

**Product Name:** SB 399885 hydrochloride

**Catalog No.:** 3189

**Batch No.:** 2

**CAS Number:** 402713-81-9

**IUPAC Name:** *N*-(3,5-Dichloro-2-methoxyphenyl)-4-methoxy-3-(1-piperazinyl)benzenesulfonamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>21</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>4</sub>S.HCl

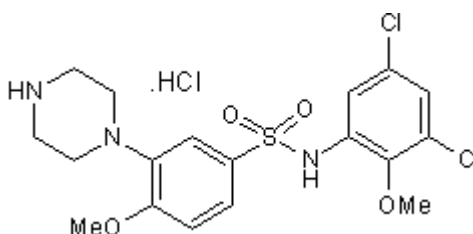
**Batch Molecular Weight:** 482.81

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	44.78	4.59	8.7
Found	44.59	4.92	8.36

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**IUPAC Name:** *N*-(3,5-Dichloro-2-methoxyphenyl)-4-methoxy-3-(1-piperazinyl)benzenesulfonamide hydrochloride

**Description:**

Potent, brain penetrant, orally active 5-HT<sub>6</sub> antagonist. Displays > 200-fold selectivity for 5-HT<sub>6</sub> over other 5-HT receptors (pK<sub>i</sub> values are 9.11, 8.81 and 9.02 for human recombinant, native rat and native human 5-HT<sub>6</sub> receptors respectively).

**Physical and Chemical Properties:**

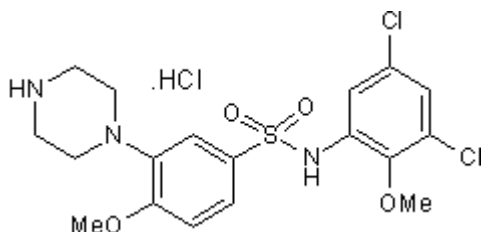
Batch Molecular Formula: C<sub>18</sub>H<sub>21</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>4</sub>S.HCl

Batch Molecular Weight: 482.81

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Hirst et al** (2006) SB-399885 is a potent, selective 5-HT<sub>6</sub> receptor antagonist with cognitive enhancing properties in aged rat water maze and novel object recognition models. *Eur.J.Pharm.* **553** 109.

**Wesolowska and Nikiforuk** (2007) Effects of the brain-penetrant and selective 5-HT<sub>6</sub> receptor antagonist SB-399885 in animal models of anxiety and depression. *Neuropharmacology* **52** 1274. PMID: 17320917.

**Foley et al** (2008) The selective 5-HT<sub>6</sub> receptor antagonists SB-271046 and SB-399885 potentiate NCAM PSA immunolabeling of dentate granule cells, but not neurogenesis, in the hippocampal formation of mature Wistar rats. *Neuropharmacology* **54** 1166. PMID: 18455201.

**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO 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.

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