

Product Data Sheet

Product Name: Navamepent

Cat. No.: GC71525

Chemical Properties

Cas. No. 1251537-11-7

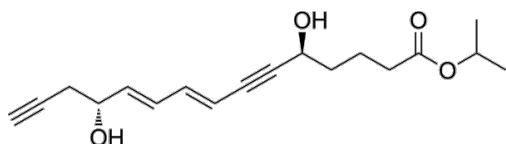
Formula $C_{18}H_{24}O_4$ M.Wt 304.38

Solubility DMSO : 100 mg/mL (328.54 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

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

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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:

- [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.

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