

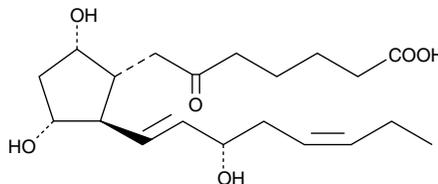
Product Information



Δ^{17} -6-keto Prostaglandin F_{1 α}

Item No. 15230

CAS Registry No: 68324-95-8
Formal Name: 6-oxo-9 α ,11 α ,15S-trihydroxy-prosta-13E,17Z-dien-1-oic acid
Synonym: ω -3 6-keto PGF_{2 α}
MF: C₂₀H₃₂O₆
FW: 368.5
Purity: \geq 98%
Stability: \geq 1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

Δ^{17} -6-keto Prostaglandin F_{1 α} (Δ^{17} -6-k PGF_{1 α}) is the non-enzymatic hydrolysis product of PGI₃. For long term storage, we suggest that Δ^{17} -6-k PGF_{1 α} be stored as supplied at -20°C. It will be stable for at least one year.

Δ^{17} -6-k PGF_{1 α} 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 or dimethyl formamide purged with an inert gas can be used. Δ^{17} -6-k PGF_{1 α} is soluble in these organic solvents at concentrations of approximately 15 mg/ml. Δ^{17} -6-k PGF_{1 α} will be stable in these solvents for at least 6 months 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 Δ^{17} -6-k PGF_{1 α} is needed, the ethanol can be evaporated under a stream of nitrogen and the neat oil dissolved in the buffer of choice. Δ^{17} -6-k PGF_{1 α} is soluble in PBS (pH 7.2) at a concentration of approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Δ^{17} -6-k PGF_{1 α} is a cyclooxygenase product of eicosapentaenoic acid in various tissues such as seminal vesicles, lung, Polymorphonuclear leukocytes, and ocular tissues.^{1,2} Δ^{17} -6-k PGF_{1 α} and other 3-series cyclooxygenase products from eicosapentaenoic acid, such as PGF_{3 α} , PGE₃, and thromboxane B₃, may be involved in the reduced incidence of glaucoma in patients on a marine-rich (EPA-rich) diet.²

References

1. Kulkarni, P.S., Kaufman, P.L., Srinivasan, B.D. Eicosapentaenoic acid metabolism in cynomolgus and rhesus conjunctiva and eyelid. *J. Ocul. Pharmacol.* **3**, 349-356 (1987).
2. Kulkarni, P.S. and Srinivasan, B.D. Eicosapentaenoic acid metabolism in human and rabbit anterior uvea. *Prostaglandins* **31**, 1159-1164 (1986).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15230

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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