

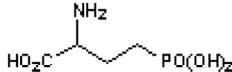
Certificate of Analysis

www.tocris.com**Product Name:** DL-AP4**Catalog No.:** 0101**Batch No.:** 11

CAS Number: 6323-99-5

IUPAC Name: DL-2-Amino-4-phosphonobutyric acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₁₀NO₅P·¾H₂O**Batch Molecular Weight:** 196.61**Physical Appearance:** White solid**Solubility:**
1eq. NaOH to 100 mM
water to 50 mM
phosphate buffered saline to 33 mM
1eq. HCl to 100 mM**Storage:** Store at RT**Batch Molecular Structure:**

2. ANALYTICAL DATA

TLC: R_f = 0.42 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])**Melting Point:** At 216°C**¹H NMR:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 24.43 5.9 7.12

Found 24.04 5.91 7.29

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

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Product Information

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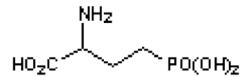
Description:

DL-AP4 is a broad spectrum EAA ligand. L-isomer also available.

Physical and Chemical Properties:Batch Molecular Formula: C₄H₁₀NO₅P·½H₂O

Batch Molecular Weight: 196.61

Physical Appearance: White solid

Minimum Purity: ≥98%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**

1eq. NaOH to 100 mM
water to 50 mM
phosphate buffered saline to 33 mM
1eq. HCl 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Evans *et al* (1982) The effect of a series of ω -phosphonic- α -carboxylic amino acids on electrically evoked and amino acid induced responses in isolated spinal cord preparations. *Br.J.Pharmacol.* **75** 65. PMID: 7042024.

Evans *et al* (1979) Antagonism of excitatory amino acid-induced responses and of synaptic excitation in the isolated spinal cord of the frog. *Br.J.Pharmacol.* **67** 591. PMID: 316343.

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