

Certificate of Analysis

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Product Name: L-NNA

Catalog No.: 0664

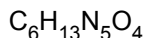
Batch No.: 2

CAS Number: 2149-70-4

IUPAC Name: NG-Nitro-L-arginine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:



Batch Molecular Weight:

219.2

Physical Appearance:

Off-white solid

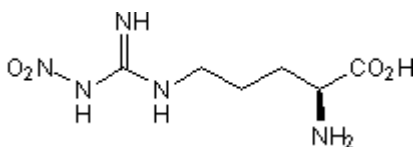
Solubility:

water to 5 mM

Storage:

Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC:

$R_f = 0.34$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point:

At 245°C

HPLC:

Shows 100% purity

¹H NMR:

Consistent with structure

Optical Rotation:

$[\alpha]_D = +24$ (Concentration = 4, Solvent = 2N HCl)

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	32.88	5.98	31.93
Found	32.81	6.02	31.89

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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Product Name: L-NNA

Catalog No.: 0664

Batch No.: 2

CAS Number: 2149-70-4

IUPAC Name: NG-Nitro-L-arginine

Description:

NO synthase inhibitor.

Physical and Chemical Properties:

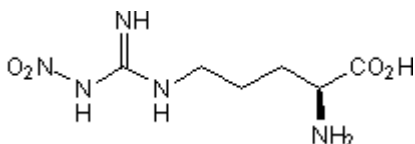
Batch Molecular Formula: C₆H₁₃N₅O₄

Batch Molecular Weight: 219.2

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 5 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:

Dwyer et al (1991) Nitric oxide synthase: irreversible inhibition by L-NG-nitroarginine in brain *in vitro* and *in vivo*. *Biochem.Biophys.Res.Commun.* **176** 1136. PMID: 1710109.

Knowles et al (1994) Nitric oxide synthases in mammals. *Biochem.J.* **298** 249. PMID: 7510950.

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