

SwissTargetPrediction

Target	Common name	Uniprot ID	ChEMBL ID	Target Class	Probability*	Known actives (3D/2D)
Aldose reductase	Akr1b1	P07943	CHEMBL2622	Voltage-gated ion channel	1.0	28 / 24
Aldose reductase-related protein 1 (by homology)	Akr1b7	Q5RJP0	CHEMBL3421523	Enzyme	1.0	2 / 18
Acidic alpha-glucosidase	Gaa	Q6P7A9	CHEMBL3513	Enzyme	0.130706652821	2 / 2
Amyloid beta A4 protein (by homology)	App	P08592	CHEMBL3638365	Secreted protein	0.113979814646	1 / 16
Liver glycogen phosphorylase (by homology)	Pygl	P09811	CHEMBL3239	Enzyme	0.0972399887602	12 / 1
Carbonic anhydrase II (by homology)	Ca2	P27139	CHEMBL4706	Transferase	0.0972399887602	59 / 24
Endothelin receptor ET-A	Ednra	P26684	CHEMBL4566	Enzyme	0.0972399887602	0 / 1
Arachidonate 12-lipoxygenase	Alox15	Q02759	CHEMBL2741	Protease	0.0	0 / 9
Arachidonate 5-lipoxygenase	Alox5	P12527	CHEMBL312	Transferase	0.0	0 / 9
Arachidonate 15-lipoxygenase, type II	Alox15b	Q8K4F2	CHEMBL3289	Family A G protein-coupled receptor	0.0	0 / 8
Glutamate carboxypeptidase II	Folh1	P70627	CHEMBL5098	Enzyme	0.0	10 / 0
DNA polymerase beta	Polb	P06766	CHEMBL4343	Protease	0.0	3 / 4
Dual specificity tyrosine-phosphorylation-regulated kinase 1A (by homology)	Dyrk1a	Q63470	CHEMBL5508	Electrochemical transporter	0.0	0 / 8
Neuropilin-1 (by homology)	Nrp1	Q9QWJ9	CHEMBL3309098	Phosphodiesterase	0.0	1 / 0
Angiotensin-converting enzyme	Ace	P47820	CHEMBL2625	Ligand-gated ion channel	0.0	12 / 0
Alpha-L-fucosidase I (by homology)	Fuca1	P17164	CHEMBL2710	Enzyme	0.0	1 / 0
Poly(ADP-ribose) glycohydrolase	Parg	Q9QYM2	CHEMBL3317337	Family A G protein-coupled receptor	0.0	1 / 0
Neprilysin	Mme	P07861	CHEMBL3369	Enzyme	0.0	9 / 0
Glutamate receptor ionotropic kainate 3	Grik3	P42264	CHEMBL3744	Kinase	0.0	2 / 0
Glutamate receptor ionotropic kainate 1	Grik1	P22756	CHEMBL2919	Ligand-gated ion channel	0.0	4 / 0
Hydroxycarboxylic acid receptor 2 (by homology)	Hcar2	Q80Z39	CHEMBL4731	Enzyme	0.0	1 / 0
Thymidylate synthase (by homology)	Tyms	P45352	CHEMBL4341	Family A G protein-coupled receptor	0.0	4 / 0
HMG-CoA reductase	Hmgcr	P51639	CHEMBL3247	Enzyme	0.0	0 / 34
Histone deacetylase 1 (by homology)	Hdac1	Q4QQW4	CHEMBL2915	Nuclear receptor	0.0	1 / 0
Anionic trypsin-1 (by homology)	Prss1	P00762	CHEMBL3638328	Hydrolase	0.0	2 / 0

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Monoglyceride lipase	Mgll	Q8R431	CHEMBL3321	Voltage-gated ion channel	0.0	0 / 1
G protein-coupled receptor 80	Oxgr1	Q6Y1R5	CHEMBL2325	Enzyme	0.0	3 / 0
Dopamine transporter (by homology)	Slc6a3	P23977	CHEMBL338	Electrochemical transporter	0.0	0 / 17
Glutamate receptor ionotropic, AMPA 2	Gria2	P19491	CHEMBL3503	Ligand-gated ion channel	0.0	1 / 0
Glutamate receptor ionotropic, AMPA 3	Gria3	P19492	CHEMBL3504	Ligand-gated ion channel	0.0	1 / 0
Glutamate receptor ionotropic, AMPA 1	Gria1	P19490	CHEMBL3753	Ligand-gated ion channel	0.0	1 / 0
Sodium/glucose cotransporter 2	Slc5a2	P53792	CHEMBL4316	Electrochemical transporter	0.0	1 / 0
Sodium/glucose cotransporter 1	Slc5a1	P53790	CHEMBL5374	Electrochemical transporter	0.0	1 / 0
Dihydroorotate dehydrogenase (by homology)	Dhodh	Q63707	CHEMBL2383	Voltage-gated ion channel	0.0	1 / 0
Adenosylhomocysteinase (by homology)	Ahcy	P10760	CHEMBL3118	Family A G protein-coupled receptor	0.0	3 / 0
Purine-nucleoside phosphorylase (by homology)	Pnp	P85973	CHEMBL2395	Protease	0.0	2 / 0
Glutamate NMDA receptor; Grin1/Grin2b	Grin1/Grin2b	P35439 Q00960	CHEMBL2096666	Ligand-gated ion channel	0.0	1 / 0
Glutamate NMDA receptor; Grin1/Grin2a	Grin1/Grin2a	P35439 Q00959	CHEMBL2096680	Ligand-gated ion channel	0.0	1 / 0
Glutamate NMDA receptor; Grin1/Grin2c	Grin1/Grin2c	P35439 Q00961	CHEMBL2096911	Voltage-gated ion channel	0.0	2 / 0
Metabotropic glutamate receptor 2	Grm2	P31421	CHEMBL2851	Family C G protein-coupled receptor	0.0	1 / 0
Trehalase	N/A	O70282	CHEMBL3248	Enzyme	0.0	1 / 0
Protein kinase C gamma (by homology)	Prkcg	P63319	CHEMBL3604	Structural protein	0.0	0 / 13
Renin (by homology)	Ren1	P08424	CHEMBL2322	Family A G protein-coupled receptor	0.0	1 / 0
Solute carrier family 2, facilitated glucose transporter member 1 (by homology)	Slc2a1	P11167	CHEMBL5214	Enzyme	0.0	0 / 7
RAS guanyl releasing protein 1 (by homology)	Rasgrp1	Q9R1K8	CHEMBL3109	Ligand-gated ion channel	0.0	0 / 5
Squalene synthetase	Fdft1	Q02769	CHEMBL3815	Enzyme	0.0	54 / 34
Kappa opioid receptor (by homology)	Oprk1	P34975	CHEMBL3614	Family A G protein-coupled receptor	0.0	0 / 11
Vanilloid receptor	Trpv1	O35433	CHEMBL5102	Voltage-gated ion channel	0.0	0 / 12
Protein kinase C alpha	Prkca	P05696	CHEMBL2855	Nuclear receptor	0.0	0 / 4
Androgen Receptor (by homology)	Ar	P15207	CHEMBL3072	Enzyme	0.0	0 / 4
Serotonin transporter	Slc6a4	P31652	CHEMBL313	Enzyme	0.0	0 / 5

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(by homology)						
Adenosine A1 receptor	Adora1	P25099	CHEMBL318	Family A G protein-coupled receptor	0.0	10 / 1
72 kDa type IV collagenase	Mmp2	P33436	CHEMBL1075175	Family A G protein-coupled receptor	0.0	0 / 1
Muscarinic acetylcholine receptor M5 (by homology)	Chrm5	P08911	CHEMBL277	Lyase	0.0	0 / 12
Muscarinic acetylcholine receptor M2 (by homology)	Chrm2	P10980	CHEMBL309	Electrochemical transporter	0.0	0 / 11
Muscarinic acetylcholine receptor M1 (by homology)	Chrm1	P08482	CHEMBL276	Family A G protein-coupled receptor	0.0	0 / 12
Muscarinic acetylcholine receptor M3 (by homology)	Chrm3	P08483	CHEMBL320	Family A G protein-coupled receptor	0.0	0 / 11
Peroxisome proliferator-activated receptor alpha (by homology)	Ppara	P37230	CHEMBL2129	Enzyme	0.0	0 / 8
Peroxisome proliferator-activated receptor gamma (by homology)	Pparg	O88275	CHEMBL4797	Nuclear receptor	0.0	0 / 6
Protein farnesyltransferase	Fntb/Fnta	Q02293 Q04631	CHEMBL2095197	Voltage-gated ion channel	0.0	0 / 1
Squalene monooxygenase	Sqle	P52020	CHEMBL4241	Family A G protein-coupled receptor	0.0	0 / 4
Transient receptor potential cation channel subfamily V member 4 (by homology)	Trpv4	Q9ERZ8	CHEMBL2775	Enzyme	0.0	0 / 4
Delta opioid receptor (by homology)	Oprd1	P33533	CHEMBL269	Family A G protein-coupled receptor	0.0	0 / 1
Testosterone 17-beta-dehydrogenase 3	Hsd17b3	O54939	CHEMBL1075158	Enzyme	0.0	0 / 2
Neuronal acetylcholine receptor protein alpha-7 subunit	Chrna7	Q05941	CHEMBL4980	Hydrolase	0.0	0 / 1
DNA topoisomerase 1 (by homology)	Top1	Q9WUL0	CHEMBL1075164	Enzyme	0.0	3 / 3
Cannabinoid CB1 receptor	Cnr1	P20272	CHEMBL3571	Other cytosolic protein	0.0	0 / 1
Cannabinoid CB2 receptor (by homology)	Cnr2	Q9QZN9	CHEMBL2470	Unclassified protein	0.0	0 / 2
Adenosine A2a receptor	Adora2a	P30543	CHEMBL302	Family A G protein-coupled receptor	0.0	6 / 1
Glucagon receptor (by homology)	Gcgr	P30082	CHEMBL4720	Cytochrome P450	0.0	0 / 1
Alpha-1a adrenergic receptor (by homology)	Adra1a	P43140	CHEMBL319	Ligand-gated ion channel	0.0	0 / 1
Sigma opioid receptor	Sigmar1	Q9R0C9	CHEMBL3602	Other cytosolic protein	0.0	0 / 1
Platelet activating factor	Ptafr	P46002	CHEMBL4127	Enzyme	0.0	0 / 3

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receptor (by homology)						
Monocarboxylate transporter 1	Slc16a1	P53987	CHEMBL2073709	Enzyme	0.0	0 / 2
Glycine receptor subunit alpha-2 (by homology)	Gla2	P22771	CHEMBL2328	Family A G protein-coupled receptor	0.0	0 / 1
Catechol O-methyltransferase	Comt	P22734	CHEMBL2372	Ligand-gated ion channel	0.0	0 / 1
Cyclooxygenase-2 (by homology)	Ptgs2	P35355	CHEMBL2977	Family A G protein-coupled receptor	0.0	2 / 7
Sucrase-isomaltase	Si	P23739	CHEMBL3114	Family A G protein-coupled receptor	0.0	1 / 1
Mu opioid receptor	Oprm1	P33535	CHEMBL270	Family A G protein-coupled receptor	0.0	1 / 3
Telomerase reverse transcriptase (by homology)	Tert	Q673L6	CHEMBL3108654	Enzyme	0.0	1 / 1
Glycogen synthase kinase-3 beta (by homology)	Gsk3b	P18266	CHEMBL3669	Protease	0.0	1 / 6