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产品名称：LY341495
产品别名：LY341495

生物活性：

Description	LY341495 is a metabotropic glutamate receptor (mGluR) antagonist with IC50s of 2.9 nM, 10 nM, 170 nM for mGluR-2, mGluR-3, mGluR-8, respectively.
IC_{50} & Target	IC50: 2.9 nM (mGluR-2, human), 10 nM (mGluR-3, human), 170 nM (mGluR-8, human)
In Vivo	LY341495 (0.3, 1, and 3 mg/kg, i.p.) displays a lower level of discrimination in rats[1]. LY341495 (3.0 mg/kg) decreases 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 has the generally the opposite effect following acute and chronic administration compared to mGlu2/3 agonist, LY379268[2]. LY341495 (3 mg/kg, i.p., 2.5 h) -induced c-Fos expression is not altered in either KO brain. 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].
Solvent&Solubility	***In Vitro:*** **DMSO : 6 mg/mL** (**16.98 mM;** Need ultrasonic) **H_2O : < 0.1 mg/mL** (insoluble)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8299 mL	14.1495 mL	28.2990 mL
	5 mM	0.5660 mL	2.8299 mL	5.6598 mL
	10 mM	0.2830 mL	1.4149 mL	2.8299 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

In Vivo:

请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂：

——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶

1.请依序添加每种溶剂： 10% DMSO →90% corn oil

Solubility: ≥ 0.6 mg/mL (1.70 mM); Clear solution

此方案可获得 ≥ 0.6 mg/mL (1.70 mM，饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。

以 1 mL 工作液为例，取 100 μL 6.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。

[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.

References	[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.

实验参考：

Animal Administration	The rats are randomLy divided into six experimental groups (10 rats per group): vehicle and 0.05, 0.1, 0.3, 1, and 3 mg/kg LY341495. The LY341495 doses are selected on the basis of results from previous Published studies that evaluated the effects of this compound on cognition. The rats are subjected to a training session that consisted of two 2-min trials. The animals receive either vehicle or LY341495 immediately after T1. Using the 2-min trial duration, an ITI of 1 h is used because recognition memory is still intact in untreated control rats under these experimental conditions[1].
References	[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.