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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

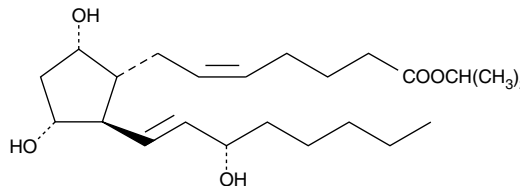
Product Information



Prostaglandin F_{2α} isopropyl ester

Item No. 16030

CAS Registry No.: 53764-90-2
Formal Name: 9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid, isopropyl ester
Synonym: PGF_{2α} isopropyl ester
MF: C₂₃H₄₀O₅
FW: 396.6
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} isopropyl ester (PGF_{2α} isopropyl ester) be stored as supplied at -20°C. It should be stable for at least two years.

PGF_{2α} isopropyl ester 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 PGF_{2α} isopropyl ester in these solvents is at least 50 mg/ml.

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. Organic solvent-free aqueous solutions of PGF_{2α} isopropyl ester can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of PGF_{2α} isopropyl ester in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Due to better corneal penetration, PGF_{2α} isopropyl ester is rapidly replacing PGF_{2α} tromethamine salt in studies on intraocular pressure (IOP). When administered topically to the eyes of cynomolgus monkeys, a 5 µg dose reduces IOP by 68% after the fourth day of treatment.¹

Reference

1. Crawford, K.S. and Kaufman, P.L. Dose-related effects of prostaglandin F_{2α} isopropylester on intraocular pressure, refraction, and pupil diameter in monkeys. *Invest. Ophthalmol. Vis. Sci.* **32**, 510-519 (1991).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16030

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

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com