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Produktinformation

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- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Information

16-phenoxy tetranor Prostaglandin $F_{2\alpha}$ methyl amide

Item No. 10010562

Formal Name: 9α,11α,15R-trihydroxy-16-phenoxy-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic acid, methyl amide

Synonym: 16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide

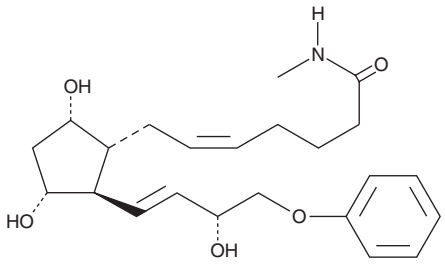
MF: $C_{23}H_{33}NO_5$

FW: 403.5

Purity: ≥98%

Stability: ≥1 year at -20°C

Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 16-phenoxy tetranor prostaglandin $F_{2\alpha}$ methyl amide (16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide) be stored as supplied at -20°C. It should be stable for at least one year.

16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide 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 16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide 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 16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

$PGF_{2\alpha}$ drives luteolysis and smooth muscle contraction by activating the FP receptor. Stable, lipophilic analogs of $PGF_{2\alpha}$ are used to modulate luteolysis and treat glaucoma. 16-phenoxy tetranor $PGF_{2\alpha}$ is a metabolically stable form of $PGF_{2\alpha}$ containing a 16-phenoxy group at the ω-terminus. It binds to the FP receptor on ovine luteal cells with much greater affinity (440%) than $PGF_{2\alpha}$.[1] 16-phenoxy tetranor $PGF_{2\alpha}$ methyl amide is a lipophilic analog of 16-phenoxy tetranor $PGF_{2\alpha}$. Methyl amides of PGs may serve as prodrugs, as they are hydrolyzed in certain tissues to generate the bioactive free acid.

Reference

1. Balapure, A.K., Rexroad, C.E., Jr., Kawada, K., *et al.* Structural requirements for prostaglandin analog interaction with the ovine corpus luteum prostaglandin $F_{2\alpha}$ receptor. *Biochem. Pharmacol.* **38**, 2375-2381 (1989).

Related Products

16-phenoxy tetranor Prostaglandin A_2 - Item No. 10285 • 16-phenoxy tetranor Prostaglandin E_2 - Item No. 14760 • 16-phenoxy tetranor Prostaglandin $F_{2\alpha}$ - Item No. 16760 • 16-phenoxy tetranor Prostaglandin $F_{2\alpha}$ methyl ester - Item No. 10010102 • 16-phenoxy tetranor Prostaglandin $F_{2\alpha}$ cyclopropyl methyl amide - Item No. 10010809

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