Product Name: (RS)-APICA  
Catalog No.: 1073  
Batch No.: 4

CAS Number: 170847-18-4  
IUPAC Name: (RS)-1-Amino-5-phosphonoindan-1-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $C_{10}H_{12}NO_5P.H_2O$
- **Batch Molecular Weight:** 275.2
- **Physical Appearance:** White solid
- **Solubility:** 1.1eq. NaOH to 100 mM
- **Storage:** Desiccate at +4°C

2. ANALYTICAL DATA

- **TLC:** $R_f = 0.38$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
- **Melting Point:** At 297°C
- **$^1$H NMR:** Consistent with structure
- **Microanalysis:**

<table>
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<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Oxygen</th>
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<tr>
<td>Theoretical</td>
<td>43.61</td>
<td>5.13</td>
<td>5.09</td>
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<tr>
<td>Found</td>
<td>43.61</td>
<td>5.09</td>
<td>4.96</td>
</tr>
</tbody>
</table>

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

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**Description:**
Rigidified analog of MPPG (Cat. No. 0853); selective group II metabotropic glutamate receptor antagonist (IC\textsubscript{50} = 30 μM) with no significant effect on group I and III mGlu receptors at concentrations up to 1 mM. Increases extracellular glutamate concentrations and possesses unusual inverse agonist-like action.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C\textsubscript{10}H\textsubscript{12}NO\textsubscript{3}P.H\textsubscript{2}O
- Batch Molecular Weight: 275.2
- Physical Appearance: White solid

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**
1.1eq. 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:**

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