

Certificate of Analysis

www.tocris.com

Product Name: Acetylcholine chloride

Catalog No.: 2809

Batch No.: 5

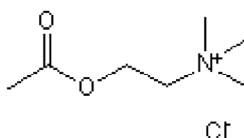
CAS Number: 60-31-1

EC Number: 200-468-8

IUPAC Name: 2-(Acetyloxy)-*N,N,N*-trimethylethanaminium chloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₁₆ClNO₂
Batch Molecular Weight: 181.66
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

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Catalog No.: 2809

Batch No.: 5

CAS Number: 60-31-1

EC Number: 200-468-8

IUPAC Name: 2-(Acetyloxy)-N,N,N-trimethylethanaminium chloride

Description:

Acetylcholine chloride is an endogenous neurotransmitter. Acts at nicotinic and muscarinic acetylcholine receptors.

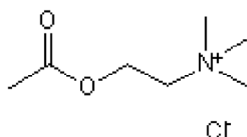
Physical and Chemical Properties:

Batch Molecular Formula: C₇H₁₆ClNO₂

Batch Molecular Weight: 181.66

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is very hygroscopic and we recommend that it is desiccated upon arrival.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Wessler *et al* (1999) The cholinergic 'pitfall': acetylcholine, a universal cell molecule in biological systems, including humans. *Clin.Exp.Pharmacol.Physiol.* **26** 198. PMID: 10081614.

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