Product Name: PMPA (NAALADase inhibitor)  
Catalog No.: 1380  
Batch No.: 3  
CAS Number: 173039-10-6  
IUPAC Name: 2-(Phosphonomethyl)pentane-1,5-dioic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>C₆H₁₁O₇P</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>226.12</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>White solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>water to 100 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Desiccate at RT</td>
</tr>
<tr>
<td>Batch Molecular Structure</td>
<td>![Chemical Structure Image]</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>¹H NMR</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Mass Spectrum</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Microanalysis</td>
<td>Carbon Hydrogen Nitrogen</td>
</tr>
<tr>
<td>Theoretical</td>
<td>31.87 4.9</td>
</tr>
<tr>
<td>Found</td>
<td>31.91 4.91</td>
</tr>
</tbody>
</table>

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

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Catalog No.: 1380  
Batch No.: 3  
Cas Number: 173039-10-6  
Iupac Name: 2-(Phosphonomethyl)pentane-1,5-dioic acid

Description:
Highly potent and selective inhibitor of glutamate carboxypeptidase II (GCP II/N-acetylated α-linked dipeptidase/NAALADase) with a \( K_i \) value of 275 pM. Neurprotective; protects against glutamate-mediated motor neuron degeneration and reduces volume of injury following middle cerebral artery occlusion (MCAO).

Physical and Chemical Properties:
- **Batch Molecular Formula:** \( \text{C}_9\text{H}_{11}\text{O}_5\text{P} \)
- **Batch Molecular Weight:** 226.12
- **Physical Appearance:** White solid

Stability and Solubility Advice:
- **Storage:** Desiccate at RT

Solubility & Usage Info:
- **Solubility:** Water to 100 mM

Licensing Information:
- Sold with the permission of AstraZeneca Ltd.

References: