



# SZABO SCANDIC

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## Produktinformation



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# Product Information



## 13(R),14(R)-epoxy Fluprostenol isopropyl ester

Item No. 11169

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

**Synonyms:** Epoxy Derivative 1, 13(R),14(R)-epoxy Travoprost

**MF:** C<sub>26</sub>H<sub>35</sub>F<sub>3</sub>O<sub>7</sub>

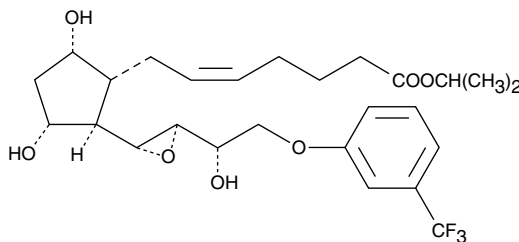
**FW:** 516.6

**Purity:** ≥95%

**Stability:** ≥1 year at -20°C

**Supplied as:** A solution in methyl acetate

**UV/Vis.:** λ<sub>max</sub>: 222, 276 nm



### Laboratory Procedures

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

13(R),14(R)-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(R),14(R)-epoxy fluprostenol isopropyl ester in ethanol and DMF is approximately 30 mg/ml and approximately 5 mg/ml in DMSO.

13(R),14(R)-epoxy Fluprostenol isopropyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 13(R),14(R)-epoxy fluprostenol isopropyl ester should be diluted with the aqueous buffer of choice. 13(R),14(R)-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.<sup>1,3</sup> 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(R),14(R)-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/11169](http://www.caymanchem.com/catalog/11169)

**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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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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