

**Product Name:** CPPG

**Catalog No.:** 0972

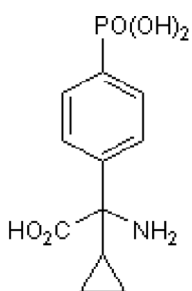
**Batch No.:** 14

CAS Number: 183364-82-1

IUPAC Name: (RS)- $\alpha$ -Cyclopropyl-4-phosphonophenylglycine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>14</sub>NO<sub>5</sub>P.¼H<sub>2</sub>O  
**Batch Molecular Weight:** 275.71  
**Physical Appearance:** White solid  
**Solubility:** 1eq. NaOH to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 97.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	47.92	5.3	5.08
Found	47.54	5.3	5.04

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

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**Description:**

CPPG is a potent group II/III mGlu receptor antagonist, with approximately 20-fold selectivity for group III over group II (IC<sub>50</sub> values of 2.2 and 46.2 nM respectively). A much less potent antagonist at group I receptors in neonatal rat cortical slices (K<sub>B</sub> = 0.65 ± 0.07 nM).

**Physical and Chemical Properties:**

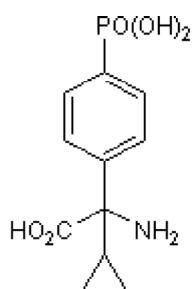
Batch Molecular Formula: C<sub>11</sub>H<sub>14</sub>NO<sub>5</sub>P·¼H<sub>2</sub>O

Batch Molecular Weight: 275.71

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. NaOH 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Jane et al** (1996) Potent antagonists at the L-AP4- and (1*S*, 3*S*)-ACPD-sensitive presynaptic metabotropic glutamate receptors in the neonatal rat spinal cord. *Neuropharmacology* **35** 1029. PMID: 9121605.

**Kemp et al** (1996)  $\alpha$ -Methyl-3-phosphonophenylglycine and  $\alpha$ -cyclopropyl-4-phosphonophenylglycine are potent antagonists at mGluRs negatively coupled to adenylyl cyclase. *Br.J.Pharmacol.* **117** (in press).

**Toms et al** (1996) The effects of (R*S*)- $\alpha$ -cyclopropyl-4-phosphonophenylglycine ((R*S*)-CPPG), a potent and selective metabotropic glutamate receptor antagonist. *Br.J.Pharmacol.* **119** 851. PMID: 8922731.

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