

Product Name: LY 354740

Catalog No.: 3246

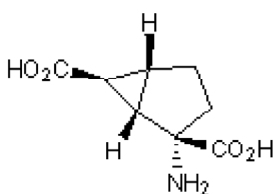
Batch No.: 5

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: C₈H₁₁NO₄.H₂O
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 98.2% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +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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IUPAC Name: (1S,2S,5R,6S)-2-Aminobicyclo[3.1.0]hexane-2,6-dicarboxylic acid

Description:

LY 354740 is a highly selective and potent agonist of group II mGlu receptors (EC₅₀ values are 5.1 and 24.3 nM at mGlu₂ and mGlu₃ receptors respectively and > 100000 nM at mGlu₄, mGlu₇, mGlu_{1a} and mGlu_{5a} receptors). Displays antianxiety and antiaddictive activity in vivo. Orally and systemically active.

Physical and Chemical Properties:

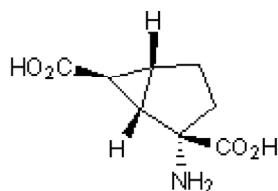
Batch Molecular Formula: C₈H₁₁NO₄·H₂O

Batch Molecular Weight: 203.2

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

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.

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.

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.

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