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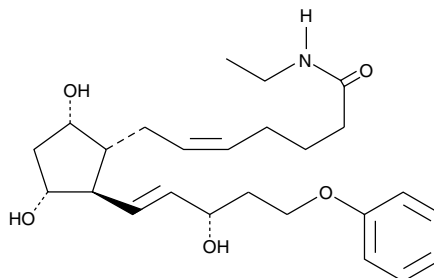
Product Information



17-phenoxy trinor Prostaglandin F_{2α} ethyl amide

Item No. 10010742

CAS Registry No.: 1421369-12-1
Formal Name: N-ethyl-9α,11α,15S-trihydroxy-17-phenoxy-18,19,20-trinor-prosta-5Z,13E-dien-1-amide
Synonym: 17-phenoxy trinor PGF_{2α} ethyl amide
MF: C₂₅H₃₇NO₅
FW: 431.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 17-phenoxy trinor prostaglandin F_{2α} ethyl amide (17-phenoxy trinor PGF_{2α} ethyl amide) be stored as supplied at -20°C. It should be stable for at least one year.

17-phenoxy trinor PGF_{2α} ethyl 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 17-phenoxy trinor PGF_{2α} ethyl amide in these solvents is approximately 50 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 17-phenoxy trinor PGF_{2α} ethyl amide is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 17-phenoxy trinor PGF_{2α} ethyl 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}, acting through the FP receptor, causes smooth muscle contraction and exhibits potent luteolytic activity.¹⁻³ Both 17-phenyl trinor PGF_{2α} and 16-phenoxy tetranor PGF_{2α} are metabolically stable analogs of PGF_{2α} and potent agonists for the FP receptor.⁴ 17-phenoxy trinor PGF_{2α} ethyl amide is a lipophilic analog of 17-phenoxy trinor PGF_{2α} (Item No. 10010839). Ethyl amides of PGs serve as prodrugs, as they are hydrolyzed in certain tissues to generate the bioactive free acid.

References

1. Samuelsson, B., Goldyne, M., Granström, E., *et al.* Prostaglandins and thromboxanes. *Annu. Rev. Biochem.* **47**, 997-1029 (1978).
2. Speroff, L. and Ramwell, P.W. Prostaglandins in reproductive physiology. *Am. J. Obstet. Gynecol.* **107**, 1111-1130 (1970).
3. Crankshaw, D.J. and Gaspar, V. Pharmacological characterization *in vitro* of prostanoid receptors in the myometrium of nonpregnant ewes. *J. Reprod. Fertil.* **103**, 55-61 (1995).
4. 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/10010742

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

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

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