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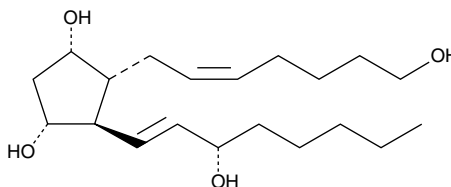
Product Information



Prostaglandin F_{2α} Alcohol

Item No. 16012

CAS Registry No: 13261-27-3
Formal Name: 1,9α,11α,15S-tetrahydroxyprosta-5Z,13E-diene
Synonyms: AGN 190190, ZK 62717
MF: C₂₀H₃₆O₄
FW: 340.5
Purity: ≥ 98%
Stability: ≥ 2 years at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that prostaglandin F_{2α} alcohol (PGF_{2α}-OH) be stored as supplied at -20°C. It will be stable for at least two years.

PGF_{2α}-OH is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of PGF_{2α}-OH in these solvents is approximately 9 mg/ml in ethanol and 29 mg/ml in DMSO and DMF. PGF_{2α}-OH 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 PGF_{2α}-OH is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of PGF_{2α}-OH in PBS (pH 7.2) is approximately 0.36 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PGF_{2α}-OH is an analog of PGF_{2α} in which the C-1 carboxyl group has been reduced to a primary alcohol. Biological studies on rat uterus show it to be a weak agonist.¹ The compound is reported to retain ocular hypotensive properties,² but the nature of the receptors which mediate these effects is disputed.³

References

1. Brambaifa, N. Luteolytic potency of PGD and PGF_{2α} derivatives. *Eur. J. Obstet. Gynecol. Reprod. Biol.* **27**, 319-325 (1988).
2. Woodward, D.F. and Chan, M.F. Preparation of PGF-1 alcohols as ocular hypotensives. *Allergen, Inc.* 38204 (5,238,961), 1-12 (1993), CA/USA.
3. Woodward, D.F., Krauss, A.H.-P., Chen, J., *et al.* Replacement of the carboxylic acid group of prostaglandin F_{2α} with a hydroxyl or methoxy substituent provides biologically unique compounds. *Brit. J. Pharmacol.* **130**, 1933-1943 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16012

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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