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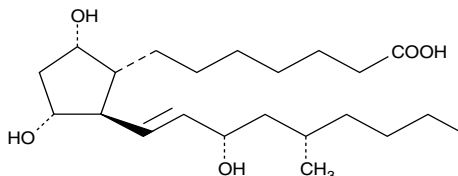
Product Information



17,20-dimethyl Prostaglandin F_{1α}

Item No. 15790

Formal Name: 9α,11α,15S-trihydroxy-17S,20-dimethyl-prost-13E-en-1-oic acid
Synonym: 17,20-dimethyl PGF_{1α}
MF: C₂₂H₄₀O₅
FW: 386.5
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

17,20-dimethyl Prostaglandin F_{1α} (17,20-dimethyl PGF_{1α}) is an analog of the limaprost family with structural modifications intended to give it a prolonged half life and greater potency. For long term storage, we suggest that 17,20-dimethyl PGF_{1α} be stored as supplied at -20°C. It will be stable for approximately one year.

17,20-dimethyl PGF_{1α} is supplied as a crystalline solid. A stock solution may be made by dissolving the 17,20-dimethyl PGF_{1α} in an organic solvent. 17,20-dimethyl PGF_{1α} is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 17,20-dimethyl PGF_{1α} in these solvents is approximately 30 mg/ml. 17,20-dimethyl PGF_{1α} will be stable for at least six months in these solvents if stored at -20°C.

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 17,20-dimethyl PGF_{1α} can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 17,20-dimethyl PGF_{1α} in PBS (pH 7.2) is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Limaprost is an analog of PGE₁ which is orally active in both rats and guinea pigs.¹ The additional methyl groups in the lower side chain confer a 10 - 1000 fold increase in potency over the parent compound.¹ 17,20-dimethyl PGF_{1α} has lower side chain modifications identical to limaprost. There are no published reports describing the pharmacology of 17,20-dimethyl PGF_{1α}.

Reference

1. Tsuboi, T., Hatano, N., Nakatsuji, K., *et al.* Pharmacological evaluation of OP 1206, a prostaglandin E₁ derivative, as an antianginal agent. *Arch. Int. Pharmacodyn.* **247**, 89-102 (1980).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15790

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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

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