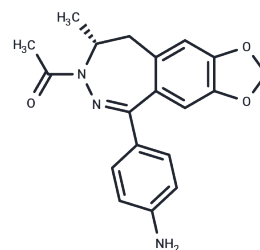


Talampanel

Chemical Properties

CAS No. :	161832-65-1
Formula:	C ₁₉ H ₁₉ N ₃ O ₃
Molecular Weight:	337.37
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	Talampanel (LY-300164) is an orally and selective α -amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor antagonist with anti-seizure activity. Talampanel (IVAX) has neuroprotective effects in rodent stroke models.
Targets(IC50)	Apoptosis, GluR, iGluR
In vivo	Talampanel (p.o.; 5 mg/kg; once a day; 2 weeks) decreases motoneuronal calcium in a mouse model of ALS [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (296.41 mM), 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: 4 mg/mL (11.86 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	2.9641 mL	14.8205 mL	29.641 mL
5 mM	0.5928 mL	2.9641 mL	5.9282 mL
10 mM	0.2964 mL	1.4821 mL	2.9641 mL
50 mM	0.0593 mL	0.2964 mL	0.5928 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

Paizs M, et al. Talampanel reduces the level of motoneuronal calcium in transgenic mutant SOD1 mice only if applied presymptomatically. *Amyotroph Lateral Scler.* 2011 Sep;12(5):340-4.

Denes L, et al. Talampanel a non-competitive AMPA-antagonist attenuates caspase-3 dependent apoptosis in mouse brain after transient focal cerebral ischemia. *Brain Res Bull.* 2006 Jul 31;70(3):260-2. Epub 2006 Mar 31.

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