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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

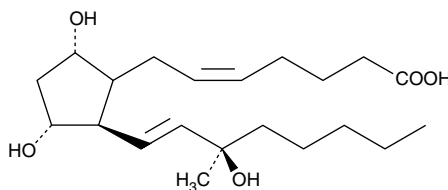
Product Information



15(R)-15-methyl Prostaglandin F_{2α}

Item No. 16730

CAS Registry No: 35864-81-4
Formal Name: 9α,11α,15R-trihydroxy-15-methyl-prosta-5Z,13E-dien-1-oic acid
MF: C₂₁H₃₆O₅
FW: 368.5
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

15(R)-15-methyl Prostaglandin F_{2α} (15(R)-15-methyl PGF_{2α}) is a metabolically stable analog of PGF_{2α}. For long term storage, we suggest that 15(R)-15-methyl PGF_{2α} be stored as supplied at -20°C. It will be stable for at least one year.

15(R)-15-methyl PGF_{2α} 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 15(R)-15-methyl PGF_{2α} in these solvents is approximately 100 mg/ml. 15(R)-15-methyl PGF_{2α} 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. If an organic solvent-free solution of 15(R)-15-methyl PGF_{2α} is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 15(R)-15-methyl PGF_{2α} in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

15(R)-15-methyl PGF_{2α} is an inactive, prodrug PGF agonist designed for activation by gastric acid after oral administration. Acid-catalyzed epimerization of 15(R)-15-methyl PGF_{2α} converts it into the active 15(S)-isomer.^{1,2} The 15(S)-isomer induces luteolysis when injected into rhesus monkeys at a dose of about 12 mg/animal while the 15(R)-isomer does not.³

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_{2α} (carboprost). *Eur. J. Pharmac. Sci.* **3**, 27-38 (1995).
3. Wilks, J.W. Inhibition of the monkey corpus luteum with 15-methyl prostaglandins. *Prostaglandins* **20**, 793-805 (1980).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16730

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

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, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com