

## Certificate of Analysis

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**Product Name:** Arecaidine propargyl ester tosylate

**Catalog No.:** 0383

**Batch No.:** 2

CAS Number: 147202-94-6

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>10</sub>H<sub>13</sub>NO<sub>2</sub>·C<sub>7</sub>H<sub>8</sub>SO<sub>3</sub>

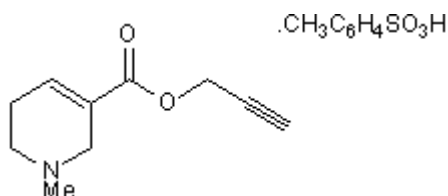
**Batch Molecular Weight:** 351.42

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure

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

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**Description:**

A potent muscarinic receptor agonist. Shows some selectivity for cardiac versus ileal M<sub>2</sub> receptors.

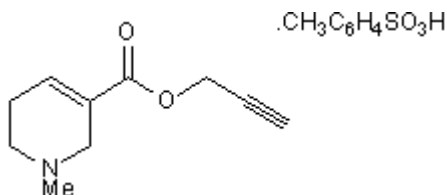
**Physical and Chemical Properties:**

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Batch Molecular Weight: 351.42

Physical Appearance: White solid

**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:**

**Moser et al** (1989) Structure-activity relationships of new analogues of arecaidine propargyl ester at muscarinic M<sub>1</sub> and M<sub>2</sub> receptor subtypes. *Br.J.Pharmacol.* **96** 319. PMID: 2924082.

**Barlow and Weston-Smith** (1985) The relative potencies of some agonists at M<sub>2</sub> muscarinic receptors in guinea pig ileum, atria and bronchi. *Br.J.Pharmacol.* **85** 437. PMID: 3896364.

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