## Tavilermide

Cat. No.:	HY-17622				
CAS No.:	263251-78-1				
Molecular Formula:	C <sub>24</sub> H <sub>32</sub> N <sub>6</sub> O <sub>11</sub>				
Molecular Weight:	580.54				
Target:	Trk Receptor				
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

## SOLVENT & SOLUBILITY

Preparin	H <sub>2</sub> O : 2 mg/mL (3.45 mM; Need ultrasonic)							
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	1.7225 mL	8.6127 mL	17.2253 mL			
		5 mM	0.3445 mL	1.7225 mL	3.4451 mL			
		10 mM	0.1723 mL	0.8613 mL	1.7225 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.					
Vivo		1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 25 mg/mL (43.06 mM); Suspended solution; Need ultrasonic						
Sol 3. Ado		2. Add each solvent one by one: 0.5% CMC-Na/saline water Solubility: 10 mg/mL (17.23 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: PBS Solubility: 4.17 mg/mL (7.18 mM); Clear solution; Need ultrasonic and warming and heat to 60°C							

BIOLOGICAL ACTIVITY					
Description	Tavilermide is a selective, partial agonist of TrkA, or a nerve growth factor (NGF) mimetic.				
IC <sub>50</sub> & Target	TrkA <sup>[1]</sup>				
In Vitro	Tavilermide (MIM-D3) is a tyrosine kinase TrkA receptor agonist, which can be used to treat dry eye.Tavilermide is a proteolytically stable, cyclic peptidomimetic that has been shown to be a partial TrkA receptor agonist. Tavilermide				

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demonstrates activities similar to NGF (but does not bind to the p75NTR receptor) and can potentiate the effects of suboptimal concentrations of NGF<sup>[1]</sup>.

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

## **CUSTOMER VALIDATION**

- Brain. 2021 Dec 17;awab460.
- Nanoscale. 2019 Mar 21;11(12):5580-5594.

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## REFERENCES

[1]. Meerovitch K, et al. Safety and efficacy of MIM-D3 ophthalmic solutions in a randomized, placebo-controlled Phase 2 clinical trial in patients with dry eye. Clin Ophthalmol. 2013;7:1275-85.

Caution: Product has not been fully validated for medical applications. For research use only.

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