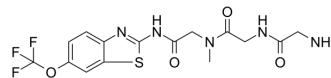


## Troriluzole

Cat. No.:	HY-122487		
CAS No.:	1926203-09-9		
Molecular Formula:	C <sub>15</sub> H <sub>16</sub> F <sub>3</sub> N <sub>5</sub> O <sub>4</sub> S		
Molecular Weight:	419.38		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (119.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
			1 mg	5 mg	
	Preparing Stock Solutions	1 mM	2.3845 mL	11.9224 mL	23.8447 mL
		5 mM	0.4769 mL	2.3845 mL	4.7689 mL
10 mM		0.2384 mL	1.1922 mL	2.3845 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.96 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.96 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.96 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Troriluzole, a third-generation, tripeptide prodrug of Riluzole (HY-B0211), is an orally active glutamate modulator. Troiriluzole reduces synaptic glutamate level and increases the synaptic glutamate absorption. Troiriluzole has the potential for Alzheimer disease and generalized anxiety disorder (GAD) <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	glutamate <sup>[1]</sup>
In Vitro	Troriluzole is absorbed systemically and cleaves into riluzole by aminopeptidases <sup>[1]</sup> .

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

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## REFERENCES

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- [1]. Schanzer B, et al. Novel investigational therapeutics for generalized anxiety disorder (GAD). *Expert Opin Investig Drugs*. 2019 Nov;28(11):1003-1012.
- [2]. Huang LK, et al. Clinical trials of new drugs for Alzheimer disease. *J Biomed Sci*. 2020 Jan 6;27(1):18.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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