



# SZABO SCANDIC

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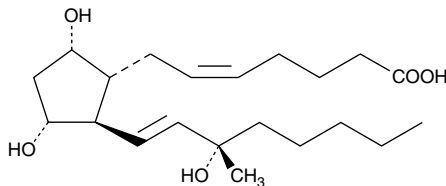
# Product Information



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

Item No. 16743

**CAS Registry No:** 35700-23-3  
**Formal Name:** 9α,11α,15S-trihydroxy-15-methyl-prosta-5Z,13E-dien-1-oic acid  
**Synonyms:** Carboprost, U-32921  
**MF:** C<sub>21</sub>H<sub>36</sub>O<sub>5</sub>  
**FW:** 368.5  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate



### Laboratory Procedures

15(S)-15-methyl Prostaglandin F<sub>2α</sub> (15(S)-15-methyl PGF<sub>2α</sub>) is a metabolically stable analog of PGF<sub>2α</sub>. For long term storage, we suggest that 15(S)-15-methyl PGF<sub>2α</sub> be stored as supplied at -20°C. It will be stable for at least one year.

15(S)-15-methyl PGF<sub>2α</sub> 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(S)-15-methyl PGF<sub>2α</sub> in these solvents is approximately 100 mg/ml. 15(S)-15-methyl PGF<sub>2α</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. If an organic solvent-free solution of 15(S)-15-methyl PGF<sub>2α</sub> is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 15(S)-15-methyl PGF<sub>2α</sub> in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

15(S)-15-methyl PGF<sub>2α</sub> is a potent uterine stimulant and abortifacient which can be administered intramuscularly to induce labor.<sup>1-3</sup> It induces luteolysis and reduces serum progesterone concentrations when given as an intramuscular injection in non-pregnant rhesus monkeys.<sup>4</sup>

### References

1. Carlan, S.J., Gushwa, J.P., O'Brien, W.F., *et al.* Effect of intramuscular 15-methyl prostaglandin F<sub>2α</sub> after second-trimester delivery. *Obstet. Gynecol.* **89**, 5-9 (1997).
2. Lindblom, B., Källfelt, B., Hahlin, M., *et al.* Local prostaglandin F<sub>2α</sub> injection for termination of ectopic pregnancy. *Lancet*, 776-777 (1987).
3. Adaikan, P.G., Prasad, R.N.V., Kottegoda, S.R., *et al.* Effect of indomethacin on the injection-abortion interval of 15(S)15 methyl PGF<sub>2α</sub>-induced mid-trimester abortions - a randomized study. *Prostaglandins Leukot. Med.* **27**, 161-167 (1987).
4. 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/16743](http://www.caymanchem.com/catalog/16743)

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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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