

# Certificate of Analysis

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**Product Name:** SB 228357

**Catalog No.:** 1375

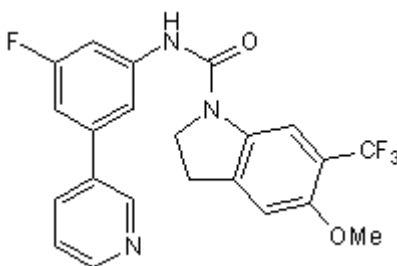
**Batch No.:** 1

CAS Number: 181629-93-6

IUPAC Name: *N*-[3-Fluoro-5-(3-pyridinyl)phenyl]-2,3-dihydro-5-methoxy-6-(trifluoromethyl)-1*H*-indole-1-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>17</sub>F<sub>4</sub>N<sub>3</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 431.39  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.22 (Ethyl acetate:Petroleum ether [8:2])  
**Melting Point:** Between 222 - 223°C  
**HPLC:** Shows >99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**<sup>13</sup>C NMR:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.25	3.97	9.74
Found	61.11	3.69	9.69

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

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**Description:**

5-HT<sub>2C/2B</sub> receptor antagonist (pK<sub>i</sub> values are 7.0, 8.1 and 9.1 at 5-HT<sub>2A</sub>, <sub>2B</sub> and <sub>2C</sub> receptors respectively). Displays inverse agonism in a 5-HT-stimulated PI hydrolysis model of 5-HT<sub>2C</sub> receptor function. Orally active in vivo.

**Physical and Chemical Properties:**

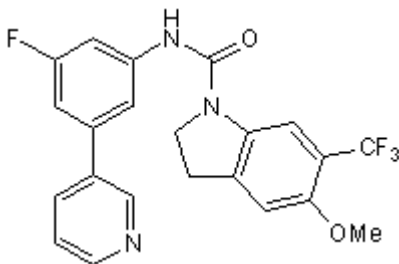
Batch Molecular Formula: C<sub>22</sub>H<sub>17</sub>F<sub>4</sub>N<sub>3</sub>O<sub>2</sub>

Batch Molecular Weight: 431.39

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Reavill *et al*** (1999) Attenuation of haloperidol-induced catalepsy by a 5-HT<sub>2C</sub> receptor antagonist. *Br.J.Pharmacol.* **126** 572. PMID: 10188965.

**Bromidge *et al*** (2000) Biarylcarbamoylindolines are novel and selective 5-HT<sub>2C</sub> receptor inverse agonists: identification of 5-methyl-1-[[2-[(2-methyl-3-pyridyl)oxy]-5-pyridyl]carbamoyl]-6-trifluoromethylindoline (SB-243213) as a potential antidepressant/anxiolytic agent. *J.Med.Chem.* **43** 1123. PMID: 10737744.

**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.

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