



# SZABO SCANDIC

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## Produktinformation



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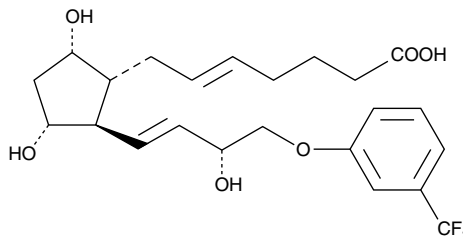
# Product Information



## 5-*trans* Fluprostenol

Item No. 16776

**CAS Registry No.:** 57968-83-9  
**Formal Name:** 9,11,15-trihydroxy-16-(3-(trifluoro-methyl)phenoxy)-17,18,19,20-tetranor-prosta-5E,13E-dien-1-oic acid  
**Synonym:** 5,6-*trans* Fluprostenol  
**MF:** C<sub>23</sub>H<sub>29</sub>F<sub>3</sub>O<sub>6</sub>  
**FW:** 458.5  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A solution in ethanol  
**UV/Vis.:** λ<sub>max</sub>: 222, 277 nm



### Laboratory Procedures

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

5-*trans* Fluprostenol 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* fluprostenol in these solvents is approximately 100 mg/ml. Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 5-*trans* fluprostenol is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 5-*trans* fluprostenol in PBS (pH 7.2) is approximately 15 mg/ml.

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.<sup>1</sup> Fluprostenol isopropyl ester is a prodrug which is converted by esterase enzymatic activity in the cornea to yield the corresponding free acid, fluprostenol.<sup>2</sup>

5-*trans* Fluprostenol is an impurity that is routinely found in bulk preparations of fluprostenol in amounts ranging from 1-3%. This impurity occurs in the finished prodrug Travoprost in similar amounts. The pharmacology of 5-*trans* fluprostenol has not been studied extensively to date.

### References

1. 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).
2. 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/16776](http://www.caymanchem.com/catalog/16776)

**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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