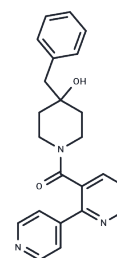


Soticlestat

Chemical Properties

CAS No. :	1429505-03-2
Formula:	C ₂₃ H ₂₃ N ₃ O ₂
Molecular Weight:	373.45
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	Soticlestat (OV935) is a potent, selective and orally active cholesterol 24-hydroxylase (CYP46A1) inhibitor. It has the potential for epilepsy syndromes research.
Targets(IC50)	Cytochromes P450
In vitro	Soticlestat inhibits the catalytic activity of human cholesterol 24-hydroxylase (CH24H) in a concentration-dependent manner with an IC ₅₀ of 4.5 nM
In vivo	Soticlestat treatment lowers brain 24S-hydroxycholesterol in a dose-dependent manner and substantially reduces premature deaths of APP/PS1-Tg mice at a dose lowering brain 24S-hydroxycholesterol by approximately 50%. Soticlestat can suppress potassium-evoked extracellular glutamate elevations in the hippocampus

Solubility Information

Solubility	DMSO: 100 mg/mL (267.77 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 (10.71 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	2.6777 mL	13.3887 mL	26.7773 mL
5 mM	0.5355 mL	2.6777 mL	5.3555 mL
10 mM	0.2678 mL	1.3389 mL	2.6777 mL
50 mM	0.0536 mL	0.2678 mL	0.5355 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

Toshiya Nishi, et al. Soticlestat, a novel cholesterol 24-hydroxylase inhibitor shows a therapeutic potential for neural hyperexcitation in mice. *Sci Rep.* 2020 Oct 13;10(1):17081.

Krista Eschbach, et al. Stiripentol for the treatment of seizures in Dravet syndrome. *Expert Rev Clin Pharmacol.* 2019 May;12(5):379-388.

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