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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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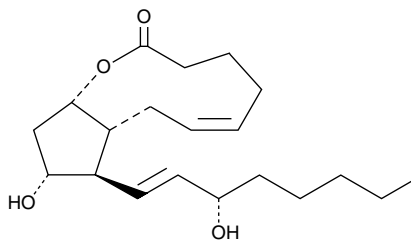
Product Information



Prostaglandin F_{2α} 1,9-lactone

Item No. 16130

CAS Registry No: 55314-48-2
Formal Name: 9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid, 1,9-lactone
Synonym: PGF_{2α} 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_{2α} 1,9-lactone (PGF_{2α} 1,9-lactone) is a lipid-soluble internal ester of PGF_{2α}. For long term storage, we suggest that PGF_{2α} 1,9-lactone be stored as supplied at -20°C. It will be stable for at least two years.

PGF_{2α} 1,9-lactone is supplied as a crystalline solid. A stock solution may be made by dissolving the PGF_{2α} 1,9-lactone in an organic solvent purged with an inert gas. PGF_{2α} 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_{2α} 1,9-lactone will be stable for at least six months in these solvents if stored at -20°C.

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

For maximum solubility in aqueous buffers, PGF_{2α} 1,9-lactone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PGF_{2α} 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_{2α} 1,9-lactone is resistant to hydrolysis by human plasma esterases even after incubation for twenty hours under physiological conditions.¹ PGF_{2α} 1,9-lactone exhibits little antifertility and vasoactivity compared to PGF_{2α}.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.caymanchem.com/catalog/16130

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.

WARRANTY AND LIMITATION OF REMEDY

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.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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