



Certificate of Analysis

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Product Name: MPDC Catalog No.: 0973 Batch No.: 6

CAS Number: 159262-32-5

IUPAC Name: L-anti-endo-3,4-Methanopyrrolidinedicarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_7H_9NO_4$ Batch Molecular Weight:171.15Physical Appearance:White solidSolubility:water to 100 mM

Storage: Store at RT

Storage. Store at Ki

Batch Molecular Structure: ${}_{\buildrel {CO}_2 \ensuremath{\mathsf{H}}}$

2. ANALYTICAL DATA

TLC: $R_f = 0.22$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point:

Between 256 - 257°C(dec)

1H NMR:

Consistent with structure

Optical Rotation: $[\alpha]_D = -82$ (Concentration = 1, Solvent = water)

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 49.12 5.3 8.18 Found 48.87 5.32 8.18



Product Information

Print Date: Jan 8th 2016

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IUPAC Name: L-anti-endo-3,4-Methanopyrrolidinedicarboxylic acid

Description:

Potent inhibitor of the Na+-dependent high-affinity synaptosomal glutamate transporter.

Physical and Chemical Properties:

Batch Molecular Formula: C₇H₉NO₄ Batch Molecular Weight: 171.15 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:

Bridges *et al* (1994) A conformationally constrained competitive inhibitor of the sodium-dependent glutamate transporter in forebrain synaptosomes: L-*anti-endo*-3,4-methanopyrrolidine carboxylate. Neurosci.Lett. **174** 193. PMID: 7970177.