

# Certificate of Analysis

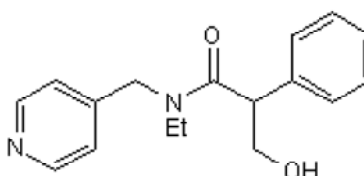
[www.tocris.com](http://www.tocris.com)

**Product Name:** Tropicamide  
**CAS Number:** 1508-75-4  
**IUPAC Name:** *N*-Ethyl-3-hydroxy-2-phenyl-*N*-(pyridinylmethyl)propanamide

**Catalog No.:** 0909  
**Batch No.:** 3  
**EC Number:** 216-140-2

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 284.36  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	71.81	7.09	9.85
Found	71.82	7.2	9.77

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

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## Product Information

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**Product Name:** Tropicamide

**Catalog No.:** 0909

**Batch No.:** 3

CAS Number: 1508-75-4

EC Number: 216-140-2

IUPAC Name: *N*-Ethyl-3-hydroxy-2-phenyl-*N*-(pyridinylmethyl)propanamide

### Description:

Tropicamide is an M<sub>4</sub> selective muscarinic receptor antagonist.

### Physical and Chemical Properties:

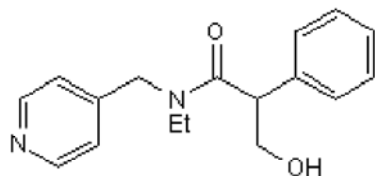
Batch Molecular Formula: C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 284.36

Physical Appearance: White solid

**Minimum Purity:** ≥98%

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

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:

**Hernandez *et al*** (1993) Different muscarinic receptor subtypes mediating the phasic activity and basal tone of pig isolated intravesical ureter. *Br.J.Pharmacol.* **110** 1413. PMID: 7905771.

**Lazareno *et al*** (1990) Characterisation of muscarinic M<sub>4</sub> binding sites in rabbit lung, chicken heart and NG 108-15 cells. *Mol.Pharmacol.* **38** 805. PMID: 2250662.

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