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DATASHEET

LY 341495

Product overview

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

Images



Biological Data

Biological description	Potent and selective group II mGlu receptor antagonist (IC_{50} values are 21 and 14nM for mGlu ₂ and mGlu ₃ receptors respectively). Exhibits 10-fold selectivity for mGlu ₂ receptor. Less effective on other mGlu receptors (IC_{50} values are 22, 8.2, 0.99 and 0.17 μ M for mGlu _{1a} , 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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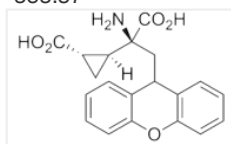
Solubility & Handling

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

Chemical Data

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

Chemical structure



Molecular Formula	C ₂₀ H ₁₉ NO ₅
CAS Number	201943-63-7

Chemical name	(2S)-2-Amino-2-[(1S,2S)-2-carboxycycloprop-1-yl]-3-(xanth-9-yl) propanoic acid
PubChem identifier	9819927
SMILES	<chem>C1[C@@H]([C@H]1[C@@H](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	MFCD00949707

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](#)
