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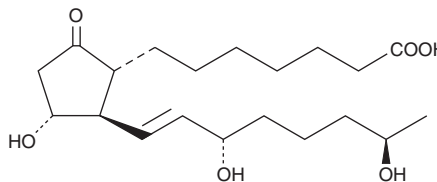
Product Information



19(R)-hydroxy Prostaglandin E₁

Catalog No. 13910

CAS Registry No.: 64625-55-4
Formal Name: 9-oxo-11 α ,15S,19R-trihydroxy-prost-13E-en-1-oic acid
Synonym: 19(R)-hydroxy PGE₁
MF: C₂₀H₃₄O₆
FW: 370.5
Purity: \geq 95%
Stability: \geq 1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

19(R)-hydroxy Prostaglandin E₁ (19(R)-OH PGE₁) is the major prostaglandin found in the semen of primates, including man.¹ For long term storage, we suggest that 19(R)-OH PGE₁ be stored as supplied at -20°C. It should be stable for at least one year.

19(R)-OH PGE₁ is supplied as a solution in methyl acetate. 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 or dimethyl formamide purged with an inert gas can be used. The solubility of 19(R)-OH 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.

Organic solvent-free solutions of 19(R)-OH PGE₁ can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 19(R)-OH PGE₁ in PBS (pH 7.2) is approximately 1.7 mg/ml. Avoid adding 19(R)-OH PGE₁ to basic solutions (pH >7.4) as base treatment will cause 19(R)-OH PGE₁ to undergo β -elimination to give the corresponding A and B prostaglandins. Store aqueous solutions of 19(R)-OH PGE₁ on ice and use within 12 hours. We strongly recommend using a fresh preparation each day.

19(R)-OH PGE₁ is a smooth muscle contractant. It is an agonist for the EP₁ and EP₃ receptor subtypes.^{1,2} It has an EC₅₀ of 320 nM for contracting guinea pig ileum which exhibits EP₁ receptors and an EC₅₀ of 80 nM for contracting chick ileum which exhibits EP₃ receptors.²

References

1. Kelly, R.W., Taylor, P.L., Hearn, J.P., *et al.* 19-Hydroxyprostaglandin E₁ as a major component of the semen of primates. *Nature* **260**, 544-545 (1976).
2. Woodward, D.F., Protzman, C.E., Krauss, A.H.-P., *et al.* Identification of 19 (R)-OH prostaglandin E₂ as a selective prostanoid EP₂-receptor agonist. *Prostaglandins* **46**, 371-383 (1993).

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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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