

Certificate of Analysis

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Product Name: SB 258719 hydrochloride

Catalog No.: 2726

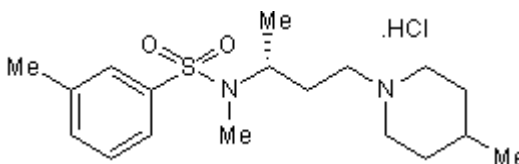
Batch No.: 1

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: C₁₈H₃₀N₂O₂S.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_f = 0.8 (Dichloromethane:Methanol [8:2])
HPLC: Shows 99.6% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +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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IUPAC Name: 3-Methyl-N-[(1R)-1-methyl-3-(4-methyl-1-piperidinyl)propyl]-N-methylbenzenesulfonamide hydrochloride

Description:

Selective 5-HT₇ 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:

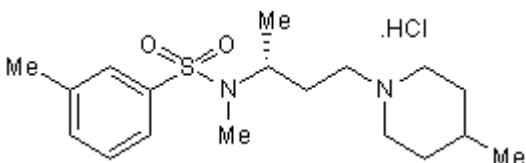
Batch Molecular Formula: C₁₈H₃₀N₂O₂S.HCl

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-HT₇ receptor antagonist. *J.Med.Chem.* **41** 655. PMID: 9513592.

Thomas et al (1998) Functional characterisation of the human cloned 5-HT₇ 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-HT₇receptor. *Neuropharmacology* **44** 1031. PMID: 12763096.

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