

SB228357

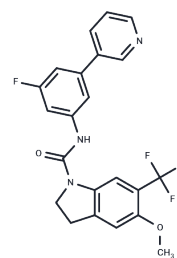
Chemical Properties

CAS No. : 181629-93-6

Formula: C₂₂H₁₇F₄N₃O₂

Molecular Weight: 431.38

Storage: Store at low temperature, Keep away from direct sunlight
 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	SB228357 is a potent and selective antagonist of the 5-HT receptor with pK _i s of 6.9, 8.0, and 9.0 for 5-HT _{2A} , 5-HT _{2B} , and 5-HT _{2C} , respectively.
Targets(IC ₅₀)	5-HT Receptor
In vivo	In male Sprague Dawley rats, oral administration of SB228357 (0-10 mg/kg) reverses Haloperidol-induced catalepsy obviously[2].

Solubility Information

Solubility	DMSO: 38.9 mg/mL (90.18 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	2.3181 mL	11.5907 mL	23.1814 mL
5 mM	0.4636 mL	2.3181 mL	4.6363 mL
10 mM	0.2318 mL	1.1591 mL	2.3181 mL
50 mM	0.0464 mL	0.2318 mL	0.4636 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

Bromidge SM, et al. Biarylcarbamoylindolines are novel and selective 5-HT_{2C} receptor inverse agonists: identification of 5-methyl-1-[[2-[(2-methyl-3-pyridyl)oxy]-5-pyridyl]carbamoyl]-6-trifluoromethylindoline (SB-243213) as a potential antidepressant/anxiolytic agent. *J Med Chem.* 2000 Mar 23;43(6):1123-34.

Reavill C, et al. Attenuation of haloperidol-induced catalepsy by a 5-HT_{2C} receptor antagonist. *Br J Pharmacol.* 1999 Feb;126(3):572-4.

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