# TOCRIS a biotechne brand

Batch No.: 2

# **Certificate of Analysis**

## www.tocris.com

Catalog No.: 1384

## Product Name: McN-A 343

CAS Number: IUPAC Name: 55-45-8

4-[[[(3-Chlorophenyl)amino]carbonyl]oxy]-N,N,N-trimethyl-2-butyn-1-aminium chloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C<sub>14</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub> 317.21 White solid water to 100 mM Desiccate at RT

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## 2. ANALYTICAL DATA

HPLC:	Shows 100% purity			
<sup>1</sup> H NMR:	Consistent with structure			
Mass Spectrum:	Consistent with structure			
Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	53.01	5.72	8.83
	Found	53.04	5.76	8.85

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

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## Print Date: Jan 13th 2016

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### **Description:**

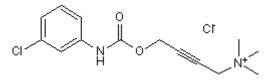
Selective muscarinic  $M_1$  receptor agonist. Selectivity for  $M_1$  over other muscarinic receptor types appears to arise from a high efficacy at  $M_1$  receptors.

## Physical and Chemical Properties:

Batch Molecular Formula:  $C_{14}H_{18}Cl_2N_2O_2$ Batch Molecular Weight: 317.21 Physical Appearance: White solid

Minimum Purity: >99%

**Batch Molecular Structure:** 



### Storage: Desiccate 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).

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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:**

**Micheletti and Schiavone** (1990) Functional determination of McN-A-343 affinity for M<sub>1</sub> muscarinic receptors. J.Pharmacol.Exp.Ther. **253** 310. PMID: 1691785.

Eglen et al (1996) Muscarinic receptor subtypes and smooth muscle function. Pharmacol.Rev. 48 531. PMID: 8981565.

**Davies** *et al* (2001) Inhibition of field stimulation-induced contractions of rabbit vas deferens by muscarinic receptor agonists: selectivity of McN-A-343 for  $M_1$  receptors. J.Pharm.Pharmacol. **53** 487. PMID: 11341365.

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