

Product Name: CGS 19755

Catalog No.: 1241

Batch No.: 3

CAS Number: 110347-85-8

IUPAC Name: *cis*-4-[Phosphomethyl]-piperidine-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₁₄NO₅P·½H₂O

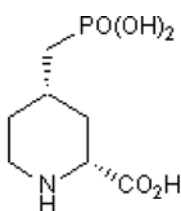
Batch Molecular Weight: 232.18

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Dichloromethane:Methanol [9:1])

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	36.21	6.51	6.03
Found	36.54	6.56	6.21

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

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Description:

Potent, competitive NMDA receptor antagonist. Anticonvulsant and neuroprotective.

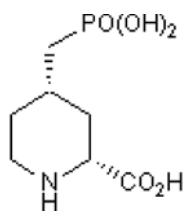
Physical and Chemical Properties:

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Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 25 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:

Perez-Pinzon *et al* (1995) Correlation of CGS 19755 neuroprotection against in vivo excitotoxicity and focal cerebral ischemia. *J.Cereb.Blood Flow Metab.* **15** 865. PMID: 7673380.

Bennett *et al* (1989) Behavioral pharmacological profile of CGS 19755, a competitive antagonist at N-MthD.-aspartate receptors. *J.Pharmacol.Exp.Ther.* **250** 454. PMID: 2547931.

Lehmann *et al* (1988) CGS 19755, a selective and competitive N-MthD.-aspartate-type excitatory amino acid receptor antagonist. *J.Pharmacol.Exp.Ther.* **246** 65. PMID: 2899170.

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