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DATASHEET

SB 269970 hydrochloride

Product overview

Name	SB 269970 hydrochloride
Cat No	HB1684
Alternative names	SB-269970,SB269970
Biological action	Antagonist
Purity	>98%
Description	Potent, selective 5-HT_7 receptor antagonist

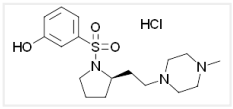
Biological Data

Biological description	Potent and selective 5-HT_7 receptor antagonist. Selective for for 5-HT_{7A} over 5-HT_{5A} and 5-HT_{1B} (pK_i values are 8.9, 7.2 and 6.0 respectively). Inhibits hyperactivity induced by amphetamine and ketamine. Blood-brain barrier permeable.

Solubility & Handling

Storage instructions	+4°C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(2*R*)-1-[(3-Hydroxyphenyl)sulfonyl]-2-[2-(4-methyl-1-piperidinyl)ethyl]pyrrolidine hydrochloride
Molecular Weight	388.95
Chemical structure	
Molecular Formula	$C_{18}H_{28}N_2O_3S.HCl$
CAS Number	261901-57-9
PubChem identifier	11957684
SMILES	OC1=CC(S(N2[C@@H](CCN3CCC(C)CC3)CCC2)(=O)=O)=CC=C1.Cl
InChiKey	XQCJOYZLWFNDIO-PKLMIRHRSA-N

References

Characterization of SB-269970-A, a selective 5-HT(7) receptor antagonist.

Hagan JJ *et al* (2000) Br J Pharmacol 130(3)
PubMedID 10821781

Effects of SB-269970, a 5-HT7 receptor antagonist, in mouse models predictive of antipsychotic-like activity.

Galici R *et al* (2008) Behav Pharmacol 19(2)
PubMedID 18332680

A novel, potent, and selective 5-HT(7) antagonist: (R)-3-(2-(2-(4-methylpiperidin-1-yl)ethyl)pyrrolidine-1-sulfonyl) phen ol (SB-269970).

Lovell PJ *et al* (2000) J Med Chem 43(3)
PubMedID 10669560

Effects of the selective 5-HT7 receptor antagonist SB-269970 and amisulpride on ketamine-induced schizophrenia-like deficits in rats.

Nikiforuk A *et al* (2013) PLoS One 8(6)
PubMedID 23776692