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Product Information



13(S),14(S)-epoxy Fluprostenol isopropyl ester

Item No. 11170

Formal Name: (Z)-isopropyl 7-((1R,2R,3R,5S)-3,5-dihydroxy-2-((2S,3S)-3-((S)-1-hydroxy-2-(3-(trifluoromethyl)phenoxy)ethyl)oxiran-2-yl)cyclopentyl)hept-5-enoate

Synonyms: Epoxy Derivative 2, 13(S),14(S)-epoxy Travoprost

MF: C₂₆H₃₅F₃O₇

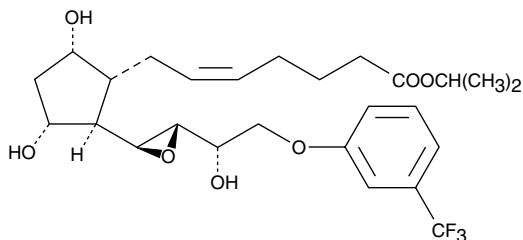
FW: 516.6

Purity: ≥95%

Stability: ≥1 year at -20°C

Supplied as: A solution in methyl acetate

UV/Vis.: λ_{max}: 222, 276 nm



Laboratory Procedures

For long term storage, we suggest that 13(S),14(S)-epoxy fluprostenol isopropyl ester be stored as supplied at -20°C. It should be stable for at least one year.

13(S),14(S)-epoxy Fluprostenol isopropyl ester is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of 13(S),14(S)-epoxy fluprostenol isopropyl ester in ethanol and DMF is approximately 30 mg/ml and approximately 5 mg/ml in DMSO.

13(S),14(S)-epoxy Fluprostenol isopropyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 13(S),14(S)-epoxy travoprost should be diluted with the aqueous buffer of choice. 13(S),14(S)-epoxy Fluprostenol isopropyl ester has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Fluprostenol isopropyl ester (Item No. 16769) is a potent F-series prostaglandin receptor agonist prodrug that finds clinical use as an ocular hypotensive agent for the treatment of glaucoma.^{1,2} 13,14-epoxy Fluprostenol isopropyl ester (Item No. 13679) is an impurity generated in the production of fluprostenol isopropyl ester. This product is a chiral enantiomer of the epoxide. The pharmacology of 13(S),14(S)-epoxy fluprostenol isopropyl ester has not been studied extensively to date.

References

1. Sorbera, L.A. and Castañer, J. Travoprost. *Drugs Future* **25**, 41-45 (2000).
2. Hellberg, M.R., Sallee, V.L., McLaughlin, M.A., *et al.* Preclinical efficacy of travoprost, a potent and selective FP prostaglandin receptor agonist. *J. Ocul. Pharmacol. Ther.* **17(5)**, 421-432 (2001).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11170

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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