



# SZABO SCANDIC

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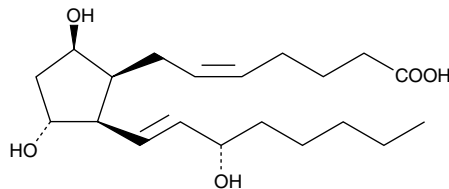
# Product Information



## 8-iso Prostaglandin F<sub>2β</sub>

Item No. 16370

**CAS Registry No.:** 177020-26-7  
**Formal Name:** 9β,11α,15S-trihydroxy-(8β)-prosta-5Z,13E-dien-1-oic acid  
**Synonyms:** 8-*epi* PGF<sub>2β</sub>, 8-*iso* PGF<sub>2β</sub>, 8-*epi*-9β-PGF<sub>2α</sub>, 8-*iso*-9β-PGF<sub>2α</sub>  
**MF:** C<sub>20</sub>H<sub>34</sub>O<sub>5</sub>  
**FW:** 354.5  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A solution in methyl acetate



### Laboratory Procedures

For long term storage, we suggest that 8-*iso* Prostaglandin F<sub>2β</sub> (8-*iso* PGF<sub>2β</sub>) be stored as supplied at -20°C. It should be stable for at least two years.

8-*iso* PGF<sub>2β</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, or dimethyl formamide purged with an inert gas can be used. The solubility of 8-*iso* PGF<sub>2β</sub> in these solvents is approximately 100 mg/ml. 8-*iso* PGF<sub>2β</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 aqueous solution of 8-*iso* PGF<sub>2β</sub> is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 8-*iso* PGF<sub>2β</sub> in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

8-*iso* PGF<sub>2β</sub> is an isomer of PGF<sub>2α</sub> with a non-enzymatic, non-COX origin. It is one of 64 possible isomers of PGF<sub>2α</sub> which can be produced by free radical peroxidation of arachidonic acid. 8-*iso* PGF<sub>2β</sub> exhibits very weak contraction of human umbilical vein artery<sup>1</sup> and does not promote aggregation of human whole blood.<sup>1,2</sup> However, 8-*iso* PGF<sub>2β</sub> moderately contracts both the canine and porcine pulmonary vein, although the effect is much weaker than that exhibited by other isoprostanes such as 8-*iso* PGE<sub>1</sub>, 8-*iso* PGE<sub>2</sub>, or 8-*iso* PGF<sub>2α</sub>.<sup>3,4</sup>

### References

1. Oliveira, L., Stallwood, N.A., and Crankshaw, D.J. Effects of some isoprostanes on the human umbilical artery *in vitro*. *Br. J. Pharmacol.* **129**, 509-514 (2000).
2. Cranshaw, J.H., Evans, T.W., and Mitchell, J.A. Characterization of the effects of isoprostanes on platelet aggregation in human whole blood. *Br. J. Pharmacol.* **132**, 1699-1706 (2001).
3. Janssen, L.J., Premji, M., Netherton, S., *et al.* Vasoconstrictor actions of isoprostanes *via* tyrosine kinase and Rho kinase in human and canine pulmonary vascular smooth muscles. *Br. J. Pharmacol.* **132**, 127-134 (2001).
4. Janssen, L.J. and Tazzeo, T. Involvement to TP and EP<sub>3</sub> receptors in vasoconstrictor responses to isoprostanes in pulmonary vasculature. *J. Pharmacol. Exp. Ther.* **301**(3), 1060-1066 (2002).

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