



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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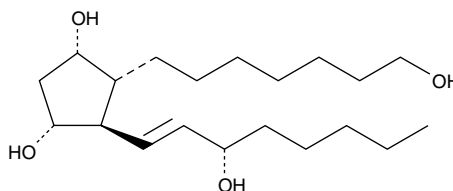
# Product Information



## Prostaglandin F<sub>1α</sub> Alcohol

Item No. 15020

**CAS Registry No:** 13487-47-3  
**Formal Name:** 1,9α,11α,15S-tetrahydroxy-prost-13E-ene  
**MF:** C<sub>20</sub>H<sub>38</sub>O<sub>4</sub>  
**FW:** 342.5  
**Purity:** ≥99%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

Prostaglandin F<sub>1α</sub> Alcohol (PGF<sub>1α</sub> alcohol) is an analog of PGF<sub>1α</sub> with a primary alcohol replacing the C-1 carboxyl group. For long term storage, we suggest that PGF<sub>1α</sub> alcohol be stored as supplied at -20°C. It will be stable for at least one year.

PGF<sub>1α</sub> alcohol is supplied as a crystalline solid. A stock solution may be made by dissolving the PGF<sub>1α</sub> alcohol in an organic solvent purged with an inert gas. PGF<sub>1α</sub> alcohol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PGF<sub>1α</sub> alcohol in ethanol and DMSO is approximately 10 mg/ml, while in DMF the solubility is 8 mg/ml. PGF<sub>1α</sub> alcohol will be stable for at least six months in these solvents if stored at -20°C.

PGF<sub>1α</sub> alcohol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PGF<sub>1α</sub> alcohol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PGF<sub>1α</sub> alcohol has a solubility of approximately 100 µg/ml in a solution of ethanol:PBS (pH 7.2) using this method. Therefore, further dilutions of the organic solvent 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. We do not recommend storing the aqueous solution for more than one day.

There are no published reports on the biological activity of PGF<sub>1α</sub> alcohol; however, the corresponding PGE<sub>1</sub> analog (Item No. 13020) is a relatively selective EP receptor agonist.<sup>1</sup>

### Reference

1. De Vries, G.W., Guarino, P., McLaughlin, A., *et al.* An EP receptor with a novel pharmacological profile in the T-cell line Jurkat. *Br. J. Pharmacol.* **115**, 1231-1234 (1995).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15020](http://www.caymanchem.com/catalog/15020)

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**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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