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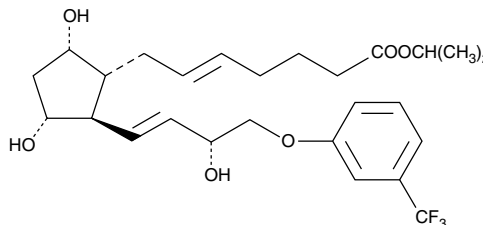
Product Information



5-*trans* Fluprostenol isopropyl ester

Item No. 16777

CAS Registry No.: 1563176-59-9
Formal Name: 9,11,15-trihydroxy-16-(3-(trifluoromethyl)phenoxy)-17,18,19,20-tetranor-prosta-5E,13E-dien-1-oic acid, isopropyl ester
Synonyms: 5,6-*trans* Fluprostenol isopropyl ester, 5-*trans* Travoprost
MF: C₂₆H₃₅F₃O₆
FW: 500.6
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 5-*trans* Fluprostenol isopropyl ester (5-*trans* Travoprost) be stored as supplied at -20°C. It should be stable for at least two years.

5-*trans* Travoprost is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 5-*trans* Travoprost in these solvents is approximately 20 mg/ml. 5-*trans* Travoprost is stable for at least six months in these solvents if stored at -20°C.

5-*trans* Travoprost is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5-*trans* Travoprost should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 5-*trans* Travoprost has a solubility of 500 µg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Travoprost is the Alcon trade name for fluprostenol isopropyl ester, an F-series prostaglandin analog which has been approved for use as an ocular hypotensive drug.¹ It is a prodrug which is converted by esterase enzymatic activity in the cornea to yield the corresponding free acid.² 5-*trans* Travoprost is an impurity that is routinely found in bulk lots of Travoprost in amounts ranging from 1-3%. The pharmacology of 5-*trans* Travoprost has not been studied extensively to date.

References

- 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).
- Sorbera, L.A. and Castañer, J. Travoprost. *Drugs of the Future* **25**, 41-45 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16777

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

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