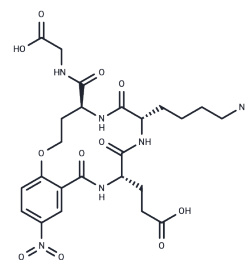


## Tavilermide

## Chemical Properties

CAS No. :	263251-78-1
Formula:	C <sub>24</sub> H <sub>32</sub> N <sub>6</sub> O <sub>11</sub>
Molecular Weight:	580.54
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	Tavilermide (MIM-D3) is a selective TrkA agonist, a cyclic mimetic, which can be used to study dry keratoconjunctivitis and dry eye syndrome.
Targets(IC50)	Trk receptor
In vitro	Tavilermide, a tyrosine kinase TrkA receptor agonist, is a protease-stabilized cyclic peptide mimetic that has been shown to be a partial TrkA receptor agonist for the treatment of dry eye. Tavilermide exhibits activity similar to that of nerve growth factor (NGF), but does not bind to the p75NTR receptor, and enhances the effects of suboptimal concentrations of effects of NGF. [1]

## Solubility Information

Solubility	NH <sub>4</sub> OH: 30 mg/mL(51.68 mM),when pH is adjusted with NH <sub>4</sub> OH. Sonication is recommended. H <sub>2</sub> O: 5 mg/mL (8.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0345 mL	0.1723 mL	0.3445 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

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.

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