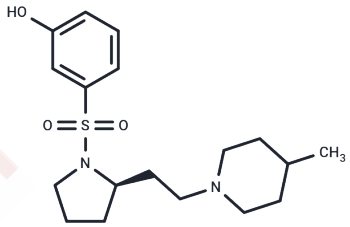
# Data Sheet (Cat.No.T12842)

TargetMol

## SB-269970

### Chemical Properties



CAS No. : 201038-74-6

Formula: C18H28N2O3S

Molecular Weight: 352.49

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-269970 is a antagonist of 5-HT7 receptor(pKi of 8.3). |
| Targets(IC50) | 5-HT Receptor |
| In vivo | Amphetamine and ketamine-induced hyperactivity significantly blocked by SB-269970 (3-30 mg/kg; i.p.; once)[2]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.837 mL | 14.1848 mL | 28.3696 mL |
| 5 mM | 0.5674 mL | 2.837 mL | 5.6739 mL |
| 10 mM | 0.2837 mL | 1.4185 mL | 2.837 mL |
| 50 mM | 0.0567 mL | 0.2837 mL | 0.5674 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


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.

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.

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.

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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