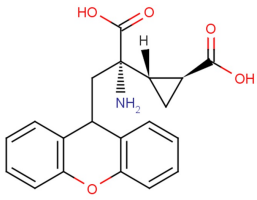
Data Sheet (Cat.No.T15816)

TargetMol
A DRUG SCREENING EXPERT

LY341495

Chemical Properties



CAS No.:	201943-63-7
Formula:	C20H19NO5
Molecular Weight:	353.37
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	LY341495 is an antagonist of metabotropic glutamate receptor (IC50s: 2.9 nM, 10 nM, 170 nM for mGluR-2, mGluR-3, mGluR-8, respectively).
Targets(IC_{50})	mGluR-2, human: 2.9 nM mGluR-3, human: 10 nM mGluR-8, human: 170 nM
In vivo	LY341495 (3 mg/kg, i.p., 2.5 h) -induced c-Fos expression is not altered in either KO brain. LY341495 (3.0 mg/kg) reduces Dvl-2, pGSK-3α/β, and β-catenin protein levels but Dvl-1, Dvl-3, and GSK-3α/β are unaffected in both the PFC and STR. LY341495 (0.3, 1, and 3 mg/kg, i.p.) shows a lower level of discrimination in rats[1]. LY341495 has generally the opposite effect following acute and chronic administration compared to mGlu2/3 agonist, LY379268[2]. LY341495 is almost inactive in the central extended amygdala [central nucleus of the amygdala, lateral (CeL) and bed nucleus of the stria terminalis, laterodorsal (BSTLD)] in mGluR3-KO mice[3].

Solubility Information

Solubility	DMSO: 6 mg/mL (16.98 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.83 mL	14.149 mL	28.299 mL
5 mM	0.566 mL	2.83 mL	5.66 mL
10 mM	0.283 mL	1.415 mL	2.83 mL
50 mM	0.057 mL	0.283 mL	0.566 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Pitsikas N, et al. The metabotropic glutamate 2/3 receptor antagonist LY341495 differentially affects recognition memory in rats. Behav Brain Res. 2012 May 1;230(2):374-9.
2. Sutton LP, et al. Regulation of Akt and Wnt signaling by the group II metabotropic glutamate receptor antagonist LY341495 and agonist LY379268.J Neurochem. 2011 Jun;117(6):973-83.
3. Linden AM, et al. Use of MGLUR2 and MGLUR3 knockout mice to explore in vivo receptor specificity of the MGLUR2/3 selective antagonist LY341495. Neuropharmacology. 2009 Aug;57(2):172-82. Epub 2009 May 27.
4. Li J, et al. N-acetyl-cysteine attenuates neuropathic pain by suppressing matrix metalloproteinases. Pain. 2016 Aug;157(8):1711-23.

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