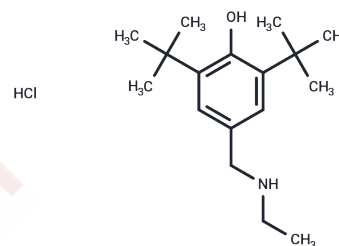


LY231617

Chemical Properties

CAS No. :	141545-89-3
Formula:	C ₁₇ H ₃₀ ClNO
Molecular Weight:	299.88
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	LY231617 is an orally bioavailable, blood-brain barrier-penetrant antioxidant that mitigates systemic ischaemic neuronal injury in rats. It exerts neuroprotective effects against H ₂ O ₂ -induced toxicity by inhibiting lipid peroxidation.
Targets(IC50)	Antioxidant, Reactive Oxygen Species, Lipid
In vitro	After co-incubation with hippocampal cells overnight, LY231617 (0.25-25 μM) attenuated the toxicity of H ₂ O ₂ on hippocampal cell cultures, with the most significant effect observed at 10 μM [1]. Overnight incubation with LY231617 (5 μM) inhibited prostaglandin production in 8-parazacco spilurus subsp. spilurus and prevented glutathione depletion [1].
In vivo	In the rat four-vessel occlusion model, LY231617 (50 mg/kg) administered orally 30 minutes before ischemia significantly alleviated neuronal damage [2]. LY231617 (20 mg/kg) administered intravenously 30 minutes after ischemia effectively protected the hippocampus and striatum from damage caused by four-vessel occlusion [2].

Solubility Information

Solubility	DMSO: 200 mg/mL (666.93 mM), Sonication is recommended. Ethanol: <29.99 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.67 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3347 mL	16.6733 mL	33.3467 mL
5 mM	0.6669 mL	3.3347 mL	6.6693 mL
10 mM	0.3335 mL	1.6673 mL	3.3347 mL
50 mM	0.0667 mL	0.3335 mL	0.6669 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

Fuson KS, et al. Characterization of LY231617 protection against hydrogen peroxide toxicity. J Neurochem. 1999 Mar;72(3):1154-60.

Clemens JA, et al. The antioxidant LY231617 reduces global ischemic neuronal injury in rats. Stroke. 1993 May;24(5):716-22; discussion 722-3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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