

Certificate of Analysis

Product Name: 4,4-Pentamethylenepiperidine hydrochloride

Catalog No.: 3692

Batch No.: 1

CAS Number: 1125-01-5

IUPAC Name: 3-Azaspiro[5.5]undecane hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₉N.HCl.¾H₂O

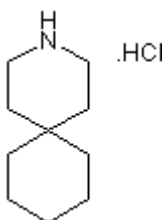
Batch Molecular Weight: 203.24

Physical Appearance: Off-white solid

Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	59.1	10.66	6.89
Found	59.28	10.32	6.77

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

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Description:

M2 proton channel blocker ($IC_{50} = 0.92 \mu M$). Inhibits influenza virus M2 protein (AM2).

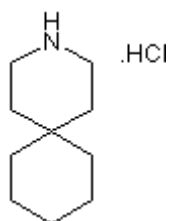
Physical and Chemical Properties:

Batch Molecular Formula: $C_{10}H_{19}N.HCl.3/4H_2O$

Batch Molecular Weight: 203.24

Physical Appearance: Off-white solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

ethanol to 100 mM

CAUTION - This product is 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. 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:

Wang et al (2009) Discovery of spiro-piperidine inhibitors and their modulation of the dynamics of the M2 proton channel from Influenza A Virus. *J.Am.Chem.Soc.* **131** 8066. PMID: 19469531.

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