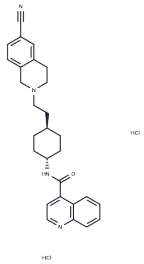
Data Sheet (Cat.No.T12861L)

TargetMol

SB-277011 dihydrochloride

Chemical Properties



CAS No. : 1226917-67-4

Formula: C28H32Cl2N4O

Molecular Weight: 511.49

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-277011 dihydrochloride is a potent, selective, orally bioavailable and brain penetrate antagonist of dopamine D3 receptor(pKis of 8.0, 6.0, <5.2 and 5.9 for D3, D2, 5-HT1B, and 5-HT1D receptors, respectively).
Targets(IC50)	Dopamine Receptor
In vitro	SB-277011 dihydrochloride is a selective, orally bioavailable and brain penetrate antagonist of dopamine D3 receptor, and restores ≥100-fold selectivity against the D2, 5-HT1B, and 5-HT1D receptors(pKis of 8.0, 6.0, <5.2 and 5.9 for D3, D2, 5-HT1B, and 5-HT1D receptors, respectively).
In vivo	the effects of quinelorane in the nucleus accumbens completely reversed by SB-277011 dihydrochloride (SB 277011; 3 mg/kg, p.o.), but does not reverse the effects of quinelorane in the striatum at 93 mg/kg in rats.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9551 mL	9.7754 mL	19.5507 mL
5 mM	0.391 mL	1.9551 mL	3.9101 mL
10 mM	0.1955 mL	0.9775 mL	1.9551 mL
50 mM	0.0391 mL	0.1955 mL	0.391 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

Stemp G, et al. Design and synthesis of trans-N-[4-[2-(6-cyano-1,2,3, 4-tetrahydroisoquinolin-2-yl)ethyl] cyclohexyl]-4-quinolinecarboxamide (SB-277011): A potent and selective dopamine D(3) receptor antagonist with high oral bioavailability and CNS penetration in the rat. J Med Chem. 2000 May 4;43(9):1878-85.

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