

Certificate of Analysis

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Product Name: SB 399885 hydrochloride

Catalog No.: 3189

Batch No.: 3

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: C₁₈H₂₁Cl₂N₃O₄S.HCl.¼H₂O

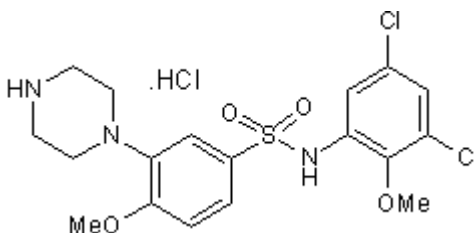
Batch Molecular Weight: 487.31

Physical Appearance: Off 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

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.37	4.65	8.62
Found	44.23	4.62	8.58

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Description:

Potent, brain penetrant, orally active 5-HT₆ antagonist. Displays > 200-fold selectivity for 5-HT₆ over other 5-HT receptors (pK_i values are 9.11, 8.81 and 9.02 for human recombinant, native rat and native human 5-HT₆ receptors respectively).

Physical and Chemical Properties:

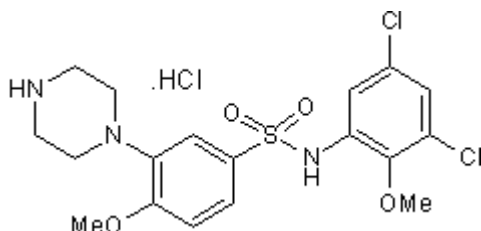
Batch Molecular Formula: C₁₈H₂₁Cl₂N₃O₄S.HCl.½H₂O

Batch Molecular Weight: 487.31

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



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.

References:

Foley et al (2008) The selective 5-HT₆ 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.

Wesolowska and Nikiforuk (2007) Effects of the brain-penetrant and selective 5-HT₆ receptor antagonist SB-399885 in animal models of anxiety and depression. *Neuropharmacology* **52** 1274. PMID: 17320917.

Hirst et al (2006) SB-399885 is a potent, selective 5-HT₆ receptor antagonist with cognitive enhancing properties in aged rat water maze and novel object recognition models. *Eur.J.Pharm.* **553** 109.

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