Product Name: Oxotremorine sesquifumarate
Catalog No.: 0843 Batch No.: 5
CAS Number: 17360-35-9
IUPAC Name: 1-[4-(1-Pyrrolidinyl)-2-butynyl]-2-pyrrolidinone sesquifumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{12}H_{18}N_{2}O_{1.5}C_{4}H_{4}O_{4}
Batch Molecular Weight: 380.4
Physical Appearance: White solid
Solubility: water to 25 mM phosphate buffered saline to 25 mM DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.1% 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>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>56.83</td>
<td>6.36</td>
<td>7.36</td>
</tr>
<tr>
<td>Found</td>
<td>56.78</td>
<td>6.29</td>
<td>7.32</td>
</tr>
</tbody>
</table>
Product Information

Product Name: Oxotremorine sesquifumarate
Catalog No.: 0843    Batch No.: 5

CAS Number: 17360-35-9
IUPAC Name: 1-[4-(1-Pyrrolidinyl)-2-butynyl]-2-pyrrolidinone sesquifumarate

Description:
Muscarinic agonist.

Physical and Chemical Properties:
Batch Molecular Formula: C_{12}H_{18}N_{2}O.1.5C_{4}H_{4}O_{4}
Batch Molecular Weight: 380.4
Physical Appearance: White solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
- water to 25 mM
- phosphate buffered saline to 25 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 7085.