

Certificate of Analysis

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Product Name: Mecamylamine hydrochloride

Catalog No.: 2843

Batch No.: 4

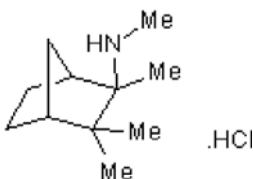
CAS Number: 110691-49-1

EC Number: 212-555-8

IUPAC Name: *N*,2,3,3-Tetramethylbicyclo[2.2.1]heptan-2-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₂₁N.HCl
Batch Molecular Weight: 203.75
Physical Appearance: White solid
Solubility: water to 100 mM
 DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.84	10.88	6.87
Found	64.76	10.94	7.01

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

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IUPAC Name: *N*,2,3,3-Tetramethylbicyclo[2.2.1]heptan-2-amine hydrochloride

Description:

Mecamylamine hydrochloride is a non-competitive nicotinic acetylcholine receptor antagonist. Displays antidepressant-like effects in mice.

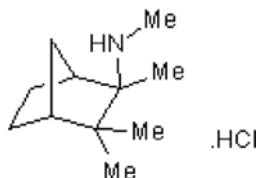
Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₂₁N.HCl

Batch Molecular Weight: 203.75

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

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:

Ostromov et al (2007) Modeling study of mecamylamine block of muscle type acetylcholine receptors. *Eur.Biophys.J.* **37** 393. PMID: 17938901.

Rabenstein et al (2006) The nicotinic antagonist mecamylamine has antidepressant-like effects in wild-type but not β2- or α7-nicotinic acetylcholine receptor subunit knockout mice. *Psychopharmacol.* **189** 395.

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techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

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Europe Middle East Africa

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Tel:+1 612 379 2956