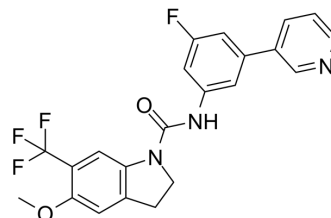


SB228357

Cat. No.:	HY-103154		
CAS No.:	181629-93-6		
Molecular Formula:	C ₂₂ H ₁₇ F ₄ N ₃ O ₂		
Molecular Weight:	431.38		
Target:	5-HT Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (289.77 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SB228357 is a selective, potent and orally active 5-HT_{2C/2B} receptor antagonist with pK_i values of 6.9, 8.0 and 9.0 for 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C}, respectively. SB228357 has antidepressant/anxiolytic effects^{[1][2]}.

IC₅₀ & Target

5-HT _{2A} Receptor 6.9 (pKi)	5-HT _{2C} Receptor 9 (pKi)	5-HT _{2B} Receptor 8 (pKi)
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In Vivo

SB228357 (0-10 mg/kg; oral administration; for 90 minutes; male Sprague Dawley rats) treatment significantly reverses Haloperidol-induced catalepsy^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague Dawley rats (200-250 g) injected with Haloperidol ^[2]
Dosage:	0 mg/kg, 0.32 mg/kg, 1 mg/kg, 3.2 mg/kg, 10 mg/kg

Administration:	Oral administration; for 90 minutes
Result:	Significantly reversed Haloperidol-induced catalepsy.

REFERENCES

- [1]. 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/a
- [2]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA