1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}14\text{H}15\text{N}2\text{Cl}\cdot\text{HCl} \)

Batch Molecular Weight: 283.2

Physical Appearance: Yellow solid

Solubility: water to 25 mM

DMSO to 100 mM

Storage: Desiccate at RT

2. ANALYTICAL DATA

Melting Point: Between 273 - 283°C

HPLC: Shows >99.4% purity

\(^1\text{H NMR:}\) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Chlorine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>59.38</td>
<td>5.69</td>
<td>9.89</td>
<td>25.04</td>
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<tr>
<td>Found</td>
<td>59.15</td>
<td>5.67</td>
<td>9.81</td>
<td>25.01</td>
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</table>
**Product Name:** EMD 386088 hydrochloride

**CAS Number:** 1171123-46-8

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

**Description:**
Potent 5-HT₆ receptor agonist (EC₂₀ = 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-HT₁D, 5-HT₁B, 5-HT₂A, 5-HT₂C, 5-HT₄, 5-HT₅A 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%

**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.

**References:**