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## DATASHEET

LY 341495

### Product overview

<b>Name</b>	LY 341495
<b>Cat No</b>	HB0394
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective group II mGlu receptor antagonist

### Images



### Biological Data

<b>Biological description</b>	Potent and selective group II mGlu receptor antagonist ( $IC_{50}$ values are 21 and 14nM for mGlu <sub>2</sub> and mGlu <sub>3</sub> receptors respectively). Exhibits 10-fold selectivity for mGlu <sub>2</sub> receptor. Less effective on other mGlu receptors ( $IC_{50}$ values are 22, 8.2, 0.99 and 0.17 $\mu$ M for mGlu <sub>1a</sub> , 4, 5a, 7 and 8 receptors respectively). Also a relatively potent group III antagonist. Shows low effectiveness on NMDA receptors. Blood-brain barrier permeable. Displays anti-depressant effects.
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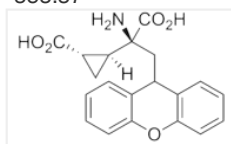
### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (10mM, gentle warming)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	(2S)-2-Amino-2-[(1S,2S)-2-carboxycycloprop-1-yl]-3-(xanth-9-yl) propanoic acid
<b>Molecular Weight</b>	353.37

**Chemical structure**



<b>Molecular Formula</b>	C <sub>20</sub> H <sub>19</sub> NO <sub>5</sub>
<b>CAS Number</b>	201943-63-7

PubChem identifier	9819927
SMILES	<chem>C1[C@@H]([C@H]1[C@@])(CC2C3=CC=CC=C3OC4=CC=CC=C24)(C(=O)O)N)C(=O)O</chem>
InChi	InChI=1S/C20H19NO5/c21-20(19(24)25,15-9-13(15)18(22)23)10-14-11-5-1-3-7-16(11)26-17-8-4-2-6-12(14)17/h1-8,13-15H,9-10,21H2,(H,22,23)(H,24,25)/t13-,15-,20-/m0/s1
InChiKey	VLZBRVJVCCNPRJ-KPHUOKFYSA-N
MDL number	MFC00949707

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## References

**LY341495 is a nanomolar potent and selective antagonist of group II metabotropic glutamate receptors.**

Kingston AE *et al* (1998) *Neuropharmacology* 37(1)

**PubMedID** [9680254](#)

**The potent mGlu receptor antagonist LY341495 identifies roles for both cloned and novel mGlu receptors in hippocampal synaptic plasticity.**

Fitzjohn SM *et al* (1998) *Neuropharmacology* 37(12)

**PubMedID** [9886667](#)

**Binding of [3H](2S,1'S,2'S)-2-(9-xanthylmethyl)-2-(2'-carboxycyclopropyl) glycine ([3H]LY341495) to cell membranes expressing recombinant human group III metabotropic glutamate receptor subtypes.**

Wright RA *et al* (2000) *Naunyn Schmiedebergs Arch Pharmacol* 362(6)

**PubMedID** [11138847](#)

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