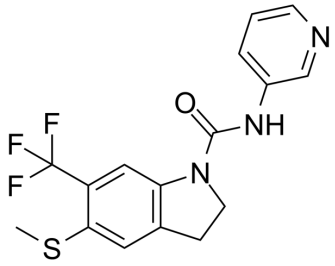
SB-221284

Cat. No.:	HY-103155
CAS No.:	196965-14-7
Molecular Formula:	$C_{16}H_{14}F_3N_3OS$
Molecular Weight:	353.36
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

SB 221284 is a selective 5-$HT_{2C/2B}$ receptor antagonist with pK_i values are 6.4, 7.9 and 8.6 for 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} receptors, respectively. SB 221284 can be used for the research of neurological disease[1].

IC_{50} & Target

5-HT_{2A} Receptor	5-HT_{2B} Receptor	5-HT_{2C} Receptor
6.4 (pKi)	7.9 (pKi)	8.6 (pKi)

In Vivo

SB 221284 (0.1~1 mg/kg, i.p.) pre-treatment doses shows to block mCPP induced hypolocomotion, significantly enhances the hyperactivity induced by phencyclidine or MK-801[1].

SB 221284 (1 mg/kg, i.p.) significantly enhances the magnitude and duration of the increase induced by phencyclidine[1]

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

Animal Model:	Male Sprague Dawley rats (250–360 g)[1]
Dosage:	0.1~1 mg/kg
Administration:	I.p.
Result:	Pre-treatment doses showed to block mCPP induced hypolocomotion, significantly enhanced the hyperactivity induced by phencyclidine or MK-801.

Animal Model:	Male Sprague Dawley rats (250–360 g)[1]
Dosage:	1 mg/kg
Administration:	I.p.
Result:	Significantly enhanced the magnitude and duration of the increase induced by phencyclidine.

REFERENCES

[1]. Hutson PH, et al. Activation of mesolimbic dopamine function by phencyclidine is enhanced by 5-HT(2C/2B) receptor antagonists: neurochemical and behavioural

studies. Neuropharmacology. 2000;39(12):2318-2328.

[2]. Bromidge SM, et al. Novel and selective 5-HT2C/2B receptor antagonists as potential anxiolytic agents: synthesis, quantitative structure-activity relationships, and molecular modeling of substituted 1-(3-pyridylcarbamoyl)indolines. J Med Chem. 1998;41(10):1598-1612.

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