Product Name: SCH 23390 hydrochloride
Catalog No.: 0925     Batch No.: 15

CAS Number: 125941-87-9
IUPAC Name: (R)-(+)\-7-Chloro-8-hydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{17}\text{H}_{18}\text{ClNO.HCl} \)
   Batch Molecular Weight: 324.24
   Physical Appearance: White solid
   Solubility:
   - Water to 100 mM with gentle warming
   - Ethanol to 50 mM
   - DMSO to 100 mM
   Storage: Desiccate at +4°C
   Batch Molecular Structure:

   ![Chemical Structure](image)

2. ANALYTICAL DATA

   TLC: \( R_f = 0.33 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
   HPLC: Shows 100% purity
   Chiral HPLC: Shows 100% purity
   \(^1H\) NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Optical Rotation: \([\alpha]_D = +30.8\) (Concentration = 1, Solvent = DMF)
   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>52.97</td>
<td>5.91</td>
<td>4.32</td>
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<tr>
<td>Found</td>
<td>62.95</td>
<td>5.83</td>
<td>4.41</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** SCH 23390 hydrochloride

**CAS Number:** 125941-87-9

**IUPAC Name:** (R)-(+)-7-Chloro-8-hydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride

**Description:**
Potent dopamine receptor antagonist (Ki values are 0.2 nM and 0.3 nM at D1 and D2 receptor sub-types, respectively). Also an agonist at 5-HT1C and 5-HT2C receptors in vitro (Ki values are 6.3 nM and 9.3 nM respectively). Blocks quinpirole-induced K+3 (GIRK) currents (EC50 = 268 nM) independently of receptors.

**Physical and Chemical Properties:**
Batch Molecular Formula: C17H16ClNO.HCl
Batch Molecular Weight: 324.24
Physical Appearance: White solid
Minimum Purity: >98%

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**
- Water to 100 mM with gentle warming
- Ethanol to 50 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:**