## Navamepent

Cat. No.:	HY-17639		
CAS No.:	1251537-11	-7	
Molecular Formula:	C <sub>18</sub> H <sub>24</sub> O <sub>4</sub>		
Molecular Weight:	304.38		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (328.54 mM; Need ultrasonic)					
F		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	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		
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 40% PEC g/mL (8.21 mM); Clear solution	6300 >> 5% Tween-8	0 >> 45% saline		
	Solubility: ≥ 2.5 mg/mL (8.21 mM); Clear solution					

BIOLOGICAL ACTIV	
Description	Navamepent is an analog of naturally occurring resolvin E1 (a major dietary omega-3 polyunsaturated fatty-acid metabolite)
	with potent anti-inflammatory and cell survival benefits. Navamepent is highly effective against dry eye and goblet cell loss
	thereby accelerating tear production. Also, Navamepent can reduce corneal inflammation, epithelial damage, and
	accelerate corneal tissue repair. In addition, Navamepent can inhibit the release of several key proinflammatory mediators
	from corneal epithelial cells. Navamepent is a click chemistry reagent, it contains an Alkyne group and can undergo copper-
	catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

#### REFERENCES

# Product Data Sheet

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[1]. Cholkar K, Gilger BC, Mitra AK. 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.

[2]. Torricelli AA, Santhanam A, Agrawal V, Wilson SE. Resolvin E1 analog RX-10045 0.1% reduces corneal stromal haze in rabbits when applied topically after PRK. Mol Vis. 2014;20:1710-1716. Published 2014 Dec 23.

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

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