

Certificate of Analysis

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Product Name: CGP 46381

Catalog No.: 1247

Batch No.: 1

CAS Number: 123691-14-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₂₂NO₂P.H₂O

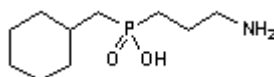
Batch Molecular Weight: 237.28

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.28 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: At 245°C(Dec)

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	50.62	10.19	5.9	0	0
Found	50.95	10	5.89	0	0

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

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

Description:

Brain penetrant, selective GABA_B receptor antagonist (IC₅₀ = 4.9 μM).

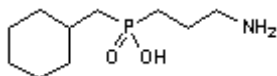
Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₂₂NO₂P.H₂O

Batch Molecular Weight: 237.28

Physical Appearance: White 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:

Lingenhoebl and Olpe (1993) Blockade of the late inhibitory postsynaptic potential *in vivo* by the GABA_B antagonist CGP 46381. *Pharmacol.Comm.* **3** 49.

Froestl et al (1996) Potent, orally active GABA_B receptor antagonists. *Pharmacol.Rev.Comm.* **8** 127.

Curtis and Lacey (1998) Prolonged GABA_B receptor-mediated synaptic inhibition in the cat spinal cord: an *in vivo* study. *Exp.Brain Res.* **121** 319. PMID: 9746138.

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.

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