

## Certificate of Analysis

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**Product Name:** SB 200646 hydrochloride

**Catalog No.:** 1371

**Batch No.:** 4

**CAS Number:** 143797-62-0

**IUPAC Name:** *N*-(1-Methyl-1*H*-indol-5-yl)-*N*-3-pyridinylurea

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>14</sub>N<sub>4</sub>O.HCl.½H<sub>2</sub>O

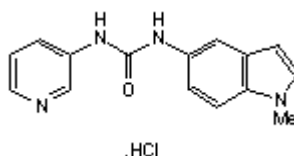
**Batch Molecular Weight:** 311.77

**Physical Appearance:** Fawn solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.45 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

**Melting Point:** Between 177 - 180°C

**HPLC:** Shows >98.3% purity

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

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical	57.79	5.17	17.97	0 0 0
Found	57.55	4.99	17.94	0 0 0

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

## Product Information

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### Description:

5-HT<sub>2C/2B</sub> receptor antagonist, selective over 5-HT<sub>1A</sub>. Affinities are 7.4 (pA<sub>2</sub>), 6.9 (pK<sub>i</sub>) and 5.2 (pK<sub>i</sub>) for 5-HT<sub>2B</sub>, <sub>2C</sub> and <sub>2A</sub> respectively. Orally active in vivo.

### Physical and Chemical Properties:

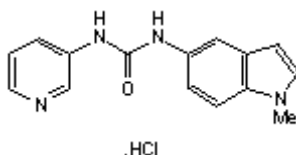
Batch Molecular Formula: C<sub>15</sub>H<sub>14</sub>N<sub>4</sub>O.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 311.77

Physical Appearance: Fawn solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

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:

**Forbes et al** (1993) *N*-(1-Methyl-5-indolyl)-*N'*-(3-pyridyl)urea hydrochloride: the first selective 5-HT<sub>1C</sub> receptor antagonist. *J.Med.Chem.* **36** 1104. PMID: 8478907.

**Kennett et al** (1994) *In vivo* properties of SB 200646A, a 5-HT<sub>2C/2B</sub> receptor antagonist. *Br.J.Pharmacol.* **111** 797. PMID: 7912626.

**Kennett et al** (1995) Effect of SB 200646A, a 5-HT<sub>2C</sub>/5-HT<sub>2B</sub> receptor antagonist, in two conflict models of anxiety. *Psychopharmacology* (Berl.) **118** 178. PMID: 7617805.

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