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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



tetranor-Prostaglandin E₁

Item No. 26702

CAS Registry No.: 23923-84-4
Formal Name: (1R,2R,3R)-3-hydroxy-2-[(1E,3S)-3-hydroxy-1-octen-1-yl]-5-oxo-cyclopentanepropanoic acid

Synonyms: 7 α ,11-Dihydroxy-5-ketotetranorprost-9-enoic Acid, Tetranor PGE₁, Tetranorprostaglandin E₁

MF: C₁₆H₂₆O₅

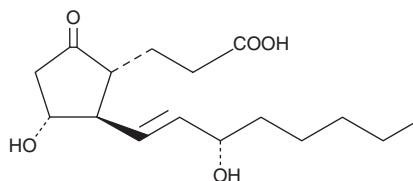
FW: 298.4

Purity: ≥95%

Supplied as: A solution in ethanol

Storage: -20°C

Stability: ≥1 year



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

Laboratory Procedures

tetranor-Prostaglandin E₁ 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 tetranor-prostaglandin E₁ 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 tetranor-prostaglandin E₁ is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of tetranor-prostaglandin E₁ in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

tetranor-Prostaglandin E₁ (tetranor-PGE₁) is metabolite of PGE₁ (Item No. 13010) and PGE₂ (Item No. 14010) that is formed by β -oxidation.^{1,2}

References

- Oates, J.A., Sweetman, B.J., Gréene, K., *et al.* Identification and assay of tetranor-prostaglandin E₁ in human urine. *Anal. Biochem.* **74**(2), 546-559 (1976).
- Kimbrough, J.R., Jana, S., Kim, K., *et al.* Synthesis of tetranor-PGE₁: A urinary metabolite of prostaglandins E₁ and E₂. *Tetrahedron Lett.* **61**(22), 151922 (2020).

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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