

**Product Name:** SB 258719 hydrochloride

**Catalog No.:** 2726

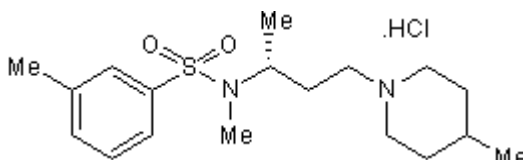
**Batch No.:** 1

**CAS Number:** 1217674-10-6

**IUPAC Name:** 3-Methyl-N-[(1*R*)-1-methyl-3-(4-methyl-1-piperidinyl)propyl]-*N*-methylbenzenesulfonamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>30</sub>N<sub>2</sub>O<sub>2</sub>S.HCl  
**Batch Molecular Weight:** 374.97  
**Physical Appearance:** White crystalline solid  
**Solubility:** water to 100 mM  
DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.8 (Dichloromethane:Methanol [8:2])  
**HPLC:** Shows 99.6% purity  
**Chiral HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +11.6 (Concentration = 2.0, Solvent = Methanol)  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	57.66	8.33	7.47
Found	57.31	8.34	7.48

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** SB 258719 hydrochloride

**Catalog No.:** 2726 **Batch No.:** 1

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**IUPAC Name:** 3-Methyl-N-[(1*R*)-1-methyl-3-(4-methyl-1-piperidinyl)propyl]-*N*-methylbenzenesulfonamide hydrochloride

**Description:**

Selective 5-HT<sub>7</sub> receptor antagonist that displays > 100-fold selectivity over a range of other receptors. Reverses the hypothermic effect of 5-CT in mice following i.p. administration.

**Physical and Chemical Properties:**

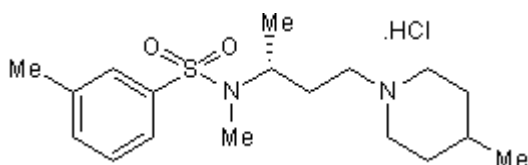
Batch Molecular Formula: C<sub>18</sub>H<sub>30</sub>N<sub>2</sub>O<sub>2</sub>S.HCl

Batch Molecular Weight: 374.97

Physical Appearance: White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM  
DMSO to 100 mM  
ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Forbes et al (1998)** (*R*)-3,*N*-dimethyl-*N*-[1-methyl-3-(4-methyl-piperidin-1-yl)propyl]benzenesulfonamide: the first selective 5-HT<sub>7</sub> receptor antagonist. *J.Med.Chem.* **41** 655. PMID: 9513592.

**Thomas et al (1998)** Functional characterisation of the human cloned 5-HT<sub>7</sub> receptor (long form); antagonist profile of SB-258719. *Br.J.Pharmacol.* **124** 1300. PMID: 9720804.

**Guscott et al (2003)** The hypothermic effect of 5-CT in mice is mediated through the 5-HT<sub>7</sub>receptor. *Neuropharmacology* **44** 1031. PMID: 12763096.

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