



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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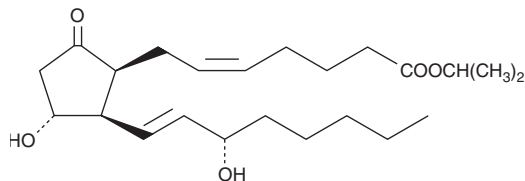
# Product Information



## 8-*iso* Prostaglandin E<sub>2</sub> isopropyl ester

Catalog No. 14352

**CAS Registry No.:** 330589-21-4  
**Formal Name:** 9-oxo-11.alpha.,15S-dihydroxy-(8.beta.)-prosta-5Z,13E-dien-1-oic acid, isopropyl ester  
**MF:** C<sub>23</sub>H<sub>38</sub>O<sub>5</sub>  
**FW:** 394.6  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in ethanol



### Laboratory Procedures

8-*iso* Prostaglandin E<sub>2</sub> isopropyl ester (8-*iso* PGE<sub>2</sub> isopropyl ester) is a more stable form of the free acid, 8-*iso* PGE<sub>2</sub>. For long term storage, we suggest that 8-*iso* PGE<sub>2</sub> isopropyl ester be stored as supplied at -20°C. It will be stable for at least one year.

8-*iso* PGE<sub>2</sub> isopropyl ester is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 8-*iso* PGE<sub>2</sub> isopropyl ester in dimethyl formamide and DMSO is approximately 30 and 50 mg/ml, respectively. 8-*iso* PGE<sub>2</sub> isopropyl ester 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 (note that the 8-*iso* PGE<sub>2</sub> isopropyl ester is considerably less soluble in aqueous solutions than the parent carboxylic acid). Ensure that the residual amount of organic solvent is insignificant since organic solvents may have physiological effects at low concentrations. Store aqueous solutions of 8-*iso* PGE<sub>2</sub> isopropyl ester on ice and use within 12 hours of preparation.

8-*iso* PGE<sub>2</sub> is potent vasoconstrictor in the rat.<sup>1</sup> At μM concentrations, 8-*iso* PGE<sub>2</sub> also inhibits platelet aggregation.<sup>2</sup> Although no comparable data is available on the isopropyl ester of 8-*iso* PGE<sub>2</sub>, it is expected to be similar to the carboxylic acid.

### References

1. Morrow, J.D., Minton, T.A., Mukundan, C.R., *et al.* Free radical-induced generation of isoprostanes *in vivo*. *J. Biol. Chem.* **269**, 4317-4326 (1994).
2. Longmire, A.W., Roberts, L.J., and Morrow, J.D. Actions of the E<sub>2</sub>-isoprostane, 8-*iso*-PGE<sub>2</sub>, on the platelet thromboxane/endoperoxide receptor in humans and rats: Additional evidence for the existence of a unique isoprostane receptor. *Prostaglandins* **48**, 247-256 (1994).

### Related Products

8-*iso* Prostaglandin E<sub>2</sub> - Cat. No. 14350

**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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