

Certificate of Analysis

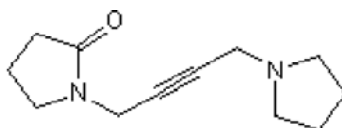
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Product Name: Oxotremorine sesquifumarate
CAS Number: 17360-35-9
IUPAC Name: 1-[4-(1-Pyrrolidinyl)-2-butyne]-2-pyrrolidinone sesquifumarate

Catalog No.: 0843 **Batch No.:** 7
EC Number: 241-388-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₈N₂O.1.5C₄H₄O₄
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
Batch Molecular Structure:



.1½C₄H₄O₄

2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.83	6.36	7.36
Found	56.93	6.39	7.49

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

Product Information

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Catalog No.: 0843

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IUPAC Name: 1-[4-(1-Pyrrolidinyl)-2-butyne]-2-pyrrolidinone sesquifumarate

Description:

Muscarinic agonist.

Physical and Chemical Properties:

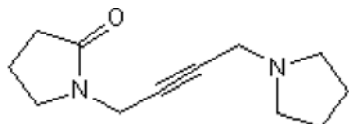
Batch Molecular Formula: C₁₂H₁₈N₂O.1.5C₄H₄O₄

Batch Molecular Weight: 380.4

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



.1 ½ C₄H₄O₄

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:

Moroi-Fetters et al (1988) Muscarinic receptor-mediated phosphoinositide hydrolysis in the rat retina. *J.Pharmacol.Exp.Ther.* **246** 553. PMID: 2841451.

Fisher et al (1984) Differential stimulation in inositol phospholipid turnover in brain by analogs of oxotremorine. *J.Neurochem.* **43** 1171. PMID: 6088696.

Merck Index **12** 7085.

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