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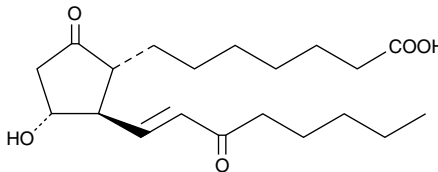
Product Information



15-keto Prostaglandin E₁

Item No. 13680

CAS Registry No.: 22973-19-9
Formal Name: 9,15-dioxo-11 α -hydroxy-prost-13E-en-1-oic acid
Synonym: 15-keto PGE₁
MF: C₂₀H₃₂O₅
FW: 352.5
Purity: \geq 98%
Stability: \geq 2 years at -20°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{\max} : 229 nm



Laboratory Procedures

15-keto Prostaglandin E₁ (15-keto PGE₁) is a metabolite of PGE₁. For long term storage, we suggest that 15-keto PGE₁ be stored as supplied at -20°C. It should be stable for at least two years.

15-keto PGE₁ 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 15-keto PGE₁ in these solvents is approximately 50 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 aqueous solution of 15-keto PGE₁ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 15-keto PGE₁ in PBS (pH 7.2) is approximately 1.6 mg/ml. Store aqueous solutions of 15-keto PGE₁ on ice and use within 12 hours of preparation. Although the aqueous solutions of 15-keto PGE₁ may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

15-keto PGE₁ is the inactive oxidation product of PGE₁. It is ineffective at inhibiting ADP-induced platelet aggregation in both rabbit and human.¹ It has only a negligible effect on the stimulation of rabbit duodenum, guinea pig ileum, and guinea pig uterus.² 15-keto PGE₁ also has little effect on decreasing rabbit and guinea pig blood pressure.²

References

- Westwick, J. The effect of pulmonary metabolites of prostaglandins E₁, E₂ and F_{2 α} on ADP-induced aggregation of human and rabbit platelets. *Br. J. Pharmacol.* **58**, 297P-298P (1976).
- Änggård, E. The biological activities of three metabolites of prostaglandin E₁. *Acta Physiol. Scand.* **66**, 509-510 (1966).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13680

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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