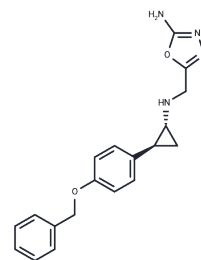


Vafidemstat

Chemical Properties

CAS No. :	1357362-02-7
Formula:	C19H20N4O2
Molecular Weight:	336.39
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Vafidemstat (ORY-2001) is a selective, orally active lysyl-histone demethylase (LSD1) /MAO-B inhibitor that crosses the blood-brain barrier for the study of neurological diseases.
Targets(IC50)	Histone Demethylase,MAO,Monoamine Oxidase
In vitro	Vafidemstat is a dual LSD1/MAO-B inhibitor, commonly used to treat Alzheimer's disease as a novel epigenetic agent for the treatment of neurodegenerative diseases[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (89.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.81 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	2.9727 mL	14.8637 mL	29.7274 mL
5 mM	0.5945 mL	2.9727 mL	5.9455 mL
10 mM	0.2973 mL	1.4864 mL	2.9727 mL
50 mM	0.0595 mL	0.2973 mL	0.5945 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

Antonijoan RM, et al. First-in-Human Randomized Trial to Assess Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of the KDM1A Inhibitor Vafidemstat. *CNS Drugs*. 2021 Mar;35(3):331-344.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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