Product Name: SKF 86466 hydrochloride
Catalog No.: 3866  Batch No.: 1
CAS Number: 86129-54-6
IUPAC Name: 6-Chloro-N-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{11}H_{14}ClN.HCl
Batch Molecular Weight: 232.15
Physical Appearance: Off-white solid
Solubility:
- water to 100 mM
- DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: R_f = 0.52 (Chloroform:Methanol [9:1])
HPLC: Shows 98.6% purity
^1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>56.91</td>
<td>6.51</td>
<td>6.03</td>
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<tr>
<td>Found</td>
<td>57</td>
<td>6.58</td>
<td>5.99</td>
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</tbody>
</table>
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CAS Number: 86129-54-6  
IUPAC Name: 6-Chloro-N-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride

**Description:**
Potent and selective $\alpha_2$ antagonist at pre- and post-junctional $\alpha_2$ adrenoceptors ($K_i$ values are 13 and 17 nM respectively). Exhibits antihypertensive activity in a rat model.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C$_{11}$H$_{12}$ClN.HCl
- **Batch Molecular Weight:** 232.15
- **Physical Appearance:** Off-white solid
- **Minimum Purity:** >98%
- **Physical and Chemical Structure:**

```
\begin{center}
\includegraphics[width=0.2\textwidth]{structure.png}
\end{center}
```

**Storage:** Desiccate at RT

**Solubility & Usage Info:**
- water to 100 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:**