Product Name: Biperiden hydrochloride
Catalog No.: 2853
Batch No.: 1
CAS Number: 1235-82-1
EC Number: 214-976-2
IUPAC Name: \( \alpha \)-Bicyclo[2.2.1]hept-5-en-2-yl-\( \alpha \)-phenyl-1-piperidinepropanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES
   
   **Batch Molecular Formula:** \( \text{C}_{21}\text{H}_{29}\text{NO}.\text{HCl} \)
   **Batch Molecular Weight:** 347.92
   **Physical Appearance:** White solid
   **Solubility:**
   - Water to 5 mM
   - DMSO to 10 mM
   **Storage:** Desiccate at +4°C
   **Batch Molecular Structure:**

2. ANALYTICAL DATA
   
   **HPLC:** Shows 99.9% purity
   **\(^1\)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>
</tr>
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<tbody>
<tr>
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<td>72.5</td>
<td>8.7</td>
<td>4.03</td>
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<tr>
<td>Found</td>
<td>72.61</td>
<td>8.65</td>
<td>3.96</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Tel:+1 612 379 2956
Product Name: Biperiden hydrochloride
Catalog No.: 2853
Batch No.: 1
EC Number: 214-976-2

CAS Number: 1235-82-1
IUPAC Name: α-Bicyclo[2.2.1]hept-5-en-2-yl-α-phenyl-1-piperidinepropanol hydrochloride

Description:
Muscarinic receptor antagonist that displays some selectivity for the M<sub>1</sub> subtype (K<sub>i</sub> values are 0.48, 2.4, 3.9, 6.3 and 6.3 nM for M<sub>1</sub>, M<sub>4</sub>, M<sub>3</sub>, M<sub>2</sub> and M<sub>5</sub> receptors respectively). Alleviates extrapyramidal symptoms associated with antipsychotic drugs. Displays antiparkinsonian activity.

Physical and Chemical Properties:
Batch Molecular Formula: C<sub>21</sub>H<sub>26</sub>NO.HCl
Batch Molecular Weight: 347.92
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at +4°C

Solubility & Usage Info:
water to 5 mM
DMSO 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: