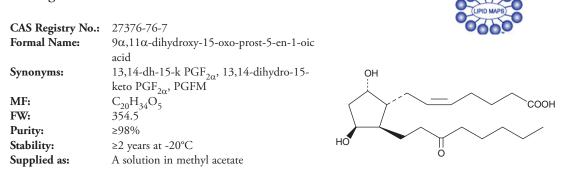
# **Product Information**



Catalog No. 10007226



### Laboratory Procedures

For long term storage, we suggest that 13,14-dihydro-15-keto prostaglandin  $F_{2\alpha}$  (13,14-dh-15-k PGF<sub>2\alpha</sub>) be stored as supplied at -20°C. It should be stable for at least two years.

13,14-dh-15-k PGF<sub>2 $\alpha$ </sub> 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 DMSO, dimethyl formamide, or ethanol purged with an inert gas can be used. The solubility of 13,14-dh-15-k PGF<sub>2 $\alpha$ </sub> 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. Organic solvent-free solutions of 13,14-dh-15-k PGF<sub>2α</sub> can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 13,14-dh-15-k  $PGF_{2\alpha}$  in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

13,14-dh-15-k PGF<sub>2 $\alpha$ </sub> is the first prominent plasma metabolite of PGF<sub>2 $\alpha$ </sub> in the 15-hydroxy PGDH pathway.<sup>1</sup> Measurement of 13,14-dh-15-k PGF<sub>2 $\alpha$ </sub> in plasma can be used as a marker of the *in vivo* production of PGF<sub>2 $\alpha$ </sub>.<sup>1-3</sup>

### References

- 1. Samuelsson, B., Goldyne, M., Granström, E., et al. Prostaglandins and thromboxanes. Annu. Rev. Biochem. 47, 997-1029 (1978).
- 2. Meyer, H.H.D., Eisele, K., and Osaso, J. A biotin-streptavidin amplified enzyme immunoassay for 13,14-dihydro-15keto-PGF<sub>2a</sub> Prostaglandins **38**, 375-383 (1989).
- 3. Del Vecchio, R.P., Maxey, K.M., and Lewis, G.S. A quantitative solid-phase enzymeimmunoassay for 13,14-dihydro-15-keto-prostaglandin  $F_{2\alpha}$  in plasma. *Prostaglandins* **43**, 321-330 (1992).

#### **Related Product**

Prostaglandin Metabolite HPLC Mixture - Cat. No. 10005 • 8-iso-13,14-dihydro-15-keto Prostaglandin F<sub>2α</sub> - Cat. No. 16380 • 13,14-dihydro-15-keto Prostaglandin  $F_{2\alpha}$  - Cat. No. 16670 • tetranor-PGFM - Cat. No. 16840 • 13,14-dihydro-15-keto Prostaglandin  $F_{2\alpha}$ -d<sub>4</sub> - Cat. No. 10007793

#### 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, <u>but not all</u>, of the information required for the safe and proper use of this material. Before use, the user <u>must</u> review the <u>complete</u> Material Safety Data Sheet, which has been sent under separate cover to the MSDS supervisor at your institution.

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