Certificate of Analysis

Product Name: **CGP 37849** **Catalog No.: 1469** **Batch No.: 3**

CAS Number: 127910-31-0

IUPAC Name: (*E*)-(±)-2-Amino-4-methyl-5-phosphono-3-pentenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_6H_{12}NO_5P.H_2O$

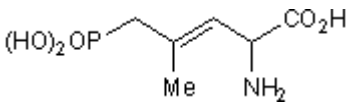
Batch Molecular Weight: 227.16

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	31.73	6.21	6.17
Found	31.86	6.26	6.14

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Description:

Potent, selective and competitive NMDA receptor antagonist (K_i = 35 nM). Anticonvulsive following oral administration in vivo.

Physical and Chemical Properties:

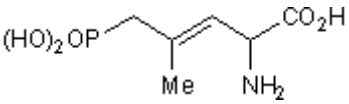
Batch Molecular Formula: $C_6H_{12}NO_5P.H_2O$

Batch Molecular Weight: 227.16

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

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:

Loscher and Honack (1991) Anticonvulsant and behavioural effects of two novel competitive N-methyl-D-aspartic acid receptor antagonists, CGP 37849 and CGP 39551, in the kindling model of epilepsy. Comparison with MK-801 and carbamazepine. J.Pharmacol.Exp.Ther. ***256*** 432. PMID: 1671593.

Fagg *et al* (1990) CGP 37849 and CGP 39551: novel and potent competitive N-methyl-D-asparate receptor antagonists with oral activity. Br.J.Pharmacol. ***99*** 791. PMID: 1972895.

Pozza *et al* (1990) Electrophysiological characterization of a novel potent and orally active NMDA receptor antagonist: CGP 37849 and its ethylester CGP 39551. Eur.J.Pharmacol. ***182*** 91. PMID: 1976098.

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