

PRODUCT INFORMATION

6,15-diketo-13,14-dihydro Prostaglandin F_{1α}

Item No. 15270

CAS Registry No.: 63983-53-9

Formal Name: 6,15-dioxo-9α,11α-dihydroxy-prostan-1-oic acid

Synonym: 6,15-diketo-13,14-dihydro PGF_{1α}

MF: C₂₀H₃₄O₆

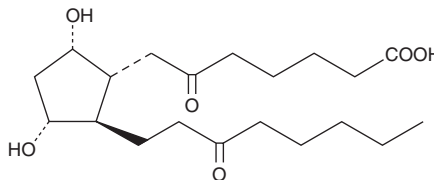
FW: 370.5

Purity: ≥98% (mixture of tautomers)

Supplied as: A solution in methyl acetate

Storage: -20°C

Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

6,15-diketo-13,14-dihydro PGF_{1α} 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, or dimethyl formamide purged with an inert gas can be used. The solubility of 6,15-diketo-13,14-dihydro PGF_{1α} in these solvents is approximately 16 mg/ml. 6,15-diketo-13,14-dihydro PGF_{1α} 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 aqueous solution of 6,15-diketo-13,14-dihydro PGF_{1α} is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 6,15-diketo-13,14-dihydro PGF_{1α} in PBS (pH 7.2) is approximately 3.3 mg/ml. Store aqueous solutions of 6,15-diketo-13,14-dihydro PGF_{1α} on ice and use within 12 hours of preparation.

Description

6,15-diketo-13,14-dihydro PGF_{1α} is a metabolite of PGI₂. It was shown to enhance intracellular cAMP and cholesterol catabolism in bovine arterial smooth muscle cells.¹

Reference

1. Etingin, O.R., Weksler, B.B., and Hajjar, D.P. Cholesterol metabolism is altered by hydrolytic metabolites of prostacyclin in arterial smooth muscle cells. *J. Lipid Res.* **27**, 530-536 (1986).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. 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

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/21/2016

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM