1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_8\text{H}_{11}\text{NO}_4\cdot\text{H}_2\text{O} \)

Batch Molecular Weight: 203.2

Physical Appearance: White solid

Solubility: 1eq. NaOH to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

Chiral HPLC: Shows 100% purity

\(^1\text{H} \text{NMR:} \) Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: 
\[ [\alpha]_D = +17.8 \text{ (Concentration = 1, Solvent = 1N HCl)} \]

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>47.29</td>
<td>6.45</td>
<td>6.89</td>
</tr>
<tr>
<td>Found</td>
<td>46.96</td>
<td>6.41</td>
<td>6.77</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** LY 354740  
**CAS Number:** 176199-48-7  
**IUPAC Name:** (1S,2S,5R,6S)-2-Aminobicyclo[3.1.0]hexane-2,6-dicarboxylic acid

**Description:**  
Highly selective and potent agonist of group II mGlu receptors (EC$_{50}$ values are 5.1 and 24.3 nM at mGlu$_2$ and mGlu$_3$ receptors respectively and > 100000 nM at mGlu$_4$, mGlu$_7$, mGlu$_2$ and mGlu$_5$ receptors). Displays anxiolytic and antiaddictive activity in vivo. Orally and systemically active.

**Physical and Chemical Properties:**  
**Batch Molecular Formula:** C$_9$H$_{11}$NO$_4$.H$_2$O  
**Batch Molecular Weight:** 203.2  
**Physical Appearance:** White solid  
**Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at +4°C

**Solubility & Usage Info:**  
1 eq. 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:**  
Schoepp *et al* (1997) LY354740 is a potent and highly selective group II metabotropic glutamate receptor agonist in cell expressing human glutamate receptors. *Neuropharmacology* 36 1. PMID: 9144636.  