



# SZABO SCANDIC

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## Produktinformation



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# Product Information



## 13,14-epoxy Fluprostenol isopropyl ester

Item No. 13679

**Formal Name:** 9 $\alpha$ ,11 $\alpha$ ,15R-trihydroxy-16-(3-trifluoromethyl)-13,14-epoxy-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic-acid, isopropyl ester

**Synonym:** 13,14-epoxy Travoprost

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

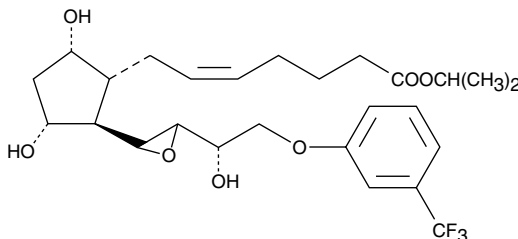
**FW:** 516.6

**Purity:**  $\geq$ 95% (epoxide mixture)

**Stability:**  $\geq$ 1 year at -20°C

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

**UV/Vis.:**  $\lambda_{\max}$ : 222, 276 nm



### Laboratory Procedures

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

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

13,14-epoxy Fluprostenol isopropyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of 13,14-epoxy fluprostenol isopropyl ester should be diluted with the aqueous buffer of choice. 13,14-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 that finds clinical use as an ocular hypotensive agent for the treatment of glaucoma.<sup>1,2</sup> 13,14-epoxy Fluprostenol isopropyl ester is an impurity generated in the production of fluprostenol isopropyl ester. This product is a 4:96 diastereomeric mixture of epoxides.

### References

1. Sorbera, L.A. and Castañer, J. Travoprost. *Drugs of the 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/13679](http://www.caymanchem.com/catalog/13679)

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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.**

#### 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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