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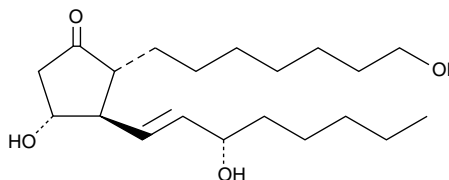
Product Information



Prostaglandin E₁ Alcohol

Item No. 13020

CAS Registry No.: 21562-57-2
Formal Name: 1,11 α ,15S-trihydroxy-prost-13E-en-9-one
Synonym: 1-hydroxy Prostaglandin E₁
MF: C₂₀H₃₆O₄
FW: 340.5
Purity: \geq 99%
Stability: \geq 2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that Prostaglandin E₁ alcohol (PGE₁ alcohol) be stored as supplied at -20°C. It will be stable for at least two years.

PGE₁ alcohol is supplied as a crystalline solid. A stock solution may be made by dissolving the crystalline solid in an organic solvent purged with an inert gas. PGE₁ alcohol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of PGE₁ alcohol in these solvents is approximately 20 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. PGE₁ alcohol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PGE₁ alcohol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PGE₁ alcohol has a solubility of approximately 1 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

PGE₁ alcohol is a non-irritant bronchodilator, with relaxant activity on the human bronchial muscle in vitro, comparable to PGE₁ at concentrations of 0.01 to 10.0 μ g/ml.^{1,2} Asthmatics receiving single dose inhalation treatments reported significant but short-acting bronchodilation at doses of 10 and 30 μ g.² PGE₁ alcohol binds to the mouse recombinant EP₃ and EP₄ receptors with K_i values of 330 and 190 nM, respectively.³

References

1. Gardiner, P.J., Copas, J., Schneider, C., *et al.* 2-decarboxy-2-hydroxymethyl prostaglandin E₁ (TR4161), a prostaglandin bronchodilator of low tracheobronchial irritancy. *Prostaglandins* **19**, 349-370 (1980).
2. Nizankowska, E., Sheridan, A.Q., Maile, M.H., *et al.* Bronchodilatory properties of 2-decarboxy-2-hydroxymethyl prostaglandin E₁. *Prostaglandins* **29**, 349-362 (1985).
3. Kiriya, M., Ushikubi, F., Kobayashi, T., *et al.* Ligand binding specificities of the eight types and subtypes of the mouse prostanoid receptors expressed in Chinese hamster ovary cells. *Br. J. Pharmacol.* **122**, 217-224 (1997).

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.

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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