1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{19}\text{NO}_5 \cdot \frac{1}{2}\text{H}_2\text{O} \)

Batch Molecular Weight: 362.38

Physical Appearance: White solid

Solubility: DMSO to 10 mM with gentle warming
1.2eq. NaOH to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.7 \) (EtOH/NH4OH/H2O)

HPLC: Shows 98.4% purity

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

Mass Spectrum: Consistent with structure

Optical Rotation: \( [\alpha]_D = +19.5 \) (Concentration = 0.5, Solvent = 1M NaOH)

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 66.29 5.56 3.87

Found 66 5.22 3.88

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** LY 341495  
**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/IC values are 2.3, 1.3, 173, 990, 6800, 8200 and 22000 nM for human mGlu2, mGlu3, mGlu5, mGlu7a, mGlu1a, mGlu5a and mGlu4a 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™. Please see product datasheet on www.tocris.com for full description.

**Physical and Chemical Properties:**  
**Batch Molecular Formula:** C20H19NO5·½H2O  
**Batch Molecular Weight:** 362.38  
**Physical Appearance:** White solid  
**Minimum Purity:** >98%  
**Batch Molecular Structure:**

![Molecular Structure Image]

**Storage:** Store at RT

**Solubility & Usage Info:**  
DMSO to 10 mM with gentle warming  
1.2eq. 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.

**Licensing Information:**  
Sold with the permission of Eli Lilly and Company

**References:**

Johnson et al (1999) [3H]-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.  
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.  