

## Certificate of Analysis

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**Product Name:** SB 204741

**Catalog No.:** 1372

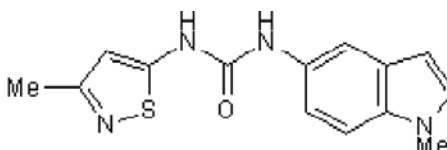
**Batch No.:** 3

CAS Number: 152239-46-8

IUPAC Name: *N*-(1-Methyl-1*H*-indolyl-5-yl)-*N'*-(3-methyl-5-isothiazolyl)urea

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>14</sub>N<sub>4</sub>OS  
**Batch Molecular Weight:** 286.35  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.72	4.93	19.57
Found	58.89	4.94	19.5

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

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**Description:**

Potent and selective 5-HT<sub>2B</sub> receptor antagonist (pA<sub>2</sub> = 7.95). Displays ≥ 135-fold selectivity over 5-HT<sub>2C</sub> (pK<sub>i</sub> = 5.82), 5-HT<sub>2A</sub> (pK<sub>i</sub> < 5.2), 5-HT<sub>1A</sub>, 1D, 1E, 5-HT<sub>3</sub> and 5-HT<sub>4</sub> receptors.

**Physical and Chemical Properties:**

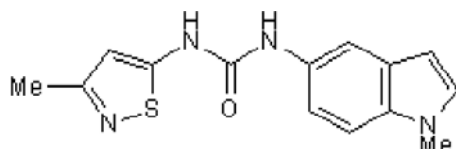
Batch Molecular Formula: C<sub>14</sub>H<sub>14</sub>N<sub>4</sub>OS

Batch Molecular Weight: 286.35

Physical Appearance: Off White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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.

**Licensing Information:**

Sold under license

**References:**

**Ebrahimkhani et al** (2011) Stimulating healthy tissue regeneration by targeting the 5-HT<sub>2B</sub> receptor in chronic liver disease. *Nat.Med.* **17** 1668. PMID: 22120177.

**Glusa and Pertz** (2000) Further evidence that 5-HT-induced relaxation of pig pulmonary artery is mediated by endothelial 5-HT<sub>2B</sub> receptors. *Br.J.Pharmacol.* **130** 692. PMID: 10821800.

**Bonhaus et al** (1995) The pharmacology and distribution of human 5-hydroxytryptamine<sub>2B</sub> (5-HT<sub>2B</sub>) receptor gene products: comparison with 5-HT<sub>2A</sub> and 5-HT<sub>2C</sub> receptors. *Br.J.Pharmacol.* **115** 622. PMID: 7582481.

**Forbes et al** (1995) *N*-(1-Methyl-5-indolyl)-*N'*-(3-methyl-5-isothiazolyl)urea: a novel, high-affinity 5-HT<sub>2B</sub> receptor antagonist. *J.Med.Chem.* **38** 855. PMID: 7699699.

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