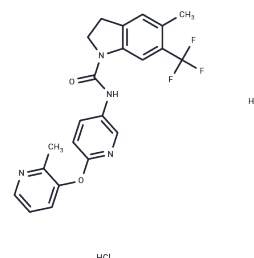


SB 243213 dihydrochloride

Chemical Properties

CAS No. :	1780372-25-9
Formula:	C ₂₂ H ₂₁ Cl ₂ F ₃ N ₄ O ₂
Molecular Weight:	501.33
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	SB 243213 dihydrochloride is an orally active, selective and high-affinity antagonist of 5-hydroxytryptamine (5-HT) _{2C} receptor (pK _i of 9.37 and a pK _b of 9.8 for human 5-HT _{2C} receptor).
Targets(IC ₅₀)	5-HT Receptor
In vitro	SB 243213 dihydrochloride shows little affinity with pK _i less than 6 for cloned human 5-HT _{1A} , 5-HT _{1B} , 5-HT _{1E} , 5-HT _{1F} and 5-HT ₇ receptors. It shows weak affinity (pK _i <6.5) for the cloned human 5-HT _{1D} and D ₃ receptors and moderate affinity (pK _i =6.7) for the cloned human D ₂ 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.

Reference

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

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