

**Product Name:** LY 354740

**Catalog No.:** 3246

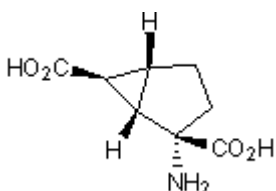
**Batch No.:** 5

CAS Number: 176199-48-7

IUPAC Name: (1S,2S,5R,6S)-2-Aminobicyclo[3.1.0]hexane-2,6-dicarboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>8</sub>H<sub>11</sub>NO<sub>4</sub>·H<sub>2</sub>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  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +17.8 (Concentration = 1, Solvent = 1N HCl)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	47.29	6.45	6.89
Found	46.96	6.41	6.77

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

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**Description:**

Highly selective and potent agonist of group II mGlu receptors (EC<sub>50</sub> values are 5.1 and 24.3 nM at mGlu<sub>2</sub> and mGlu<sub>3</sub> receptors respectively and > 100000 nM at mGlu<sub>4</sub>, mGlu<sub>7</sub>, mGlu<sub>1a</sub> and mGlu<sub>5a</sub> receptors). Displays antianxiety and antiaddictive activity in vivo. Orally and systemically active.

**Physical and Chemical Properties:**

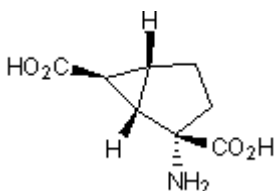
Batch Molecular Formula: C<sub>8</sub>H<sub>11</sub>NO<sub>4</sub>.H<sub>2</sub>O

Batch Molecular Weight: 203.2

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**Helton et al** (1998) Anxiolytic and side-effect profile of LY354740: a potent, highly selective, orally active agonist for group II metabotropic glutamate receptors. *J.Pharmacol.Exp.Ther.* **284** 651. PMID: 9454811.

**Klodzinska et al** (1999) Potential anti-anxiety, anti-addictive effects of LY 354740, a selective group II glutamate metabotropic receptors agonist in animal models. *Neuropharmacology* **38** 1831. PMID: 10608278.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

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.

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