

Certificate of Analysis

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Product Name: L-(-)- α -Methyldopa

CAS Number: 555-30-6

IUPAC Name: 3-(3,4-Dihydroxyphenyl)- α -methyl-L-alanine

Catalog No.: 0584

Batch No.: 1

EC Number: 209-089-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_{13}NO_4$

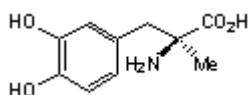
Batch Molecular Weight: 211.21

Physical Appearance: White solid

Solubility: DMSO to 75 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = -15.5$ (Concentration = 1, Solvent = Water)

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

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Product Information

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IUPAC Name: 3-(3,4-Dihydroxyphenyl)- α -methyl-L-alanine

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Description:

L-aromatic amino acid decarboxylase inhibitor. Antihypertensive.

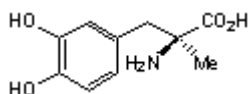
Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₁₃NO₄

Batch Molecular Weight: 211.21

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 75 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:

Merck Index **12** 6132.

Van Zwieten *et al* (1984) The hypotensive activity and side effects of methyldopa, clonidine, and guanfacine. Hypertension **6** II-28. PMID: 6094346.

Kapoor and Chalmers (1989) Correlation between fall in blood pressure and in vivo amine release after α -methylDOPA. Eur.J.Pharmacol. **164** 531. PMID: 2767124.

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