

Certificate of Analysis

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Product Name: L-NIL hydrochloride

Catalog No.: 1139

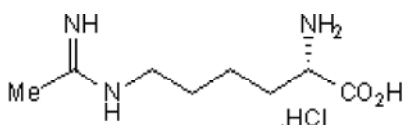
Batch No.: 2

CAS Number: 150403-89-7

IUPAC Name: *N*⁶-(1-Iminoethyl)-L-lysine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₇N₃O₂.HCl.H₂O
Batch Molecular Weight: 241.72
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.26 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Between 208 - 210°C
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = +11.5 (Concentration = 1.1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.75	8.34	17.38
Found	40.02	8.45	17.39

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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Catalog No.: 1139

Batch No.: 2

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Description:

A selective inhibitor of inducible nitric oxide synthase (IC₅₀ = 3.3 μM).

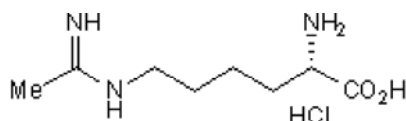
Physical and Chemical Properties:

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Physical Appearance: White crystalline solid

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Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

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:

Connor et al (1995) Suppression of adjuvant-induced arthritis by selective inhibition of inducible nitric oxide synthase. *Eur.J.Pharmacol.* **273** 15. PMID: 7537678.

Moore et al (1994) L-N⁶-(1-Iminoethyl)lysine: a selective inhibitor of inducible nitric oxide synthase. *J.Med.Chem.* **37** 3886. PMID: 7525961.

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North America

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