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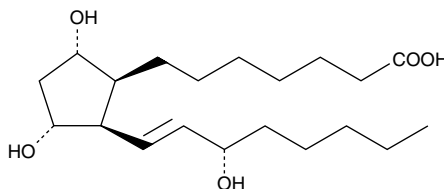
Product Information



8-*iso* Prostaglandin F_{1α}

Item No. 15350

CAS Registry No.: 26771-96-0
Formal Name: 9α,11α,15S-trihydroxy-(8β)-prost-13E-en-1-oic acid
Synonym: 8-*epi* Prostaglandin F_{1α}
MF: C₂₀H₃₆O₅
FW: 356.5
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

8-*iso* Prostaglandin F_{1α} (8-*iso* PGF_{1α}) is an isoprostane that was first identified in human semen.¹ For long term storage, we suggest that 8-*iso* PGF_{1α} be stored as supplied at -20°C. It will be stable for at least two years.

8-*iso* PGF_{1α} is supplied as a crystalline solid. A stock solution may be made by dissolving the 8-*iso* PGF_{1α} in an organic solvent. 8-*iso* PGF_{1α} is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 8-*iso* PGF_{1α} in these solvents is approximately 50 mg/ml. 8-*iso* 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 8-*iso* PGF_{1α} can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 8-*iso* PGF_{1α} in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

8-*iso* PGF_{1α} is a member of the isoprostane family, which are eicosanoids of non-cyclooxygenase origin. 8-*iso* PGF_{1α} is found in human semen along with its 19-hydroxy congener at 5-10 µg/ml of seminal plasma.²

References

1. Svanborg, K., Bygdeman, M., and Eneroth, P. The F and 19-hydroxy F prostaglandins and their 8-isomers in human seminal plasma: Data on chromatography and mass spectrometry. *Biomedical Mass Spectrometry* **10**, 495-498 (1983).
2. Taylor, P.L. The 8-isoprostaglandins: Evidence for eight compounds in human semen. *Prostaglandins* **17**, 259-267 (1979).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15350

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

SAFETY DATA

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