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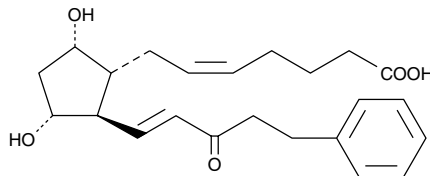
Product Information



15-keto-17-phenyl trinor Prostaglandin F_{2α}

Item No. 16817

CAS Registry No.: 949564-89-0
Formal Name: 9α,11α-dihydroxy-15-oxo-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-oic acid
Synonym: 15-keto-17-phenyl trinor PGF_{2α}
MF: C₂₃H₃₀O₅
FW: 386.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that 15-keto-17-phenyl trinor prostaglandin F_{2α} (15-keto-17-phenyl trinor PGF_{2α}) be stored as supplied at -20°C. It should be stable for at least one year.

15-keto-17-phenyl 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 15-keto-17-phenyl 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 15-keto-17-phenyl 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 15-keto-17-phenyl trinor PGF_{2α} in PBS (pH 7.2) is approximately 2.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Bimatoprost is an F-series prostaglandin analog which has been approved for use as an ocular hypotensive drug.¹ Oxidation of the C-15 hydroxyl group and amide hydrolysis of bimatoprost produces 15-keto-17-phenyl-trinor PGF_{2α}. 15-keto-17-phenyl trinor PGF_{2α} is a potential metabolite of bimatoprost when administered to animals. 15-keto PG analogs are potential minor impurities in commercial preparations of their corresponding bulk drug compounds.

Although much less potent than the parent compound, 15-keto PGs still retain the ability to produce a small but measurable decrease (1 mm Hg) in the intraocular pressure of normal cynomolgus monkeys when administered at a dose of 1 µg/eye.² 15-keto Latanoprost (15-keto-17-phenyl-13,14-dihydro trinor PGF_{2α} isopropylester) is a miotic in the normal cat eye, causing an 8 mm reduction in pupillary diameter at 5 µg/eye. Again, this is not as potent as many other F-type prostaglandins; for example, PGF_{2α} will produce this degree of miosis at a dose of less than 1 µg/eye.

References

1. Cantor, L.B. Bimatoprost: a member of a new class of agents, the prostamides, for glaucoma management. *Exp. Opin. Invest. Drugs* **10**, 721-731 (2001).
2. 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/16817

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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