

Certificate of Analysis

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Product Name: DL-AP4

Catalog No.: 0101

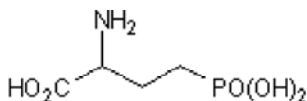
Batch No.: 15

CAS Number: 6323-99-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₁₀NO₅P·³/₄H₂O
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

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	24.44	5.9	7.12
Found	24.08	6.02	6.96

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

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Catalog No.: 0101

Batch No.: 15

CAS Number: 6323-99-5

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

Description:

Broad spectrum EAA ligand. D-isomer, L-isomer and Sodium Salt also available.

Physical and Chemical Properties:

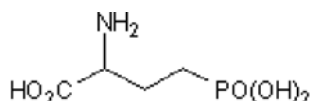
Batch Molecular Formula: C₄H₁₀NO₅P·³/₄H₂O

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. 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:

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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