1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_7H_{10}N_2O_4\cdot H_2O \)
Batch Molecular Weight: 204.19
Physical Appearance: White solid
Solubility: water to 10 mM with gentle warming
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.43 \) (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 99.9% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>41.18</td>
<td>41.17</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.92</td>
<td>5.66</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>13.72</td>
<td>13.48</td>
</tr>
</tbody>
</table>
Product Name: (RS)-AMPA
Catalog No.: 0169     Batch No.: 26
CAS Number: 74341-63-2
IUPAC Name: (RS)-α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid

Description:
Prototypical and defining agonist for the AMPA subgroup of ionotropic glutamate receptors. Active Enantiomer, Inactive Enantiomer and Hydrobromide Salt also available.

Physical and Chemical Properties:
Batch Molecular Formula: C₆H₁₀N₂O₄.H₂O
Batch Molecular Weight: 204.19
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:
water to 10 mM with gentle warming

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: