Product Name: Dihydrokainic acid
Catalog No.: 0111
Batch No.: 30
CAS Number: 52497-36-6
IUPAC Name: (2S,3S,4R)-2-Carboxy-4-isopropyl-3-pyrrolidineacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{10}H_{17}NO_{4}
Batch Molecular Weight: 215.25
Physical Appearance: White solid
Solubility:
- water to 25 mM
- phosphate buffered saline to 100 mM
- 1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: R_f = 0.31 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

^1^H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [\alpha]_D = -35.4 (Concentration = 1, Solvent = Water)
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>55.8</td>
<td>55.97</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.96</td>
<td>8.12</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.51</td>
<td>6.19</td>
</tr>
</tbody>
</table>

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

**Product Name:** Dihydrokainic acid  
**Catalog No.:** 0111  
**Batch No.:** 30

**Description:**
EAAT2(GLT1)-selective non-transportable inhibitor of L-glutamate and L-aspartate uptake ($K_i = 23 \, \mu M$). 130-fold selective over EAAT1 and EAAT3 ($K_i > 3 \, mM$). Also available as part of the Excitatory Amino Acid Transporter Inhibitor Tocriset™.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** $C_{10}H_{17}NO_3$
- **Batch Molecular Weight:** 215.25
- **Physical Appearance:** White solid

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
- water to 25 mM phosphate buffered saline to 100 mM
- 1eq. NaOH to 100 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**