Data Sheet (Cat.No.T37114)



SB 242084 dihydrochloride

Chemical Properties

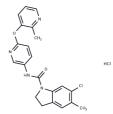
CAS No.: 1049747-87-6

Formula: C21H21Cl3N4O2

Molecular Weight: 467.78

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	SB 242084 hydrochloride is a 5-HT2C receptor antagonist(pKi=9.0) that displays 158-and 100-fold selectivity over 5-HT2A and 5-HT2B receptors respectively.		
In vitro	In vitro, SB 242084 had over 100-fold selectivity over a range of other 5-HT, dopamine and adrenergic receptors. In studies of 5-HT-stimulated phosphatidylinositol hydrolysis using SH-SY5Y cells stably expressing the cloned human 5-HT2C receptor, SB 242084 acted as an antagonist with a pKb of 9.3, which closely resembled its corresponding receptor binding affinity [1].		
In vivo	In vivo, SB 242084 potently inhibited m-chlorophenylpiperazine (mCPP, 7 mgkg i.p. 20 min pre-test)-induced hypolocomotion in rats, a model of in vivo central 5-HT2C receptor function, with an ID50 of 0.11 mg/kg i.p., and 2.0 mg/kg p.o. SB 242084 (0.1-1 mg/kg i.p.) exhibited an anxiolytic-like profile in the rat social interaction test, increasing time spent in social interaction, but having no effect on locomotion. SB 242084 (0.1-1 mg/kg i.p.) also markedly increased punished responding in a rat Geller-Seifter conflict test of anxiety, but had no consistent effect on unpunished responding [1].		

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL	
	Ethanol: 1 mg/mL	
	DMF: 30 mg/mL	
	DMSO: 30 mg/mL	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Page 1 of 2 www.targetmol.com

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1378 mL	10.6888 mL	21.3776 mL
5 mM	0.4276 mL	2.1378 mL	4.2755 mL
10 mM	0.2138 mL	1.0689 mL	2.1378 mL
50 mM	0.0428 mL	0.2138 mL	0.4276 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

Kennett GA, et al. SB 242084, a selective and brain penetrant 5-HT2C receptor antagonist. Neuropharmacology. 1997 Apr-May;36(4-5):609-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street, Wellesley Hills, MA 02481

Page 2 of 2 www.targetmol.com