

## SB 258741 hydrochloride

## Chemical Properties

CAS No. :

Formula: C<sub>19</sub>H<sub>31</sub>ClN<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 386.98

Storage: 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	SB 258741 hydrochloride is a potent antagonist of the 5-HT <sub>7</sub> receptor, designed specifically for studying schizophrenia [1].
Targets(IC50)	Others,5-HT Receptor
In vitro	SB-258741 acts as a partial inverse agonist, with its antagonistic potency, denoted as apparent pK <sub>B</sub> , measured to be 8.47 [2].
In vivo	SB 258741, administered subcutaneously at doses ranging from 0.56 to 9.1 mg/kg either once or daily for three days, demonstrates antipsychotic properties in male Wistar rats weighing between 250-300 g for studies involving phencyclidine (PCP)-disrupted prepulse inhibition (PPI) and social interaction (SIT) tests, and 200-250 g for catalepsy, motility, and D-amphetamine-induced hyperactivity studies. The results indicate that SB 258741 effectively reverses hyperactivity caused by D-amphetamine at doses above 0.56 mg/kg and reduces motility at 4.6 and 9.1 mg/kg. It does not counteract the disrupted PPI induced by D-Amphetamine, but it does enhance PPI disrupted by PCP and decreases PCP (2 mg/kg)-induced hyperactivity.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5841 mL	12.9206 mL	25.8411 mL
5 mM	0.5168 mL	2.5841 mL	5.1682 mL
10 mM	0.2584 mL	1.2921 mL	2.5841 mL
50 mM	0.0517 mL	0.2584 mL	0.5168 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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