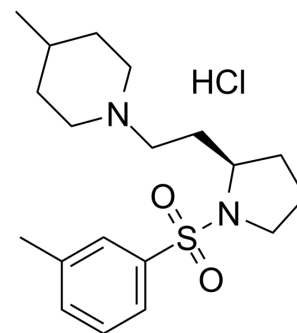


SB 258741 hydrochloride

Cat. No.:	HY-136678A
Molecular Formula:	C ₁₉ H ₃₁ ClN ₂ O ₂ S
Molecular Weight:	386.98
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 258741 hydrochloride is a specific 5-HT ₇ receptor antagonist and can be used for the research of schizophrenia ^[1] .	
IC₅₀ & Target	5-HT ₇ Receptor	
In Vitro	SB-258741 behaves as a partial inverse agonist, the antagonist potency (apparent pK _B) is 8.47 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	SB 258741 (0-9.1 mg/kg; s.c.; once or daily for 3 days) shows antipsychotic effects in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male Wistar rats, 250 –300 g in the phencyclidine (PCP)-disrupted prepulse inhibition (PPI) and PCP-disrupted social interaction (SIT) paradigm, 200 – 250 g in the catalepsy, motility, and D-amphetamine hyperactivity paradigms ^[1]
	Dosage:	0.56, 2.3, 4.6 and 9.1 mg/kg
	Administration:	Subcutaneous injection, once or daily for 3 days (social interaction test)
	Result:	Reversed hyperactivity induced by D-amphet-amine over 0.56 mg/kg, and reduced motility at 4.6 and 9.1 mg/kg. Did not reverse D-Amphetamine-disrupted PPI, but enhanced PCP-disrupted PPI. Reduced PCP (2 mg/kg)-induced hyperactivity.

REFERENCES

[1]. Pouzet B, et al. Effects of the 5-HT(7) receptor antagonist SB-258741 in animal models for schizophrenia. *Pharmacol Biochem Behav.* 2002 Apr;71(4):655-65.

[2]. Mahé C, et al. Differential inverse agonist efficacies of SB-258719, SB-258741 and SB-269970 at human recombinant serotonin 5-HT7 receptors. *Eur J Pharmacol.* 2004 Jul 14;495(2-3):97-102.

Caution: Product has not been fully validated for medical applications. For research use only.

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