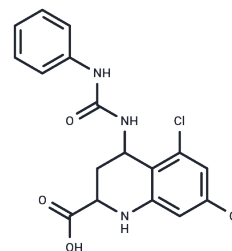


L-689560

Chemical Properties

CAS No. : 139051-78-8
 Formula: C₁₇H₁₅Cl₂N₃O₃
 Molecular Weight: 380.23
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	L-689560 is widely used as a radiolabeled ligand in binding studies and used to study the roles of NMDA receptors in normal neurological processes as well as in diseases. At the GluN1 glycine binding site, L-689560 is an effective N-methyl-D-aspartate (NMDA) receptor antagonist.
Targets(IC50)	NMDAR,iGluR
In vitro	L-689560 is an antagonist of 2-carboxytetrahydroquinoline [2].
In vivo	L-689560 blocks the glycine-induced increase of Akt phosphorylation in the MCAO model. L-689560 (1?mg/kg, ip) obviously decreases the neuroprotective effect of glycine after glycine receptors, and the channel activity of NMDA receptors (NMDARs) are suppressed [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.630 mL	13.1499 mL	26.2999 mL
5 mM	0.526 mL	2.630 mL	5.260 mL
10 mM	0.263 mL	1.315 mL	2.630 mL
50 mM	0.0526 mL	0.263 mL	0.526 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Juan Chen, et al. A non-ionotropic activity of NMDA receptors contributes to glycine-induced neuroprotection in cerebral ischemia-reperfusion injury. 15 June 2017

Kvist T, et al. Crystal structure and pharmacological characterization of a novel N-methyl-D-aspartate (NMDA) receptor antagonist at the GluN1 glycine binding site. J Biol Chem. 2013 Nov 15;288(46):33124-35.

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