



# SZABO SCANDIC

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## Produktinformation



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- Expressversand

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# PRODUCT INFORMATION

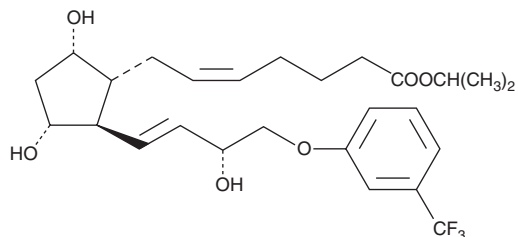


## Fluprostenol isopropyl ester

Item No. 16769

**CAS Registry No.:** 157283-68-6  
**Formal Name:** 7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-[3-(trifluoromethyl)phenoxy]-1-buten-1-yl]cyclopentyl]-5Z-heptenoic acid, 1-methylethyl ester  
**Synonyms:** AL-6221, Flu-lpr, 16-m-trifluoromethylphenoxy tetranor PGF<sub>2a</sub> isopropyl ester, Travoprost

**MF:** C<sub>26</sub>H<sub>35</sub>F<sub>3</sub>O<sub>6</sub>  
**FW:** 500.6  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 220, 280 nm  
**Supplied as:** A solution in ethanol  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Fluprostenol isopropyl ester 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 (+)-fluprostenol isopropyl ester in these solvents is approximately 20 mg/ml. Fluprostenol isopropyl ester is stable for at least six months in these solvents if stored at -20°C.

Fluprostenol isopropyl ester is sparingly soluble in aqueous buffers. Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. For maximum solubility in aqueous buffers, fluprostenol isopropyl ester should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Fluprostenol isopropyl ester has a solubility of approximately 500 µg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Fluprostenol isopropyl ester is an analog of prostaglandin F<sub>2a</sub> (PGF<sub>2a</sub>; Item Nos. 16010 | 16020) and an isopropyl ester prodrug form of (+)-fluprostenol (Item No. 16768).<sup>1,2</sup> Fluprostenol isopropyl ester is an FP receptor agonist, inducing phosphoinositide turnover in HEK293 cells expressing the human ocular FP receptor with an EC<sub>50</sub> value of 40.2 nM.<sup>3</sup> Topical application of fluprostenol isopropyl ester (0.01, 0.03, and 0.1 µg) induces miosis in conscious cats in a dose-dependent manner.<sup>{9613}</sup> It reduces intraocular pressure in a cynomolgus monkey model of ocular hypertension when administered topically at doses of 0.1 and 0.3 µg twice per day. Formulations containing fluprostenol isopropyl ester have been used in the treatment of open-angle glaucoma and ocular hypertension.

### References

1. Sorbera, L. A. and Castañer, J. Travoprost. *Drugs Future* **25(1)**, 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).
3. Sharif, N.A., Kelly, C.R., Crider, J.Y., et al. Ocular hypotensive FP prostaglandin (PG) analogs: PG receptor subtype binding affinities and selectivities, and agonist potencies at FP and other PG receptors in cultured cells. *J. Ocul. Pharmacol. Ther.* **19(6)**, 50-515 (2003).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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