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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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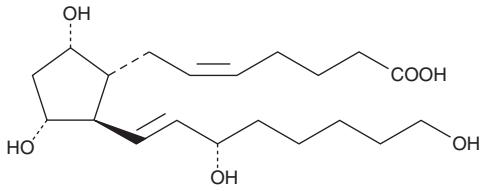
PRODUCT INFORMATION

20-hydroxy Prostaglandin $F_{2\alpha}$

Item No. 16950

CAS Registry No.: 57930-92-4
Formal Name: 9α,11α,15S,20-tetrahydroxy-prosta-5Z,13E-dien-1-oic acid
Synonym: 20-hydroxy $PGF_{2\alpha}$
MF: $C_{20}H_{34}O_6$
FW: 370.5
Purity: ≥98%
Supplied as: A solution in methyl acetate
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

20-hydroxy Prostaglandin $F_{2\alpha}$ (20-hydroxy $PGF_{2\alpha}$) 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 DMSO, ethanol, and dimethyl formamide purged with an inert gas can be used. The solubility of 20-hydroxy $PGF_{2\alpha}$ in these solvents is approximately 100 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 20-hydroxy $PGF_{2\alpha}$ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 20-hydroxy $PGF_{2\alpha}$ in PBS (pH 7.2) is approximately 10 mg/ml. Store aqueous solutions of 20-hydroxy $PGF_{2\alpha}$ on ice and use within 12 hours of preparation.

Description

20-hydroxy $PGF_{2\alpha}$ is the ω-oxidation product of $PGF_{2\alpha}$. Cultured type II alveolar cells from pregnant rabbits metabolize exogenous $PGF_{2\alpha}$ *via* microsomal cytochrome P450 ω-oxidation, producing 20-hydroxy $PGF_{2\alpha}$ and its 15-hydroxy PGDH metabolites. Cells from male rabbits exhibit only the 15-hydroxy PGDH pathway.[1]

Reference

1. Devereux, T.R., Fouts, J.R., and Eling, T.E. Metabolism of prostaglandin PG-$F2_{\alpha}$ by freshly isolated alveolar type II cells from lungs of adult male or pregnant rabbits. *Prostaglandins Leukot. Med.* **27,** 43-52 (1987).

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