



Certificate of Analysis

www.tocris.com

Product Name: L-DOPA Catalog No.: 3788 Batch No.: 3

CAS Number: 59-92-7 EC Number: 200-445-2

IUPAC Name: L-3,4-Dihydroxyphenylalanine

1. PHYSICAL AND CHEMICAL PROPERTIES

1eq. HCl to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:

HO NH₂

2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = -11.7$ (Concentration = 1, Solvent = 1N HCl)

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 54.82 5.62 7.1 Found 54.82 5.65 7.11



Product Information

Print Date: Oct 9th 2014

www.tocris.com

Product Name: L-DOPA Catalog No.: 3788 Batch No.: 3

CAS Number: 59-92-7 EC Number: 200-445-2

IUPAC Name: L-3,4-Dihydroxyphenylalanine

Description:

Immediate precursor of dopamine, produced by tyrosine

hydroxylase. Displays antiParkinsonian activity.

Physical and Chemical Properties:

Batch Molecular Formula: C₉H₁₁NO₄ Batch Molecular Weight: 197.19 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

water to 5 mM 1eq. HCl to 50 mM

CAUTION: L-DOPA rapidly degrades in alkaline solutions

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:

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:

Pisani and Shen (2009) Levodopa-induced dyskinesia and striatal signaling pathways. Proc.Natl.Acad.Sci.USA 106 2973.

