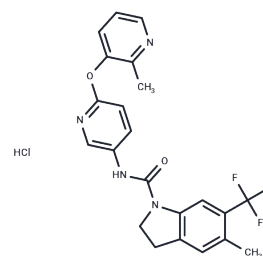


SB 243213 hydrochloride

Chemical Properties

CAS No. :	200940-23-4
Formula:	C ₂₂ H ₂₀ ClF ₃ N ₄ O ₂
Molecular Weight:	464.87
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 hydrochloride is an orally active, selective, high-affinity antagonist of the 5-hydroxytryptamine (5-HT) _{2C} receptor (pK _i of 9.37 and pK _b of 9.8), with an improved anxiolytic profile and potential for treating schizophrenia and motor disorders.
Targets(IC ₅₀)	5-HT Receptor
In vitro	SB 243213 hydrochloride showed 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 showed 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 hydrochloride (0.3 mg/kg; p.o.; 1 h pre-test) significantly increases time spent in social interaction. SB 243213 hydrochloride (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	2.1511 mL	10.7557 mL	21.5114 mL
5 mM	0.4302 mL	2.1511 mL	4.3023 mL
10 mM	0.2151 mL	1.0756 mL	2.1511 mL
50 mM	0.043 mL	0.2151 mL	0.4302 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-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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