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: C₁₄H₁₈Cl₂N₂O₂ 317.21 White solid water to 100 mM Desiccate at RT

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2. ANALYTICAL DATA

HPLC:	Shows 100% purity			
¹ 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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4-[[[(3-Chlorophenyl)amino]carbonyl]oxy]-N,N,N-trimethyl-2-butyn-1-aminium chloride

Description:

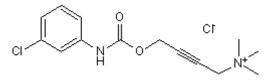
Selective muscarinic M_1 receptor agonist. Selectivity for M_1 over other muscarinic receptor types appears to arise from a high efficacy at M_1 receptors.

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 M₁ 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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