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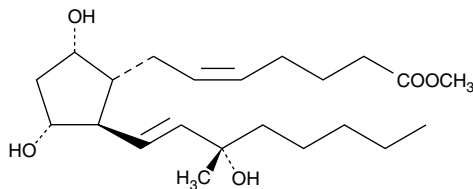
Product Information



15(S)-15-methyl Prostaglandin F_{2α} methyl ester

Item No. 16744

CAS Registry No.: 35700-21-1
Formal Name: 9α,11α,15S-trihydroxy-15-methyl-prosta-5Z,13E-dien-1-oic acid, methyl ester
Synonyms: Methyl carboprost, U-36384
MF: C₂₂H₃₈O₅
FW: 382.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 15(S)-15-methyl Prostaglandin F_{2α} methyl ester (methyl carboprost) be stored as supplied at -20°C. It will be stable for at least one year.

Methyl carboprost is supplied as a crystalline solid. A stock solution may be made by dissolving the methyl carboprost in an organic solvent. Methyl carboprost is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of methyl carboprost in these solvents is approximately 50 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 aqueous solutions of methyl carboprost can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of methyl carboprost in PBS (pH 7.2) is approximately 5 mg/ml. Avoid adding methyl carboprost to strongly acidic buffers as the compound will undergo racemization at C15. We do not recommend storing the aqueous solution for more than one day.

15(S)-15-methyl PGF_{2α} methyl ester is a derivative of 15(S)-15-methyl PGF_{2α} with increased membrane permeability.^{1,2} Hydrolysis of the methyl ester *in vivo* releases the biologically active 15(S)-15-methyl PGF_{2α}, which is a potent uterine stimulant and abortifacient.^{3,4,5}

References

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2. Halstead, G.W. and Theis, D.L. Drug release testing of a prostaglandin containing controlled-release vaginal device: Development of a semi-automated method. *J. Pharm. Sci.* **74**, 1086-1090 (1985).
3. Carlan, S.J., Gushwa, J.P., O'Brien, W.F., *et al.* Effect of intramuscular 15-methyl prostaglandin F_{2α} after second-trimester delivery. *Obstet. Gynecol.* **89**, 5-9 (1997).
4. Lindblom, B., Källfelt, B., Hahlin, M., *et al.* Local prostaglandin F_{2α} injection for termination of ectopic pregnancy. *Lancet* 776-777 (1987).
5. Adaikan, P.G., Prasad, R.N.V., Kottagoda, S.R., *et al.* Effect of indomethacin on the injection-abortion interval of 15(S)15 methyl PGF_{2α}-induced mid-trimester abortions - a randomized study. *Prostaglandins Leukot. Med.* **27**, 161-167 (1987).

WARNING

Abortifacient. Pregnant females should avoid any contact with this compound. Exposure can lead to premature labor, uterine contraction, cramping, diarrhea, and premature delivery of the conceptus. Read the complete MSDS before handling or using methyl carboprost.

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16744

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

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