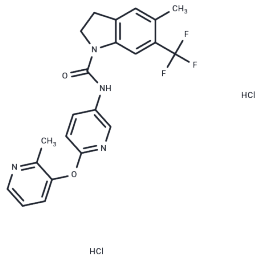
Data Sheet (Cat.No.T12859L)

TargetMol

SB 243213 dihydrochloride

Chemical Properties



CAS No. : 1780372-25-9

Formula: C22H21Cl2F3N4O2

Molecular Weight: 501.33

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 243213 dihydrochloride is an orally active, selective, and high-affinity antagonist of the 5-hydroxytryptamine (5-HT)2C receptor, with a pKi of 9.37 and a pKb of 9.8 for the human 5-HT2C receptor.
Targets(IC50)	5-HT Receptor
In vitro	SB 243213 dihydrochloride exhibits low affinity (pKi < 6) for cloned human 5-HT1A, 5-HT1B, 5-HT1E, 5-HT1F, and 5-HT7 receptors, weak affinity (pKi < 6.5) for cloned human 5-HT1D and D3 receptors, and moderate affinity (pKi = 6.7) for the cloned human D2 receptor.
In vivo	SB 243213 dihydrochloride (0.3 mg/kg; p.o.; 1 h pre-test) significantly increases time spent in social interaction. SB 243213 dihydrochloride (0.1-10 mg/kg; p.o.; 1 h pre-test) dose-dependently and significantly increases the amount of time rats spent in social interaction over 15 min under brightly lit conditions and in an unfamiliar test box.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9947 mL	9.9735 mL	19.9469 mL
5 mM	0.3989 mL	1.9947 mL	3.9894 mL
10 mM	0.1995 mL	0.9973 mL	1.9947 mL
50 mM	0.0399 mL	0.1995 mL	0.3989 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

Wood MD, et al. SB-243213; a selective 5-HT2C receptor inverse agonist with improved anxiolytic profile: lack of tolerance and withdrawal anxiety. Neuropharmacology. 2001 Aug;41(2):186-99.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481