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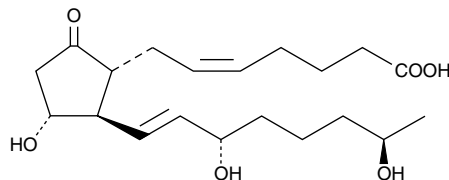
Product Information



19(R)-hydroxy Prostaglandin E₂

Item No. 14910

CAS Registry No.: 64625-54-3
Formal Name: 9-oxo-11 α ,15S,19R-trihydroxy-prosta-5Z,13E-dien-1-oic acid
Synonyms: 19(R)-hydroxy PGE₂, 19(R)-OH PGE₂
MF: C₂₀H₃₂O₆
FW: 368.5
Purity: \geq 98%
Stability: \geq 1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 19(R)-hydroxy prostaglandin E₂ (19(R)-OH PGE₂) be stored as supplied at -20°C. It should be stable for at least one year.

19(R)-OH PGE₂ 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 or dimethyl formamide purged with an inert gas can be used. The solubility of 19(R)-OH 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. 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 PGE₂ can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 19(R)-OH PGE₂ in PBS (pH 7.2) is approximately 5 mg/ml. Avoid adding 19(R)-OH PGE₂ to basic solutions (pH >7.4) as base treatment will cause 19(R)-OH PGE₂ to undergo β -elimination to give the corresponding A and B PGs. We do not recommend storing the aqueous solution for more than one day.

19(R)-hydroxy PGE₂ is found in the semen of primates, including man.¹ It is a potent smooth muscle relaxant and a selective agonist for the EP₂ receptor.^{1,2} It has an EC₅₀ value of 200 nM for relaxing cat tracheal rings which express EP₂ 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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14910

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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