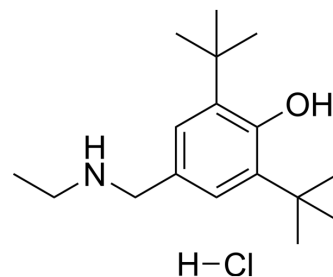


LY231617

Cat. No.:	HY-103253
CAS No.:	141545-89-3
Molecular Formula:	C ₁₇ H ₃₀ ClNO
Molecular Weight:	299.88
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (833.67 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.94 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.94 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.94 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	LY231617 is a potent and blood-brain barrier penetrable antioxidant. LY231617 is a neuroprotective agent in brain, it can be used for the research of nervous disease ^{[1][2]} .
In Vitro	LY231617 (0.25, 1, 5, 10, and 25 μM; overnight) attenuates H ₂ O ₂ toxicity to hippocampal cultures and shows the best effect at a concentration of 10 μM ^[1] . LY231617 (5 μM; overnight) attenuates 8-isoprostane production and glutathione depletion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	LY231617 (50 mg/kg; p.o. 30 minutes before occlusion) reduces global ischemic neuronal injury in rats ^[2] .

LY231617 (20 mg/kg; i.v. 30 minutes after occlusion) protects hippocampus and striatum from four-vessel occlusion^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats four-vessel occlusion ^[2]
Dosage:	50 mg/kg
Administration:	Oral gavage; 50 mg/kg 30 minutes before occlusion
Result:	Significantly protected both the hippocampus and striatum from 30 minutes of four-vessel occlusion.

Animal Model:	Male Wistar rats four-vessel occlusion ^[2]
Dosage:	20 mg/kg
Administration:	Intravenous injection ; 20 mg/kg 30 minutes after occlusion
Result:	Significantly protected the hippocampus and the striatum when given 30 minutes after the onset of the ischemia at the time of reperfusion.

REFERENCES

- [1]. Fuson KS, et al. Characterization of LY231617 protection against hydrogen peroxide toxicity. J Neurochem. 1999 Mar;72(3):1154-60.
- [2]. Clemens JA, et al. The antioxidant LY231617 reduces global ischemic neuronal injury in rats. Stroke. 1993 May;24(5):716-22; discussion 722-3.

Caution: Product has not been fully validated for medical applications. For research use only.

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