

Product Name: LY 341495

Catalog No.: 1209

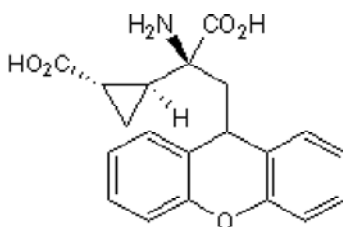
Batch No.: 16

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: C₂₀H₁₉NO₅·½H₂O
Batch Molecular Weight: 362.38
Physical Appearance: Off White solid
Solubility: DMSO to 5 mM with gentle warming
 1.2eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +35 (Concentration = 0.5, Solvent = 1N NaOH)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.29	5.56	3.87
Found	65.45	5.57	3.83

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

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Description:

LY 341495 is a 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 mGlu₂, mGlu₃, mGlu₈, mGlu_{7a}, mGlu_{1a}, mGlu_{5a} and mGlu_{4a} receptors respectively). Readily brain penetrant and active in vivo. Disodium salt (Cat. No. 4062) also available.

Physical and Chemical Properties:

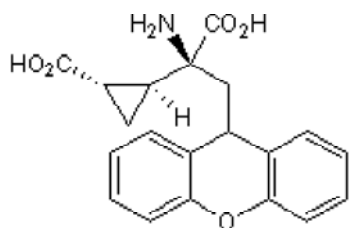
Batch Molecular Formula: C₂₀H₁₉NO₅·½H₂O

Batch Molecular Weight: 362.38

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 5 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.

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

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