

Product Name: SB 242084

Catalog No.: 2901

Batch No.: 3

CAS Number: 1049747-87-6

IUPAC Name: 6-Chloro-2,3-dihydro-5-methyl-N-[6-[(2-methyl-3-pyridinyl)oxy]-3-pyridinyl]-1*H*-indole-1-carboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₉ClN₄O₂·2HCl·½H₂O

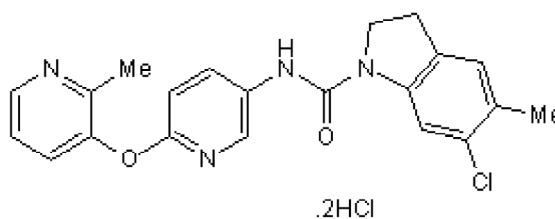
Batch Molecular Weight: 476.79

Physical Appearance: Pale yellow solid

Solubility: DMSO to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Methanol [9:1])

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.9	4.65	11.75
Found	53.09	4.73	11.7

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Description:

SB 242084 is a 5-HT_{2C} receptor antagonist that displays 158- and 100-fold selectivity over 5-HT_{2A} and 5-HT_{2B} receptors respectively. Also displays selectivity over a range of other 5-HT, dopamine and adrenergic receptors. Brain penetrant; exerts anxiolytic-like activity.

Physical and Chemical Properties:

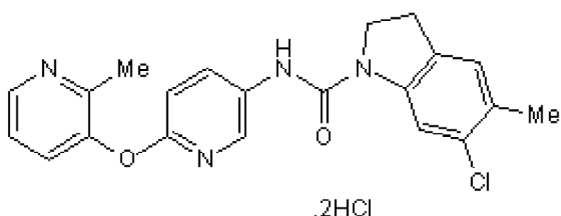
Batch Molecular Formula: C₂₁H₁₉ClN₄O₂·2HCl·½H₂O

Batch Molecular Weight: 476.79

Physical Appearance: Pale yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 50 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 with the permission of GlaxoSmithKline

References:

Dalton et al (2006) Serotonin 1B and 2C receptor interactions in the modulation of feeding behaviour in the mouse. *Psychopharmacology* **185** 45. PMID: 16470405.

Bromidge et al (1997) 6-Chloro-5-methyl-1-[[[(2-methyl-3-pyridyl)oxy]-5-pyridyl]carbamoyl]-indoline (SB-242084): the first selective and brain penetrant 5-HT_{2C} receptor antagonist. *J.Med.Chem.* **40** 3494. PMID: 9357513.

Kennet et al (1997) SB 242084, a selective and brain penetrant 5-HT_{2C} receptor antagonist. *Neuropharmacology* **36** 609. PMID: 9225286.

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