

Latanoprostene bunod

Chemical Properties

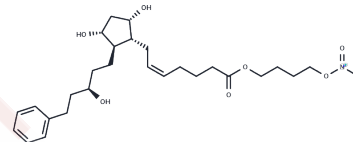
CAS No. : 860005-21-6

Formula: C₂₇H₄₁NO₈

Molecular Weight: 507.62

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	Latanoprostene bunod (LBN) is nitric oxide (NO)-donating prostaglandin F _{2a} analog and is a topical ophthalmic therapeutic. It is used for the reduction of intraocular pressure (IOP) in patients with open-angle glaucoma or ocular hypertension (OHT).
Targets(IC50)	Others,Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 100 mg/mL (197 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: 4 mg/mL (7.88 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

	1mg	5mg	10mg
1 mM	1.970 mL	9.8499 mL	19.6998 mL
5 mM	0.394 mL	1.970 mL	3.940 mL
10 mM	0.197 mL	0.985 mL	1.970 mL
50 mM	0.0394 mL	0.197 mL	0.394 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

Cavet ME, et al. The Role of Nitric Oxide in the Intraocular Pressure Lowering Efficacy of Latanoprostene Bunod: Review of Nonclinical Studies. J Ocul Pharmacol Ther. 2018 Jan/Feb;34(1-2):52-60.

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