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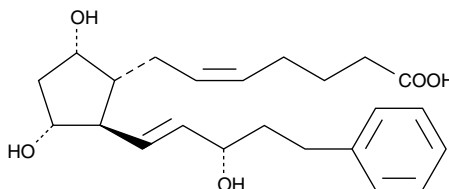
Product Information



17-phenyl trinor Prostaglandin F_{2α}

Item No. 16810

CAS Registry No.: 38344-08-0
Formal Name: 9α,11α,15S-trihydroxy-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-oic acid
Synonyms: Bimatoprost (free acid), 17-phenyl trinor PGF_{2α}
MF: C₂₃H₃₂O₅
FW: 388.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

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

17-phenyl trinor PGF_{2α} is supplied as a crystalline solid. A stock solution may be made by dissolving the 17-phenyl trinor PGF_{2α} in an organic solvent purged with an inert gas. 17-phenyl trinor PGF_{2α} is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 17-phenyl trinor PGF_{2α} 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. Organic solvent-free aqueous solutions of 17-phenyl trinor PGF_{2α} can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 17-phenyl trinor PGF_{2α} in PBS (pH 7.2) is approximately 800 µg/ml. We do not recommend storing the aqueous solution for more than one day.

17-phenyl trinor PGF_{2α} is a metabolically stable analog of PGF_{2α} and is a potent agonist for the FP receptor. It binds to the FP receptor on ovine luteal cells with a relative potency of 756% compared to that of PGF_{2α}.¹ At the rat recombinant FP receptor expressed in CHO cells 17-phenyl trinor PGF_{2α} inhibits PGF_{2α} binding with a K_i value of 1.1 nM.² The isopropyl ester of 17-phenyl trinor PGF_{2α} is slightly better than PGF_{2α} isopropyl ester in reducing the intraocular pressure in the cat eye without any irritation.³

References

1. Balapure, A.K., Rexroad, C.E., Jr., Kawada, K., *et al.* Structural requirements for prostaglandin analog interaction with the ovine corpus luteum prostaglandin F_{2α} receptor. Implications for development of a photoaffinity probe. *Biochem. Pharmacol.* **38**, 2375-2381 (1989).
2. Lake, S., Gullberg, H., Wahlqvist, J., *et al.* Cloning of the rat and human prostaglandin F_{2α} receptors and the expression of the rat prostaglandin F_{2α} receptor. *FEBS Lett.* **355**, 317-325 (1994).
3. Stjerschantz, J. and Resul, B. Phenyl substituted prostaglandin analogs for glaucoma treatment. *Drugs of the Future* **17**, 691-704 (1992).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16810

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

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 Safety Data Sheet, which has been sent via email to your institution.

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