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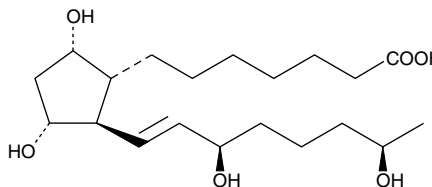
Product Information



15(R),19(R)-hydroxy Prostaglandin F_{1α}

Item No. 15920

Formal Name: 9α,11α,15R,19R-tetrahydroxy-prost-13E-en-1-oic acid
MF: C₂₀H₃₆O₆
FW: 372.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 15(R),19(R)-hydroxy Prostaglandin F_{1α} (15(R),19(R)-hydroxy PGF_{1α}) be stored as supplied at -20°C. It will be stable for at least one year.

15(R),19(R)-hydroxy PGF_{1α} is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 15(R),19(R)-hydroxy PGF_{1α} in these solvents is approximately 100 mg/ml. 15(R),19(R)-hydroxy PGF_{1α} is 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. If an organic solvent-free solution of 15(R),19(R)-hydroxy PG_{1α} is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 15(R),19(R)-hydroxy PGF_{1α} in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

19(R)-Hydroxylated prostaglandins occur in µg/ml concentrations in the semen of certain mammalian species, especially primates. In the case of humans, the compounds are primarily of the PGE series, and the hydroxyl stereochemistry is 15(S),19(R).¹ 19(R)-Hydroxylated prostaglandins are also found in the seminal plasma of marsupials, where F-type compounds of the 1 and 2-series predominate.² The 15(R)-hydroxy epimer of these 19-hydroxylated prostaglandins is the inverse or "unnatural" isomer at C-15. The biological role of 19(R)-hydroxylated prostaglandins is not well established. In the F-series, 19(R)-hydroxylation is associated with a significant loss of receptor-mediated biological activity in some assays.³

References

1. Cooper, I. and Kelly, R.W. The measurement of E and 19-hydroxy E prostaglandins in human seminal plasma. *Prostaglandins* **10**, 507-514 (1975).
2. Marley, P.B., Rodger, J.C., White, I.G., *et al.* 19-Hydroxylated prostaglandins in the semen of the marsupial *Trichosurus vulpecula* (brush-tailed possum). *Comp. Biochem. Physiol.* **70B**, 619-621 (1981).
3. Woodward, D.F., Protzman, C.E., Krauss, A.H.P., *et al.* Identification of 19(R)-OH prostaglandin E₂ as a selective prostanoid EP₂-receptor agonist. *Prostaglandins* **46**, 371-383 (1993).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15920

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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