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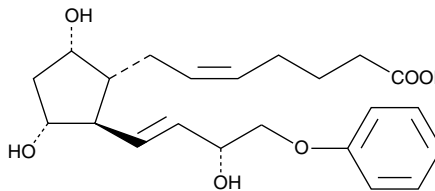
Product Information



16-phenoxy tetranor Prostaglandin F_{2α}

Item No. 16760

CAS Registry No: 51705-19-2
Formal Name: 9α,11α,15R-trihydroxy-16-phenoxy-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic acid
MF: C₂₂H₃₀O₆
FW: 390.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate
UV/Vis: λ_{max}: 219 nm ε: 12,000



Laboratory Procedures

16-phenoxy tetranor Prostaglandin F_{2α} (16-phenoxy tetranor PGF_{2α}) is a metabolically stable analog of PGF_{2α}. For long term storage, we suggest that 16-phenoxy tetranor PGF_{2α} be stored as supplied at -20°C. It should be stable for at least one year.

16-phenoxy tetranor PGF_{2α} 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 16-phenoxy tetranor PGF_{2α} in these solvents is approximately 100 mg/ml. 16-phenoxy tetranor PGF_{2α} 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 16-phenoxy tetranor PGF_{2α} is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 16-phenoxy tetranor PGF_{2α} in PBS (pH 7.2) is approximately 0.8 mg/ml. We do not recommend storing the aqueous solution for more than one day.

16-phenoxy tetranor PGF_{2α} binds to the FP receptor on luteal cells with much greater affinity (440%) than PGF_{2α}.¹

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

For a list of related products please visit: www.caymanchem.com/catalog/16760

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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