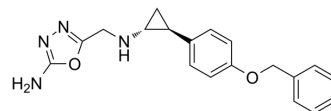


Vafidemstat

Cat. No.:	HY-112623		
CAS No.:	1357362-02-7		
Molecular Formula:	C ₁₉ H ₂₀ N ₄ O ₂		
Molecular Weight:	336.39		
Target:	Histone Demethylase; Monoamine Oxidase		
Pathway:	Epigenetics; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (148.64 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 5 mg/mL (14.86 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 5 mg/mL (14.86 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (14.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Vafidemstat (ORY-2001) is an oral, brain penetrant, dual lysine-specific histone demethylase (LSD1)/MAO-B inhibitor^[1].

IC₅₀ & Target

LSD1/MAO-B^[1]

In Vitro

Vafidemstat (ORY-2001), a dual LSD1/MAO-B inhibitor, is a novel epigenetic agent for the treatment of neurodegenerative diseases. LSD1 is a protein that participates in transcription regulation complexes; its modulation can be used to tweak transcriptional imbalances in neurodegenerative disease and redress neuroinflammation and cognitive deficit^[1]. Vafidemstat (ORY-2001) can be used in the treatment of Alzheimer's disease^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. ORYZON presents data on the Phase I trial with ORY-2001 at the 13th International Conference on Alzheimer's and Parkinson's diseases
- [2]. ORYZON Reports Financial Results and Corporate Update for the 1st Half Ended June 30, 2018.
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Caution: Product has not been fully validated for medical applications. For research use only.

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