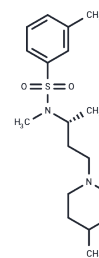


SB 258719

Chemical Properties

CAS No. : 195199-95-2
 Formula: C₁₈H₃₀N₂O₂S
 Molecular Weight: 338.51
 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 258719 is a selective antagonist of 5-HT ₇ receptor with pK _i of 7.5.
Targets(IC ₅₀)	5-HT Receptor
In vitro	SB 258719 antagonised surmountably 5-CT-stimulated adenylyl cyclase activity. Schild analysis of the antagonism by SB 258719 gave a pA ₂ of 7.2±0.2 and slope not significantly different from 1, consistent with competitive antagonism[3].
In vivo	SB 258719 (5-20 mg/kg, i.p.) reversed the hypothermic effect of 5-CT in mice[1], attenuated increased Wnt/β-catenin activity in HCC cell lines and patient-derived primary tumor tissues in the presence of 5-HT, and reduced tumor growth in vivo[2].

Solubility Information

Solubility	DMSO: 250 mg/mL (738.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (14.77 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9541 mL	14.7706 mL	29.5412 mL
5 mM	0.5908 mL	2.9541 mL	5.9082 mL
10 mM	0.2954 mL	1.4771 mL	2.9541 mL
50 mM	0.0591 mL	0.2954 mL	0.5908 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

Guscott MR, et al. The hypothermic effect of 5-CT in mice is mediated through the 5-HT7 receptor. *Neuropharmacology*. 2003;44(8):1031-1037.

Fatima S, et al. 5-Hydroxytryptamine promotes hepatocellular carcinoma proliferation by influencing β -catenin. *Mol Oncol*. 2016;10(2):195-212.

Thomas DR, et al. Functional characterisation of the human cloned 5-HT7 receptor (long form); antagonist profile of SB-258719. *Br J Pharmacol*. 1998 Jul;124(6):1300-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481