

Certificate of Analysis

Product Name: SB 221284

Catalog No.: 1379

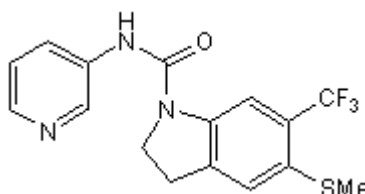
Batch No.: 1

CAS Number: 196965-14-7

IUPAC Name: 2,3-Dihydro-5-(methylthio)-N-3-pyridinyl-6-(trifluoromethyl)-1H-indole-1-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄F₃N₃OS
Batch Molecular Weight: 353.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Dichloromethane:Ethyl acetate [1:1])
Melting Point: Between 263 - 265°C
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
¹³C NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.39	3.99	11.89
Found	54.07	3.96	11.79

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

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Description:

Potent, selective 5-HT_{2C/2B} receptor antagonist. pK_i values are 6.4, 7.9 and 8.6 for 5-HT_{2A}, _{2B} and _{2C} receptors respectively. Centrally active upon systemic administration in vivo.

Physical and Chemical Properties:

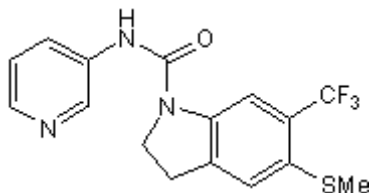
Batch Molecular Formula: C₁₆H₁₄F₃N₃OS

Batch Molecular Weight: 353.36

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Bromidge et al (1998) Novel and selective 5-HT_{2C/2B} receptor antagonists as potential anxiolytic agents: synthesis, quantitative structure-activity relationships, and molecular modeling of substituted 1-(3-pyridylcarbamoyl)indolines. *J.Med.Chem.* **41** 1598. PMID: 9572885.

Hutson et al (2000) Activation of mesolimbic dopamine function by phencyclidine is enhanced by 5-HT_{2C/2B} receptor antagonists: neurochemical and behavioural studies. *Neuropharmacology* **39** 2318. PMID: 10974315.

Bristow et al (2000) Evidence for accelerated desensitisation of 5-HT_{2C} receptors following combined treatment with fluoxetine and the 5-HT_{1A} receptor antagonist, WAY 100,635, in the rat. *Neuropharmacology* **39** 1222. PMID: 10760364.

Storage: Store at +4°C

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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