

Certificate of Analysis

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Product Name: L-NAME hydrochloride

Catalog No.: 0665

Batch No.: 7

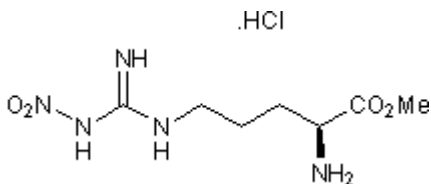
CAS Number: 51298-62-5

EC Number: 257-116-1

IUPAC Name: NG-Nitro-L-arginine methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₁₅N₅O₄.HCl
Batch Molecular Weight: 269.69
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +15.8 (Concentration = 3, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	31.18	5.98	25.97
Found	31.15	6.07	26.28

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

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IUPAC Name: NG-Nitro-L-arginine methyl ester hydrochloride

Description:

NO synthase inhibitor.

Physical and Chemical Properties:

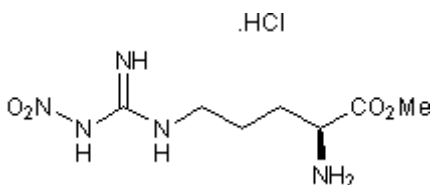
Batch Molecular Formula: C₇H₁₅N₅O₄.HCl

Batch Molecular Weight: 269.69

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store 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:

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

Pfeiffer *et al* (1996) Inhibition of nitric oxide synthesis by N^G-nitro-L-arginine methyl ester (L-NAME): requirement for bioactivation to the free acid, N^G-nitro-L-arginine. *Br.J.Pharmacol.* **118** 1433. PMID: 8832069.

Moore and Handy (1997) Selective inhibitors of neuronal nitric oxide synthase - is no NOS really good NOS for the nervous system? *TIPS* **18** 204. PMID: 9226999.

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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