

**Product Name:** SB 258585 hydrochloride

**Catalog No.:** 1961

**Batch No.:** 2

CAS Number: 1216468-02-8

IUPAC Name: 4-Iodo-N-[4-methoxy-3-(4-methyl-1-piperazinyl)phenyl]benzenesulfonamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>22</sub>IN<sub>3</sub>O<sub>3</sub>S.HCl

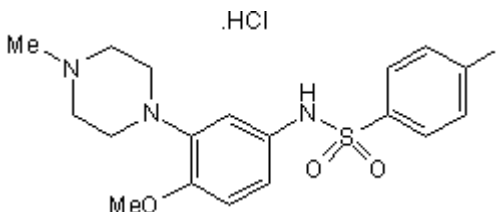
**Batch Molecular Weight:** 523.82

**Physical Appearance:** Cream solid

**Solubility:** water to 10 mM  
DMSO to 50 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.57 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

**Melting Point:** At 232°C

**HPLC:** Shows >99.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	41.27	4.43	8.02
Found	40.99	4.49	7.9

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**Description:**

Potent and selective 5-HT<sub>6</sub> receptor antagonist (pK<sub>i</sub> = 8.6); displays > 160-fold selectivity over other 5-HT receptor subtypes.

**Physical and Chemical Properties:**

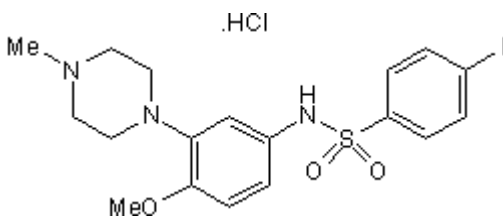
Batch Molecular Formula: C<sub>18</sub>H<sub>22</sub>N<sub>3</sub>O<sub>3</sub>S.HCl

Batch Molecular Weight: 523.82

Physical Appearance: Cream solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

water to 10 mM

DMSO to 50 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:**

**Bromidge et al** (1999) 5-Chloro-N-(4-methoxy-3-piperazin-1-yl-phenyl)-3-methyl-2-benzothiophenesulfonamide (SB-271046): a potent, selective, and orally bioavailable 5-HT<sub>6</sub> receptor antagonist. *J.Med.Chem.* **42** 202. PMID: 9925723.

**Hirst et al** (2000) Characterization of [<sup>125</sup>I]-SB-258585 binding to human recombinant and native 5-HT<sub>6</sub> receptors in rat, pig and human brain tissue. *Br.J.Pharmacol.* **130** 1597. PMID: 10928963.

**East et al** (2002) 5-HT<sub>6</sub> receptor binding sites in schizophrenia and following antipsychotic drug administration: autoradiographic studies with [<sup>125</sup>I]SB-258585. *Synapse* **45** 191. PMID: 12112397.

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