

Certificate of Analysis

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Product Name: TC 1698 dihydrochloride

Catalog No.: 2518

Batch No.: 1

CAS Number: 787587-06-8

IUPAC Name: 2-(3-Pyridinyl)-1-azabicyclo[3.2.2]nonane dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{18}N_2 \cdot 2HCl \cdot \frac{1}{4}H_2O$

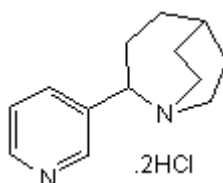
Batch Molecular Weight: 279.72

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 55.82 | 7.39 | 10.01 |
| Found | 55.84 | 7.51 | 9.8 |

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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Description:

Selective nicotinic $\alpha 7$ receptor agonist (EC_{50} = 440 nM). Also displays weak partial agonist/antagonist activity at β -subunit-containing receptors. Neuroprotective.

Physical and Chemical Properties:

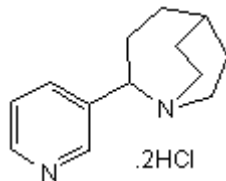
Batch Molecular Formula: $C_{13}H_{18}N_2 \cdot 2HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 279.72

Physical Appearance: White solid

Minimum Purity: >98%

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).

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:

Marrero et al (2004) The neuroprotective effect of 2-(3-Pyridyl)-1-azabicyclo[3.2.2]nonane (TC-1698), a novel $\alpha 7$ ligand, is prevented through angiotensin II activation of a tyrosine phosphatase. *J.Pharmacol.Exp.Ther.* **309** 16. PMID: 14722323.

Papke et al (2005) Rhesus monkey $\alpha 7$ nicotinic acetylcholine receptors: comparisons to human $\alpha 7$ receptors expressed in *Xenopus* oocytes. *Eur.J.Pharmacol.* **524** 11. PMID: 16266703.

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North America

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