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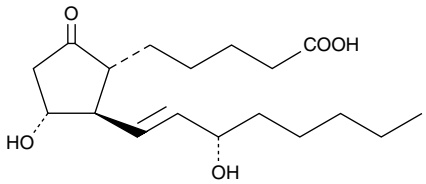
Product Information

2,3-dinor Prostaglandin E_1

Item No. 13120

CAS Registry No.: 7046-40-4
Formal Name: 9-oxo-11α,15S-dihydroxy-2,3-dinor-prost-13E-en-1-oic acid
MF: $C_{18}H_{30}O_5$
FW: 326.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 2,3-dinor Prostaglandin E_1 (2,3-dinor PGE_1) be stored as supplied at -20°C. It will be stable for at least two years.

2,3-dinor PGE_1 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 2,3-dinor PGE_1 in these solvents is approximately 50 mg/ml. 2,3-dinor PGE_1 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. 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 solution of 2,3-dinor PGE_1 is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 2,3-dinor PGE_1 in PBS (pH 7.2) is approximately 1.67 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PGE_1 is not a major naturally occurring PG, but it is widely administered clinically for several indications including peripheral occlusive vascular disease, erectile dysfunction, and in neonatal cardiology.[1,2] The metabolism of PGE_1 is normally initiated by oxidation at C-15, resulting in 13,14-dihydro-15-keto PGE_1 as the major metabolite. However, inhibition of this pathway or saturation by excess substrate could theoretically lead to enhanced production of 2,3-dinor metabolites, including 2,3-dinor PGE_1. The biological activity of 2,3-dinor PGE_1 has not been published.

References

1. Virag, R., Shoukry, K., Floresco, J., *et al.* Intracavernous self-injection of vasoactive drugs in the treatment of impotence: 8-year experience with 615 cases. *J. Urol.* **145**, 287-293 (1991).
2. Hoshi, K. Approved indications of lipo-PGE_1 in *Japan. Advanced Drug Delivery Reviews* **20**, 171-176 (1996).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13120

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MATERIAL SAFETY DATA

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