

**Product Name:** EMD 386088 hydrochloride

**Catalog No.:** 2382

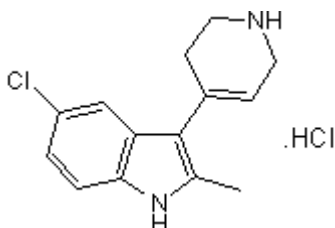
**Batch No.:** 1

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:** C<sub>14</sub>H<sub>15</sub>N<sub>2</sub>Cl.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  
**<sup>1</sup>H 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

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

**Description:**

Potent 5-HT<sub>6</sub> receptor agonist (EC<sub>50</sub> = 1.0 nM) that displays selectivity over other 5-HT receptors (IC<sub>50</sub> values are 7.4, 110, 180, 240, 450, 620, 660 and 3000 nM for 5-HT<sub>6</sub>, 5-HT<sub>1D</sub>, 5-HT<sub>1B</sub>, 5-HT<sub>2A</sub>, 5-HT<sub>2C</sub>, 5-HT<sub>4</sub>, 5-HT<sub>1A</sub> and 5-HT<sub>7</sub> receptors respectively). Shows moderate affinity at 5-HT<sub>3</sub> receptors (IC<sub>50</sub> = 34 nM).

**Physical and Chemical Properties:**

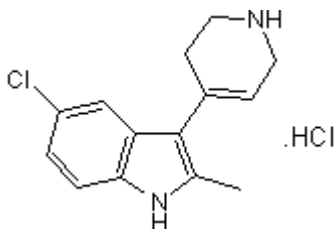
Batch Molecular Formula: C<sub>14</sub>H<sub>15</sub>N<sub>2</sub>Cl.HCl

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-HT<sub>6</sub> 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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