Product Name: Tacrine hydrochloride
Catalog No.: 0965
Batch No.: 4

CAS Number: 1684-40-8
EC Number: 216-867-5
IUPAC Name: 1,2,3,4-Tetrahydro-5-aminoacridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: \( \text{C}_{13}\text{H}_{14}\text{N}_{2}\text{HCl}\cdot\text{H}_{2}\text{O} \)
- Batch Molecular Weight: 252.75
- Physical Appearance: White solid
- Solubility: water to 100 mM
  DMSO to 100 mM
- Storage: Desiccate at +4°C
- Batch Molecular Structure:

2. ANALYTICAL DATA

- HPLC: Shows 100% purity
- \(^1\text{H NMR:} \) Consistent with structure
- Mass Spectrum: Consistent with structure
- Microanalysis:
  
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
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<td>Hydrogen</td>
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<tr>
<td>Found</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Tacrine hydrochloride
Catalog No.: 0965

CAS Number: 1684-40-8
IUPAC Name: 1,2,3,4-Tetrahydro-5-aminoacridine hydrochloride

EC Number: 216-867-5

Description:
Potent cholinesterase inhibitor, a cognition enhancer in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{13}H_{14}N_{2}HCl.H_{2}O
Batch Molecular Weight: 252.75
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at +4°C

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:
Merck Index 12 9199.


