

Product Information



Prostaglandin F_{2 α} 1,9-lactone

Item No. 16130

CAS Registry No: 55314-48-2

Formal Name: 9 α ,11 α ,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid, 1,9-lactone

Synonym: PGF_{2 α} 1,9-lactone

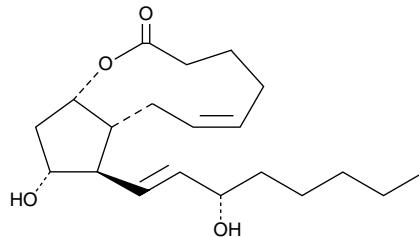
MF: C₂₀H₃₂O₄

FW: 336.5

Purity: ≥99%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid



Laboratory Procedures

Prostaglandin F_{2 α} 1,9-lactone (PGF_{2 α} 1,9-lactone) is a lipid-soluble internal ester of PGF_{2 α} . For long term storage, we suggest that PGF_{2 α} 1,9-lactone be stored as supplied at -20°C. It will be stable for at least two years.

PGF_{2 α} 1,9-lactone is supplied as a crystalline solid. A stock solution may be made by dissolving the PGF_{2 α} 1,9-lactone in an organic solvent purged with an inert gas. PGF_{2 α} 1,9-lactone is soluble in organic solvents such as ethanol (100 mg/ml), DMSO (10 mg/ml), and dimethyl formamide (20 mg/ml). PGF_{2 α} 1,9-lactone will be stable for at least six months in these solvents if stored at -20°C.

PGF_{2 α} 1,9-lactone is sparingly soluble in aqueous buffers.

For maximum solubility in aqueous buffers, PGF_{2 α} 1,9-lactone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PGF_{2 α} 1,9-lactone has a solubility of approximately 8 mg/ml in a 30:70 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

PGF_{2 α} 1,9-lactone is resistant to hydrolysis by human plasma esterases even after incubation for twenty hours under physiological conditions.¹ PGF_{2 α} 1,9-lactone exhibits little antifertility and vasoactivity compared to PGF_{2 α} .¹

Reference

1. Bundy, G.L., Peterson, D.C., Cornette, J.C., et al. Synthesis and biological activity of prostaglandin lactones. *J. Med. Chem.* **26**, 1089-1099 (1983).

Related Products

For a list of related products please visit: www.caymancell.com/catalog/16130

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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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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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