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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Product Information



16-phenoxy tetranor Prostaglandin F_{2α} 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_{2α} methyl amide

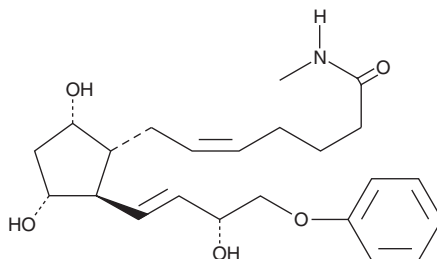
MF: C₂₃H₃₃NO₅

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_{2α} methyl amide (16-phenoxy tetranor PGF_{2α} methyl amide) be stored as supplied at -20°C. It should be stable for at least one year.

16-phenoxy tetranor PGF_{2α} 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_{2α} 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_{2α} 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_{2α} 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_{2α} drives luteolysis and smooth muscle contraction by activating the FP receptor. Stable, lipophilic analogs of PGF_{2α} are used to modulate luteolysis and treat glaucoma. 16-phenoxy tetranor PGF_{2α} is a metabolically stable form of PGF_{2α} 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_{2α}.¹ 16-phenoxy tetranor PGF_{2α} methyl amide is a lipophilic analog of 16-phenoxy tetranor PGF_{2α}. 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_{2α} receptor. *Biochem. Pharmacol.* **38**, 2375-2381 (1989).

Related Products

16-phenoxy tetranor Prostaglandin A₂ - Item No. 10285 • 16-phenoxy tetranor Prostaglandin E₂ - Item No. 14760 • 16-phenoxy tetranor Prostaglandin F_{2α} - Item No. 16760 • 16-phenoxy tetranor Prostaglandin F_{2α} methyl ester - Item No. 10010102 • 16-phenoxy tetranor Prostaglandin F_{2α} cyclopropyl methyl amide - Item No. 10010809

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL 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 Material Safety Data Sheet, which has been sent *via* email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com