

**Product Name:** CGP 39551

**Catalog No.:** 1409

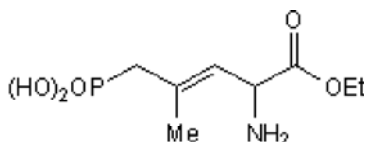
**Batch No.:** 6

CAS Number: 127910-32-1

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>8</sub>H<sub>16</sub>NO<sub>5</sub>P  
**Batch Molecular Weight:** 237.19  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
DMSO to 10 mM with gentle warming  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.21 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	40.51	6.8	5.91
Found	40.45	6.72	5.87

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**Description:**

Potent, selective and competitive NMDA antagonist ( $K_i = 310$  nM for inhibition of [<sup>3</sup>H]-CPP binding in rat brain). Centrally active upon oral administration in vivo.

**Physical and Chemical Properties:**

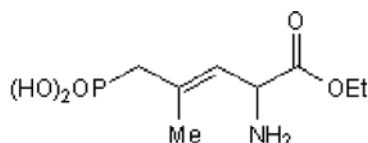
Batch Molecular Formula: C<sub>8</sub>H<sub>16</sub>NO<sub>5</sub>P

Batch Molecular Weight: 237.19

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 10 mM with gentle warming

**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:**

**D'Hooge et al** (1999) Effects of competitive NMDA receptor antagonists on excitatory amino-acid-evoked currents in mouse spinal cord. *Fundam.Clin.Pharmacol.* **13** 67. PMID: 10027090.

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

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

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