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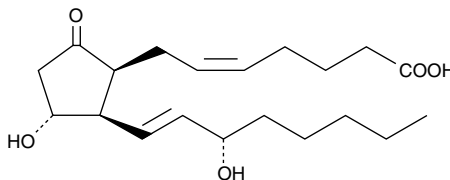
Product Information



8-*iso* Prostaglandin E₂

Item No. 14350

CAS Registry No.: 27415-25-4
Formal Name: 9-oxo-11 α ,15S-dihydroxy-(8 β)-prosta-5Z,13E-dien-1-oic acid
Synonyms: 8-*iso* PGE₂, 8-*epi* PGE₂
MF: C₂₀H₃₂O₅
FW: 352.5
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 8-*iso* Prostaglandin E₂ (8-*iso* PGE₂) be stored as supplied at -20°C. It should be stable for at least two years.

8-*iso* PGE₂ is supplied as a crystalline solid. To change the solvent, simply evaporate the 8-*iso* PGE₂ 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 8-*iso* PGE₂ 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. Avoid adding 8-*iso* PGE₂ to basic solutions (pH >7.4), since base treatment will degrade 8-*iso* PGE₂ to PGA and PGB compounds. Also, ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. The solubility of 8-*iso* PGE₂ in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

8-*iso* PGE₂ is one of several isoprostanes produced from arachidonic acid during lipid peroxidation.¹ It is a potent renal vasoconstrictor in the rat.^{1,2} 8-*iso* PGE₂ inhibits U-46619 or I-BOP-induced platelet aggregation with IC₅₀ values of 0.5 and 5 μ M, respectively.³ When infused into the renal artery of the rat at a concentration of 4 μ g/kg/min, 8-*iso* PGE₂ decreases the GFR and renal plasma flow by 80% without affecting blood pressure.¹

References

1. Morrow, J.D., Minton, T.A., Mukundan, C.R., *et al.* Free radical-induced generation of isoprostanes *in vivo*. Evidence for the formation of D-ring and E-ring isoprostanes. *J. Biol. Chem.* **269**, 4317-4326 (1994).
2. Hoffman, S.W., Moore, S., and Ellis, E.F. Isoprostanes: Free radical-generated prostaglandins with constrictor effects on cerebral arterioles. *Stroke* **28**, 844-84 (1997).
3. Longmire, A.W., Roberts, L.J., and Morrow, J.D. Actions of the E₂-isoprostane, 8-*iso*-PGE₂, 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).

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