

Product Data Sheet

Product Name: Bimatoprost

Cat. No.: GC12687

Chemical Properties

Cas. No. 155206-00-1

Chemical Name (Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(E,3S)-3-hydroxy-5-phenylpent-1-enyl]cyclopentyl]-N-ethylhept-5-enamide

SMILES CCNC(=O)CCCC=CCC1C(CC(C1C=CC(CCC2=CC=CC=C2)O)O)O

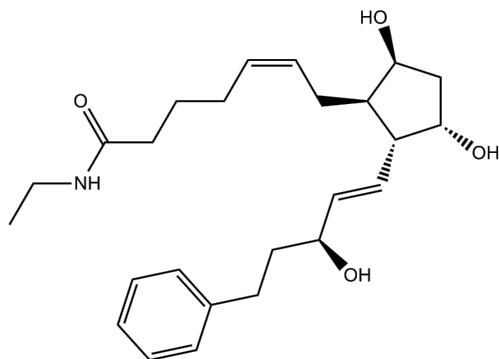
Formula C₂₅H₃₇NO₄ M.Wt 415.57

Solubility ≥ 21.25mg/mL in DMSO Storage Store at -20°C

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

Bimatoprost is a prostaglandin analog used topically (as eye drops) to control the progression of glaucoma and in the management of ocular hypertension. Target: Prostaglandin Receptor. Bimatoprost is a prostaglandin analog/prodrug used topically (as eye drops) to control the progression of glaucoma and in the management of ocular hypertension. It reduces intraocular pressure (IOP) by increasing the outflow of aqueous fluid from the eyes. In December 2008, the indication to lengthen eyelashes was approved by the U.S. Food and Drug Administration (FDA); the cosmetic formulation of bimatoprost is sold as Latisse. In 2008-2011, at least three case series suggested that bimatoprost

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

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has the ability to reduce adipose (fat) tissue. Bimatoprost activates prostamide alpha F2 receptors found in the hair follicle to stimulate its growth rate. Research led by Professor Randall and the University of Bradford found that it may also offer a treatment for scalp hair regrowth in trials conducted on samples taken from men undergoing hair transplants. According to Allergan's package labeling, users of its Latisse cosmetic product didn't develop darker irises in clinical studies; however, "patients should be advised about the potential for increased brown iris pigmentation which is likely to be permanent."

References:

- [1]. Park J, et al. Changes to upper eyelid orbital fat from use of topical bimatoprost, travoprost, and latanoprost. Jpn J Ophthalmol. 2011 Jan;55(1):22-7.
- [2]. Filippopoulos T, et al. Periorbital changes associated with topical bimatoprost. Ophthal Plast Reconstr Surg. 2008 Jul-Aug;24(4):302-7.

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