



# SZABO SCANDIC

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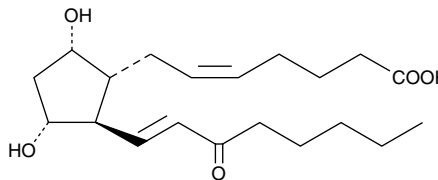
# Product Information



## 15-keto Prostaglandin F<sub>2α</sub>

Item No. 16720

**CAS Registry No.:** 35850-13-6  
**Formal Name:** 9α,11α-dihydroxy-15-oxo-prosta-5Z,  
13E-dien-1-oic acid  
**Synonym:** 15-keto PGF<sub>2α</sub>  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>5</sub>  
**FW:** 352.5  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A solution in methyl acetate  
**UV/Vis.:** 234 nm



### Laboratory Procedures

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

15-keto PGF<sub>2α</sub> is supplied as a solution in methyl acetate. To change the solvent, evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, or dimethyl formamide purged with an inert gas can be used. The solubility of 15-keto PGF<sub>2α</sub> in these solvents is approximately 100 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. If an organic solvent-free solution of 15-keto PGF<sub>2α</sub> is needed, evaporate the methyl acetate under a gentle stream of nitrogen and dissolve the neat oil in the buffer of choice. The solubility of 15-keto PGF<sub>2α</sub> in PBS, pH 7.2, is approximately 10 mg/ml. The solubility of 15-keto PGF<sub>2α</sub> in 10 mM aqueous Na<sub>2</sub>CO<sub>3</sub> is approximately 6 mg/ml. We do not recommend storing the aqueous solution for more than one day.

15-keto PGF<sub>2α</sub> is the first metabolite of PGF<sub>2α</sub> in the 15-hydroxy PGDH pathway. It is one of the critical components in the goldfish and Atlantic salmon postovulatory pheromone.<sup>1,2</sup> 15-keto PGF<sub>2α</sub> stimulates the male goldfish and salmon olfactory senses with detection thresholds of 10<sup>-12</sup> and 10<sup>-8</sup> M, respectively.<sup>1,2</sup> 15-keto PGF<sub>2α</sub> is 10-fold less active than PGF<sub>2α</sub> in decreasing rabbit intraocular pressure.<sup>3</sup>

### References

1. Sorensen, P.W., Hara, T.J., Goetz, F.W., *et al.* F prostaglandins function as potent olfactory stimulants that comprise the postovulatory female sex pheromone in goldfish. *Biol. Reprod.* **39**, 1039-1050 (1988).
2. Moore, A. and Waring, C.P. Electrophysiological and endocrinological evidence that F-series prostaglandins function as priming pheromones in mature male Atlantic salmon (*Salmo salar*) PARR. *J. Exp. Biol.* **199**, 2307-2316 (1996).
3. Woodward, D.F., Williams, L.S., Chen, J. Marked differential effects of prostanoid metabolites on rabbit intraocular pressure. *Ophthalmic Res.* **21**, 428-435 (1989).

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For a list of related products please visit: [www.caymanchem.com/catalog/16720](http://www.caymanchem.com/catalog/16720)

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