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Product Information



17-phenyl trinor Prostaglandin F_{2α} 1,15-lactone

Item No. 13992

Formal Name: 9α,11α,15S-trihydroxy-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-oic acid, 1,15-lactone

Synonyms: Bimatoprost free acid 1,15 lactone, 17-phenyl trinor PGF_{2α} 1,15-lactone

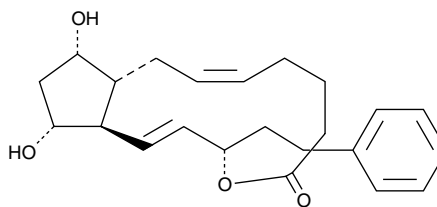
MF: C₂₃H₃₀O₄

FW: 370.5

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} 1,15-lactone (17-phenyl trinor PGF_{2α} 1,15-lactone) be stored as supplied at -20°C. It should be stable for at least two years.

17-phenyl trinor PGF_{2α} 1,15-lactone is supplied as a crystalline solid. A stock solution may be made by dissolving the 17-phenyl trinor PGF_{2α} 1,15-lactone in the solvent of choice. 17-phenyl trinor PGF_{2α} 1,15-lactone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 17-phenyl trinor PGF_{2α} 1,15-lactone in these solvents is approximately 16, 12.5, and 14 mg/ml, respectively.

17-phenyl trinor PGF_{2α} 1,15-lactone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 17-phenyl trinor PGF_{2α} 1,15-lactone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 17-phenyl trinor PGF_{2α} 1,15-lactone has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

17-phenyl trinor PGF_{2α} (Item No. 16810) is a metabolically stable analog of PGF_{2α} (Item No. 16010) with potent FP receptor agonist activity and well known intraocular pressure-reducing effects.¹⁻³ 17-phenyl trinor PGF_{2α} 1,15-lactone is the 1,15 lactone of 17-phenyl-trinor PGF_{2α}. Selective F-series PG derivatives such as this compound have been developed for suitable pharmacologic activity and an improved side-effect profile over current glaucoma therapeutics.^{4,5}

References

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- 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).
- Woodward, D.F., Krauss, A.H.-P., Chen, J., *et al.* The pharmacology of Bimatoprost (Lumigan™). *Surv. Ophthalmol.* **45**, S337-S345 (2001).
- Stjerschantz, J.W. From PGF_{2α}-isopropyl ester to latanoprost: A review of the development of xalatan. The proper lecture. *Invest. Ophthalmol. Vis. Sci.* **42**(6), 1134-1145 (2001).
- Maxey, K.M. and Stanton, M.L. Internal 1,15-lactones of fluprostenol and related prostaglandin F_{2α} analogs and their use in the treatment of glaucoma and intraocular hypertension. US Patent 7,674,921 B2 (2010), 12/036,349.

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13992

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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