**Product Information**

**Δ17-6-keto Prostaglandin F₁α**

*Item No. 15230*

**CAS Registry No:** 68324-95-8  
**Formal Name:** 6-oxo-9α,11α,15S-trihydroxy-prosta-13E,17Z-dien-1-ooic acid  
**Synonym:** α-3 6-keto PGF₂α  
**MF:** C₂₀H₃₂O₆  
**Purity:** >98%  
**FW:** 368.5  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in ethanol

**Laboratory Procedures**

Δ17-6-keto Prostaglandin F₁α (Δ17-6-k PGF₁α) is the non-enzymatic hydrolysis product of PGJ₃. For long term storage, we suggest that Δ17-6-k PGF₁α be stored as supplied at -20°C. It will be stable for at least one year.

Δ17-6-k PGF₁α 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. Δ17-6-k PGF₁α is soluble in these organic solvents at concentrations of approximately 15 mg/ml. Δ17-6-k PGF₁α 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 Δ17-6-k PGF₁α is needed, the ethanol can be evaporated under a stream of nitrogen and the neat oil dissolved in the buffer of choice. Δ17-6-k PGF₁α 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.

Δ17-6-k PGF₁α is a cyclooxygenase product of eicosapentaenoic acid in various tissues such as seminal vesicles, lung, Polymorphonuclear leukocytes, and ocular tissues.1-2 Δ17-6-k PGF₁α and other 3-series cyclooxygenase products from eicosapentaenoic acid, such as PGE₃, PGI₃, and thromboxane B₂, may be involved in the reduced incidence of glaucoma in patients on a marine-rich (EPA-rich) diet.2

**References**


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