Data Sheet (Cat.No.T12842)

SB-269970

Chemical Properties

CAS No.:	201038-74-6
Formula:	C18H28N2O3S
Molecular Weight:	352.49
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	SB-269970 is a antagonist of 5-HT7 receptor(pKi of 8.3).
Targets(IC_{50})	5-HT7 receptor: pki: 8.3
In vivo	Amphetamine and ketamine-induced hyperactivity significantly blocked by SB-269970 (3-30 mg/kg; i.p.; once) [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.837 mL	14.185 mL	28.37 mL
5 mM	0.567 mL	2.837 mL	5.674 mL
10 mM	0.284 mL	1.418 mL	2.837 mL
50 mM	0.057 mL	0.284 mL	0.567 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Hagan JJ, et al. Characterization of SB-269970-A, a selective 5-HT(7) receptor antagonist. Br J Pharmacol. 2000 Jun;130(3):539-48.
2. Roberts C, et al. The effect of SB-269970, a 5-HT(7) receptor antagonist, on 5-HT release from serotonergic terminals and cell bodies. Br J Pharmacol. 2001 Apr;132(7):1574-80.
3. Nikiforuk A, et al. Effects of the selective 5-HT7 receptor antagonist SB-269970 and amisulpride on ketamine-induced schizophrenia-like deficits in rats. PLoS One. 2013 Jun 11;8(6):e66695.
4. Monti JM, et al. The serotonin 5-HT7 receptor agonist LP-44 microinjected into the dorsal raphe nucleus suppresses REM sleep in the rat. Behav Brain Res. 2008 Aug 22;191(2):184-9.

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