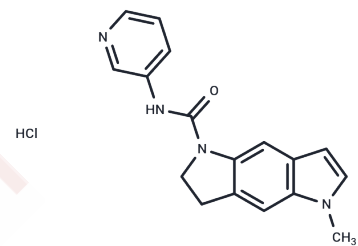


SB 206553 hydrochloride

Chemical Properties

CAS No. : 1197334-04-5
 Formula: C₁₇H₁₇ClN₄O
 Molecular Weight: 328.8
 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 206553 hydrochloride is an orally active, selective, and efficient 5-HT _{2C} inverse agonist and 5-HT _{2C} /5-HT _{2B} receptor antagonist with anti-anxiety activity. It is useful in neurological disease research.
Targets(IC ₅₀)	5-HT Receptor, HIV Protease
In vitro	SB 206553 hydrochloride (50 μM) prevented the promotion of mEPSC induced by the application of α-Me-5HT (10 μM), while the rise and decay time constants of mEPSC administered by α-Me-5HT remained unchanged in the presence of SB 206553 hydrochloride. [1]
In vivo	Intraperitoneal administration of SB 206553 hydrochloride (1-10 mg/kg) caused a dose-dependent increase in DA release from the accumbens and striatum in rats. [2] SB 206553 hydrochloride (1-10mg/kg), only 10mg/kg, enhanced c-Fos expression in STN, striatum (except dorsomedial part), NAcc, inner surface nucleus, substantia nigra reticularis (SNr) and densa (SNc), and ventral tegmental area. [3]

Solubility Information

Solubility	DMSO: 25 mg/mL (76.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0414 mL	15.2068 mL	30.4136 mL
5 mM	0.6083 mL	3.0414 mL	6.0827 mL
10 mM	0.3041 mL	1.5207 mL	3.0414 mL
50 mM	0.0608 mL	0.3041 mL	0.6083 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

Dergacheva O, et al. 5HT2 receptor activation facilitates P2X receptor mediated excitatory neurotransmission to cardiac vagal neurons in the nucleus ambiguus. *Neuropharmacology*. 2008 Jun;54(7):1095-102.

De Deurwaerdère P, et al. Constitutive activity of the serotonin_{2C} receptor inhibits in vivo dopamine release in the rat striatum and nucleus accumbens. *J Neurosci*. 2004 Mar 31;24(13):3235-41.

Kadiri N, et al. Diverse effects of 5-HT_{2C} receptor blocking agents on c-Fos expression in the rat basal ganglia. *Eur J Pharmacol*. 2012 Aug 15;689(1-3):8-16.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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