

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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

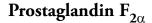
linkedin.com/company/szaboscandic in



Product Information

Prostaglandin F_{2α} Quant-PAK

Item No. 10006848



CAS Registry No.: 551-11-1

Formal Name: $9\alpha,11\alpha,15S$ -trihydroxy-prosta-

5Z,13E-dien-1-oic acid

Synonyms: Dinoprost, PGF_{2α} MF: $C_{20}H_{34}O_{5}$ FW: 354.5 **Purity:** ≥98%

Stability: ≥2 years at -20°C Supplied as: A crystalline solid

Prostaglandin F_{2α}-d₄

CAS Registry No.: 34210-11-2

Formal Name: $9\alpha,11\alpha,15S$ -trihydroxy-prosta-

5Z,13E-dien-1-oic-3,3,4,4-d₄ acid

Synonyms: Dinoprost-d₄. PGF_{2α}-d₄

MF: $C_{20}H_{30}D_4O_5$ FW: 358.5

Chemical Purity: ≥99% Prostaglandin $F_{2\alpha}$ - d_4

Deuterium

Incorporation: \geq 99% deuterated forms (d_1 - d_4); \leq 1% d_0

Stability: ≥1 year at -20°C

Supplied as: A solution in methyl acetate

This prostaglandin $F_{2\alpha}$ (PGF_{2 α}) Quant-PAK contains 50 μg of PGF_{2 α}- d_4 and 2-4 mg of PGF_{2 α} (please see the vial for exact amount and concentration). For long term storage, we suggest that $PGF_{2\alpha}$ and $PGF_{2\alpha}$ -d₄ be stored as supplied at -20°C. They will be stable for at least one year.

 $PGF_{2\alpha}$ is supplied as a crystalline solid. A stock solution may be made by dissolving the $PGF_{2\alpha}$ in an organic solvent purged with an inert gas. PGF_{2a} is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of PGF_{2a} in these solvents is 100 mg/ml.

 $PGF_{2\alpha}$ -d₄ is supplied as solutions 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, and dimethyl formamide purged with an inert gas can be used. The solubility of $PGF_{2\alpha}$ - d_4 in these solvents is at least 100 mg/ml.

 $PGF_{2\alpha}$ - d_4 contains four deuterium atoms at the 3, 3', 4, and 4' positions. It is intended for use as an internal standard for the quantification of PGF_{2a} by GC- or LC-mass spectrometry. The accuracy of the sample weight in the PGF_{2a}-d₄ vial is between 5% over and 2% under the weight indicated on the vial. For better precision we have provided a precisely weighed unlabeled $PGF_{2\alpha}$, with the precise weight (2-4 mg) indicated on the vial. Using this vial the deuterated standard can be quantified by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

 PGF_{2a} is a widely distributed prostaglandin occurring in many species. ¹⁻³ It causes contraction of vascular, bronchial, intestinal, and myometrial smooth muscle, and also exhibits potent luteolytic activity. PGF $_{2\alpha}$ exhibits its receptor mediated physiological activity at 50-100 nM. Maximal ovine myometrial contraction can be achieved at 125 nM PGF $_{2\alpha}$ in vitro. 4

- 1. Samuelsson, B., Goldyne, M., Granström, E., et al. Ann. Rev. Biochem. 47, 997-1029 (1978).
- Speroff, L. and Ramwell, P.W. Am. J. Obstet. Gynecol. 107, 1111-1130 (1970).
- Watanabe, K., Iguchi, Y., Iguchi, S., et al. Proc. Natl. Acad. Sci. USA 83, 1583-1587 (1986).
- Crankshaw, D.J. and Gaspar, V. J. Reprod. Fertil. 103, 55-61 (1995).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10006848

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

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, <u>but not all</u>, of the information required for the safe and proper use of this material. Before use, the user <u>must</u> review the <u>complete</u> 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 <u>meet our specifications</u>

purpose, suitability and inertifiantianing, which extends beyond the description of the 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, 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 <u>refund</u> of the purchase price, or at Cayman's option, the <u>replacement</u>, at no cost to Buyer, of all material that

Buyers exclusive remedy and Caymans sole hability increments man be immed to a teams of the purchase 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.

Copyright Cayman Chemical Company, 05/06/2015



Mailing address

1180 E. Ellsworth Road Ann Arbor, MI 48108 USA

Phone

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

(734) 971-3640

custserv@caymanchem.com

www.cavmanchem.com