

Certificate of Analysis

Product Name: EMD 386088 hydrochloride

Catalog No.: 2382

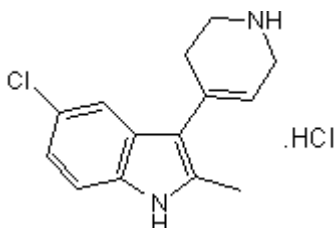
Batch No.: 1

CAS Number: 1171123-46-8

IUPAC Name: 5-Chloro-2-methyl-3-(1,2,3,6-tetrahydro-4-pyridinyl)-1*H*-indole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₅N₂Cl.HCl
Batch Molecular Weight: 283.2
Physical Appearance: Yellow solid
Solubility: water to 25 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 273 - 283°C
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	59.38	5.69	9.89	25.04
Found	59.15	5.67	9.81	25.01

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

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Description:

Potent 5-HT₆ receptor agonist (EC₅₀ = 1.0 nM) that displays selectivity over other 5-HT receptors (IC₅₀ values are 7.4, 110, 180, 240, 450, 620, 660 and 3000 nM for 5-HT₆, 5-HT_{1D}, 5-HT_{1B}, 5-HT_{2A}, 5-HT_{2C}, 5-HT₄, 5-HT_{1A} and 5-HT₇ receptors respectively). Shows moderate affinity at 5-HT₃ receptors (IC₅₀ = 34 nM).

Physical and Chemical Properties:

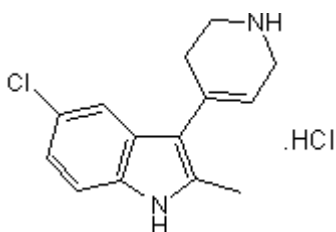
Batch Molecular Formula: C₁₄H₁₅N₂Cl.HCl

Batch Molecular Weight: 283.2

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Mattsson et al (2005) 2-Alkyl-3-(1,2,3,6-tetrahydropyridin-4-yl)-1*H*-indoles as novel 5-HT₆ receptor agonists. *Bioorg.Med.Chem.Lett.* **15** 4230. PMID: 16055331.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 mM
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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