

LY367385 hydrochloride

Chemical Properties

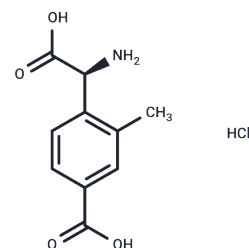
CAS No. : 2829282-00-8

Formula: C₁₀H₁₂ClNO₄

Molecular Weight: 245.66

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	LY367385 hydrochloride is a potent and selective mGluR1a antagonist with an IC ₅₀ value of 8.8 μM for inhibiting quisqualate-induced phosphoinositide (PI) hydrolysis, showing significantly higher selectivity compared to its >100 μM IC ₅₀ value for mGlu5a. This compound exhibits neuroprotective, anticonvulsant, and antiepileptic effects [1] [2].
Targets(IC ₅₀)	Others, GluR
In vitro	LY367385 combined with N-methyl-D-aspartate (NMDA) during the toxic pulse attenuates neuronal degeneration in a concentration-dependent manner with a maximal reduction of NMDA toxicity ranging from 40 to 60%. LY367385 exhibits greater efficacy than LY367366 and neither of these compounds influenced neuronal viability per se. LY367385 shows potent neuroprotective effects, with leading a 50% reduction in (S)-3,5-Dihydroxyphenylglycine (DHPG) potentiation at a concentration of 10 nM. Under experimental conditions at higher concentrations of antagonist, LY367385 completely antagonized the amplification of NMDA toxicity by DHPG [2].
In vivo	LY367385 was administered intracerebroventricularly (i.c.v.) to DBA/2 and lethargic (lh/lh) mice, and directly into the inferior colliculus of genetically epilepsy-prone rats (GEPR). In DBA/2 mice, it quickly and temporarily inhibits sound-induced clonic seizures with an effective dose (ED ₅₀) of 12 nM, showing results within 5 minutes. In lethargic mice, LY367385 notably decreases spontaneous spike and wave discharges observed on the electroencephalogram, with effects lasting from 30 to over 150 minutes post-administration at a dosage of 250 nM. Furthermore, in genetically epilepsy-prone rats, the compound, when administered bilaterally at 160 nM, significantly diminishes sound-induced clonic seizures, fully suppressing them within 2-4 hours.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0707 mL	20.3533 mL	40.7067 mL
5 mM	0.8141 mL	4.0707 mL	8.1413 mL
10 mM	0.4071 mL	2.0353 mL	4.0707 mL
50 mM	0.0814 mL	0.4071 mL	0.8141 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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