

**Product Name:** LY 341495

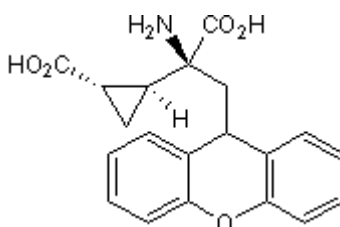
**Catalog No.:** 1209 **Batch No.:** 14

**CAS Number:** 201943-63-7

**IUPAC Name:** (2S)-2-Amino-2-[(1S,2S)-2-carboxycycloprop-1-yl]-3-(xanth-9-yl) propanoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>19</sub>NO<sub>5</sub>·1½H<sub>2</sub>O  
**Batch Molecular Weight:** 380.39  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 10 mM with gentle warming  
 1.2eq. NaOH to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.7 (Ethanol:Ammonium hydroxide: Water[6:3:1])  
**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +25 (Concentration = 0.5, Solvent = Water)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.15	5.83	3.68
Found	62.8	5.49	3.75

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

**Product Name:** LY 341495

**Catalog No.:** 1209 **Batch No.:** 14

**CAS Number:** 201943-63-7

**IUPAC Name:** (2S)-2-Amino-2-[(1S,2S)-2-carboxycycloprop-1-yl]-3-(xanth-9-yl) propanoic acid

**Description:**

Highly potent and selective group II metabotropic glutamate receptor antagonist ( $K_i/IC_{50}$  values are 2.3, 1.3, 173, 990, 6800, 8200 and 22000 nM for human mGlu<sub>2</sub>, mGlu<sub>3</sub>, mGlu<sub>8</sub>, mGlu<sub>7a</sub>, mGlu<sub>1a</sub>, mGlu<sub>5a</sub> and mGlu<sub>4a</sub> receptors respectively). Readily brain penetrant and active in vivo. Disodium salt (Cat. No. 4062) also available. Also available as part of the Group II mGlu Receptor Tocriset™, Group III mGlu Receptor Tocriset™ and Mixed mGlu Receptor Tocriset™.

**Physical and Chemical Properties:**

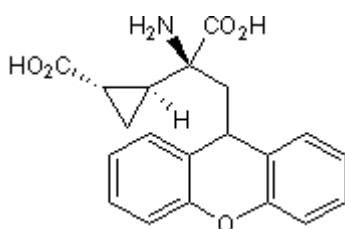
Batch Molecular Formula: C<sub>20</sub>H<sub>19</sub>NO<sub>5</sub>·1½H<sub>2</sub>O

Batch Molecular Weight: 380.39

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Fitzjohn et al** (1998) The potent mGlu receptor antagonist LY341495 identifies roles for both cloned and novel mGlu receptors in hippocampal synaptic plasticity. *Neuropharmacology* **37** 1445. PMID: 9886667.

**Kingston et al** (1998) LY341495 is a nanomolar potent and selective antagonist of group II metabotropic glutamate receptors. *Neuropharmacology* **37** 1. PMID: 9680254.

**Ornstein et al** (1998) 2-Substituted (2SR)-2-amino-2-((1SR,2SR)-2-carboxycycloprop-1-yl) glycines as potent and selective antagonists of group II metabotropic glutamate receptors. 2. Effects of aromatic substitution, pharmacological characterization, and bioavailability. *J. Med. Chem.* **41** 358. PMID: 9464367.

**Johnson et al** (1999) [<sup>3</sup>H]-LY341495 as a novel antagonist radioligand for group II metabotropic glutamate receptors: characterization of binding to membranes of mGlu receptor subtype expressing cells. *Neuropharmacology* **38** 1519. PMID: 10530814.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 mM with gentle warming

1.2eq. 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.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
www.RnDSystems.com

