1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( C_{10}H_{16}N_{2}O \cdot \frac{1}{2} C_{4}H_{4}O_{4} \)
- **Batch Molecular Weight:** 238.29
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 25 mM, ethanol to 25 mM, water to 25 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.8 \) (Chloroform:Methanol:Ammonia soln. [80:18:2])
- **HPLC:** Shows 99.1% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>60.49</td>
<td>60.38</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.61</td>
<td>7.57</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.76</td>
<td>11.75</td>
</tr>
</tbody>
</table>
**Product Information**

**Product Name:** Rilmenidine hemifumarate

**CAS Number:** 207572-68-7

**IUPAC Name:** 2-[\(\text{N}-\text{(Dicyclopropylmethyl)amino}\)]oxazoline hemifumarate

**Catalog No.:** 0790

**EC Number:** 259-021-0

**Batch No.:** 4

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**Description:**

\(I_1\)-imidazoline binding site selective ligand and \(\alpha_2\)-adrenoceptor agonist. Possesses greater \(I_1\) vs \(\alpha_2\) selectivity than the prototypical compound, clonidine. Also thought to enhance autophagy; shown to increase LC3-II levels in PC12 cells.

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** \(\text{C}_{10}\text{H}_{16}\text{N}_2\text{O} \cdot \frac{1}{2}\text{C}_4\text{H}_4\text{O}_4\)
- **Batch Molecular Weight:** 238.29
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%
- **Batch Molecular Structure:**

![Batch Molecular Structure](image)

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**Storage:** Store at -20°C

**Solubility & Usage Info:**

- DMSO to 25 mM
- Ethanol to 25 mM
- Water to 25 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.

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**References:**