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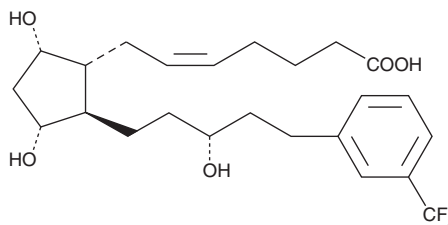
Product Information



17-trifluoromethylphenyl-13,14-dihydro trinor Prostaglandin F_{2α}

Item No. 16895

CAS Registry No.: 294856-01-2
Formal Name: 9α,11α,15R-trihydroxy-17-(3-(trifluoromethyl)phenyl)-18,19,20-trinor-prosta-5Z-en-1-oic acid
Synonym: 17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α}
MF: C₂₄H₃₃O₅F₃
FW: 458.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that 17-trifluoromethylphenyl-13,14-dihydro trinor Prostaglandin F_{2α} (17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α}) be stored as supplied at -20°C. It should be stable for at least one year.

17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α} 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 purged with an inert gas can be used. The solubility of 17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α} in these solvents is approximately 25 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-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α} is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α} in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

A number of 17-phenyl trinor PGF_{2α} derivatives have been approved for the treatment of glaucoma.¹⁻⁴ Of these, the ones wherein the 13,14-double bond has been hydrogenated retain relatively good potency, but show a significantly reduced incidence of local irritant side effects.⁵ 17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α} bears an aromatic ring which is reminiscent of the trifluoromethyl-phenoxy ring of travoprost ((+)-fluprostenol isopropyl ester). As an ocular hypotensive agent, it would be expected that 17-trifluoromethylphenyl-13,14-dihydro trinor PGF_{2α} would act very much like the free acid of latanoprost.

References

1. Woodward, D.F., Krauss, A.H.-P., Chen, J., *et al.* The pharmacology of Bimatoprost (Lumigan™). *Survey of Ophthalmology* **45**, S337-S345 (2001).
2. Abramovitz, M., Adam, M., Boie, Y., *et al.* The utilization of recombinant prostanoid receptors to determine the affinities and selectivities of prostaglandins and related analogs. *Biochim. Biophys. Acta* **1483**, 285-293 (2000).
3. Sorbera, L.A. and Castañer, J., Travoprost. *Drugs of the Future* **25**, 41-45 (2000).
4. Maxey, K.M., Johnson, J., Camras, C.B., *et al.* The hydrolysis of bimatoprost in corneal tissue generates a potent prostanoid FP receptor agonist. *Survey of Ophthalmology* **47**(4), 34-40 (2002).
5. Resul, B., Stjerschantz, J., No, K., *et al.* Phenyl-substituted prostaglandins: Potent and selective antiglaucoma agents. *J. Med. Chem.* **36**, 243-248 (1993).

Related Products

(+)-Fluprostenol - Item No. 16768 • (+)-Fluprostenol isopropyl ester - Item No. 16769 • 17-phenyl trinor Prostaglandin F_{2α} - Item No. 16810 • Latanoprost (free acid) - Item No. 16811 • Latanoprost - Item No. 16812 • 17-trifluoromethylphenyl trinor Prostaglandin F_{2α} - Item No. 16890 • 17-trifluoromethylphenyl trinor Prostaglandin F_{2α} methyl ester - Item No. 10010111

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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