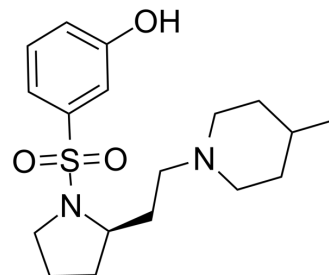


SB-269970

| | |
|---------------------------|---|
| Cat. No.: | HY-15370 |
| CAS No.: | 201038-74-6 |
| Molecular Formula: | C ₁₈ H ₂₈ N ₂ O ₃ S |
| Molecular Weight: | 352.49 |
| 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-269970 is a potent, selective and brain-penetrant 5-HT ₇ receptor antagonist with a pK _i of 8.3. SB-269970 exhibits >50-fold selectivity against other 5-HT receptors ^{[1][2]} . | |
| IC₅₀ & Target | Human 5-HT ₇ Receptor 8.3 (pKi) | |
| In Vivo | SB-269970 (3-30 mg/kg; i.p.; once) significantly blocks amphetamine and ketamine-induced hyperactivity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| | Animal Model: | Male C57BL6/J mice ^[2] |
| | Dosage: | 3, 10, 30 mg/kg |
| | Administration: | Intraperitoneal injection; once |
| | Result: | Significantly blocked amphetamine and ketamine-induced hyperactivity. |

CUSTOMER VALIDATION

- Protein Cell. 2019 Mar;10(3):178-195.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [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.

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

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