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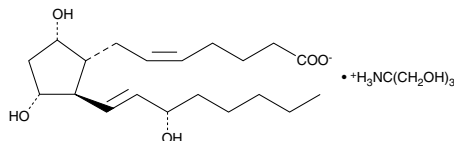
Product Information



Prostaglandin F_{2α} (tromethamine salt)

Item No. 16020

CAS Registry No: 38562-01-5
Formal Name: 9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid, tris (hydroxymethyl) aminomethane salt
Synonym: Dinoprost
MF: C₂₀H₃₃O₅ • C₄H₁₂NO₃
FW: 475.6
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

Prostaglandin F_{2α} (tromethamine salt) (PGF_{2α} (tromethamine salt)) is a crystalline derivative of PGF_{2α} with increased water solubility. For long term storage, we suggest that PGF_{2α} (tromethamine salt) be stored as supplied at -20°C. It will be stable for at least two years.

PGF_{2α} (tromethamine salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the PGF_{2α} (tromethamine salt) in an organic solvent. PGF_{2α} (tromethamine salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of PGF_{2α} (tromethamine salt) in these solvents is approximately 50 mg/ml. PGF_{2α} (tromethamine salt) will be stable for at least two years 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. Organic solvent-free aqueous solutions of PGF_{2α} (tromethamine salt) can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of PGF_{2α} (tromethamine salt) in PBS is approximately 25 mg/ml, compared to 10 mg/ml for PGF_{2α}. We do not recommend storing the aqueous solution for more than one day.

PGF_{2α} is a widely distributed prostaglandin occurring in many species.¹⁻³ It causes contraction of vascular, bronchial, intestinal, and myometrial smooth muscle, and also exhibits potent luteolytic activity.² PGF_{2α} exhibits its receptor mediated physiological activity at 50-100 nM.² Maximal ovine myometrial contraction can be achieved at 125 nM PGF_{2α} in *vitro*.⁴

References

1. Speroff, L. and Ramwell, P.W. Prostaglandins in reproductive physiology. *Am. J. Obstet. Gynecol.* **107**, 1111-1130 (1970).
2. Samuelsson, B., Goldyne, M., Granström, E., *et al.* Prostaglandins and thromboxanes. *Annu. Rev. Biochem.* **47**, 997-1029 (1978).
3. Watanabe, K., Iguchi, Y., Iguchi, S., *et al.* Stereospecific conversion of prostaglandin D₂ to (5Z,13E)-(15S)-9α,11α,15S-trihydroxyprosta-5,13-dien-1-oic acid (9α,11α-prostaglandin F₂) and of prostaglandin H₂ to prostaglandin F_{2α} by bovine lung prostaglandin F synthase. *Proc. Nat. Acad. Sci USA* **83**, 1583-1587 (1986).
4. Crankshaw, D.J. and Gaspar, V. Pharmacological characterization in *vitro* of prostanoid receptors in the myometrium of nonpregnant ewes. *J. Reprod. Fertil.* **103**, 55-61 (1995).

Related Products

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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.

MATERIAL 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 Material Safety Data Sheet, which has been sent *via* email to your institution.

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