

Activator Inhibitor No effect	Verified with over compounds*	EC50	Class/Function of compounds
	Compounds *#E		
<b>INSULIN SENSITIZERS</b>			
A Pioglitazone Hydrochloride	Y	0.6 $\mu$ M	thiazolidinedione
A Ciglitazone	Y	-	thiazolidinedione
A Rosiglitazone	Y	-	thiazolidinedione
A Rosiglitazone Maleate	Y	10 $\mu$ M	acyl/alkyl hydrogenase inhibitor
A Disulfiram (Thiamer)			
<b>DIS-INHIBITORS</b>			
A Strolomycin (Rapamycin)	Y	0.16 nM	immunosuppressant; mTORC1 inhibitor
No Cyclosporin A, FK506	Y	-	immunosuppressant; not active against mTORC1
<b>BETA-ADRENERGIC agonists and inverse agonists/antagonists</b>			
A Isoproterenol Hydrochloride	Y	14 nM	beta adrenergic receptor agonist
A Metaproterenol	Y	4.5 $\mu$ M	beta adrenergic receptor agonist
A Clenbuterol Hydrochloride	-	-	beta adrenergic receptor agonist
A Dobutamine Hydrochloride	-	-	beta adrenergic receptor agonist
A Isoetharine Mesylate Salt	-	-	beta adrenergic receptor agonist
A Isoproterenol Hydrochloride	-	-	beta adrenergic receptor agonist
A Levobutorexol Hydrochloride	-	-	beta adrenergic receptor agonist
A Levodrenerine	-	-	beta adrenergic receptor agonist
A Terbutaline Hemisulfate	Y	-	beta adrenergic receptor agonist
A Tubocurarine	-	-	beta adrenergic receptor agonist
I Propranolol hydrochloride	Y	8 $\mu$ M	beta adrenergic antagonist/inverse agonist
I (S)-propranolol hydrochloride	-	-	beta adrenergic antagonist/inverse agonist
I (R)-propranolol hydrochloride	-	-	beta adrenergic antagonist/inverse agonist
A Epinephrine	Y	6.5 $\mu$ M	beta adrenergic receptor agonist
A Forskolin	-	1.8 $\mu$ M	activates adenylyl cyclase; increases cAMP and cGMP
<b>ADENOSINE RECEPTOR- agonists and inverse agonists/antagonists</b>			
A Caffeine	Y	0.2 $\mu$ M	urine analog; adenosine receptor agonist
I CGS 19843	-	-	adenosine receptor agonist/inverse agonist
I N6-methyladenosine	-	-	naturally occurring adenosine analog
I Isomethylbutylxanthine (IBMX)	Y	0.5 mM	adenosine receptor antagonist/inverse agonist; PDE inhibitor (IC50 2-50 $\mu$ M)
<b>CORTICOSTEROIDS</b>			
A Dexamethasone Phosphate	Y	2.5 nM	Steroid
A Fluorometholone	Y	-	Steroid
A Flurandrenolide	Y	-	Steroid
A 11 $\alpha$ -Acetyl Progesterone	-	-	Steroid
A 19-Nortestosterone	-	-	Steroid
A Desoxycorticosterone	-	-	Steroid
A Hydrocortisone	-	-	Steroid
A Halcinonide	-	-	Steroid
A Methylprednisolone	-	-	Steroid
A Methylprednisolone Acetate	-	-	Steroid
A Prednisolone	-	-	Steroid
A Prednisone	-	-	Steroid
A Triamcinolone Acetonide	-	-	Steroid
A Dexamethasone	Y	9 nM	
<b>ANDROGENIC STEROIDS</b>			
A Testosterone Propionate	-	-	androgen receptor agonist; steroid
A Flutamide	-	-	androgen receptor antagonist; non-steroid
<b>CARDIOTONIC STEROIDS</b>			
A Proscillidin A	Y	-	Na <sup>+</sup> K <sup>+</sup> -ATPase inhibitor
A Medrysone	Y	-	Na <sup>+</sup> K <sup>+</sup> -ATPase inhibitor
A Strophantidin	-	-	Na <sup>+</sup> K <sup>+</sup> -ATPase inhibitor
A Queanan	Y	13 $\mu$ M	Na <sup>+</sup> K <sup>+</sup> -ATPase inhibitor
<b>ANTI-BIOTICS</b>			
I Proguanil hydrochloride	Y	13 $\mu$ M	anti-biotic (anti-malarial)
I Niclosamide	-	-	anti-biotic (anti-nematode)
I Amsacrine	-	-	anti-biotic (anti-neoplastic)
I Homoharringtonine	-	-	anti-biotic (anti-neoplastic); phytochemical; medicinal herb, active compound
I Cyclobenzaprine chloride	-	-	anti-biotic/antimicrobial
<b>PROTEIN SYNTHESIS INHIBITORS</b>			
I Puromycin ethylpenicilate	Y	6.3 $\mu$ M	protein synthesis inhibitor
I Lycine hydrochloride	-	-	protein synthesis inhibitor (putative inhibitor of Akt phosphorylation)
I Cycloheximide	-	-	protein synthesis inhibitor
I Anisomycin	-	-	protein synthesis inhibitor
I Cyclohexane	-	-	protein synthesis inhibitor
I Eristeine	-	-	protein synthesis inhibitor
I Promethazine hydrochloride	-	-	antihistamine; phenothiazine; antagonist-H1
I Azelaistene hydrochloride	-	-	antihistamine; phenothiazine; antagonist-H1
I Promethazine hydrochloride	-	-	antihistamine; phenothiazine; antagonist-H1
I Thioridazine hydrochloride	-	-	antipsychotic; phenothiazine; antagonist-D2
I Bromperidol	-	-	antipsychotic; phenothiazine; antagonist-D2
A Methylperine Hydrochloride	-	-	antipsychotic; butyrophenone; antagonist-D2, o1, 5HT2
A (R)-SC-23249 Hydrochloride	-	-	antipsychotic; haloperidol; antagonist-D1
I Quinpirole hydrochloride	-	-	agonist-D2
I Naphazoline hydrochloride	-	-	indirect agonist-o1
I Rimazazole dihydrochloride	-	-	dopamine receptor inhibitor; antagonist-o1
I Isoreserpine	-	-	vesicular monoamine transporter inhibitor
I Dulcamaine hydrochloride	-	-	local anesthetic; quinoline; sodium channel inhibitor
I Leucameline hydrochloride	-	-	leucameline; muscarinic receptor; $\mu$ opioid receptor
I Chloroquine	Y	50 $\mu$ M	lysozymotropic amine
I Ammonium Chloride	Y	5 mM	lysozymotropic amine
<b>PHTOCHEMICALS: supplements and active compounds from medicinal herbs</b>			
I Parthenolide	Y	-	antidepressant; phenylpyridine; serotonin reuptake inhibitor
I Matrophenol	Y	32 $\mu$ M	tetra cyclic antidepressant; NE reuptake inh.; antagonist-H1, o1, 5HT2
I Daven浦ine Hydrochloride	-	-	TCA, dibenzepine; NE reuptake inhibitor; antagonist-H1, o1, 5HT2
I Imipramine Hydrochloride	-	-	TCA, dibenzepine; NE reuptake inhibitor; antagonist-H1, o1, 5HT2
I Norcyclobenzaprine	-	-	TCA, dibenzepine; NE reuptake inhibitor; antagonist-H1, o1, 5HT2
I Proriptiline hydrochloride	-	-	TCA, dibenzepine; NE reuptake inhibitor; antagonist-H1, o1, 5HT2
I Norprimitiline hydrochloride	-	-	TCA, dibenzepine; NE reuptake inhibitor; antagonist-H1, o1, 5HT2
I Homocysteine	-	-	antidepressant; phenothiazine; antagonist-H1
I Azelaistene hydrochloride	-	-	antihistamine; phenothiazine; antagonist-H1
I Promethazine hydrochloride	-	-	antihistamine; phenothiazine; antagonist-H1
I Thioridazine hydrochloride	-	-	antipsychotic; phenothiazine; antagonist-D2
I Bromperidol	-	-	antipsychotic; phenothiazine; antagonist-D2
A Methylperine Hydrochloride	-	-	antipsychotic; butyrophenone; antagonist-D2, o1, 5HT2
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I Leucameline hydrochloride	-	-	leucameline; muscarinic receptor; $\mu$ opioid receptor
I Chloroquine	Y	50 $\mu$ M	lysozymotropic amine
I Ammonium Chloride	Y	5 mM	lysozymotropic amine
<b>FLAVONOIDS</b>			
A Grape Seed Proanthocyanidin Extract	-	100 $\mu$ g/ml	phytochemical; polyphenols; supplement
No Catechins and galactochitans	-	-	phytochemicals; polyphenols; supplements
LY294002 (LY)	Y	15 $\mu$ M	PI3Kase inhibitor; ectosomes inhibitor
A Akt	-	-	AKT inhibitor
<b>FLAVONOIDS</b>			
A Icaritin-8-O- <i>beta</i> -D-glucopyranosyl-3,7-O-Myricetin-3',4',5',7'-Hexahydroxyflavone	Y	-	phytochemical; supplement
A Kaempferol-3,4',5,7-Tetra-O- <i>beta</i> -D-glucopyranosyl-3',4',5',7'-Hexahydroxyflavone	Y	-	phytochemical; supplement
A Quercetin-3,3',4',5,7-Penta-O- <i>beta</i> -D-glucopyranosyl-3',4',5',7'-Hexahydroxyflavone	-	-	phytochemical; supplement
A Apigenin-4',5,7-Trihydroxyflavone	-	-	phytochemical; supplement
A Genistein; 4',5,7-Trihydroxyflavone	-	-	phytochemical; supplement
A Oxyresacetophenone	-	-	phytochemical; supplement
I Chalcone-5,7-Dihydroxyflavone	-	-	phytochemical; supplement
I Luteolin-4'-methylether; 5',5'-Bis(4',7-dihydroxy-2',7-dihydroxyflavone)	-	-	phytochemical; supplement
I Luteolin-4'-methylether; 5',5'-Bis(4',7-dihydroxy-2',7-dihydroxyflavone)	-	-	phytochemical; supplement
I Morin; 2',3,4',5,7-Penta-hydroxyflavone	-	-	phytochemical; supplement
I 3,4-Dihydroxyflavone	-	-	phytochemical
I 6,4-Dihydroxyflavone	-	-	phytochemical
I 7,4-Dihydroxyflavone	-	-	phytochemical
<b>OTHER</b>			
A 8-Azaguanine	Y	12.5 $\mu$ M	urine analog
A Eselen	Y	7.5 $\mu$ M	organoselenium
A Idebenone	Y	15 $\mu$ M	1,4-benzodioxine; synthetic derivative of CoQ10
A Lipoic acid (Hematoxylin acid)	Y	-	polymer product of creatine phosphate
A Racemicatril	Y	-	enkephalinase inhibitor (anti-diarrheal)
A Piroxicam	Y	-	NSAID (prevents synthesis of prostaglandin)
A Latamoxest	-	-	NSAID (prostaglandin analog)
A Meloxicam Hydrochloride	-	-	fluoropyrimidine
A Pirimicid Acid	-	-	cinnoline
A Anastrozole	-	-	aromatase inhibitor
A Cysteamine Hydrochloride	-	-	cysteine and amine
A Diflunisal/cyclopropene	-	-	analgesic
I Oxytremine	-	-	phytochemical; quinone, irritant
I Crinamine	-	-	phytochemical; poison
I Benzalkonium chloride	-	-	cationic surfactant

\* compounds in bold screened positive and were verified by triplicate retesting using compounds from the libraries.