Product Name: CPPG
Cas Number: 183364-82-1
IUPAC Name: (RS)-α-Cyclopropyl-4-phosphonophenylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{11}H_{14}NO_5P \)
Batch Molecular Weight: 271.21
Physical Appearance: White solid
Solubility: 1eq. NaOH to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.12 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 98.7% purity
\(^1\text{H} \text{NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>48.71</td>
<td>48.37</td>
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<tr>
<td>Hydrogen</td>
<td>5.2</td>
<td>5.19</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.16</td>
<td>5.34</td>
</tr>
</tbody>
</table>
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Description: Potent group II/III mGlu receptor antagonist, with approximately 20-fold selectivity for group III over group II (IC₅₀ values of 2.2 and 46.2 nM respectively). A much less potent antagonist at group I receptors in neonatal rat cortical slices (Kᵦ = 0.65 ± 0.07 nM). Also available as part of the Group III mGlu Receptor Tocriset™.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁H₈NO₅P
Batch Molecular Weight: 271.21
Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

```
PO(OH)₂

O₂C

NH₂
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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. 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:


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