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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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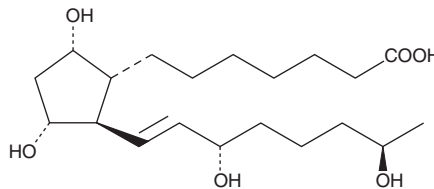
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PRODUCT INFORMATION



19(R)-hydroxy Prostaglandin F_{1α} Item No. 15910

CAS Registry No.: 81371-59-7
Formal Name: 9α,11α,15S,19R-tetrahydroxy-prost-13E-en-1-oic acid
Synonym: 19(R)-hydroxy PGF_{1α}
MF: C₂₀H₃₆O₆
FW: 372.5
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

19(R)-hydroxy Prostaglandin F_{1α} (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 19(R)-hydroxy PGF_{1α} in these solvents is approximately 50 mg/ml. 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 19(R)-hydroxy PGF_{1α} is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 19(R)-hydroxy 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.

Description

19(R)-hydroxy PGF_{1α} is an ω-1 hydroxylase metabolite of PGF_{1α} that has been identified in the semen of humans and marsupials.^{1,2} There are no published reports on the biological activity of 19(R)-hydroxy PGF_{1α}.

References

1. Taylor, P.L. and Kelly, R.W. The occurrence of 19-hydroxy F prostaglandins in human semen. *FEBS Lett.* **57**, 22-25 (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).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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