

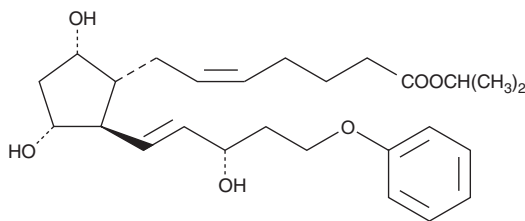
Product Information



17-phenoxy trinor Prostaglandin F_{2α} isopropyl ester

Item No. 10010723

Formal Name: 9α,11α,15S-trihydroxy-17-phenoxy-prosta-5Z,13E-dien-1-oic acid, isopropyl ester
Synonym: 17-phenoxy PGF_{2α} isopropyl ester
MF: C₂₆H₃₈O₆
FW: 446.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 17-phenoxy prostaglandin F_{2α} isopropyl ester (17-phenoxy PGF_{2α} isopropyl ester) be stored as supplied at -20°C. It should be stable for at least one year.

17-phenoxy PGF_{2α} 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 17-phenoxy PGF_{2α} isopropyl ester 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 17-phenoxy PGF_{2α} isopropyl ester is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 17-phenoxy PGF_{2α} isopropyl ester in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

The actions of many clinical F-series PGs, including those used for estrous synchronization and reduction of intraocular pressure (IOP), are mediated through the PGF_{2α} (FP) receptor.¹⁻³ 17-phenoxy PGF_{2α} isopropyl ester is an analog of PGF_{2α} containing a 17-phenoxy group on the lower side chain and an isopropyl ester at the C-1 position. There are no published reports on the biological activity of 17-phenoxy PGF_{2α} isopropyl ester.

References

1. Szulc, Z.M., Hannun, Y.A., and Bielawska, A. A facile regioselective synthesis of sphingosine 1-phosphate and ceramide 1-phosphate. *Tetrahedron Lett.* **41**, 7821-7824 (2000).
2. Resul, B., Stjerschantz, J., Selén, G., *et al.* Structure-activity relationships and receptor profiles of some ocular hypotensive prostanoids. *Survey of Ophthalmology* **41**, S47-S52 (1997).
3. Clark, A.F. and Yorio, T. Ophthalmic drug discovery. *Nature* **2**, 448-459 (2003).

Related Products

Prostaglandin F_{2α} - Item No. 16010 • Prostaglandin F_{2α} isopropyl ester - Item No. 16030 • 8-*iso* Prostaglandin F_{2α} - Item No. 16350 • 17-phenoxy trinor Prostaglandin F_{2α} ethyl amide - Item No. 10010742 • 17-phenoxy trinor Prostaglandin F_{2α} - Item No. 10010839

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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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