

Certificate of Analysis

www.tocris.com

Product Name: CGP 35348

Catalog No.: 1245

Batch No.: 1

CAS Number: 123690-79-9

IUPAC Name: (3-Aminopropyl)(diethoxymethyl)phosphinic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₂₀NO₄P.H₂O

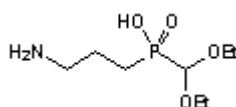
Batch Molecular Weight: 243.24

Physical Appearance: Cream solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.11 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 223 - 226°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	39.5	9.11	5.75	0 0 0
Found	39.31	8.96	5.68	0 0 0

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

Product Name: CGP 35348

Catalog No.: 1245

Batch No.: 1

CAS Number: 123690-79-9

IUPAC Name: (3-Aminopropyl)(diethoxymethyl)phosphinic acid

Description:

Selective, brain penetrant GABA_B receptor antagonist (IC₅₀ = 34 µM as measured in rat cortical membranes). Has higher affinity for postsynaptic versus presynaptic receptors.

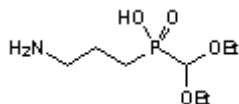
Physical and Chemical Properties:

Batch Molecular Formula: C₈H₂₀NO₄P.H₂O

Batch Molecular Weight: 243.24

Physical Appearance: Cream solid

Batch Molecular Structure:



Storage: Store at RT

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:

Olpe et al (1990) CGP 35348: a centrally active blocker of GABA_B receptors. *Eur.J.Pharmacol.* **187** 27. PMID: 2176979.

Hao et al (1994) Intrathecal γ-aminobutyric acid_B (GABA_B) receptor antagonist CGP 35348 induces hypersensitisation to mechanical stimuli in the rat. *Neurosci.Lett.* **182** 299. PMID: 7715832.

Sutor and Luhmann (1998) Involvement of GABA_B receptors in convulsant-induced epileptiform activity in rat neocortex *in vitro*. *Eur.J.Neurosci.* **10** 3417. PMID: 9824455.

Staubli et al (1999) GABA_B receptor antagonism: facilitatory effects on memory parallel those on LTP induced by TBS but not HFS. *J.Neurosci.* **19** 4609. PMID: 10341258.

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

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