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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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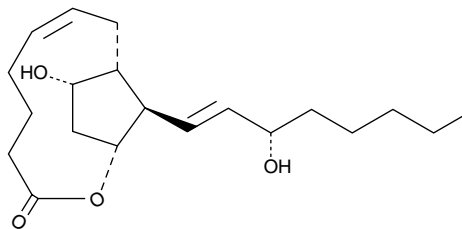
Product Information



Prostaglandin F_{2α} 1,11-lactone

Item No. 16110

CAS Registry No.: 62410-84-8
Formal Name: 9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid, 1,11-lactone
Synonym: PGF_{2α} 1,11-lactone
MF: C₂₀H₃₂O₄
FW: 336.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that Prostaglandin F_{2α} 1,11-lactone (PGF_{2α} 1,11-lactone) be stored as supplied at -20°C. It will be stable for at least one year.

PGF_{2α} 1,11-lactone 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 DMSO, ethanol, and dimethyl formamide purged with an inert gas can be used. The solubility of PGF_{2α} 1,11-lactone in these solvents is approximately 10 mg/ml. PGF_{2α} 1,11-lactone is stable for at least six months in these solvents if stored at -20°C.

PGF_{2α} 1,11-lactone is sparingly soluble in aqueous solutions (<50 µg/ml). Further dilutions of the organic 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. We do not recommend storing the aqueous solution for more than one day.

PGF_{2α} 1,11-lactone is a lipid-soluble internal ester of PGF_{2α}. Hydrolysis of the lactone by plasma esterases readily produces free PGF_{2α} in rats and monkeys, but not in humans.¹ PGF_{2α},11-lactone is active as an antifertility agent with greatly reduced 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/16110

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.

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