Certificate of Analysis

Product Name: **N^2-Methyl-L-arginine** **Catalog No.: 3513** **Batch No.: 1**

CAS Number: 2480-28-6

IUPAC Name: N^2-Methyl-L-arginine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_7H_{16}N_4O_2.¼H_2O$

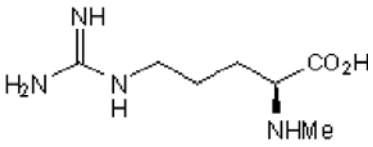
Batch Molecular Weight: 192.73

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Isopropanol:Ammonia solution:Water)

HPLC: Shows 96.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D$ = +34 (Concentration = 1, Solvent = 3N HCl)

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

Product Name: **N^2-Methyl-L-arginine** **Catalog No.: 3513** **Batch No.: 1**

CAS Number: 2480-28-6

IUPAC Name: N^2-Methyl-L-arginine

Description:

Selective L-arginine uptake inhibitor (K_i = 500 µM). Inhibits uptake of arginine by the lysosomal system c in human fibroblast in vitro.

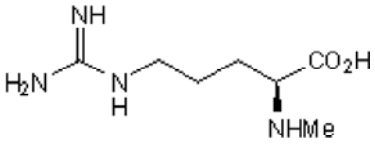
Physical and Chemical Properties:

Batch Molecular Formula: $C_7H_{16}N_4O_2.¼H_2O$

Batch Molecular Weight: 192.73

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store 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:

Pisoni *et al* (1987) Important differences in cationic amino acid transport by lysosomal system c and system y+ of the human fibroblast. J.Biol.Chem. ***262*** 15011. PMID: 3499437.

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