

## Navamepent

## Chemical Properties

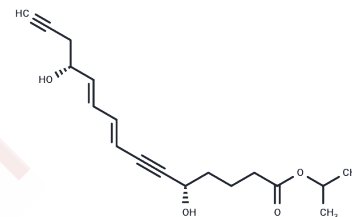
CAS No. : 1251537-11-7

Formula: C<sub>18</sub>H<sub>24</sub>O<sub>4</sub>

Molecular Weight: 304.38

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Navamepent (RX-10045) is an analog of resolvin E1 (a dietary-3 polyunsaturated fatty acid metabolite), which has potent anti-inflammatory activity that reduces corneal inflammation, epithelial damage, and accelerates corneal tissue repair. Navamepent inhibits the release of several key pro-inflammatory mediators from corneal epithelial cells. Navamepent is very effective against dry eye and cupping cell loss. Navamepent is effective against dry eye and cupping cell loss, and accelerates tear production.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 50 mg/mL (164.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.57 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

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	1mg	5mg	10mg
1 mM	3.2854 mL	16.4268 mL	32.8537 mL
5 mM	0.6571 mL	3.2854 mL	6.5707 mL
10 mM	0.3285 mL	1.6427 mL	3.2854 mL
50 mM	0.0657 mL	0.3285 mL	0.6571 mL

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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

Cholkar K, et al. Topical delivery of aqueous micellar resolvin E1 analog (RX-10045) [published correction appears in Int J Pharm. 2016 Jul 25;509(1-2):528]. Int J Pharm. 2016;498(1-2):326-334.

Torricelli AA, et al. Resolvin E1 analog RX-10045 0.1% reduces corneal stromal haze in rabbits when applied topically after PRK. Mol Vis. 2014;20:1710-1716.

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