1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{24}\text{H}_{29}\text{NO}_{3}\cdot\text{HCl} \)
   Batch Molecular Weight: 415.95
   Physical Appearance: White solid
   Solubility:
   - Water to 75 mM
   - DMSO to 10 mM
   - Ethanol to 10 mM
   Storage: Desiccate at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 100% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>69.3</td>
<td>69.46</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.27</td>
<td>7.27</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>3.37</td>
<td>3.52</td>
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</tbody>
</table>
**Description:**
Potent acetylcholinesterase inhibitor (IC$_{50}$ = 5.7 nM). Displays 1252-fold selectivity for AChE over BuChE (IC$_{50}$ = 7138 nM for BuChE). Orally active.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C$_{24}$H$_{29}$NO$_5$.HCl
- Batch Molecular Weight: 415.95
- Physical Appearance: White solid
- Minimum Purity: >99%

**Storage:** Desiccate at RT

**Solubility & Usage Info:**
- water to 75 mM
- DMSO to 10 mM
- ethanol to 10 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:**