	G09	P 4509	6865-14-1	436.08	Palmitoyl-DL-Carnitine chloride		Phosphorylation	Enzyme	Modulator	PKC	Yes	25 mg/ml	Nakadate, T., and Blumberg, P.M., Modulation by palmitoylcarnitine of protein kinase C activation Cancer Res. 47, 6537-6542 (1987)
12	G10	P 5295	7491-74-9	142.16	Piracetam	2-Oxo-1-pyrrolidineacetamide	Glutamate		Modulator	AMPA			Gouliaev, A.H., Senning, A,Brain Res. Rev. 19, 180 (1994)
12	G11	P 6503	54-71-7	244.72	(+)-Pilocarpine hydrochloride		Cholinergic		Agonist	Muscarinic	Yes	100 mg/ml	Maslanski, J.A., et al., Assessment of the muscarinic receptor subtypes involved in pilocarpine-induced seizures in mice Neurosci. Lett. 168, 225-228 (1994)
12	H02	B 9305	72814-32-5	368.48	BW 245C	(R*,S*)-(+/-)-3-(3-cyclohexyl-3-hydroxypropyl)-2,5-dioxo-4-imidazolineheptanoic acid	Prostanoids		Agonist	DP			Trist, D. G., et al., The antagonism by BW A868C of PGD2 and BW245C activation of human platelet adenylate cyclase Br. J. Pharmacol. 96, 301-306 (1989)
12	H03	O 0877	14698-29-4	261.24	Oxolinic acid	W-4565; 5,8-Dihydro-5-ethyl-8-oxo-1,3-dioxolo[4,5-g]quinoline-7-carboxylic acid	Antibiotic	Enzyme	Inhibitor	DNA Gyrase			Chen C.R., et al., J Mol Biol. 1996 May 17;258(4):627-37
12	H04	O 3636	41443-28-1	187.16	ODQ	1H-[1,2,4]Oxadiazolo[4,3-a]quinoxalin-1-one	Cyclic Nucleotides	Enzyme	Inhibitor	NO-sensitive guanylyl cyclase	Insoluble		Brunner, et al., Novel guanylyl cyclase inhibitor ODQ reveals role of nitric oxidebut not of cyclic-GMP in endothelin-1 secretion. FEBS Lett. 376, 262-266

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
													(1995)
12	H05	O-100	63939-65-1	322.19	Oxotremorine methiodide	N,N,N-Trimethyl-4-(2-oxo-1-pyrrolidinyl)-2-butyn-1-ammonium iodide	Cholinergic		Agonist	Muscarinic	Yes	24 mg/ml	Gillard, M., Muscarinic receptor heterogeneity in rat central nervous system. II. Brain receptors labeled by [3H]oxotremorine-M correspond to heterogeneous M2receptors with very high affinity for agonists. Mol. Pharmacol. 32, 100 (1987)
12	H06	P 0778	15323-86-9	248.33	Pindolol		Adrenoceptor		Antagonist	beta	Insoluble		Watkins, D.J., et al., Loss of [125I]-pindolol binding to beta-adrenoceptors on rat nodose ganglion after chronic isoprenaline treatment. J. Auton. Nerv. Syst. 60, 12-16 (1996)
12	H07	P 1801	340-90-9	277.24	L-Glutamic acid, N-phthaloyl-		Glutamate		Agonist	NMDA			Sauer H., et al., Am J Pathol. 2000 Jan;156(1):15-8
12	H08	P 3510	61-25-6	375.86	Papaverine hydrochloride		Cyclic Nucleotides	Enzyme	Inhibitor	PDE	Yes	25 mg/ml	Poech, G., and Kukovetz, W.R.,Life Sci. 10, 133 (1971)
12	H09	P 4532	38594-96-6	385.43	R(-)-N6-(2-Phenylisopropyl)adenosine	R(-)-PIA	Adenosine		Agonist	A1	Yes	0.3 mg/ml	Daly, J.W.,J. Med. Chem. 25, 197 (1982)
12	H10	P 5396	26016-99-9	182.02	Phosphomycin disodium	Fosfomycin; Phosphonomycin; MK-955	Antibiotic			Cell wall synthesis			Kim, D.H., et al., Characterization of a Cys115to Asp substitution in theEscherichia colicell wall biosynthetic enzyme UDP-GlcNAc enolpyruvyl transferase (MurA) that confers resistance to inactivation by the antibiotic fosfomycin. Biochemistry 35, 4923-4928 (1996)
12	H11	P 6628	148-72-1	271.28	Pilocarpine nitrate		Cholinergic		Agonist	Muscarinic	Yes	100 mg/ml	Maslanski, J.A., et al., Assessment of the muscarinic receptor subtypes involved in pilocarpine-induced seizures in mice Neurosci. Lett. 168, 225-228 (1994)
13	A02	P 6656	53-60-1	320.89	Promazine hydrochloride	10-(3-[Dimethylamino]propyl)phenothiazine hydrochloride	Dopamine		Antagonist	D2			Daniel, W.A., et al., The influence fo selective serotonin reuptake inhibitors in the plasma and brain pharmacokinetics of the simplest phenothiazine neuroleptic promazine in the rat. Eur. Neuropsychopharmacol. 9, 337 (1999)
13	A03	P 7412	29868-97-1	424.33	Pirenzepine dihydrochloride	5,11-Dihydro-11-[(4-methyl-1-piperazinyl)acetyl]-6H-pyrido[2,3-b][1,4]benzodiazepin-6-one dihydrochloride	Cholinergic		Antagonist	M1	Yes	50 mg/ml	Pelat, M., et al., Characterization of the central muscarinic cholinoceptors involved in the cholinergic pressor response in anesthetized dogs Eur. J. Pharmacol. 379, 117-124 (1999)
13	A04	P 8227		444.26	1,3-PBIT dihydrobromide	Phenylene-1,3-bis(ethane-2-isothiourea) dihydrobromide	Nitric Oxide	Enzyme	Inhibitor	NOS			Garvey, E.P., Potent and selective inhibition of human nitric oxide synthases. Inhibition by non-amino acid isothioureas J. Biol. Chem. 269, 26669 (1994)
13	A05	P 8782	46026-75-9	173.17	(±)-cis-Piperidine-2,3-dicarboxylic acid		Glutamate		Agonist	NMDA			Collingridge, G. L., et al., Excitatory amino acid receptors in the vertebrate central nervous system Pharmacol. Rev. 40, 143-210 (1989)
13	A06	P 9233		414.42	Piribedil maleate	2-(4-[1,3-Benzodioxol-5-ylmethyl]-1-piperazinyl)pyrimidine	Dopamine		Agonist	D3	Yes	>10 mg/ml	Cagnotto, A., et al.,Eur. J. Pharmacol. 313, 63 (1996)
13	A07	P 9879	51-05-8	272.78	Procaine hydrochloride	Novocaine hydrochloride	Na+ Channel		Blocker				Dudel, J., et al.,J. Neurophysiol. 81, 2386 (1999)
13	A08	P-118	114012-12-3	249.64	Phaclofen	3-Amino-2-(4-chlorophenyl)propylphosphonic acid	GABA		Antagonist	GABA-B			Kerr, et al., Phaclofen: A peripheral and central baclofen antagonist Brain Res. 405, 150-154 (1987)
13	A09	P-162		418.53	Pregnenolone sulfate sodium	5-Pregnen-3beta-ol-20-one sulfate sodium	GABA		Antagonist	GABA-A			Mienville et al., Pregnenolone sulfate antagonizes GABAAreceptor-mediated currents via a reduction of channel opening frequency. Brain Res. 489, 190 (1989)
13	A10	P-233	190383-31-4	450.50	PD 168,077 maleate	N-[[4-(2-Cyanophenyl)-1-piperazinyl]methyl]-3-methyl-benzamide maleate	Dopamine		Agonist	D4	Yes	>10 mg/ml	Glase, S., et al., Substituted [(4-Phenylpiperazinyl)-methyl]benzamides: Selective dopamine D4agonists. J. Med. Chem. 40, 1771-1772 (1997)
13	A11	Q 3251	69-05-6	472.89	Quinacrine dihydrochloride		Neurotransmission	Enzyme	Inhibitor	MAO			Saravanamuthu A., et al., J Biol Chem. 2004 Jul 9;279(28):29493-500. Epub 2004 Apr 21
13	B02	P 6777	156-51-4	234.28	Phenelzine sulfate		Neurotransmission	Enzyme	Inhibitor	MAO-A/B			Roh, J.H., et al., Purification, characterization, and crystallization of monoamine oxidase fromEscherichia coliK-12. Biosci. Biotechnol. Biochem. 58, 1652 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
13	B03	P 7505	333-93-7	161.08	Putrescine dihydrochloride	Putrescine dihydrochloride	Glutamate		Agonist	NMDA-Polyamine			Volkow, et al., Labeled putrescine as a probe in brain tumors. Science 221, 673 (1983)
13	B04	P 8293	553-12-8	562.67	Protoporphyrin IX disodium	Kammerer's porphyrin	Cyclic Nucleotides	Enzyme	Activator	Guanylyl cyclase			Wolin, M.S., et al.,J. Biol. Chem. 257, 13312 (1982)
13	B05	P 8813	1225-55-4	299.85	Protriptyline hydrochloride		Adrenoceptor		Blocker	Reuptake	Yes	50 mg/ml	Huang, Y, Inhibitory effect of noradrenaline uptake inhibitors on contractions of rat aortic smooth muscle Br. J. Pharmacol. 117, 533-539 (1996)
13	B06	P 9297	1263-89-4	713.72	Paromomycin sulfate		Antibiotic			Protein synthesis			Borokow G, et al., Antiviral Res. 2003 Nov;60(3):181-92
13	B07	P-101		358.36	2-Phenylaminoadenosine	CV-1808	Adenosine		Agonist	A2 > A1	Insoluble		Taylor, et al., Interaction of 2-phenylaminoadenosine (CV 1808) with adenosine systems in rat tissues. Eur. J. Pharmacol. 85, 335-338 (1982)
13	B08	P-119	106469-51-6	480.45	(±)-Pindobind	N8-Bromoacetyl-N1-3'-(4-indolyloxy)-2'-hydroxy-propyl-[Z]-1,8-diamino-p-methane	Adrenoceptor		Ligand	beta			Pitha, J., et al., Affinity labels forb-adrenoceptors: Preparation and properties of alkylatingb-blockers derived from indole. J. Med. Chem. 30, 612-615 (1987)
13	B09	P-178	149017-66-3	599.31	PPADS	Pyridoxal-phosphate-6-azophenyl-2',4'-disulphonic acid tetrasodium	P2 Receptor		Antagonist	P2	Yes	>10 mg/ml	Lambrecht, et al., PPADS a novel functionally selective antagonist of P2 purinoceptor-mediated responses Eur. J. Pharmacol. 217, 217 (1992)
13	B10	S 9692	330161-87-0	371.46	SU 6656	2,3-Dihydro-N,N-dimethyl-2-oxo-3-[(4,5,6,7-tetrahydro-1H-indol-2-yl)methylene]-1H-indole-5-sulfonamide	Phosphorylation	Enzyme	Inhibitor	Src family kinase			Blake, R.A., et al, SU6656, a selective Src family kinase inhibitor, used to probe growth factor signaling Mol. Cell. Biol. 20, 9018-9027 (2000)
13	B11	Q 3504	70018-51-8	235.67	Quazinone	Ro 13-6438	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III			Rupert, D., et al.,Life Sci. 31, 2037 (1982)
13	C02	P 6902	132-20-7	356.43	Pheniramine maleate		Histamine		Antagonist	H1			Karadag, C.H., et al., The role of histamine H1-receptors in the anticonvulsive effect of morphine against maximal electroconvulsive shock in mice Jpn. J. Pharmacol. 71, 109-112 (1996)
13	C03	P 7561	65-28-1	377.47	Phentolamine mesylate	Regitin mesylate	Adrenoceptor		Antagonist	alpha	Yes	50 mg/ml	McPherson, G.A., and Angus, J.A., Phentolamine and structurally related compounds selectively antagonize the vascular actions of the K+channel opener, cromomakalim. Br. J. Pharmacol. 97, 941-949 (1989)
13	C04	P 8352	157254-60-9	444.26	1,4-PBIT dihydrobromide	1,4-Phenylene-bis(1,2-ethanediyl)bis-isothiourea	Nitric Oxide	Enzyme	Inhibitor	NOS			Garvey, E.P., Potent and selective inhibition of human nitric oxide synthases. Inhibition by non-amino acid isothioureas J. Biol. Chem. 269, 26669 (1994)
13	C05	P 8828	66104-23-2	410.60	Pergolide methanesulfonate	8-[(Methylthio)methyl]-6-propylergoline methanesulfonate	Dopamine		Agonist	D2/D1	Insoluble		Barone, et al., Pergolide monotherapy in the treatment of early PD: a randomized, controlled study. Pergolide Monotherapy Study Group. Neurology 53, 573-579 (1999)
13	C06	P 9375	5144-89-8	180.21	1,10-Phenanthroline monohydrate	o-Phenanthroline monohydrate	Biochemistry	Enzyme	Inhibitor	Metalloprotease			Santiago, T.C. et al., The relationship between mRNA stability and length inSaccharomyces cerevisiae. Nucl. Acids Res. 14, 8347 (1986)
13	C07	P-102	85976-54-1	255.79	R(+)-3PPP hydrochloride	R(+)-3-(3-Hydroxyphenyl)-N-propylpiperidine hydrochloride	Dopamine		Agonist	D2	Yes	150 mg/ml	Tokuyama, S., et al., Sigma ligands stimulate GTPase activity in mouse prefrontal membranes: evidence for the existence of metabotropic sigma receptor. Neurosci. Lett. 233, 141-144 (1997)
13	C08	P-120		177.21	1-Phenylbiguanide	N-Phenyl-imidocarbonimidic diamide	Serotonin		Agonist	5-HT3	Yes		Mair, I.D., et al., Pharmacological characterization of a rat 5-hydroxytryptamine type 3 receptor subunit (r5-HT3A(b)) expressed inXenopus laevisoocytes. Br. J. Pharmacol. 124, 1667-1674 (1998)
13	C09	P-183	123671-92-1	285.77	S(+)-PD 128,907 hydrochloride	S(+)-(4aR,10bR)-3,4,4a,10b-Tetrahydro-4-propyl-2H,5H-[1]benzopyrano-[4,3-b]-1,4-oxazin-9-ol hydrochloride	Dopamine		Agonist	D3	Yes	9.0 mg/ml	Sautel, et al., A functional test identifies dopamine agonists selective for D3versus D2receptors. Neuroreport 6, 329 (1995)
13	C10	P63204	89-00-9	167.12	Quinolinic acid	Pyridine-2,3-dicarboxylic acid	Glutamate		Antagonist	NMDA			*Arch. Int. Physiol., Biochim. Biophys. 99, 237 (1991)*
13	C11	Q-102	85798-08-9	255.79	(-)-Quinpirole hydrochloride	LY-171,555	Dopamine		Agonist	D2/D3	Yes	7.3 mg/ml	Rosenzweig-Lipson, S., and Barrett, J.E., K-Channel blockers attenuate the presynaptic effects of the D2/D3agonist quinpirole in monkeys Pharmacol. Biochem. Behav. 51, 843-848 (1995)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
13	D02	P 6909	4408-78-0	140.03	Phosphonoacetic acid		DNA	Enzyme	Inhibitor	DNA Polymerase			Shirokova E.A., et al. J Med Chem. 2004 Jul1;47(14):3606-14
13	D03	P 7780	7681-67-6	376.95	Propionylpromazine hydrochloride		Dopamine		Antagonist	D2			Cooper J., et al., Analyst. 2004 Feb;129(2):169-74. Epub 2004 Jan 06
13	D04	P 8386	50-33-9	308.38	Phenylbutazone		Prostaglandin	Enzyme	Substrate	Prostaglandin peroxidase			Hughes, M.F. et al., Prostaglandin hydroperoxidase-dependent oxidation of phenylbutazone: relationship to inhibition of prostaglandin cyclooxygenase. Mol. Pharmacol. 34, 186 (1988)
13	D05	P 8852	1015-89-0	195.22	6(5H)-Phenanthridinone		Transcription	Enzyme	Inhibitor	PARP			Weltin, D., et al., Effect of 6(5H)-phenanthridinone, an inhibitor of poly(ADP-ribose) polymerase, on cultured tumor cells. Oncol. Res. 6, 399-403 (1994)
13	D06	P 9391	614-39-1	271.79	Procainamide hydrochloride		Na+ Channel		Antagonist		Yes		Bailey, D.N., et al.,J. Anal. Toxicol. 23, 173 (1999)
13	D07	P-103	88768-67-6	255.79	S(-)-3PPP hydrochloride	Preclamol hydrochloride	Dopamine		Agonist	D2	Yes	150 mg/ml	Hjorth, et al., Central dopamine receptor agonist and antagonist actions of the enantiomers of 3-PPP Psychopharmacology 81, 89-99 (1983)
13	D08	S 3317	115344-47-3	284.32	SKF 94836	N-Cyano-N'-methyl-N''-[4-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)phenyl]guanidine	Calcium Signaling	Enzyme	Inhibitor	PDE III			Tang, K.M., et al., , Photoaffinity labelling of cyclic GMP-inhibited phosphodiesterase III (PDE III) in human and rat platelets and rat tissues: effect of phosphodiesteraze inhibitors Eur. J. Pharmacol. 268, 153-161 (1994)
13	D09	P-203	2038-35-9	401.83	Phenamil methanesulfonate	3,5-Diamino-6-chloro-N-[imino(phenylamino)methyl]-pyrazinecarboxamide methansulfonate	Na+ Channel		Inhibitor	Amiloride sensitive	Insoluble		Garvin, et al., Phenamil: An irreversible inhibitor of sodium channels in the toad urinary bladder. J. Membr. Biol. 87, 45 (1985)
13	D10	Q 0125	6151-25-3	302.24	Quercetin dihydrate	3,3',4',5,7-Pentahydroxyflavone dihydrate	Cyclic Nucleotides	Enzyme	Inhibitor	PDE			Bowman, B.J., et al., Effects of inhibitors on the plasma membrane and mitochondrial adenosine triphosphatases ofNeurospora crassa. Biochim. Biophys. Acta 512, 13-28 (1978)
13	D11	Q-107	28614-26-8	459.46	Quipazine, N-methyl-, dimaleate	2-[1-(4-Methyl)-piperazinyl]quinoline dimaleate	Serotonin		Agonist	5-HT3	Yes		Glennon, R.A., et al., Binding of arylpiperazines to 5-HT serotonin receptors: Results of a structure-affinity study Eur. J. Pharmacol. 168, 387-392 (1989)
13	E02	P 7083	23635-14-5	166.22	(-)-Perillic acid	4-Isopropenyl-1-cyclohexene-1-carboxylic acid	G protein		Inhibitor	p21 Ras			Crowell, P.L., et al.,J. Biol. Chem. 266, 17679 (1991)
13	E03	P 7791	19237-84-4	419.87	Prazosin hydrochloride		Adrenoceptor		Antagonist	alpha1	Yes	0.5 mg/ml	Honner, V. and Docherty, J.R, Investigation of the subtypes ofa1-adrenoceptor mediating contractions of rat vas deferens Br. J. Pharmacol. 128, 1323-1331 (1999)
13	E04	P 8477	32828-81-2	376.42	Picotamide	4-Methoxy-N,N'-bis(3-pyridinylmethyl)-1,3-benzenedicarboxamide	Thromboxane		Antagonist	TXA2			Modesti, R.A., et al.,Eur. J. Pharmacol. 169, 85 (1989)
13	E05	P 8887	516-54-1	318.50	5alpha-Pregnan-3alpha-ol-20-one	Allopregnan-3alpha-ol-20-one	GABA		Modulator	GABA-A			Bitran, et al., Anxiolytic effects of 3a-hydroxy-5a(b)-pregnan-20-one: endogenous metabolites of progesterone that are active at the GABAAreceptor Brain Res. 561, 157 (1991)
13	E06	P 9547	1786-81-8	256.78	Prilocaine hydrochloride	N-(2-Methylphenyl)-2-(propylamino)propanamide hydrochloride	Na+ Channel		Blocker				Nakamura, K., et al., Prilocaine induces apoptosis in osteoblastic cells. Can. J. Anaesth. 46, 476-482 (1999)
13	E07	P-105	101403-00-3	345.92	(±)-PPHT hydrochloride	(±)-2-(N-Phenylethyl)-N-propyl)amino-5-hydroxytetralin hydrochloride	Dopamine		Agonist	D2	Insoluble		Seeman, et al., Dopamine D2receptor binding sites for agonists. A tetrahedral model. Mol. Pharmacol. 28, 391 (1985)
13	E08	P-126	75444-65-4	393.47	Pirenperone	R-47,465	Serotonin		Antagonist	5-HT2			Walker, M. J., et al., Effects of acute selective 5-HT1, 5-HT2, 5-HT3 receptor and alpha 2 adrenoceptor blockade on naloxone-induced antinociception Psychopharmacology 113, 527-533 (1994)
13	E09	P-204		335.30	Phenylbenzene-omega-phosphono-alpha-amino acid	PMBA	Glycine		Antagonist		Yes	0.15 mg/ml	Saitoh, et al., A novel antagonist phenylbenzenew-phosphono-a-amino acid for strychnine-sensitive glycine receptors in the rat spinal cord. Br. J. Pharmacol. 113, 165-170 (1994)
13	E10	Q 0875	6591-63-5	746.93	Quinidine sulfate		Na+ Channel		Antagonist				Tsujimae K, et al., Eur J Pharmacol. 2004 Jun 16;493(1-9):29-40

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
13	E11	Q-109	77372-73-7	374.36	Quipazine, 6-nitro-, maleate	6-Nitro-2-(1-piperzinyl)-quinoline maleate	Serotonin		Inhibitor	Reuptake	Yes	5.0 mg/ml	Classen, K., et al., Effects of DU 24565 (6-nitroquipazine) on serotoninergic and noradrenergic neurones of the rat brain and comparison with the effects of quipazine. Naunyn-Schmiedeberg's Arch. Pharmacol. 326, 198 (1984)
13	F02	P 7136	98-96-4	123.12	Pyrazinecarboxamide	Pyrazinoic acid amide; pyrazinamide; PZA	Antibiotic						Goldstein, O., et al., J Biol Chem. 1993 Apr 15;268(11):7856-62
13	F03	P 7912	60-82-2	274.28	Phloretin	3-(4-Hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)-1-propanone	Ca2+ Channel		Blocker	L-Type			Mizuma, T. and Awazu, S.,Biochim. Biophys. Acta 1425, 398 (1998)
13	F04	P 8511	1986-47-6	169.66	Tranylcypromine hydrochloride	(±)-trans-2-Phenylcyclopropylamine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO			Green, A.R., and Youdin, M.B., Br J Pharmacol. 1975 Nov;55(3):415-22
13	F05	P 8891	50-34-0	448.40	Propantheline bromide	(2-Hydroxyethyl)diisopropylmethylammonium bromide xanthene-9-carboxylate bromide	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Alaranta, S., et al., Inhibition of nicotine-induced relaxation of the bovine retractor penis muscle by compounds known to have ganglion-blocking properties. Br. J. Pharmacol. 101, 472-476 (1990)
13	F06	P 9689	55242-55-2	306.37	Propentofylline	HWA 285	Adenosine		Inhibitor	Transporter	Yes	12.4 mg/ml	Nitta, et al.,Behav. Brain Res. 83, 201-204 (1997)
13	F07	P-106	30011-36-0	167.64	3-Phenylpropargylamine hydrochloride		Dopamine	Enzyme	Inhibitor	Dopamine beta-hydroxylase	Yes		Padgette, et al., Olefin oxygenation and N-dealkylation by dopamineb-monooxygenase: Catalysis and mechanism-based inhibition. Biochemistry 24, 5826 (1985)
13	F08	I 0658	186611-52-9	311.34	IC 261	1,3-Dihydro-3-[(2,4,6-trimethoxyphenyl)methylene]-2H-indol-2-one	Phosphorylation	Enzyme	Inhibitor	CK-1delta/epsilon			Mashhoon, N., et al, Crystal structure of a conformation-selective casein kinase-1 inhibitor J. Biol. Chem. 275, 20052-20060 (2000)
13	F09	P-209	120-89-8	361.20	Phthalamoyl-L-glutamic acid trisodium	PhGA	Glutamate		Agonist	NMDA			
13	F10	Q 1004	5786-68-5	445.43	Quipazine dimaleate	2-(1-Piperazinyl)quinoline dimaleate	Serotonin		Agonist		Yes		Zgombick, J.M., et al., Pharmacological characterizations of recombinant human 5-HT1D alpha and 5-HT1D beta receptor subtypes coupled to adenylate cyclase inhibition in clonal cell lines: apparent differences in drug intrinsic efficacies between human 5-HT1D subtypes Naunyn-Schmiedeberg's Arch. Pharmacol. 354, 226-236 (1996)
13	F11	Q-110	97548-97-5	319.28	Quinelorane dihydrochloride	LY-163,502	Dopamine		Agonist	D2	Yes	>10 mg/ml	Charles, M.A., Effects of LY163,502, a D2dopaminergic agonist, on the sexual behavior of male rats. Pharmacol. Biochem. Behav. 43, 1087 (1992)
13	G02	P 7295	125-33-7	218.26	Primidone		Anticonvulsant						Loscher, W., et al., Eur J Pharmacol. 1989 Mar 21;162(2):309-22
13	G03	P 8013	306-07-0	195.69	Pargyline hydrochloride	N-Methyl-N-2-propynylbenzylamine hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-B			Taylor, J.D., et al.,Nature 187, 941 (1960)
13	G04	P 8688	4199--10--4	295.81	(S)-Propranolol hydrochloride	(S)-1-Isopropylamino-3-(1-naphthyloxy)-2-propanol hydrochloride	Adrenoceptor		Blocker	beta	Yes	50 mg/ml	Goodwin, G.M., and Green, A.R., A behavioural and biochemical study in mice and rats of putative selective agonists and antagonists for 5-HT1 and 5-HT2 receptors. Br. J. Pharmacol. 84, 743-753 (1985)
13	G05	P 9159	72450-62-5	165.21	Piperidine-4-sulphonic acid	P4S	GABA		Agonist	GABA-A			Krogsgaard-Larsen, Piperidine-4-sulphonic acid, a new specific GABA agonist. J. Neurochem. 34, 756 (1980)
13	G06	P 9708	107381-36-2	377.92	(S)-(-)-propafenone hydrochloride	(S)-1-(2-[2-Hydroxy-3-(propylamino)propoxy]phenyl)-3-phenyl-1-propanone hydrochloride	Adrenoceptor		Blocker	beta			Candinas, R., et al.,Eur. J. Clin. Pharmacol. 50, 185 (1991)
13	G07	P-107	20125-39-7	371.40	N6-2-Phenylethyladenosine		Adenosine		Agonist	A1	Very Slightly slouble		Kusachi, Dog coronary artery adenosine receptor: Structure of the N6-alkyl subregion. J. Med. Chem. 38, 1636 (1985)
13	G08	P-152	26328-11-0	248.33	S(-)-Pindolol		Serotonin		Agonist	5-HT1A	Insoluble		Watkins, D.J., et al., Loss of [125I]-pindolol binding to beta-adrenoceptors on rat nodose ganglion after chronic isoprenaline treatment. J. Auton. Nerv. Syst. 60, 12-16 (1996)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
13	G09	P-215	167869-21-8	267.29	PD 98,059	2-(2-Amino-3-methoxyphenyl)-4H-1-benzopyran-4-one	Phosphorylation	Enzyme	Inhibitor	MEK2	Insoluble		Alessi, et al., PD 098059 is a specific inhibitor of the activation of mitogen-activated protein kinase kinasein vitroandin vivo. J. Biol. Chem. 270, 27489-27494 (1995)
13	G10	Q 1250	6119-70-6	746.93	Quinine sulfate		K+ Channel		Antagonist		Slighty Soluble	1.2 mg/ml	Clement, E.M., et al.,Neuropharmacology 37, 945 (1998)
13	G11	Q-111	73625-62-4	292.25	(±)-Quinpirole dihydrochloride	LY-141,865	Dopamine		Agonist	D2 > D3	Yes	28 mg/ml	Eilam, D., Szechtman, H., Biphasic effect of D2agonist quinpirole on locomotion and movements Eur. J. Pharmacol. 161, 151-157 (1989)
13	H02	P 7340	80938-69-8	427.03	(±)-threo-1-Phenyl-2-decanoylamino-3-morpholino-1-propanol hydrochloride	PDMP hydrochloride	Sphingolipid	Enzyme	Inhibitor	Glucosylceramide synthase			Inokuchi, et al., Effects of D-threo-PDMP, an inhibitor of glucosylceramide synthetase, on expression of cell surface glycolipid antigen and binding to adhesive proteins by B16 melanoma cells. J. Cell Physiol. 141, 573-583 (1989)
13	H03	P 8139	16561-29-8	616.84	Phorbol 12-myristate 13-acetate	PMA	Phosphorylation	Enzyme	Activator	PKC			Schmidt, R., and Hecker, E., Autoxidation of phorbol esters under normal storage conditions. Cancer Res. 35, 1375-1377 (1975)
13	H04	P 8765	5108-96-3	164.29	Ammonium pyrrolidinedithiocarbamate	APDC	Nitric Oxide	Enzyme	Modulator	NOS			Sherman, M. P., et al., Pyrrolidine dithiocarbamate inhibits induction of nitric oxide synthase activity in rat alveolar macrophages. Biochem. Biophys. Res. Comm. 191, 1301-1308 (1993)
13	H05	P 9178	84-02-6	606.10	Prochlorperazine dimaleate		Dopamine		Antagonist		Slighty Soluble	0.3 mg/ml	Lummis, S.C., Baker, J., Radioligand binding and photoaffinity labeling studies show a direct interaction of phenothiazenes at 5-HT3 receptors. Neuropharmacology 36, 665 (1997)
13	H06	P 9797	101-26-8	261.12	Pyridostigmine bromide		Cholinergic	Enzyme	Inhibitor	Cholinesterase			Bernatova, I., et al., Pharmacol Biochem Behav. 2003 Mar;74(4):901-7
13	H07	P-108		343.34	N6-Phenyladenosine		Adenosine		Agonist	A1	Yes		Dunwiddie, et al., Adenosine analogs mediating depressant effects of synaptic transmission in rat hippocampus: Structure-activity relationships for the N6subregion. Naunyn-Schmiedeberg's Arch. Pharmacol. 334, 77 (1986)
13	H08	P-154	85371-64-8	245.33	Pinacidil	(±)-N-Cyano-N'-4-pyridinyl-N"-(1,2,2-trimethylpropyl)-guanidine	K+ Channel		Activator		Insoluble		Gojkovic-Bukarica, L., et al., Differential effects of pinacidil and levcromakalim on the contractions elicited electrically or by noradrenaline in the portal vein of the rabbit. Fundam. Clin. Pharmacol. 13, 527-534 (1999)
13	H09	P-216	123594-64-9	285.77	(±)-PD 128,907 hydrochloride	PD 125,530	Dopamine		Agonist	D3	Yes	9.0 mg/ml	DeWald, et al., Synthesis and dopamine agonist properties of (+)-trans-3,4,4a,10b-tetrahydro-4-propyl-2H5H-[1]benzo pyrano[43-b]-oxazin-9-ol and its enantiomers. J. Med. Chem. 33, 445 (1990)
13	H10	Q 2128	52809-07-1	189.13	(+)-Quisqualic acid	L(+)-alpha-Amino-3,5-dioxo-1,2,4-oxadiazolidine-2-propanoic acid	Glutamate		Agonist	AMPA	Yes	0.5 mg/ml	Boden, et al., The action of natural and synthetic isomers of quisqualic acid at a well-defined glutamatergic synapse. Brain Res. 385, 205 (1986)
13	H11	R 0500	152-58-9	346.47	Cortexolone	11-Deoxycortisol	Hormone		Precursor	Cortisol			Reichstein, T. and Shoppee, C.W.,Vitam. Horm. 1, 346 (1943)
14	A02	R 0758	23239-51-2	323.82	Ritodrine hydrochloride	N-(p-Hydroxyphenethyl)-4-hydroxynorephedrine hydrochloride	Adrenoceptor		Agonist	beta2			Bertini, S., et al., Effects ofb3-adrenoceptor agonist SR 58611A on gastric acid secretion and histamine release in the dog: comparison with ritodrine. Gen. Pharmacol. 31, 625-631 (1998)
14	A03	R 5523	101910-24-1	335.45	REV 5901	alpha-Pentyl-3-[2-quinolinylmethoxy]benzyl alcohol	Leukotriene		Antagonist	LTD4			Van Inwegen, R.G.,J. Pharmacol. Exp. Ther. 241, 117 (1987)
14	A04	R 8900		406.89	Ro 8-4304	(4-[3-(4-[4-fluorophenyl]-3,6-dihydro-2H-pyridin-1-yl)-2-hydroxypropoxy]benzamide	Glutamate		Antagonist	NMDA-NR2B	Yes	<0.5 mg/ml	Ghelardini, C., et al.,Drug Dev. Res. 40, 251-258 (1997)
14	A05	R-108	125628-97-9	277.21	Ro 41-0960	2'-Fluoro-3,4-dihydroxy-5-nitrobenzophenone	Neurotransmission	Enzyme	Inhibitor	COMT	Slighty Soluble	<0.7 mg/ml	Borgulya, et al., Catechol-O-methyltransferase-inhibiting pyrocatechol derivatives: Synthesis and structure-activity studies. Helv. Chim. Acta 72, 952 (1989)
14	A06	R-140	202466-68-0	381.29	Ro 04-6790 dihydrochloride	4-Amino-N-[2,6-bis(methylamino)-4-pyrimidinyl]-benzenesulfonamide dihydrochloride	Serotonin		Antagonist	5-HT6	Yes	>10 mg/ml	Sleight, A.J., et al., Characterization of Ro 04-6790 and Ro 63-0563: Potent and selective antagonists at human and rat 5-HT6receptors Br. J. Pharmacol. 124, 556-562 (1998)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
14	A07	S 1441		612.75	Cortexolone maleate	N-(4-[4-(2-methoxyphenyl)-piperazin-1-yl]-butyl-5-(dimethylamino)-napthalene-1-sulfonamide maleate	Dopamine		Antagonist	D2			Weber, B. et al.,Br. J. Pharmacol. 138, 1243 (2001)
14	A08	S 2501	334-50-9	254.63	Spermidine trihydrochloride	N-(3-Aminopropyl)-1,4-butanediamine trihydrochloride	Glutamate		Ligand	NMDA-Polyamine			Cull, M., and McHenry, C.S., Preparation of extracts from prokaryotes Meth. Enzymol. 182, 147-153 (1990)
14	A09	S 3313	148702-58-3	419.35	SB 204070 hydrochloride	1-Butyl-4-piperidinylmethyl-8-amino-7-chloro-2,3-dihydro-1,4-benzodioxin-5-carboxylate hydrochloride	Serotonin		Antagonist	5-HT4	Yes	20 mg/ml	Gaster, L.M. et al,J. Med. Chem. 36, 4121 (1993)
14	A10	S 6879	123-78-4	299.50	Sphingosine	4-Sphingenine	Phosphorylation	Enzyme	Inhibitor	PKC			Sachs, et al., Effects of sphingosine stereoisomers on P-glycoprotein phosphorylation and vinblastine accumulation in multidrug-resistant MCF-7 cells. Biochem. Pharmacol. 52, 603-612 (1996)
14	A11	S 8010	15676-16-1	341.43	(±)-Sulpiride	(±)-5-(Aminosulfonyl)-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxybenzamide	Dopamine		Antagonist	D2	Slighty Soluble		Hauber, W., and Lutz, S., Dopamine D1 or D2 receptor blockade in the globus pallidus produces akinesia in the rat Behav. Brain Res. 106, 143-150 (1999)
14	B02	R 1402	84449-90-1	510.06	Raloxifene hydrochloride	LY 139481	Hormone		Modulator	ER	Insoluble		Fitzpatrick, S.L., Effect of estrogen agonists and antagonists on induction of progesterone receptor in a rat hypothalamic cell line. Endocrinology 140, 3928 (1999)
14	B03	R 5648	82-08-6	516.55	Rottlerin	Mallotoxin	Phosphorylation	Enzyme	Inhibitor	PKC / CaM Kinase III			Gschwendt, M., et al.,Biochem. Biophys. Res. Comm. 199, 93 (1994)
14	B04	R 9525	102575-24-6	270.72	RX 821002 hydrochloride	2-[2-(2-Methoxy-1,4-benzodioanyl)]-imidazoline hydrochloride	Adrenoceptor		Antagonist	alpha2			Galitzky, J. et al.,Br. J. Pharmacol. 100, 862-866 (1990)
14	B05	R-115	12236-82-7	840.11	Reactive Blue 2	Basilen blue E-3G	P2 Receptor		Antagonist	P2Y	Yes		Inoue, et al., Antagonism by reactive blue 2 but not by brilliant blue G of extracellular ATP-evoked responses in PC12phaeochromocytoma cells Br. J. Pharmacol. 102, 851 (1991)
14	B06	S 0278	959-24-0	308.83	(±)-Sotalol hydrochloride	N-(4-[1-Hydroxy-2-(isopropylamino)ethyl]phenyl)methanesulfonamide hydrochloride	Adrenoceptor		Antagonist	beta	Yes	20 mg/ml	Doggrell, S.A., The effects of (±)-, (+)-, and (-)-atenolol, sotalol, and amosulalol on the rat left atria and portal vein. Chirality 5, 8-14 (1993)
14	B07	S 1563	156727-74-1	232.15	SKF 86466	6-Chloro-2,3,4,5-tetrahydro-3-methyl-1H-3-benzazepine hydrochloride	Adrenoceptor		Antagonist	alpha2	Yes	24 mg/ml	Tolentino-Silva, F.P. et al.,J. Appl. Physiol. 89, 437-444 (2000)
14	B08	S 2812	156727-74-1	449.64	SNC80	(+)-4-[(alphaR)-alpha-((2S,5R)-4-Allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide	Opioid		Agonist	delta	Yes		Calderon, S.N. et al.,J. Med. Chem. 40, 695-704 (1997)
14	B09	O 2139	105955-11-1	417.64	N-Oleoyldopamine	OLDA	Neurotransmission		Ligand	CB1			Czarnocki, et al.,Org. Prep. Proc. Int. 30, 699-702 (1998)
14	B10	S 7389		388.96	SB 269970 hydrochloride	[R]-3-[2-(2-[4-Methyl-piperidin-1-yl]ethyl)pyrrolidine-1-sulfonyl]phenol hydrochloride	Serotonin		Antagonist	5-HT7	Yes	22 mg/ml	Hagan, J.J. et al.,Br. J. Pharmacol. 130(3), 539-48 (2000)
14	B11	C 7238	85703-73-7	592.78	CV-3988	(+/-)-(3-(N-Octadecylcarbamoyloxy)-2-methoxy)propyl-2-thiazolioethyl phosphate	Cytokines & Growth Factors		Antagonist	PAF			Terashita, Z., et al, Inhibition by CV-3988 of the binding of [3H]-platelet activating factor (PAF) to the platelet Biochem. Pharmacol. 34, 1491-1495 (1985)
14	C02	R 2625	302-79-4	300.44	Retinoic acid	Vitamin A acid	Apoptosis	Enzyme	Activator				Napoli, J.L., Biochemical pathways of retinoid transport, metabolism, and signal transduction. Clin. Immunol. Immunopathol. 80, S52-S62 (1996)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
14	C03	R 6152		500.47	Ranolazine dihydrochloride	N-(2,6-Dimethylphenyl)-4-[2-hydroxy-3-(2-methoxyphenoxy) propyl]-1-piperazineacetamide dihydrochloride; (±) -4-[2-hydroxy-3-(o-methoxyphenoxy)propyl]-1-piperazineaceto-2',6'-xylidide dihydrochloride	Lipid	Enzyme	Inhibitor	pFOX	Yes	10 mg/ml	Zacharowski, K., et. al.,, Ranolazine, a partial fatty acid oxidation inhibitor, reduces myocardial infarct size and cardiac troponin T release in the rat. Eur. J. Pharmacol. 418, 105-110 (2001)
14	C04	R 9644	36791-04-5	244.21	Ribavirin	1-beta-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide	Cell Cycle	Enzyme	Inhibitor	IMP dehydrogenase			Liao, H.J. and Stollar, V., Reversal of the antiviral activity of ribavirin against Sindbis virus in Ae. albopictus mosquito cells Antiviral Res. 22, 285-294 (1993)
14	C05	R-116	1744-22-5	234.20	Riluzole	2-Amino-6-(trifluoromethoxy)-benzothiazole	Glutamate		Antagonist	Release	Insoluble		Samuel, et al., Effects of riluzole (2-amino-6-trifluoromethoxy benzothiazole) on striatal neurochemical markers in the rat, with special references to the dopamine, choline, GABA and glutamate synaptosomal high affinity uptake systems. Fundam. Clin. Pharmacol. 6, 177 (1992)
14	C06	S 0441		287.75	SB-366791	Vanilloid receptor-1 antagonist	Vanilloid		Antagonist	VR1			Gunthorpe, M.J., et al., Identification and characterisation of SB-366791, a pote and selective vanilloid receptor (VR1/TRPV1) antagonist. Neuropharmacology. 2004 Jan;46(1):133-49
14	C07	S 1688		248.16	SR 57227A	4-amino-1-(6-chloro-2-pyridyl)-piperidine hydrochloride	Serotonin		Agonist	5-HT3	Yes	9.0 mg/ml	Bachy. A., et al., SR 57227A: a potent and selective agonist at central and peripheral 5-HT3receptorsin vitroandin vivo. Eur. J. Pharmacol. 237, 299 (1993)
14	C08	S 2816		398.73	SKF 83959 hydrobromide	6-chloro-7,8-dihydroxy-3-methyl-1-(3-methylphenyl)-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1	Insoluble		
14	C09	S 3378	52-01-7	416.58	Spironolactone		Hormone		Antagonist	Mineralocorticoid			Pitt, B., et al.,New England J. Med. 341, 709 (1999)
14	C10	S 7395	749-02-0	431.94	Spiperone hydrochloride	R 5147 hydrochloride; Spiroperidol hydrochloride	Dopamine		Antagonist	D2	Slighty Soluble	0.2 mg/ml	Testa, R., et al., Mediation of noradrenaline-induced contractions of rat aorta by thea1B-adrenoceptor subtype Br. J. Pharmacol. 114, 745-750 (1995)
14	C11	S 8139	38194-50-2	356.42	Sulindac	(Z)-5-Fluoro-2-methyl-1-[[4-(methyl-sulfinyl)phenyl]methylene]-1H-indene-3-acetic acid	Prostaglandin	Enzyme	Inhibitor	COX			Smith, W.L., et al., Interactions of PGH synthase isozymes-1 and -2 with NSAIDs. Ann. N.Y. Acad. Sci. 744, 50 (1994)
14	D02	R 2751	11103-72-3	786.36	Ruthenium red	Ammoniated ruthenium oxychloride	Ion Pump		Inhibitor	Mitochondrial uniporter			J.H.M. Charuk, Interaction with calcium-binding proteins. Anal. Biochem. 188, 123 (1990)
14	D03	R 6520	61413-54-5	275.35	Rolipram	ZK 62711	Cyclic Nucleotides	Enzyme	Inhibitor	PDE IV	Yes	0.2 mg/ml	Zhu, W.H, et al., Cyclic AMP-specific phosphodiesterase inhibitor rolipram and RO-20-1724 promoted apoptosis in HL60 promyelocytic leukemic cells via cycle AMP-independent mechanism. Life Sci. 63, 265-274 (1998)
14	D04	R-101	66357-59-3	350.87	Ranitidine hydrochloride	Zantac	Histamine		Antagonist	H2	Yes	1.8 mg/ml	Bliss, P.W., et al., N-alpha-methyl histamine and histamine stimulate gastrin release from rabbit G-cells via histamine H2-receptors. Aliment. Pharmacol. Ther. 13, 1669 (1999)
14	D05	R-118	106266-06-2	410.50	Risperidone	R 62 766	Dopamine		Antagonist	D2	Insoluble		Assie, et al., Biphasic displacement of [3H]YM-09151-2 binding in the rat brain by thioridzinerisperidone and clozapine but not by other antipsychotics Eur. J. Pharmacol. 237, 183 (1993)
14	D06	S 0501	13755-38-9	261.92	Sodium nitroprusside dihydrate	Sodium nitroferricyanide	Nitric Oxide		Releaser				Brune, B., and Lapetina, E.G., Activation of a cytosolic ADP-ribosyltransferase by nitric oxide-generating agents J. Biol. Chem. 264, 8455-8458 (1989)
14	D07	S 1875	114-49-8	384.27	(-)-Scopolamine hydrobromide	Hyoscine hydrobromide	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Rush, D.K., Scopolamine amnesia of passive avoidance: a deficit of information acquisition Behav. Neural Biol 50, 255-274 (1988)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
14	D08	S 2876	306-67-2	348.19	Spermine tetrahydrochloride	N,N'-bis(3-Aminopropyl)-1,4-butanediamine tetrahydrochloride	Glutamate		Antagonist	NMDA-Polyamine			Sacaan, A.I., and Johnson, K.M., Spermine enhances binding to the glycine site associated with the N-methyl-D-aspartate receptor complex Mol. Pharmacol. 36, 836-839 (1989)
14	D09	S 4063		348.27	SCH-202676 hydrobromide	N-(2,3-diphenyl-1,2,4-thiadiazol-5-(2H)-ylidene)methanamine hydrobromide	G protein		Modulator	GPCR	Insoluble		Goerdeler, J. , Eggers, W. ,Chem. Ber. 119, 3737 (1986)
14	D10	S 7690		370.41	SR 2640	2-[[3-(2-Quinolinylmethoxy)phenyl]amino]-benzoic acid; QMPB	Leukotriene		Antagonist	CysLT1			Ahnfelt-Ronne, I., et al, A novel leukotriene D4/E4 antagonist, SR2640 (2-[3-(2-quinolylmethoxy)phenylamino]benzoic acid). Eur. J. Pharmacol. 155, 117-128 (1995)
14	D11	S 8251	6101-15-1	361.31	Succinylcholine chloride		Cholinergic		Antagonist	Nicotinic	Yes		Albrecht, et al., Masseter muscle rigidity and nondepolarizing neuromuscular blocking agents. Mayo Clin. Proc. 72, 329-332 (1997)
14	E02	R 3255	4759-48-2	300.44	13-cis-retinoic acid	Isotretinoin	Transcription		Regulator	RAR-alpha, beta			Datta, P.K., and Lianos, E.A., Retinoic acids inhibit inducible nitric oxide synthase expression in mesangial cells Kidney Int. 56, 486-493 (1999)
14	E03	R 7150		375.94	Ro 25-6981 hydrochloride	(R-[R*,S*])-alpha-(4-Hydroxyphenyl)-beta-methyl-4-(phenylmethyl)-1-peperidinepropanol) hydrochloride	Glutamate		Antagonist	NMDA-NR2B	Yes	2.0 mg/ml	Fischer, G., et al., Ro 25-6981 a highly potent and selective blocker of N-methyl-D-aspartate receptors containing the NR2B subunit. J. Pharmacol. Exp. Ther. 283, 1285 (1997)
14	E04	R-103	87051-43-2	477.58	Ritanserin	6-[2-[4-bis(4-Fluorophenyl)methylene]-1-piperidinyl]-ethyl]-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one	Serotonin		Antagonist	5-HT2/5-HT1C	Insoluble		Leysen, J.E., et al., Receptor-binding properties in vitro and in vivo of ritanserin, a very potent and long acting serotonin-S2antagonist. Mol. Pharmacol. 27, 600-611 (1985)
14	E05	R-121	98185-20-7	497.33	S(+)-Raclopride L-tartrate		Dopamine		Antagonist	D2	Yes	89 mg/ml	Kopp, et al., Effect of raclopride on dopamine D2receptor mRNA expression in rat brain. Neuroscience 47, 771-779 (1992)
14	E06	S 0752	94-07-5	167.21	(±)-Synephrine	4-hydroxy-alpha-(methylaminomethyl)benzyl alcohol	Adrenoceptor		Agonist	alpha			Brown, C.M., et al., Activities of octopamine and synephrine stereoisomers on alpha-adrenoceptors Br. J. Pharmacol. 93, 417-429 (1988)
14	E07	S 2064	188817-13-2	352.75	SC-560	5-(4-Chlorophenyl)-1-(4-methoxyphenyl)-3-trifluoromethyl pyrazole	Prostaglandin	Enzyme	Inhibitor	COX-1			Masferrer, J.L., Selective inhibition of inducible cyclooxygenase 2 in vivo is antiinflammatory and nonulcerogenic Proc. Natl. Acad. Sci. USA 91, 3228 (1994)
14	E08	S 2941		350.26	SKF 75670 hydrobromide	7,8-dihydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1	Insoluble		Adachi, K. et al.,Eur. J. Pharmacol. 367, 143-149 (1999)
14	E09	S 4250	312-84-5	105.09	D-Serine	R(-)-2-Amino-3-hydroxypropionic acid	Glutamate		Agonist	NMDA-Glycine			Brugger, et al., Modulation of NMDA receptor by D-serine in the cortex and the spinal cordin vitro Eur. J. Pharmacol. 191, 29 (1990)
14	E10	S 7771	23672-07-3	341.43	(-)-Sulpiride	(-)-5-Aminosulfonyl-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxybenzamide	Dopamine		Antagonist	D2			Hauber, W., and Lutz, S., Dopamine D1 or D2 receptor blockade in the globus pallidus produces akinesia in the rat Behav. Brain Res. 106, 143-150 (1999)
14	E11	S 8260	18559-94-9	239.32	Salbutamol	Albuterol	Adrenoceptor		Agonist	beta2			Handley, D., The asthma-like pharmacology and toxicology of (S)-isomers ofb-agonists J. Allergy Clin. Immunol. 104, S69-S76 (1999)
14	F02	R 3277	84-26-4	287.32	Rutaecarpine	Rutecarpine	K+ Channel		Blocker		Yes	18 mg/ml	Wu, S.N., et al., Rutaecarpine-induced block of delayed rectifier K+current in NG108-15 neuronal cells. NMR Shift Reagents 41, 834 (2001)
14	F03	R 7385	119942-99-3	587.48	Phosphoramidon disodium	N-(alpha-Rhamnopyranosyloxyhydroxyphosphinyl)-Leu-Trp disodium	Biochemistry	Enzyme	Inhibitor	Endopeptidase	Yes		Umezawa, H,Meth. Enzymol. 45, 678 (1976)
14	F04	R-104	6211-32-1	390.91	Rauwolscine hydrochloride	alpha-Yohimbine hydrochloride	Adrenoceptor		Antagonist	alpha2	Yes		Perry, B.C., and U'Prichard, D.C., [3H]Rauwolscine (a-yohimbine): a specific antagonist radioligand for brain alpha2-adrenergic receptors Eur. J. Pharmacol. 76, 461-464 (1981)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
14	F05	S 4692	98631-95-9	514.54	Sobuzoxane	4,4'-(1,2-Ethanediyl)bis(1-isobutoxycarbonyloxymethyl-2,6-piperazinedione)	Gene Regulation	Enzyme	Inhibitor	Topo II			Onishi, U., et al., bis(2.6-dioxopiperaxine) derivatives, topoisomerase II inhibitors which do not form a DNA cleavable complex, induce thymocyte apoptosis. Biochem. Mol. Biol. Int. 32, 115-122 (1994)
14	F06	S 0758	526-08-9	314.37	Sulfaphenazole	4-Amino-N-(1-phenyl-1H-pyrazol-5-yl)-benzenesulfonamide	Multi-Drug Resistance	Enzyme	Inhibitor	Cytochrome P4502C			Viswanathan, S., et al., J Am Coll Nutr. - 22, 502-510 (2003)
14	F07	S 2201	563-41-7	111.53	Semicarbazide hydrochloride	Hydrazine carboxamide hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO			Stolen, C. M., et al., FASEB J. 2004 Apr;18(6):702-4. Epub 2004 Feb 20
14	F08	S 3065	19395-87-0	331.76	SC 19220	2-acetylhydrazide 10(11H)-carboxylic acid	Prostaglandin		Antagonist	EP1	Insoluble		DelToro, F. Jr., Characterization of prostaglandin E(2) receptors and their role in 24,25-(OH)(2)D(3)-mediated effects on resting zone chondrocytes. J. Cell Physiol. 182, 196 (2000)
14	F09	S 5013	51022-70-9	576.71	Albuterol hemisulfate	Salbutamol hemisulfate	Adrenoceptor		Agonist	beta2			Handley, D.,, The asthma-like pharmacology and toxicology of (S)-isomers ofb-agonists J. Allergy Clin. Immunol. 104, S69-S76 (1999)
14	F10	S 7809	130495-35-1	402.93	SKF 96365	1-(beta-[3-(4-Methoxyphenyl)propoxy]-4-methoxyphenethyl)-1H-imidazole hydrochloride	Ca2+ Channel		Inhibitor				Merritt, J.E., et al.,Biochem. J. 271, 515 (1990)
14	F11	S 2692		415.58	Salmeterol	(±) 4-Hydroxy-a1-[[[6-(4-phenylbutoxy)hexyl]amino]m-ethyl]-1,3-benzenedimethanol; GR 33343X	Adrenoceptor		Agonist	beta2	Insoluble		January, B. et al.,,Br. J. Pharmacol. 123, 701-711 (1998)
14	G02	R 4152	91374-20-8	296.84	Ropinirole hydrochloride	SKF 101468; 4-[2-(dipropylamino)ethyl]-1,3-dihydro-2H-indol-2-one hydrochloride	Dopamine		Agonist	D2	Yes	15 mg/ml	Tanaka, K. et al.,Neurochem. Res. 26, 31-36 (2001)
14	G03	R 7772	186692-46-6	354.46	Roscovitine	(R)-2-(1-Ethyl-2-hydroxyethylamino)-6-benzylamino-9-isopropylpurine	Phosphorylation	Enzyme	Inhibitor	CDK			DeAzevado, W.F., et al., Inhibition of cyclin-dependent kinases by purine analogues: crystal structure of human cdk2 complexed with roscovitine. Eur. J. Biochem. 243, 518-526 (1997)
14	G04	R-106	94319-79-6	235.11	Ro 16-6491 hydrochloride	N-(2-Aminoethyl)-4-chlorobenzamide hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-B	Yes		Keller, et al., Short-acting novel MAO inhibitors:In vitroevidence for the reversibility of MAO inhibition by moclobemide and Ro 16-6491. Naunyn-Schmiedeberg's Arch. Pharmacol. 335, 12-6491 (1987)
14	G05	R-134	54187-04-1	180.25	Rilmenidine hemifumarate	N-(Dicyclopropylmethyl)-4,5-dihydro-2-oxazolamine; Oxaminozoline	Imidazoline		Agonist	I1	Yes	7.3 mg/ml	Takada, K., et al., The involvement of pertussis toxin-sensitive G proteins in the post receptor mechanism of central I1-imidazoline receptors Br. J. Pharmacol. 120, 1575 (1997)
14	G06	S 1316		808.99	Seglitide	MK 678	Somatostatin		Agonist	sst2	Yes	26 mg/ml	Mitchell, S.N., Eur J Pharmacol. 200 Apr 21;395(1):43-6
14	G07	S 2250	6106-46-3	380.40	(-)-Scopolamine methyl nitrate	Hyoscine methyl nitrate	Cholinergic		Antagonist	Muscarinic			Partwee, et al., Drugs which stimulate or facilitate central cholinergic transmission interact synergistically with delta-9-tetrahydrocannabinol to produce marked catalepsy in mice Neuropharmacology 30, 67 (1991)
14	G08	S 3066		328.23	SKF 89626	4-(3,4-dihydroxyphenyl)-4,5,6,7-tetrahydrothieno[2,3-c]pyridine	Dopamine		Agonist	D1	Yes	11 mg/ml	Anderson, P.H., Eur J Pharmacol. 1990 Jun 12;188(6):335-47
14	G09	S 5890	5578-73-4	367.79	Sanguinarine chloride	13-Methyl-[1,3]benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i] phenanthridinium chloride	Ion Pump		Inhibitor	Na+/K+ ATPase	Slighty Soluble	<0.3 mg/ml	Chaturvedi, M.M., et al.,J. Biol. Chem. 272, 30129 (1997)
14	G10	S 7882	149-64-4	440.38	(-)-Scopolamine,n-Butyl-, bromide	Butylscopolamine bromide	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Kurahashi, K., et al., Inhibitory effects of various spasmolytics on the vagal afferent gastric excitatory response in cats. Life Sci. 61, 831-838 (1997)
14	G11	S 8442	204005-46-9	238.29	SU 5416	1,3-Dihydro-3-[(3,5-dimethyl-1H-pyrrol-2-yl) methylene]-2H-indol-2-one	Phosphorylation		Inhibitor	VEGFR PTK	Insoluble		Takamoto, T.,et al, Flk-1 specific kinase inhibitor (SU5416) inhibited the growth of GS-9L glioma in rat brain and prolonged the survival Kobe J. Med. Sci 47, 181-191 (2001)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
14	H02	R 5010	501-36-0	228.25	Resveratrol	5-[(1E)-2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol	Prostaglandin	Enzyme	Inhibitor	COX			MacCarrone, M., et al., Resveratrol prevents apoptosis in K562 cells by inhibiting lipoxygenase and cyclooxygenase activity. Eur. J. Biochem. 265, 27-34 (1999)
14	H03	R 8875	83-79-4	394.43	Rotenone		Cell Stress		Modulator	Mitochondria			Fukami, J.I., et al.,Science 155, 713 (1967)
14	H04	R-107	127500-84-9	301.77	Ro 41-1049 hydrochloride	N-(2-Aminoethyl)-5-(3-fluorophenyl)-4-thiazolecarboxamide hydrochloride	Neurotransmission	Enzyme	Inhibitor	MAO-A	Yes		Kettler, et al., Neuropharmacological comparison of moclobemide with the novel MAO-A inhibitor Ro 41-1049 in the rat J. Neurochem. 52, S154 (1989)
14	H05	D 7815	71771-90-9	317.39	R(-)-Denopamine	(-)-alpha-(3,4-dimethoxyphenethylaminomethyl)-4-hydroxybenzylalcohol	Adrenoceptor		Agonist	beta1	Insoluble		Sakuma, T. et al.,J. Appl. Physiol. 90, 10-16 (2001)
14	H06	S 1438	59864-04-9	372.42	Sulindac sulfone	(Z)-5-Fluoro-2-methyl-1-[p-(methylsulfonyl)benzylidene]indene-3-acetic acid	Prostaglandin	Enzyme	Inhibitor				Vogiagis, D. et al., Rat colorectal tumours treated with a range of non-steroidal anti-inflammatory drugs show altered cyclooxygenase-2 and cyclooxygenase-1 splice variant mRNA expression levels. Carcinogenesis 22, 869 (2001)
14	H07	S 2381	18822-91-8	464.13	DL-Stearoylcarnitine chloride		Phosphorylation	Enzyme	Inhibitor	PKC			Nekadate and Blumberg,Cancer Res. 47, 6547 (1987)
14	H08	S 3191		419.15	SKF 83565 hydrobromide	6-chloro-1-(3-chlorophenyl)-7,8-dihydroxy-3-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1	Yes	4.5 mg/ml	Adachi, K. et al.,Eur. J. Pharmacol. 367, 143-149 (1999)
14	H09	S 6633	63250-32-8	215.21	N-Succinyl-L-proline		Neurotransmission	Enzyme	Inhibitor	ACE			Ondetti, M.A.,Science 196, 441 (1977)
14	H10	S 7936		330.41	SB 205384	4-Amino-7-hydroxy-2-methyl-5,6,7,8-tetrahydrobenzo[b]thieno[2,3-b]pyridine-3-carboxylic acid but-2-ynyl ester	GABA		Modulator	GABA-A	Insoluble		Meadows, H.,Br. J. Pharmacol. 121, 1334-1338 (1997)
14	H11	S 8502	155-41-9	398.30	(-)-Scopolamine methyl bromide	Hyoscine methyl bromide	Cholinergic		Antagonist	Muscarinic	Yes	50 mg/ml	Sharif, N.A., et al., Affinities of muscarinic drugs for N-methylscopolamine (NMS) and oxotremorine (OXO) binding to a mixture of M1-M4 muscarinic receptors: use of NMS/OXO-M ratios to group compounds into potential agonist, partial agonist, and antagonist classes. Neurochem. Res. 20, 669-674 (1995)
15	A02	S 8567	5812--07--7	264.33	SU 4312	3-(4-Dimethylaminobenzylidenyl)-2-indolinone	Phosphorylation	Enzyme	Inhibitor	KDR	Insoluble		Kendall, R.L., et al., Vascular endothelial growth factor receptor KDR tyrosine kinase activity is increased by autophosphorylation of two activation loop tyrosine residues J. Biol. Chem. 274, 6453-5460 (1999)
15	A03	S-008		228.72	1-(2-Methoxyphenyl)piperazine hydrochloride	2-MPP hydrochloride	Serotonin		Agonist	5-HT1 > 5-HT2			
15	A04	S-154	17094-01-8	237.22	Sepiapterin	S(-)-2-Amino-7,8-dihydro-6-(2-hydroxy-1-oxopropyl)-4(1H)-pteridione	Nitric Oxide	Enzyme	Cofactor	NOS			Lelchuk, et al., Constitutive and inducible nitric oxide synthases in human megakaryoblastic cells J. Pharmacol. Exp. Ther. 262, 1220-1224 (1992)
15	A05	T 0410	51012-32-9	364.89	Tiapride hydrochloride	N-(2-[Diethylamino]ethyl)-5-(methylsulfonyl)-o-anisamide hydrochloride	Dopamine		Antagonist	D2/D3			Peters and Faulds, Tiapride, A review of its pharmacology and therapeutic potential in the management of alcohol dependence syndrome Drugs 47, 1010 (1994)
15	A06	T 1516	58947-95-8	337.94	Trihexyphenidyl hydrochloride		Cholinergic		Antagonist	Muscarinic	Yes		Hayakawa, et al., Effects of anti-Parkinsonian drugs on neurobehavioural changes induced by bilateral 6-hydroxydopamine lesions in rats Clin. Exp. Pharmacol. Physiol. 26, 421-425 (1999)
15	A07	T 2528	23031-32-5	548.66	Terbutaline hemisulfate	2-t-Butylamino-1-(3,5-dihydroxyphenyl)ethanol	Adrenoceptor		Agonist	beta			Torneke, K., et al., A comparison between clenbuterol, salbutamol and terbutaline in relation to receptor binding andin vitrorelaxation of equine tracheal muscle. J. Vet. Pharmacol. Ther. 21, 388-392 (1998)
15	A08	T 4182	175178-82-2	315.76	Tyrphostin AG 1478	N-(3-Chlorophenyl)-6,7-dimethoxy-4-quinazolinamine	Phosphorylation	Enzyme	Inhibitor	EGFR			Osherov, N. and Levitzki, A.,Eur. J. Biochem. 225, 1047 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
15	A09	T 4568	133550-49-9	308.34	Tyrphostin AG 528	N-(3',4'-Dihydroxybenzylidenecyanoacetyl)-indoline	Phosphorylation	Enzyme	Inhibitor	EGFR			Gazit, A., et al.,J. Med. Chem. 34, 1896 (1991)
15	A10	T 5625	1077-28-7	206.33	(±)-alpha-Lipoic Acid	(±)-1,2-Dithiolane-3-pentanoic acid	Cell Stress	Enzyme	Coenzyme	Pyruvate dehydrogenase			Patel, M.S., and Hong, Y.S., Lipoic acid as an antioxidant. The role of dihydrolipoamide dehydrogenase Meth. Mol. Biol. 108, 337-346 (1998)
15	A11	T 6764	6138-79-0	314.86	Triprolidine hydrochloride	(E)-2-[3-(1-Pyrrolidinyl)-1-p-tolylpropenyl]pyridine hydrochloride	Histamine		Antagonist	H1			Kuzmin, et al., The effect of histamine receptor antagonists on stress-induced catecholamine secretion: an adrenomedullary microdialysis study in the rat. Eur. J. Pharmacol. 378, 311 (1999)
15	B02	S 8688		415.49	SR 59230A oxalate	3-(2-ethylphenoxy)-1[(1S)-1,2,3,4-tertahydronaphth-1-ylamino]-(2S)-2-propanol oxalate	Adrenoceptor		Antagonist	beta3	Insoluble		Brown, K.J., Summers, R.J.,Eur. J. Pharmacol. 415, 257 (2001)
15	B03	S-009	1814-64-8	349.40	PAPP	LY-165,163; p-Aminophenethyl-m-trifluoromethylphenyl piperazine	Serotonin		Agonist	5-HT1A	Insoluble		Cohen, M.L., et al.,In vitroreceptor specificity of the 5-HT1Aselective phenylpiperazine, LY-165,163. Life Sci. 39, 2441 (1986)
15	B04	S-159	39624-66-3	413.47	R(-)-SCH-12679 maleate	R(-)-1-Phenyl-2,3,4,5-tetrahydro-1H-7,8-dimethoxy-3-benzazepine maleate	Dopamine		Antagonist	D1	Yes	17.3 mg/ml	Barnett, et al., The behavioral pharmacology of SCH 12679. A new psychoactive agent Psychopharmacology 36, 281-290 (1974)
15	B05	T 0625	107-35-7	125.15	Taurine	2-Aminoethanesulfonic acid	Glycine		Agonist				Han, N.L., Characterization of a glycine receptor domain that controls the binding and gating mechanisms of the beta-amino acid agonist, taurine. J. Neurochem. 79, 636 (2001)
15	B06	T 1633	58-55-9	179.18	Theophylline	1,3-Dimethylxanthine	Adenosine		Antagonist	A1 > A2	Slighty Soluble		Reuter, et al., Phosphodiesterase inhibitors prevent NSAID enteropathy independently of effects on TNF-alpha release. Am. J. Physiol. 277, G8478-G8454 (1999)
15	B07	T 2879	60-19-5	173.64	4-Hydroxyphenethylamine hydrochloride	Tyramine hydrochloride	Dopamine		Agonist				Bunzow, J.R., et al., Amphetamine, 3,4-methylene-dioxymethamphetamine, lysergic acid diethylamide, and metabolites of the catecholamine neurotransmitters are agonists of a rat trace amine receptor. Mol. Pharmacol. 60, 1181 (2001)
15	B08	T 4264	522-48-5	236.75	Tetrahydrozoline hydrochloride		Adrenoceptor		Agonist	alpha			Ruffolo, R.R., Jr., Waddell, J.E., Receptor interactions of imidazolines:a-adrenoceptors of rat and rabbit aortae differentiated by relative potencies affinities and efficacies of imidazoline agonists. Br. J. Pharmacol. 77, 169 (1982)
15	B09	T 4680	63590-64-7	423.90	Terazosin hydrochloride	1-(4-Amino-6,7-dimethoxy-2-quinazolinyl)-4-[(tetrahydro-2-furanyl)carbonyl]piperazine hydrochloride	Adrenoceptor		Antagonist	alpha1	Yes	25 mg/ml	Kyncl, J.J., Pharmacology of terazoxin: ana1-selective blocker J. Clin. Pharmacol. 33, 878-883 (1993)
15	B10	T 6031	76721-89-6	253.32	DL-Thiorphan	DL-3-Mercapto-2-benzylpropanoylglycine	Neurotransmission	Enzyme	Inhibitor	Enkephalinase			Roques, B.P., et al.,Nature 288, 286 (1980)
15	B11	T 6943		236.23	Tyrphostin AG 112	3-Amino-2,4-dicyano-5-(4'-hydroxyphenyl)-penta-2,4-dienonitrile	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase			Gazit, A., et al.,J. Med. Chem. 32, 2344 (1989)
15	C02	B 5559		391.77	BRL 52537 hydrochloride	(+/-)-1-(3,4-Dichlorophenyl)acetyl-2-(1-pyrrolidinyl)methylpiperidine hydrochloride	Neurotransmission		Agonist	kappa/mu opioid	Insoluble		Dortch-Carnes, J. et al.,J. Pharmacol. Exp. Ther. 301, 599-604 (2002)
15	C03	S-103	1054-88-2	379.46	Spiroxatrine	R 5188	Serotonin		Agonist	5-HT1A	Slighty Soluble		Nelson, D.L., and Taylor, E.W., Spiroxatrine: A selective serotonin1Areceptor antagonist Eur. J. Pharmacol. 124, 207 (1986)
15	C04	S-168	104422-04-0	376.30	(±)-SKF 38393, N-allyl-, hydrobromide	(±)-7,8-Dihydroxy-3-allyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrobromide	Dopamine		Agonist	D1	Yes	6.0 mg/ml	Weed, M.R, et al., The relationship between reinforcing effects andin vitroeffects of D1agonists in monkeys J. Pharmacol. Exp. Ther. 283, 29-38 (1997)
15	C05	T 0780	5591-45-7	480.10	Thiothixene hydrochloride	SKF-5019 hydrochloride	Dopamine		Antagonist	D1/D2			Guthrie, et al., The effect of paroxetine on thiothixene pharmacokinetics J. Clin. Pharm. Ther. 22, 221-226 (1997)
15	C06	T 1694		101.11	(E)-4-amino-2-butenoic acid	TACA	GABA		Agonist	GABA-C	Yes	>20 mg/ml	Chebib, M. et al.,Br. J. Pharmacol. 122, 1551 (1997)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
15	C07	T 2896	1098-60-8	388.89	Triflupromazine hydrochloride		Dopamine		Antagonist	D2			Jovanovic-Micic, D., The role of alpha-adrenergic mechanisms within the area postrema in dopamine-induced emesis Eur. J. Pharmacol. 272, 21 (1995)
15	C08	T 4318		280.29	Tyrphostin AG 494	N-Phenyl-3,4-dihydroxybenzylidenecyanoacetamide	Phosphorylation	Enzyme	Inhibitor	EGFR			Kleinberger-Doron, N, et al.,Exp. Cell Res. 241, 340 (1998)
15	C09	T 4693		448.44	Tyrphostin AG 537	Bis-Tyrphostin	Phosphorylation	Enzyme	Inhibitor	EGFR			Levitski, A., and Gilon, C.,Trends Pharmacol. Sci. 12, 171 (1991)
15	C10	T 6050	56776-01-3	264.20	Tulobuterol hydrochloride		Adrenoceptor		Agonist	beta			Terpstra, G.K., and Raaijmakers, J.A.,b-agonistic properties of tulobuterol, a newb-sympathomimetic drug, and its effects on pulmonaryb-adrenoceptor characteristics. Lung 168, 179-185 (1990)
15	C11	T 7040	2826-26-8	184.20	Tyrphostin 1	(4-Methoxybenzylidene)malononitrile	Phosphorylation	Enzyme	Inhibitor	EGFR			Nowak, F., et al., Biochem Pharmacol. 1997 Feb 7;53(3):287-98
15	D02	S 9066		371.91	SKF 89976A hydrochloride	1-(4,4-Diphenyl-3-butenyl)-3-piperidinecarboxylic acid hydrochloride	GABA		Inhibitor	GAT-1	Insoluble		Zuiderwijk, M. et al.,Eur. J. Pharmacol. 307, 275-282 (1996)
15	D03	S-106	105538-73-6	368.23	SR-95531	2-(3-Carboxypropyl)-3-amino-6-(4-methoxyphenyl)pyridazinium bromide	GABA		Antagonist	GABA-A	Yes	5.0 mg/ml	Wermuth, et al., Pyridazinyl-GABA derivatives: A new class of synthetic GABA-A antagonists. Trends Pharmacol. Sci. 7, 421 (1986)
15	D04	S-174	137196-67-9	337.25	SDZ-205,557 hydrochloride	4-Amino-5-chloro-2-methoxy-benzoic acid 2-(diethylamino)ethyl ester hydrochloride	Serotonin		Antagonist	5-HT4	Yes	65 mg/ml	Lorrain, et al., 5-HT4receptors present in piglet atria and sensitive to SDZ 205-557 are absent in papillary muscle Eur. J. Pharmacol. 229, 105 (1992)
15	D05	T 0891	64-77-7	270.35	Tolbutamide		Hormone		Releaser	Insulin			Jones, B.C., et al.,Drug Metab. Dispos. 24, 260-266 (1996)
15	D06	T 1698		288.50	Tetradecylthioacetic acid	TTA	Transcription		Agonist	PPAR-alpha			Raspe, E., et al., Modulation of rat liver apolipoprotein gene expression and serum lipid levels by tetradecylthioacetic acid (TTA) via PPARaactivation. Keratinocyte gene expression and differentiation by PPAR-selective ligands and tetradecylthioacetic acid. J. Lipid Res. 40, 2099 (1999)
15	D07	T 3146	521-78-8	410.52	Trimipramine maleate		Serotonin		Inhibitor	Reuptake			Langosch, et al., Effects of the atypical antidepressant trimipramine on field potentials in the low Mg2+-model in guinea pig hippocampal slices. Eur. Neuropsychopharmacol. 8, 209 (1998)
15	D08	T 4376	402-71-1	351.85	N-p-Tosyl-L-phenylalanine chloromethyl ketone	TPCK	Biochemistry	Enzyme	Inhibitor	Chymotrypsin alpha			Breithaupt, T.B., et al., The suppression of T cell function and NFkB expression by serine protease inhibitors is blocked by N-acetylcysteine Cell. Immunol. 173, 124-130 (1996)
15	D09	T 4818	133550-34-2	322.37	Tyrphostin AG 555	Tyrphostin B46	Phosphorylation	Enzyme	Inhibitor	EGFR			Gazit, A., et al.,J. Med. Chem. 34, 1896 (1991)
15	D10	T 6154	25332-39-2	408.33	Trazodone hydrochloride	2-[3-[4-(3-Chlorophenyl)-1-piperazinyl]propyl]-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one hydrochloride	Serotonin		Inhibitor	Reuptake	Insoluble		Marcoli, M., et al., Trazodone is a potent agonist at 5-HT2Creceptors mediating inhibition of the N-methyl-D-aspartate/nitric oxide/cyclic GMP pathway in rat cerebellum J. Pharmacol. Exp. Ther. 285, 983-986 (1998)
15	D11	T 7165	118409-57-7	186.17	Tyrphostin 23	3,4-(Dihydroxybenzylidene)malononitrile	Phosphorylation	Enzyme	Inhibitor	EGFR			Nowak, F., et al., Biochem Pharmacol. 1997 Feb 7;53(3):287-98
15	E02	S 9186		213.24	SIB 1757	6-Methyl-2-(phenylazo)-3-pyridinol	Glutamate		Antagonist	mGluR5			Varney, MA, et al., SIB-1757 and SIB-1893: selectivenoncompetitive antagonists of metabotropic glutamate receptor type 5 J. Pharmacol. Exp. Ther. 290, 170-181 (1999)
15	E03	S-143	71636-61-8	370.68	(±)-6-Chloro-PB hydrobromide	(±)-SKF-81297 hydrobromide	Dopamine		Agonist	D1	Yes	1.7 mg/ml	Andersen, et al., Dopamine receptor agonists: Selectivity and dopamine D1receptor efficacy. Eur. J. Pharmacol. 188, 335-347 (1990)
15	E04	S-180	158942-04-2	328.80	SB 206553 hydrochloride	N-3-Pyridinyl-3,5-dihydro-5-methyl-benzo[1,2-b:4,5-b']dipyrrole-1(2H)-carboxamide hydrochloride	Serotonin		Antagonist	5-HT2C/5-HT2B	Yes	30 mg/ml	Forbes, I.T., et al., Synthesis, biological activity and molecular modeling studies of selective 5-HT2C/2Breceptor antagonists. J. Med. Chem. 39, 4966 (1996)
15	E05	T 1132	97-77-8	296.54	Tetraethylthiuram disulfide	Disulfiram	Biochemistry	Enzyme	Inhibitor	Alcohol Dehydrogenase			Shukla, S., et al., Biochem Biophys Res Commun. 2004 Sep 17;322(2):520-5

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
15	E06	T 2057	78416-81-6	441.96	Trequinsin hydrochloride	HL 725	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III			Reid, IA., Role of phosphodiesterase isoenzymes in the control of renin secretion: effects of selective enzyme inhibitors Curr. Pharm. Des. 5, 725-735 (1999)
15	E07	T 3434	133550-30-8	294.31	Tyrphostin AG 490	2-propenamide	Phosphorylation	Enzyme	Inhibitor	JAK2	Insoluble		Abe, et al., Fyn and JAK2 mediate Ras activation by reactive oxygen species J. Biol. Chem. 274, 21003-21010 (1999)
15	E08	T 4425	69056-38-8	314.17	(6R)-5,6,7,8-Tetrahydro-L-biopterin hydrochloride		Neurotransmission	Enzyme	Cofactor	Tyrosine & tryptophan hydroxylase, NOS			Kwon, N.S., et al.,J. Biol. Chem. 264, 20498 (1989)
15	E09	T 5193		308.34	Tyrphostin AG 698	Tyrphostin B52	Phosphorylation	Enzyme	Inhibitor	EGFR			Gazit, A., et al.,J. Med. Chem. 34, 1896 (1991)
15	E10	T 6318		216.20	Tyrphostin AG 34	Tyrphostin A24	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase			Baldari, C. T. , Telford, J. L., Dissection of T cell antigen receptor signaling using protein tyrosine kinase inhibitors Eur. J. Immunol. 24, 1046 (1994)
15	E11	T 7188		284.73	TFPI hydrochloride	S-Ethyl N-(4-[Trifluoromethyl]phenyl)isothiourea	Nitric Oxide	Enzyme	Inhibitor	nNOS			Shearer, B.G., et al.,J. Med. Chem. 40, 1901 (1997)
15	F02	S 9311	7370-21-0	195.27	SIB 1893	(E)-2-Methyl-6-[2-phenylethenyl]pyridine	Glutamate		Antagonist	mGluR5			Varney, MA, et al.,J. Pharmacol. Exp. Ther. 290, 170-181 (1999)
15	F03	S-145	68643-23-2	248.22	SKF 91488 dihydrochloride	4-(N,N-Dimethylamino)butylisothiourea dihydrochloride	Histamine	Enzyme	Inhibitor	Histamine N-methyltransferase	Yes		Knigge, et al., Involvement of histamine in the mediation of the stress-induced release of alpha-melanocyte-stimulating hormone in male rats. Neuroendocrinology 54, 646 (1991)
15	F04	S-201		557.10	SB 224289 hydrochloride	1'-Methyl-5-([2'-methyl-4'-(5-methyl-1,2,4-oxadiazol-3-yl)biphenyl-4-yl] carbonyl)-2,3,6,7-tetrahydro-spiro(furo[2,3-f]indole-3,4'-piperidine)	Serotonin		Antagonist	5-HT1B	Insoluble		Gaster, L.M., et al., The selective 5-HT1B receptor inverse agonist 1'-methyl-5-[[2'-methyl-4'-(5-methyl-1,2,4-oxadiazol-3-yl)biphenyl-4-yl]carbonyl]-2,3,6,7-tetrahydro- spiro[furo[2,3-f]indole-3,4'-piperidine] (SB-224289) potently blocks terminal 5-HT autoreceptor function bothin vitroandin vivo. J. Med. Chem. 41, 1218 (1998)
15	F05	T 1443		402.07	TCPOBOP	1,4-Bis-[2-(3,5-dichloropyridyloxy)]benzene	Transcription		Agonist	CAR	Insoluble		Kende, A.S., et al. , Structure-activity relationship of bispyridyloxybenzene for induction of mouse hepatic aminopyrine N-demethylase activity. Chemical, biological, and X-ray crystallographic studies Mol. Pharmacol. 28, 445 (1985)
15	F06	T 2067	148741-30-4	316.47	Tyrphostin AG 879	alpha-cyano-(3,5-di-t-butyl-4-hydroxy)thiocinnamide	Phosphorylation	Enzyme	Inhibitor	TrkA			Ohmichi, M., et al., The tyrosine kinase inhibitor tyrphostin blocks the cellular actions of nerve growth factor. Biochemistry 32, 4650-4658 (1993)
15	F07	T 3757	71441-28-6	348.49	TTNPB	Arotinoid acid	Transcription		Ligand	RAR-alpha, beta, gamma			Sheikh, M.S., et al.,J. Biol. Chem. 269, 21440 (1994)
15	F08	T 4443	133550-32-0	308.34	Tyrphostin AG 527	Tyrphostin B44	Phosphorylation	Enzyme	Inhibitor	EGFR			Gazit, A., et al.,J. Med. Chem. 34, 196 (1991)
15	F09	T 5318		304.31	Tyrphostin AG 808	2-Cyano-3-(3',4'-dihydroxyphenyl)-1-(3''-indolyl)-3-oxo-1-propene	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase			Romer, L.H., et al., Mol Biol Cell. 1994 Mar;5(3):349-61
15	F10	T 6376	124-94-7	394.44	Triamcinolone	Fluoxyprednisolone	Hormone		Agonist	Glucocorticoid			Boden, S.D., et al., Differential effects and glucocorticoid potentiation of bone morphogenetic protein action during rat osteoblast differentiation in vitro. Endocrinology 137, 3401-3407 (1996)
15	F11	T 7254	4238-41-9	369.31	Na-p-Tosyl-L-lysine chloromethyl ketone hydrochloride	TLCK hydrochloride	Cyclic Nucleotides	Enzyme	Inhibitor	Adenylyl cyclase	Yes	50 mg/ml	Kwo, P., et al., Nuclear serine protease activity contributes to bile acid-induced apoptosis in hepatocytes. Am. J. Physiol. 268, G613-G621 (1995)
15	G02	S-003		248.76	1-(1-Naphthyl)piperazine hydrochloride		Serotonin		Antagonist	5-HT2	Yes		Fuller, R.W., et al., 1-(1-Naphthyl)piperazine, a central serotonin agonist. Res. Commun. Chem. Pathol. Pharmacol. 51, 37-45 (1986)
15	G03	S-149		1429.19	Suramin hexasodium		P2 Receptor		Antagonist	P2X, P2Y	Yes	>10 mg/ml	Bailey, S.J., and Hourani, S.M., Br J Pharmacol. 1994 May;112(1):219-25
15	G04	T 0254	73-22-3	204.23	L-Tryptophan	S(-)-1-alpha-Aminoindole-3-propionic acid	Serotonin		Precursor				Reader, T.A., et al.,Neurochem. Res. 24, 1125 (1999)
15	G05	T 1505	513-00-8	342.36	Tetraisopropyl pyrophosphoramide	iso-OMPA	Biochemistry	Enzyme	Inhibitor	Butyrylcholinesterase			Koelle, G.B., et al.,Biochem. Pharmacol. 23, 175 (1974)
15	G06	T 2265	56-34-8	165.71	Tetraethylammonium chloride		Cholinergic		Antagonist	Nicotinic			Raymond, V., Hyperpolarization-activated inward potassium and calcium-sensitive chloride currents in beating pacemaker insect neurosecretory cells (dorsal unpaired median neurons). Neuroscience 93, 1207 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
15	G07	L 3040		522.61	L-765,314	(2S)-4-(4-Amino-6,7-dimethoxy-2-quinazolinyl)-2-[[(1,1-Dimethylethyl)amino]carbonyl]-1-piperazinecarboxylic acid, phenylmethyl ester	Adrenoceptor		Antagonist	alpha-1B			Patane, M.A., et al., J Med Chem. 1998 Apr 9;41(8):1205-8
15	G08	T 4500	83-67-0	180.17	Theobromine	3,7-Dimethylxanthine	Adenosine		Antagonist	A1 > A2	Slighty Soluble		Shi, et al., Chronic effects of xanthines on levels of central receptors in mice Cell. Mol. Neurobiol. 19, 719-732 (1999)
15	G09	T 5515	19254-05-8	781.46	Thio-NADP sodium	Thionicotinamide adenine dinucleotide phosphate sodium	Intracellular Calcium		Blocker	NAADP-induced			Gupta, S., et al.,Biochim. Biophys. Acta 1409, 25 (1998)
15	G10	T 6394	29621-17-5	432.50	S(-)-Timolol maleate	(S)-1-[(1,1-Dimethylethyl) amino]-3-[[4-(4-morpholinyl)-1,2,5-thiadiazol-3-yl]oxy]-2-propanol maleate	Adrenoceptor		Antagonist	beta	Yes		Karhuvaara, S., et al.,b-adrenoceptor antagonist activities and binding affinities of timolol enantiomers in rat atria. J. Pharm. Pharmacol. 41, 649-650 (1989)
15	G11	T 7290	118409-58-8	202.17	Tyrphostin 25	(4,5-Trihydroxybenzylidene)malononitrile	Phosphorylation	Enzyme	Inhibitor	EGFR			Nowak, F., et al., Biochem Pharmacol. 1997 Feb 7;53(3):287-98
15	H02	S-006	83846-83-7	545.53	Ketanserin tartrate	R 41468	Serotonin		Antagonist	5-HT2			Van Nueten, J.M., Vascular effects of ketanserin (R41468) a novel antagonist of 5-HT2serotonergic receptors J. Pharmacol. Exp. Ther. 218, 217 (1981)
15	H03	S-153	17318-31-9	205.22	SQ 22536	9-(Tetrahydro-2-furanyl)-9H-purin-6-amine	Cyclic Nucleotides	Enzyme	Inhibitor	Adenylyl cyclase	Yes	21 mg/ml	Fabbri, et al., Inhibition of adenylate cyclase of catfish and rat hepatocyte membranes by 9-(tetraydro-2-furyl)adenine (SQ 22536). J. Enz. Inhib. 5, 87 (1991)
15	H04	T 0318	53902-12-8	327.34	Tranilast	SB-252218	Leukotriene	Enzyme	Inhibitor	LTC4	Insoluble		Capper, E.A., Modulation of human monocyte activities by Tranilast, SB 252218, a compound demonstrating efficacy in restenosis J. Pharmacol. Exp. Ther. 295, 1061 (2000)
15	H05	T 1512	5086-74-8	240.76	Tetramisole hydrochloride	(±)-2,3,5,6-Tetrahydro-6-phenylimidazo[2,1-b]thiazole hydrochloride	Phosphorylation	Enzyme	Inhibitor	Phosphatase			Van Belle, H.,Biochim. Biophys. Acta 289, 158 (1972)
15	H06	T 2408	1156-19-0	311.41	Tolazamide		Hormone		Releaser	Insulin			Delaey, C., Van de Voorde, J.,Eur. J. Pharmacol. 325, 41 (1997)
15	H07	T 4143	396-01-0	253.27	Triamterene		Na+ Channel		Blocker				Kato, A., Sands, J.M.,Am. J. Physiol. 276, F62 (1999)
15	H08	T 4512	24198-97-8	304.26	(±)-Taxifolin	Dihydroquercetin	Cell Stress		Inhibitor	Antioxidant			Haraguchi, H. , Protection against oxidative damage by dihydroflavonols in Engelhardtia chrysolepis. Biosci. Biotechnol. Biochem. 60, 945 (1996)
15	H09	T 5568	133550-37-5	308.34	Tyrphostin AG 835	Tyrphostin B50	Phosphorylation	Enzyme	Inhibitor	Tyrosine kinase			Gazit, A., et al.,J. Med. Chem. 34, 1896 (1991)
15	H10	T 6692		297.44	N,N,N-trimethyl-1-(4-trans-stilbenoxy)-2-propylammonium iodide	F3	Cholinergic		Antagonist	Nicotinic	Insoluble		Di Angelantonio, S., Antagonism of nicotinic receptors of rat chromaffin cells by N,N,N-trimethyl-l-(4-trans-stilbenoxy)-2-propylammonium iodide: a patch clamp and ligand binding study. Br. J. Pharmacol. 129, 1771 (2000)
15	H11	T 7313	25371-96-4	212.18	1-[2-(Trifluoromethyl)phenyl]imidazole	TRIM	Nitric Oxide	Enzyme	Inhibitor	NOS			Handy, R.L.C., et al.,Br. J. Pharmacol. 119, 423 (1996)
16	A02	T 7402	33069-624	853.93	Taxol	Paclitaxel	Cytoskeleton and ECM		Inhibitor	Tubulin			Parekh, H., and Simpkins, H., The transport and binding of taxol Gen. Pharmacol. 29, 167-172 (1997)
16	A03	T 7947	82248-59-7	255.36	Tomoxetine	(R)-N-methyl-gamma-(2-methylphenoxy)-benzenepropanamine	Adrenoceptor		Inhibitor	Reuptake			Hwang, et al.,Neurosci. Lett. 265, 151 (1999)
16	A04	T 9262	54965-24-1	563.65	Tamoxifen citrate	(Z)-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-N,N-dimethyl-ethanamine cirtrate (1:1)	Phosphorylation	Enzyme	Inhibitor	PKC			O'Brian, C.A., et al., Inhibition of protein kinase C by tamoxifen. Cancer Res. 45, 2462-2465 (1985)
16	A05	T-122	80880-90-6	443.40	Telenzepine dihydrochloride	4,9-Dihydro-3-methyl-4-[(4-methyl-1-piperazinyl)acetyl]-10H-thieno[3,4-b][1,5]benzodiazepin-10-one dihydrochloride	Cholinergic		Antagonist	M1	Yes	88 mg/ml	Bertaccini, et al., Control of gastric acid secretion by histamine H2receptor antagonists and anticholinergics. Pharmacol. Res. 21, 339-352 (1989)
16	A06	U 4125	21931-53-3	448.13	Uridine 5'-diphosphate sodium	UDP	P2 Receptor		Agonist	P2Y			Nicholas, R.A., et al., Mol Pharmacol. 1996 Aug;50(2):224-9

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
16	A07	U-103	96744-75-1	356.51	U-69593	(+)-(5alpha,7alpha,8beta)-N-Methyl-N-[7-(1-pyrrolidinyl)-1-oxaspiro[4.5]dec-8-yl]-benzeneacetamide	Opioid		Agonist	kappa	Insoluble		Nakagawa, T., et al., Sensitization of the adenylyl cyclase system in cloned kappa-opioid receptor-transfected cells following sustained agonist treatment: A chimeric study using G protein alpha(i)2/alpha(q) subunits Jpn. J. Pharmacol. 81, 353-361 (1999)
16	A08	U-116	153570-58-2	393.48	U-99194A maleate	5,6-Dimethoxy-2-(di-n-propylamino)indan maleate	Dopamine		Antagonist	D3	Yes	80 mg/ml	Waters, et al., The dopamine D3-receptor: A postsynaptic receptor inhibitory on rat locomotor activity J. Neural Trans. 94, 11-19 (1993)
16	A09	V 8879	2068-78-2	923.06	Vincristine sulfate	VCR	Cytoskeleton and ECM		Inhibitor	Tubulin	Yes	50 mg/ml	Mohammad, R.M., et al., Bryostatin 1 induces apoptosis and augments inhibitory effects of vincristine in human diffuse large cell lymphoma Leukemia Res. 19, 667-673 (1995)
16	A10	W-104	138091-43-7	438.58	WIN 62,577	17-beta-Hydroxy-17-alpha-ethynyl-delta-4-androstano(3,2-b)pyrimido(1,2-a)benzimidazole	Tachykinin		Antagonist	NK1			Venepalli, et al., Synthesis and substance P receptor binding activity of androstano[32-b]pyrimido[12-a]benzimidazoles J. Med. Chem. 35, 374 (1992)
16	A11	Y 3125	65-19-0	390.91	Yohimbine hydrochloride	17-Hydroxyyohimban-16-carboxylic acid methyl ester hydrochloride	Adrenoceptor		Antagonist	alpha2	Yes	10 mg/ml	Zhang, W., and Roomans, G.M., A yohimbine-dependent, UK14,304-induced ion transient in HT29 cells studied by X-ray microanalysis Scanning Microsc. 10, 293 (1996)
16	B02	T 7508	136-47-0	300.83	Tetracaine hydrochloride		Na+ Channel		Modulator				Reith, M.E., et al., Eur Pharmacol. 1987 Nov;143(2):171-8
16	B03	T 8067		620.07	T-0156	2-(2-Methylpyridin-4-yl)methyl-4-(3,4,5-trimethoxyphenyl)-8-(pyrimidin-2-yl)methoxy-1,2-dihydro-1-oxo-2,7-naphthyridine-3-carboxylic acid methyl ester hydrochloride	Cyclic Nucleotides	Enzyme	Inhibitor	PDE V	Insoluble		Mochida, H., et al., Eur J Pharmacol. 2004 Feb 6;485(1-3):283-8
16	B04	T 9652	50679-08-8	471.69	Terfenadine	alpha-(4-[1,1-Dimethylethyl]phenyl)-4-[hydroxydiphenylmethyl]-1-piperidinebutanol	Histamine		Antagonist	H1			Yun, C.H., et al.,Drug Metab. Dispos. 21, 403-409 (1993)
16	B05	T-123	148440-81-7	408.52	Thioperamide maleate	MR 12842	Histamine		Antagonist	H3	Yes	10 mg/ml	Arrang, J.M., et al., Highly potent and selective ligands for histamine H3-receptors. Nature 327, 117-123 (1987)
16	B06	U 5882	153190-29-5	726.92	U-74389G maleate	21-(4-[2,6-di-1-Pyrrolidinyl-4-pyrimidinyl]-1-piperazinyl)pregna-1,4,9[11]-triene-3,20-dione (Z)-2-butenedioate maleate	Cell Stress		Inhibitor				Shi, F., et al.,Free Radical Biol. Med. 19, 349 (1995)
16	B07	U-104	59803-98-4	292.14	UK 14,304	5-Bromo-N-(4,5-dihydro-1H-imidazol-2-yl)-6-quinoxalinamine	Adrenoceptor		Agonist	alpha2			Turner, J.T., et al.,a2-Adrenergic receptors in the human cell line, HT29. Characterization with the full agonist radioligand [3H]UK-14,304 and inhibition of adenylate cyclase. Mol. Pharmacol. 28, 422-430 (1985)
16	B08	U-120	109511-58-2	380.50	U0126	1,4-Diamino-2,3-dicyano-1,4-bis(o-aminophenylmercapto)butadiene	Phosphorylation	Enzyme	Inhibitor	MEK1/MEK2			Favata, M., et al., Identification of a novel inhibitor of mitogen-activated protein kinase. J. Biol. Chem. 273, 18623 (1998)
16	B09	V 9130	2444-46-4	293.41	N-Vanillylnonanamide	N-(4-Hydroxy-3-methoxybenzyl)nonanamide	Vanilloid		Ligand				Durant, P.A., Yaksh, T.L., Micturition in the unanesthetized rat: effects of intrathecal capsaicin, N-vanillylnonanamide, 6-dihydroxytryptamine and 5,6-dihydroxytryptamine. Brain Res. 451, 301 (1988)
16	B10	W-105	21416-43-3	199.17	S(-)-Willardiine	S(-)-alpha-Amino-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinepropanoic acid	Glutamate		Agonist	AMPA/kainate	Insoluble		Zorumski, C.F., et al., Effects of bromowillardiine and willardiine on non-N-methyl-D-aspartate receptors in postnatal rat hippocampal neurons. Mol. Pharmacol. 40, 45-51 (1991)
16	B11	Y-101	33978-72-2	395.93	YS-035 hydrochloride	N-[2-(3,4-Dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-benzeneethanamine hydrochloride	Ca2+ Channel		Blocker	L-type			

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
16	C02	T 7540	118409-60-2	220.25	Tyrphostin 47	RG 50864	Phosphorylation	Enzyme	Inhibitor	EGFR			Nowak, F., et al., Biochem Pharmacol. 1997 Feb 7;53(3):287-98
16	C03	T 8160		314.21	3-Tropanyl-3,5-dichlorobenzoate	MDL-72222	Serotonin		Antagonist	5-HT3			
16	C04	T 9778	1508-75-4	284.36	Tropicamide	Ro 1-7683	Cholinergic		Antagonist	M4	Insoluble		Lazartigues, et al., Spontaneously hypertensive rats cholinergic hyper-responsiveness: central and peripheral pharmacological mechanisms Br. J. Pharmacol. 127, 1657-1665 (1999)
16	C05	T-144	50-35-1	258.24	(±)-Thalidomide	(±)-2-(2,6-Dioxo-3-piperidinyl)-1H-isoindole-1,3(2H)-dione	Cytoskeleton and ECM		Inhibitor	TNFalpha	Insoluble		Makonkawkeyoon, et al., Thalidomide inhibits the replication of human immunodeficiency virus type 1. Proc. Natl. Acad. Sci. USA 90, 5974-5878 (1993)
16	C06	U 6007	122003-11-6	593.65	U-83836 dihydrochloride	(-)-2-([4-(2,6-Di-1-pyrrolidinyl-4-pyrimidinyl)-1-piperazinyl)methyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-ol dihydrochloride	Cell Stress		Inhibitor				Salahudeen, A., et al.,J. Amer. Soc. Nephrol. 6, 1300 (1995)
16	C07	U-105	87151-85-7	521.51	U-62066	Spiradoline mesylate	Opioid		Agonist	kappa	Yes	14 mg/ml	Piercey, M.F., Einspahr, F.J., Spinal analgesic actions of kappa receptor agonists U-50488H and spiradoline (U-62066) J. Pharmacol. Exp. Ther. 251, 267 (1989)
16	C08	V 1377	143-67-9	909.07	Vinblastine sulfate salt	VLB	Cytoskeleton and ECM		Inhibitor	Tubulin	Yes	10 mg/ml	Lobert, S., et al., Interaction of vinca alkaloids with tubulin: a comparison of vinblastine, vincristine, and vinorelbine Biochemistry 35, 6806-6814 (1996)
16	C09	V-100	120447-62-3	295.86	(±)-Vesamicol hydrochloride	AH-5183 hydrochloride	Cholinergic		Inhibitor	ACh storage			Bahr, et al., Demonstration of a receptor in Torpedo synaptic vesicles for the acetylcholine storage blocker L-trans-2-(4-phenyl-[24-3H]-piperidino)cyclohexanol. Proc. Natl. Acad. Sci. USA 83, 2267 (1986)
16	C10	W-108		538.65	WAY-100635 maleate	N-[2-[4-(2-Methoxyphenyl)-1-piperazinyl]ethyl]-N-2-pyridinyl-cyclohexanecarboxamide maleate	Serotonin		Antagonist	5-HT1A	Yes	25 mg/ml	Forster, E.A., A pharmacological profile of the selective silent 5-HT1Areceptor antagonist WAY-100635 Eur. J. Pharmacol. 281, 81 (1995)
16	C11	Y-102	170632-47-0	304.35	YC-1	3-(5'-Hydroxymethyl-2'-furyl)-1-benzyl indazole	Cyclic Nucleotides	Enzyme	Activator	Guanylyl cyclase	Insoluble		Ko, F, et al., YC-1, a novel activator of platelet guanylate cyclase. Blood 84, 4226-4233 (1994)
16	D02	T 7665	126433-07-6	268.23	Tyrphostin 51	2-Amino-1,1,3-tricyano-4-(3',4',5'-trihydroxyphenyl)butadiene	Phosphorylation	Enzyme	Inhibitor	EGFR			Nowak, F., et al., Biochem Pharmacol. 1997 Feb 7;53(3):287-98
16	D03	T 8516	440-17-5	480.43	Trifluoperazine dihydrochloride		Dopamine		Antagonist	D1/D2			Mach, R.L., et al., Ca2+-calmodulin antagonists interfere with xylanase formation and secretion inTrichoderma reesei Biochim. Biophys. Acta 1403, 281-289 (1998)
16	D04	T-101	64603-91-4	176.60	THIP hydrochloride	Gaboxadol hydrochloride	GABA		Agonist	GABA-A	Yes	20 mg/ml	Krogsgaard-Larsen, et al., 4,5,6,7-Tetrahydroisothiazolo[54-c]pyridin-3-ol and related analogues of THIP. Synthesis and biological activity. J. Med. Chem. 26, 895-900 (1983)
16	D05	T-165	37686-84-3	340.47	R(+)-Terguride	R(+)-N,N-Diethyl-N'[(8alpha)-6-methylergolin-8-yl]urea	Dopamine		Agonist		Insoluble		Akai, et al., Effects of terguride, a partial D2agonist, on MPTP-lesioned parkinsonian cynomolgus monkeys. Ann. Neurol. 33, 507 (1993)
16	D06	U 6756	112648-68-7	464.65	U-73122	1-[6-[[(17beta)-3-Methoxyestra-1,3,5(10)-trien-17-yl]amino]hexyl]-1H-pyrrole-2,5-dione	Lipid	Enzyme	Inhibitor	PLC, A2			Bleasdale, et al., Selective inhibition of receptor-coupled phospholipase C-dependent processes in human platelets and polymorphonuclear neutrophils. J. Pharmacol. Exp. Ther. 255, 756 (1990)
16	D07	U-108	127126-21-0	301.84	S(-)-UH-301 hydrochloride	S(-)-5-Fluoro-8-hydroxy-DPAT hydrochloride	Serotonin		Antagonist	5-HT1A	Slighty Soluble		Björk, L., et al., Pharmacology of the novel 5-hydroxytryptamine 1A receptor antagonist (S)-5-fluoro-8-hydroxy-2-(dipropylamino)tetralin: Inhibitor of (R)-8-Hydroxy-2-(dipropylamino)tetralin-induced effects J. Pharmacol. Exp. Ther. 258, 58 (1991)
16	D08	V 4629	152-11-4	491.08	(±)-Verapamil hydrochloride		Ca2+ Channel		Modulator	L-type	Yes	50 mg/ml	Fleckenstein, A., Specific pharmacology of calcium in myocardium, cardiac pacemakers, and vascular smooth muscle. Annu. Rev. Pharmacol. 17, 149 (1977)
16	D09	X 3628		366.74	XK469	2-(4-((7-Chloro-2-quinoxalinyl)oxy)phenoxy)propionic acid	Apoptosis	Enzyme	Inhibitor	TopoII beta			Gao, H., et al., XK469, a selective topoisomerase IIbpoison. Proc. Natl. Acad. Sci. USA 96, 12168-12173 (1999)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
16	D10	W-110		325.06	S-5-Iodowillardiine	(S)-alpha-Amino-3,4-dihydro-5-iodo-2,4-dioxo-1(2H)-pyrimidinepropanoic acid	Glutamate		Agonist	AMPA	Yes	0.4 mg/ml	Wong, L.A., et al., Willardiines differentiate agonist binding sites for kainate versus AMPA-preferring glutamate receptors in DRG and hippocampal neurons. J. Neurosci. 14, 3881 (1994)
16	D11	Z 0878	37762-06-4	271.28	Zaprinast	1,4-Dihydro-5-(2-propoxyphenyl)-7H-1,2,3-triazolo[4,5-d]pyrimidin-7-one	Cyclic Nucleotides	Enzyme	Inhibitor	PDE V	Insoluble		Santschi, L., et al., Chemically induced, activity-independent LTD elicited by simultaneous activation of PKG and inhibition of PKA. J. Neurophysiol. 82, 1577-1589 (1999)
16	E02	T 7692	212500-03-3	665.68	T-1032	Methyl (2-(4-aminophenyl)-1,2-dihydro-1-oxo-7-(2-pyridinylmethoxy)-4-(3,4,5-trimethoxyphenyl)-3-isoquinoline carboxylate sulfate	Cyclic Nucleotides	Enzyme	Inhibitor	PDE V	Insoluble		Noto, T., et al., Potentiation of penile tumescence by T-1032 a new potent and specific phosphodiesterase type V inhibitor in dogs. J. Pharmacol. Exp. Ther. 294, 870 (2000)
16	E03	T 8543	83373-60-8	266.47	D-609 potassium	Carbonodithioic acid, O-(octahydro-4,7-methano-1H-inden-5-yl) ester potassium	Lipid	Enzyme	Inhibitor	PIPLC	Yes	300 mg/ml	Mellert, W., et al., Inhibition of HIV-1 replication by an antiviral xanthate compoundin vitro. AIDS Res. Hum. Retroviruses 4, 71 (1988)
16	E04	T-103	2062-77-3	445.89	Trifluperidol hydrochloride	R 2498 hydrochloride; Triperidol hydrochloride	Dopamine		Antagonist	D1/D2	Yes		
16	E05	T-173		191.25	Thiocitrulline	N5-(Aminothioxomethyl)-L-ornithine	Nitric Oxide	Enzyme	Inhibitor	nNOS, eNOS			
16	E06	S 5317	104076-39-3	613.69	SKF 95282 dimaleate	N-[3-[3-(1-Piperidinylmethyl)phenoxy]propyl]-2-benzothiazolamine dimaleate; Zolantidine	Histamine		Antagonist	H2	Yes	12 mg/ml	Zawilska, J.B., et al.,J. Neurochem. 81, 935-946 (2002)
16	E07	U-109	127126-18-5	301.84	R(+)-UH-301 hydrochloride	R(+)-5-Fluoro-8-hydroxy-DPAT hydrochloride	Serotonin		Agonist	5-HT1A	Slighty Soluble		Minabe, et al., Effects produced by acute and chronic treatment with granisetron alone or in combination with haloperidol on midbrain dopamine neurons. Eur. Neuropsychopharmacol. 2, 127 (1992)
16	E08	V 5888		371.40	VUF 5574	N-(2-methoxyphenyl)-N'-[2-(3-pyridinyl)-4-quinazolinyl]-urea	Adenosine		Antagonist	A3	Insoluble		van Muijlwijk-Koezen,J. Med. Chem. 43, 2227 (2000)
16	E09	W 1628	19545-26-7	428.44	Wortmannin from Penicillium funiculosum		Phosphorylation	Enzyme	Inhibitor	PI3K			Nakanishi, S., Wortmann a microbial product inhibitor of myosin light chain kinase. J. Biol. Chem. 267, 2157 (1992)
16	E10	X 1251	23076-35-9	256.80	Xylazine hydrochloride	N-(2,6-Dimethylphenyl)-5,6-dihydro-4H-1,3-thiazin-2-amine hydrochloride	Adrenoceptor		Agonist	alpha2			Cabral, A.D., et al., Centrala2-receptor mechanisms contribute to enhanced renal responses during ketamine-xylazine anesthesia. Am. J. Physiol. 275, R1867-R1874 (1998)
16	E11	Z 2001		234.21	Zonisamide sodium	1,2-Benzisoxazole-3-methanesulfonamide	Anticonvulsant				Slighty Soluble		Noda, Y., et al., Zonisamide inhibits nitric oxide synthase activity induced by N-methyl-D-aspartate and buthionine sulfoximine in the rat hippocampus. Res. Commun. Mol. Pathol. Pharmacol. 105, 23 (1999)
16	F02	T 7697		437.19	I-OMe-Tyrphostin AG 538	alpha-Cyano-(3-methoxy-4-hydroxy-5-iodocinnamoyl)-(3',4'-dihydroxyphenyl)ketone	Phosphorylation	Enzyme	Inhibitor	IGF-1 RTK			Blum, G., et al., Substrate competitive inhibitors of IGF-1 receptor kinase. Biochemistry 39, 15705 (2000)
16	F03	T 9025	130-61-0	407.04	Thioridazine hydrochloride		Dopamine		Antagonist	D1/D2			Ashkenazy-Shahar, et al., Effects of Ca(2+)-ionophore A23187 and calmodulin antagonists on regulatory mechanisms of glycolysis and cell viability of NIH-3T3 fibroblasts. Mol. Genet. Metab. 67, 334-342 (1999)
16	F04	T-104	89565-68-4	320.82	3-Tropanyl-indole-3-carboxylate hydrochloride	ICS-205,930; Navoban; Tropisetron	Serotonin		Antagonist	5-HT3	Yes	3.1 mg/ml	Yoshida, et al., Effects of 5-hydroxytryptamine 3 receptor antagonists on gastrointestinal motor activity in conscious dogs. J. Pharmacol. Exp. Ther. 256, 272 (1991)
16	F05	T-182	10537-47-0	282.39	Tyrphostin A9	[[3,5-bis(1,1-Dimethylethyl)-4-hydroxyphenyl]methylene]-propanedinitrile	Phosphorylation	Enzyme	Inhibitor	PDGFR	Insoluble		Levitzki, A., Gilon, C, Tyrphostins as molecular tools and potential antiproliferative drugs Trends Pharmacol. Sci. 12, 171-174 (1991)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
16	F06	U 7500	104-98-3	138.13	4-Imidazoleacrylic acid	Urocanic acid	Histamine	Enzyme	Inhibitor	Histidine ammonia-lyase/ decarboxylase			Scott, I.R., Biochem J. 1981 Mar 15;194(3):829-38
16	F07	U-110	107902-84-1	405.80	(+)-trans-(1R,2R)-U-50488 hydrochloride	trans-(1R,2R)-3,4-Dichloro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-benzeneacetamide hydrochloride	Opioid		Agonist	kappa	Yes	11 mg/ml	McFazdean,kopioid receptor activation depresses excitatory synaptic input to rat locus ceruleus neurons in vitro. Neuroscience 20, 231 (1987)
16	F08	V 6383	42971-09-5	350.46	Vinpocetine	Eburnamenine-14-carboxylic acid ethyl ester; (3alpha, 16alpha)-Eburnamenine-14-carboxylic acid ethyl ester	Cyclic Nucleotides	Enzyme	Inhibitor	PDE I	Insoluble		Han, et al., The calcium/calmodulin-dependent phosphodiesterase PDE1C down-regulates glucose-induced insulin secretion. J. Biol. Chem. 274, 22337-22344 (1999)
16	F09	W 4262	180001-34-7	250.17	1400W dihydrochloride		Nitric Oxide	Enzyme	Inhibitor	iNOS			Garvey, E.P., et al.,J. Biol. Chem. 272, 4959 (1997)
16	F10	X 3253		794.86	Xamoterol hemifumarate	ICI 118587; (+/-)-N-[2-[[Hydroxy-3-(4-hydroxy)propyl]amino]ethyl-4-morpholinecarboxamide hemifumarate	Adrenoceptor		Agonist	beta1	Yes	10 mg/ml @ 60°C	Wabana, H. et al.,J. Pharmacol. Exp. Ther. 289, 48-53 (1999)
16	F11	Z 3003	101975-10-4	268.22	Zardaverine	6-(4-Difluoromethoxy-3-methoxyphenyl)-3(2H)-pyridazinone	Cyclic Nucleotides	Enzyme	Inhibitor	PDE III/ PDE IV			Underwood, D.C., et al.,J. Pharmacol. Exp. Ther. 270, 250 (1994)
16	G02	T 7822	133550-18-2	297.27	Tyrphostin AG 538	(alphaE)-alpha-[(3,4-Dihydroxyphenyl)methylene]-3,4-dihydroxy-beta-oxo-benzenepropanenitrile	Phosphorylation	Enzyme	Inhibitor	IGF-1 RTK			Blum, G., et al., Substrate competitive inhibitors of IGF-1 receptor kinase. Biochemistry 39, 15705 (2000)
16	G03	T 9033	67526-95-8	650.77	Thapsigargin		Intracellular Calcium	Enzyme	Releaser				Treiman, M., et al., A tool coming of age: thapsigargin as an inhibitor of sarco-endoplasmic reticulum Ca2+-ATPases. Trends Pharmacol. Sci. 19, 131-135 (1998)
16	G04	T-112	41094-88-6	304.40	Tracazolate	4-(Butylamino)-1-ethyl-6-methyl-1H-pyrazolo [3,4-b]pyridine-5-carboxylic acid ethyl ester	GABA		Modulator		Slighty Soluble		Patel, et al., Pharmacological properties of tracazolate: A new non-benzodiazepine anxiolytic agent Eur. J. Pharmacol. 78, 323 (1982)
16	G05	T-200		161.14	TPMPA	(1,2,5,6-Tetrahydropyridine-4-yl)methylphosphinic acid	GABA		Antagonist	GABA-C	Yes	16 mg/ml	Murata, Y., et al., The first selective antagonist for a GABACreceptor. Bioorg. Med. Chem. Lett. 6, 2073-2076 (1996)
16	G06	U-100	64887-14-5	423.95	Urapidil hydrochloride	6[[3-[4-(o-Methoxyphenyl)-1-piperazinyl]propyl]amino]-1,3-dimethyluracil hydrochloride	Adrenoceptor		Antagonist	alpha1	Yes		Sanders, K.H., et al., Interaction of urapidil with brain serotonin-1A receptors increases the blood pressure reduction due to peripherala-adrenoceptor inhibition. J. Hypertens. (Suppl.) 6, S65-S68 (1988)
16	G07	U-111	133162-85-3	405.80	(-)-trans-(1S,2S)-U-50488 hydrochloride	trans-(1S,2S)-3,4-Dichloro-N-methyl-N-(2-[1-pyrollidinyl]cyclohexyl)benzenea cetamide hydrochloride	Opioid		Agonist	kappa	Yes	13 mg/ml	Taub, et al., Immunomodulatory activity ofμ- andk-selective opioid agonist Proc. Natl. Acad. Sci. USA 88, 360 (1991)
16	G08	V 8138	1404-93-9	1485.75	Vancomycin hydrochloride from Streptomyces orientalis	Cancocin hydrochloride	Antibiotic			Cell wall synthesis			
16	G09	W 4761		808.66	WB 64	N,N'-Tetramethyl-bis[(1,8-naphthylimid-9-yl)propyl-N,N'-hexane-1,6-diyl-bis-ammonium bromide	Cholinergic		Ligand	M2	Yes	32 mg/ml with heating	Holzgrabe, U., Ligands for the common allosteric site of acetylcholine M2-receptors: development and application. Pharm. Acta Helv. 74, 149 (2000)
16	G10	X 6000	1218-35-5	280.84	Xylometazoline hydrochloride	2-(4-tert-Butyl-2,6-dimethylbenzyl)-2-imidazoline hydrochloride	Adrenoceptor		Agonist	alpha			Bognar, I.T., et al.,a-adrenoceptor mediated facilitation of acetylcholine release in the rat perfused heart J. Pharmacol. Exp. Ther. 254, 702 (1990)
16	G11	Z 4900	43200-80-2	388.82	Zopiclone	Imovane	Benzodiazepine		Agonist		Insoluble		Gottesmann, C., et al.,Eur. J. Neurosci. 10, 409 (1998)
16	H02	T 7883	738-70-5	290.32	Trimethoprim		Antibiotic	Enzyme	Inhibitor	Dihydrofolate reductase			Schweitzer, B.I., Dihydrofolate reductase as a therapeutic target. FASEB J. 4, 2441 (1990)
16	H03	T 9177	118409-62-4	215.17	Tyrphostin AG 126	(3-Hydroxy-4-nitrobenzylidene)malononitrile	Phosphorylation	Enzyme	Inhibitor	TNFalpha			Novogrodsky, A., et al.,Science 264, 1319 (1994)

Rack No.	Rack Position	CATNUM	CAS number	Mol. Weight Structure	Name	Secondary Name	Class	Enzyme	Action	Selectivity	Solubility in Water	Solubility in DMSO	Reference
16	H04	T-113	89565-68-4	426.30	3-Tropanylindole-3-carboxylate methiodide		Serotonin		Antagonist	5-HT3	Yes		Watling, K.J., et al., [3H]Quarternized ICS 205-930 labels 5-HT receptor binding sites in rat brain Eur. J. Pharmacol. 149, 397-398 (1988)
16	H05	U 1508	119477-85-9	361.53	U-75302	6-[6-(3-Hydroxy-1E,5Z-undecadienyl)-2-pyridinyl]-1,5-hexanediol	Leukotriene	Enzyme	Agonist	BLT1			Wang, S., et al., A novel hepatointestinal leukotriene B4 receptor. Cloning and functional characterization. J. Biol. Chem. 275, 40686-40694 (2000)
16	H06	U-101	34661-85-3	401.51	Urapidil, 5-Methyl-	5-Methyl-6[[3-[4-(o-Methoxyphenyl)-1-piperazinyl]propyl]amino]-1,3-dimethyluracil	Adrenoceptor		Antagonist	alpha1A	Yes	0.4 mg/ml	Gross, G., et al., 5-Methyl-urapidil discriminates between subtypes of thea1-adrenoceptor Eur. J. Pharmacol. 151, 333-335 (1988)
16	H07	U-115		455.56	U-101958 maleate	1-Benzyl-4-aminomethyl-N-[(3'-isopropoxy)-2'-pyridinyl]piperidine maleate	Dopamine		Antagonist	D4	Yes	3.0 mg/ml	Schlachter, S.K., Substituted aminopiperidines as selective and potent D4-dopamine receptor antagonists Soc. Neurosci. Abstr. 21, 253 (1995)
16	H08	V 8261	60643-86-9	129.16	(±)-gamma-Vinyl GABA	Vigabatrin	GABA	Enzyme	Inhibitor	Transaminase			Fisher, R.S.,Brain Res. Rev. 14, 245 (1989)
16	H09	W-102	131543-23-2	522.63	(R)-(+)-WIN 55,212-2 mesylate	(R)-(+)-[2,3-Dihydro-5-methyl-3[(morpholinyl)methyl]pyrrolo[1,2,3-de]-1,4-benzoxazinyl]-(1-naphthalenyl)methanone mesylate	Cannabinoid		Agonist		Insoluble		Richter, et al., (+)-WIN 55,212-2, a novel cannabinoid receptor agonist exerts antidystonic effects in mutant dystonic hamsters Eur. J. Pharmacol. 264, 371-377 (1994)
16	H10	X-103		428.50	Xanthine amine congener	8-[4-[[[[(2-Aminoethyl)amino]carbonyl]methyl]oxy]phenyl]-1,3-dipropylxanthine	Adenosine		Antagonist	A1			Morgan, P.F., et al., Life Sci. 1989;45(8):719-28
16	H11	Z-101	61129-30-4	390.15	Zimelidine dihydrochloride	(Z)-3-(4-Bromophenyl)-N,N-dimethyl-3-(3-pyridinyl)-2-propen-1-amine dihydrochloride	Serotonin		Inhibitor	Reuptake	Yes	66 mg/ml	Fuller, R.W., Serotonin uptake inhibitors: uses in clinical therapy and in laboratory research. Prog. Drug. Res. 45, 167-204 (1995)