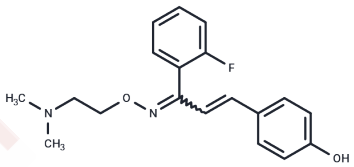
Data Sheet (Cat.No.T11217)

TargetMol

Eplivanserin

Chemical Properties



CAS No. : 130579-75-8

Formula: C19H21FN2O2

Molecular Weight: 328.38

Storage: Keep away from moisture,Store at low temperature
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	Eplivanserin (SR-46349) is an effective and selective antagonist of 5-HT2A receptor with a Kd of 1.14 nM and an IC50 value of 5.8 nM in rat cortical membrane.
Targets(IC50)	5-HT Receptor
In vitro	Eplivanserin has inhibitory effects on rat cortex adrenergic α1 and α2, rat whole brain histammine H1, Na+ channel, and rat striatum dopamine D1 and D2, with IC50s of 3.4 μM, 1.0 μM, 5.0 μM, 39 μM, 9 μM and 28 μM, respectively. Eplivanserin displays >20-fold selectivity more selective for 5-HT2A than 5-HT2B and 5-HT2C with IC50s of 0.12 μM (Pig cortex 5-HT1C), 14 μM (Rat hippocampus 5-HT1A), and 16 μM (Rat stnatum 5-HT1B, Ox caudate nucleus 5-HT1D)[1].
In vivo	In mice, Eplivanserin(0.097 mg/kg; i.p.) inhibits 5-HT2 receptor binding of [3H]ketanserin with an ED50 of 0.087 mg/kg[1]. In rats, SR 46349B (0.25-1 mg/kg; i.p.) blocks Cocaine-evoked hyperactivity following repeated Cocaine treatment[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (152.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0453 mL	15.2263 mL	30.4525 mL
5 mM	0.6091 mL	3.0453 mL	6.0905 mL
10 mM	0.3045 mL	1.5226 mL	3.0453 mL
50 mM	0.0609 mL	0.3045 mL	0.6091 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

Malgorzata Filip, et al. Contribution of serotonin (5-hydroxytryptamine; 5-HT) 5-HT2 receptor subtypes to the hyperlocomotor effects of cocaine: acute and chronic pharmacological analyses. J Pharmacol Exp Ther. 2004 Sep; 310(3):1246-54.

Rinaldi-Carmona M, et al. Biochemical and pharmacological properties of SR 46349B, a new potent and selective 5-hydroxytryptamine2 receptor antagonist. J Pharmacol Exp Ther. 1992 Aug;262(2):759-68.