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CAS Number:

Certificate of Analysis

www.tocris.com

Carbamoylcholine chloride Product Name:

51-83-2

Catalog No.: 2810 EC Number: 200-127-3 Batch No.: 7

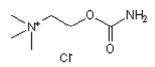
IUPAC Name: (2-Hydroxyethyl)trimethylammonium chloride carbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

 $C_6H_{15}CIN_2O_2$. 182.65 White solid water to 100 mM DMSO to 50 mM Desiccate at RT





2. ANALYTICAL DATA

¹ H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	Carbon Hydrogen Nitrogen
	Theoretical 39.46 8.28 15.34
	Found 39.62 8.33 15.11

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

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Print Date: Jul 12th 2022

TOCRIS a biotechne brand

Product Information

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Print Date: Jul 12th 2022

Batch No.: 7

Product Name: Carbamoylcholine chloride

CAS Number:51-83-2IUPAC Name:(2-Hydroxyethyl)trimethylammonium chloride carbamate

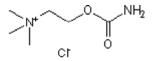
Description:

Carbamoylcholine chloride is a cholinergic receptor agonist that is resistant to the action of cholinesterases. Blocks apoptosis in cerebellar granule neurons.

Physical and Chemical Properties:

Batch Molecular Formula: C₆H₁₅ClN₂O₂. Batch Molecular Weight: 182.65 Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM DMSO to 50 mM CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival.

Catalog No.: 2810

EC Number: 200-127-3

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:

Yan et al (1995) Activation of muscarinic cholinergic receptors blocks apoptosis of cultured cerebellar granule neurons. Mol.Pharmacol. 47 248. PMID: 7870032.

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