



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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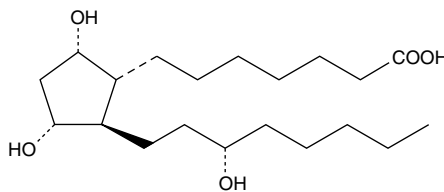
# Product Information



## 13,14-dihydro Prostaglandin F<sub>1α</sub>

Item No. 15610

**CAS Registry No.:** 20592-20-5  
**Formal Name:** 9α,11α,15S-trihydroxy-prostan-1-oic acid  
**Synonym:** Prostaglandin F<sub>α</sub>  
**MF:** C<sub>20</sub>H<sub>38</sub>O<sub>5</sub>  
**FW:** 358.5  
**Purity:** ≥99%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

13,14-dihydro Prostaglandin F<sub>1α</sub> (13,14-dihydro PGF<sub>1α</sub>) is a metabolite of PGF<sub>1α</sub>. For long term storage, we suggest that 13,14-dihydro PGF<sub>1α</sub> be stored as supplied at -20°C. It will be stable for at least two years.

13,14-dihydro PGF<sub>1α</sub> is supplied as a crystalline solid. 13,14-dihydro PGF<sub>1α</sub> is soluble in organic solvents such as ethanol, DMSO, or dimethyl formamide. The solubility of 13,14-dihydro PGF<sub>1α</sub> in these solvents is approximately 50 mg/ml. 13,14-dihydro PGF<sub>1α</sub> 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. Organic solvent-free aqueous solutions of 13,14-dihydro PGF<sub>1α</sub> can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 13,14-dihydro PGF<sub>1α</sub> in PBS (pH 7.2) is approximately 2.1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

13,14-dihydro PGF<sub>1α</sub>, 13,14-dihydro-15-keto PGF<sub>1α</sub>, and 13,14-dihydro-15-keto PGF<sub>2α</sub> are initial metabolites of PGF<sub>1α</sub> and PGF<sub>2α</sub>.<sup>1</sup> The measurement of these metabolites in cell culture is used to assess total PGF metabolism.<sup>1</sup>

### Reference

1. Ritz, E.M., Boto, W.O., Stylos, W.A. Measurement of initial prostaglandin F metabolites in medium of BALB/c 3T3 and SV3T3 mouse fibroblast cultures. *Biochem. Biophys. Res. Commun.* **63**, 179-186 (1975).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15610](http://www.caymanchem.com/catalog/15610)

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

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