

SB-414796

Chemical Properties

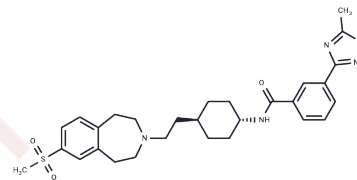
CAS No. : 264262-71-7

Formula: C₂₉H₃₆N₄O₄S

Molecular Weight: 536.69

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	SB-414796 is a selective antagonist of the dopamine D3 receptor.
Targets(IC50)	Others,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8633 mL	9.3164 mL	18.6327 mL
5 mM	0.3727 mL	1.8633 mL	3.7265 mL
10 mM	0.1863 mL	0.9316 mL	1.8633 mL
50 mM	0.0373 mL	0.1863 mL	0.3727 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lacroix LP, Ceolin L, Zocchi A, Varnier G, Garzotti M, Curcuruto O, Heidbreder CA. Selective dopamine D3 receptor antagonists enhance cortical acetylcholine levels measured with high-performance liquid chromatography/tandem mass spectrometry without anti-cholinesterases. *J Neurosci Methods*. 2006 Oct 15;157(1):25-31. Epub 2006 May 11. PubMed PMID: 16697046.

Heidbreder CA, Gardner EL, Xi ZX, Thanos PK, Mugnaini M, Hagan JJ, Ashby CR Jr. The role of central dopamine D3 receptors in drug addiction: a review of pharmacological evidence. *Brain Res Brain Res Rev*. 2005 Jul;49(1):77-105. Review. PubMed PMID: 15960988; PubMed Central PMCID: PMC3732040.

Macdonald GJ, Branch CL, Hadley MS, Johnson CN, Nash DJ, Smith AB, Stemp G, Thewlis KM, Vong AK, Austin NE, Jeffrey P, Winborn KY, Boyfield I, Hagan JJ, Middlemiss DN, Reavill C, Riley GJ, Watson JM, Wood M, Parker SG, Ashby CR Jr. Design and synthesis of trans-3-(2-(4-((3-(3-(5-methyl-1,2,4-oxadiazolyl))- phenyl)carboxamido)cyclohexyl) ethyl)-7-methylsulfonyl-2,3,4,5-tetrahydro-1H-3-benzazepine (SB-414796): a potent and selective dopamine D3 receptor antagonist. *J Med Chem*. 2003 Nov 6;46(23):4952-64. PubMed PMID: 14584946.

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