

Certificate of Analysis

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Product Name: SB 206553 hydrochloride

Catalog No.: 1661

Batch No.: 4

CAS Number: 1197334-04-5

IUPAC Name: 3,5-Dihydro-5-methyl-*N*-3-pyridinylbenzo[1,2-*b*:4,5-*b'*]dipyrrole-1(2*H*)-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₆N₄O.HCl.¼H₂O

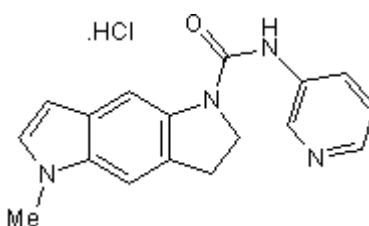
Batch Molecular Weight: 333.3

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [95:5])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.26	5.29	16.81
Found	61.44	4.97	16.73

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

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Description:

Potent and selective 5-HT_{2B}/5-HT_{2C} receptor antagonist (rat 5-HT_{2B} pA₂ = 8.89, human 5-HT_{2C} pK_i = 7.92). Displays > 80-fold selectivity over all other 5-HT receptor subtypes and a variety of other receptors (pK_i < 6). Centrally active following oral administration in vivo.

Physical and Chemical Properties:

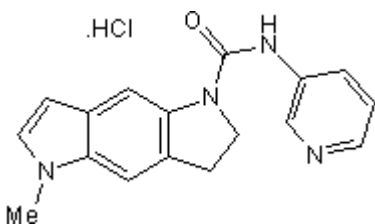
Batch Molecular Formula: C₁₇H₁₆N₄O.HCl.¼H₂O

Batch Molecular Weight: 333.3

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Forbes et al (1995) 5-Methyl-1-(3-pyridylcarbonyl)-1,2,3,5-tetrahydropyrrolo[2,3-*f*]indole: a novel 5-HT_{2C}/5-HT_{2B} receptor antagonist with improved affinity, selectivity and oral activity. *J.Med.Chem.* **38** 2524. PMID: 7629791.

Kennett et al (1996) *In vitro* and *in vivo* profile of SB 206553, a potent 5-HT_{2C}/5-HT_{2B} receptor antagonist with anxiolytic-like properties. *Br.J.Pharmacol.* **117** 427. PMID: 8821530.

Porras et al (2002) 5-HT_{2A} and 5-HT_{2C/2B} receptor subtypes modulate dopamine release induced in vivo by amphetamine and morphine in both the rat nucleus accumbens and striatum. *Neuropsychopharmacology* **26** 311. PMID: 11850146.

Storage: Desiccate 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.

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