

Certificate of Analysis

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Product Name: Arecaidine but-2-ynyl ester tosylate

Catalog No.: 0382

Batch No.: 1

CAS Number: 119630-77-2

IUPAC Name: *N*-Methyl-1,2,5,6-tetrahydropyridine-3-carboxylic acid but-2-ynyl ester tosylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₅NO₂·C₇H₈SO₃

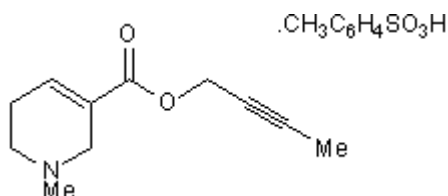
Batch Molecular Weight: 365.44

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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Description:

Potent muscarinic agonist, 4.6-fold selective for M₂ receptors in the atrium versus those in the ileum.

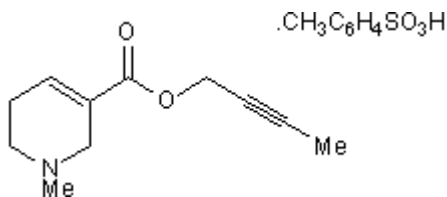
Physical and Chemical Properties:

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Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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:

Barlow and Weston-Smith (1985) The relative potencies of some agonists at M₂ muscarinic receptors in guinea pig ileum, atria and bronchi. *Br.J.Pharmacol.* **85** 437. PMID: 3896364.

Moser et al (1989) Structure-activity relationships of new analogues of arecaidine propargyl ester at muscarinic M₁ and M₂ receptor subtypes. *Br.J.Pharmacol.* **96** 319. PMID: 2924082.

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