Print Date: Oct 10th 2019

Certificate of Analysis

www.tocris.com

Product Name: **DL-AP3** **Catalog No.: 0125** **Batch No.: 11**

CAS Number: 20263-06-3

IUPAC Name: DL-2-Amino-3-phosphonopropionic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_3H_8NO_5P.¼H_2O$

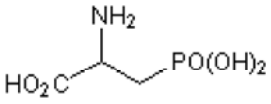
Batch Molecular Weight: 173.57

Physical Appearance: White solid

Solubility: 1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: At 228°C

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	20.76	4.94	8.07
Found	20.65	4.8	8.07

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

Product Name: **DL-AP3** **Catalog No.: 0125** **Batch No.: 11**

CAS Number: 20263-06-3

IUPAC Name: DL-2-Amino-3-phosphonopropionic acid

Description:

Competitive group I metabotropic glutamate receptor antagonist and inhibitor of phosphoserine phosphatase.

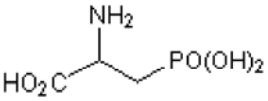
Physical and Chemical Properties:

Batch Molecular Formula: $C_3H_8NO_5P.¼H_2O$

Batch Molecular Weight: 173.57

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH 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:

Hawkinson *et al* (1996) The metabotropic glutamate receptor antagonist L-2-amino-3-phosphonopropionic acid inhibits phosphoserine phosphatase. Eur.J.Pharmacol. ***307*** 219. PMID: 8832224.

Saugstad *et al* (1995) L-2-Amino-3-phosphonopropionic acid completely antagonizes metabotropic glutamate receptors 1α and 5 in Xenopus oocytes. Eur.J.Pharmacol. ***289*** 395. PMID: 7621916.

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.