

## Product Information

### SB-269970 hydrochloride

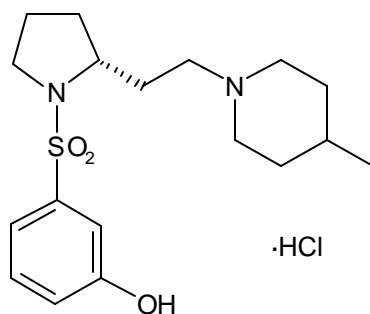
Catalog Number **S7389**

Storage Temperature 2-8 °C

CAS RN: 261901-57-9

Synonym: (R)-3-(2-(2-(4-Methyl-piperidin-1-yl)ethyl)-pyrrolidine-1-sulfonyl)phenol hydrochloride

#### Product Description



Empirical Formula: C<sub>18</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>S · HCl

Molecular Weight: 388.95

The 5-HT<sub>7</sub> serotonin receptor, expressed primarily in the thalamic and limbic regions of the brain, has been cloned from several organisms including guinea pig and human. To date, 5-HT<sub>7</sub> receptor binding studies have used tritiated serotonin (5-HT) or 5-carboxamido-tryptamine (5-CT) as ligands. Neither compound is selective for the 5-HT<sub>7</sub> receptor. As a result, in order to study the localization and function of the 5-HT<sub>7</sub> receptor, blocking reagents must be used to block non-5-HT<sub>7</sub> sites.

SB 269970 hydrochloride has been identified as a potent and selective 5-HT<sub>7</sub> antagonist and, therefore, should prove valuable for elucidating the physiological functions of this receptor *in vivo*. SB 269970 hydrochloride has an activity profile similar to that of 5-CT at the 5HT<sub>7</sub> receptor. Since 5-CT is not selective for 5HT<sub>7</sub> sites, blockers of non-5HT<sub>7</sub> sites were used to generate the 5HT<sub>7</sub> profile for 5-CT.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

Soluble in water (22 mg/ml).

#### Storage/Stability

Store tightly sealed at 2-8 °C.

#### References

1. Hagan, J.J., et al., *Br. J. Pharmacol.*, **130**, 539-548 (2000).
2. Thomas, D.R., et al., *Br. J. Pharmacol.*, **130**, 409-417 (2000).
3. Lovell, P.J., et al., *J. Med. Chem.*, **43**, 342-345 (2000).

MCT.PHC 07/05-1

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