

Identification

Catalogue Number

L177310

Lot Number

2-EDT-46-1

Product Name

Latanoprost Acid

Synonyms

(5Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(3R)-3-hydroxy-5-phenylpentyl]cyclopentyl]-5-heptenoic Acid; 13,14-Dihydro-17-phenyl-18,19,20-trinor-PGF₂α; PhXA 85; Latanoprost USP Related Compound E

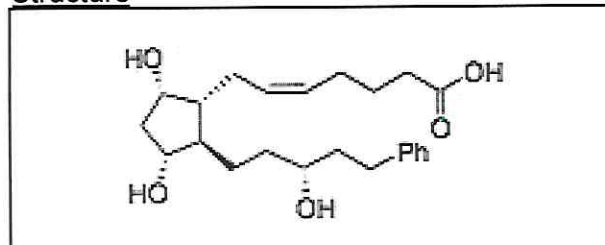
CAS Number

41639-83-2

Solubility

DMSO (Sparingly), Methanol (Slightly)

Structure



Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₂₃H₃₄O₅

Source of Product

N/A

Long Term Storage Conditions

Hygroscopic, -20°C Freezer, Under Inert Atmosphere

Molecular Weight

390.51

Purity

97%

Warnings

Hygroscopic

Analytical Information

| Tests | Specifications | Results |
|--------------------|-----------------------|-------------------------------|
| Appearance | | Clear Colourless Oil |
| NMR | Conforms to structure | Conforms |
| Elemental Analysis | Conforms | Refer: Additional Information |
| MS | Conforms to Structure | Conforms |
| Specific Rotation | Report Results | Refer: Additional Information |

Additional Information

TLC Conditions: SiO₂; Dichloromethane : Methanol : Acetic Acid = 9 : 1 : 0.1; Visualized with AMCS and KMnO₄; Single Spot, R_f = 0.70.

¹H NMR and MS conform to structure.

Elemental Analysis: (Found) %C: 67.73, %H: 8.54; (Calculated) %C: 70.74, %H: 8.78

Specific Rotation: +31.7° (c = 0.2, Methanol)

Contains: 4.0% Dichloromethane, 1.3% Ethyl Acetate

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

Signatures

Reviewed by

Philip Chan

Test Date

6/28/2018

Retest Date

6/26/2022