

Product Name: Latanoprost

Catalog No.: 4757

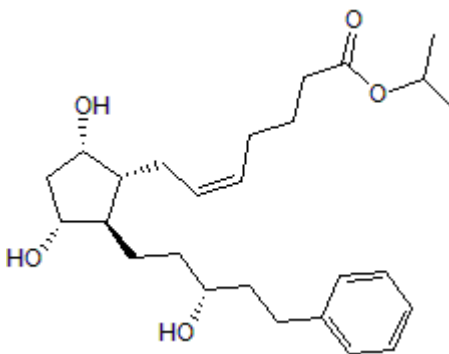
Batch No.: 1

CAS Number: 130209-82-4

IUPAC Name: (5Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(3R)-3-hydroxy-5-phenylpentyl]cyclopentyl]-5-heptanoic acid 1-methylethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₆ H ₄₀ O ₅
Batch Molecular Weight:	432.59
Physical Appearance:	Colourless oil
Solubility:	DMSO to 50 mM ethanol to 50 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 97.3% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = +34.6 (Concentration = 1, Solvent = Chloroform)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

FP prostaglandin receptor agonist; displays greater selectivity than prostaglandin F_{2α} (Cat. No. 4214). Exhibits agonist activity at EP₁ and EP₃ receptors, but little-to-no effect at EP₂, DP, IP and TP prostanoid receptors.

Physical and Chemical Properties:

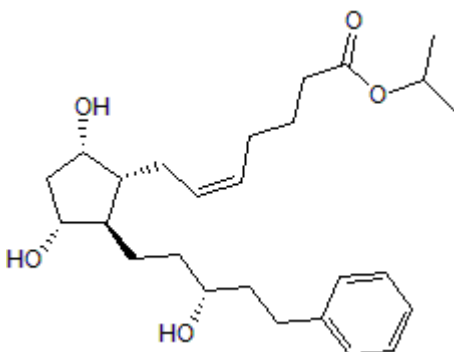
Batch Molecular Formula: C₂₆H₄₀O₅

Batch Molecular Weight: 432.59

Physical Appearance: Colourless oil

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Stjernschantz (2001) From PGF_{2α}-isopropyl ester to latanoprost: a review of the development of xalatan: the Proctor Lecture. Invest.Ophthalmol.Vis.Sci. **42** 1134. PMID: 11328719.

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