Product Data Sheet

**Product Name:** SB-269970 hydrochloride

**CAS No.:** 261901-57-9

**Cat. No.:** HY-15370A

**MWt:** 388.95

**Formula:** C18H29ClN2O3S

**Purity:** >98%

**Solubility:** 25°C: DMSO 11 mg/mL; Water <1 mg/mL; Ethanol <1 mg/mL

**Mechanisms:** Pathways: Neuronal Signaling; Target: 5-HT Receptor

**Pathways:** GPCR/G protein; Target: 5-HT Receptor

**Biological Activity:**

SB269970 hydrochloride is a hydrochloride salt form of SB-269970, which is a 5-HT7 receptor antagonist with pKi of 8.3, exhibits >50-fold selectivity against other receptors.

**IC50 Value:** 8.3 (pKi for 5-HT7) [1]

**Target:** 5-HT7 receptor in vitro: 5-CT-stimulated adenylyl cyclase activity in guinea-pig hippocampal membranes (pEC(50) of 8.4+/−0.2) was inhibited by SB-269970-A (0.3 microM) with a pK(B) (8.3+/−0.1) in good agreement with its antagonist potency at the human cloned 5-HT(7(a)) receptor and its binding affinity at guinea-pig cortical membranes. 5-HT(7) receptor mRNA was highly expressed in human hypothalamus, amygdala, thalamus, hippocampus and testis [1]. Cortical slices were loaded with [(3)H]-5-HT and release was evoked by electrical stimulation. 5-CT inhibited the evoked release of [(3)H]-5-HT in a concentration-dependent manner. SB-269970 had no significant...

**References:**


Caution: Not fully tested. For research purposes only

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