



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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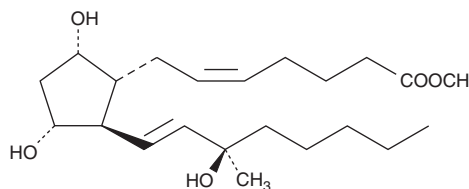
# PRODUCT INFORMATION



## 15(R)-15-methyl Prostaglandin F<sub>2α</sub> methyl ester

Item No. 16734

**CAS Registry No.:** 35700-22-2  
**Formal Name:** 9α,11α,15R-trihydroxy-15-methyl-prosta-5Z,13E-dien-1-oic acid, methyl ester  
**Synonyms:** 15(R)-Methyl carboprost, 15(R)-15-methyl PGF<sub>2α</sub> methyl ester  
**MF:** C<sub>22</sub>H<sub>38</sub>O<sub>5</sub>  
**FW:** 382.5  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate



### Laboratory Procedures

For long term storage, we suggest that 15(R)-15-methyl prostaglandin F<sub>2α</sub> methyl ester (15(R)-15-methyl PGF<sub>2α</sub> methyl ester) be stored as supplied at -20°C. It should be stable for at least one year.

15(R)-15-methyl PGF<sub>2α</sub> methyl ester 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 or nitrogen can be used. 15(R)-15-methyl PGF<sub>2α</sub> methyl ester will be stable in these solvents for at least six 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. Organic solvent-free aqueous solutions of 15(R)-15-methyl PGF<sub>2α</sub> methyl ester can be prepared by directly dissolving the compound in neutral solutions. The solubility of 15(R)-15-methyl PGF<sub>2α</sub> methyl ester in PBS (pH 7.2) is approximately 5 mg/ml. Avoid adding 15(R)-15-methyl PGF<sub>2α</sub> methyl ester to strongly acidic buffers as the compound will undergo racemization at C-15. We do not recommend storing the aqueous solution for more than one day.

### Description

15(R)-15-methyl PGF<sub>2α</sub> methyl ester is a lipid soluble prodrug form of 15(R)-15-methyl PGF<sub>2α</sub> (Item No. 16730) 15(S)-15-methyl PGF<sub>2α</sub> methyl ester (Item No. 16744) with increased membrane permeability. Acid-catalyzed epimerization of 15(R)-15-methyl PGF<sub>2α</sub> methyl ester and hydrolysis of the ester converts it into the active 15(S)-15-methyl PGF<sub>2α</sub> (Item No. 16743).<sup>1,2</sup>

### References

1. Plaisted, S.M., DeZwaan, J., and Snider, B.G. High-performance liquid chromatographic determination of acid-catalyzed degradation products of methyl carboprost in a polymeric controlled-release device. *J. Chromatogr.* **314**, 369-377 (1984).
2. Hamberg, M., Zhang, L.-Y., and Bergström, S. On the pH-dependent degradation of 15(S)-15-methyl-prostaglandin F<sub>2α</sub> (carboprost). *Eur. J. Pharm. Sci.* **3**, 27-38 (1995).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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