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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) 

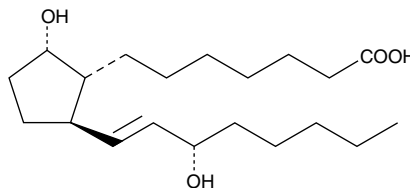
Product Information



11-deoxy Prostaglandin F_{1α}

Item No. 15512

CAS Registry No: 37785-98-1
Formal Name: Prost-13-en-1-oic acid, 9,15-dihydroxy-,
(9α,13E,15S)-
MF: C₂₀H₃₆O₄
FW: 340.5
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
Melting Point: 66-67°C



Laboratory Procedures

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

11-deoxy PGF_{1α} is sparingly soluble in water but freely soluble in organic solvents such as ethanol, methanol, acetone, acetonitrile, or DMSO. The solubility of 11-deoxy PGF_{1α} in these solvents is approximately 10 mg/ml. 11-deoxy PGF_{1α} is stable for at least 6 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 any 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.

Organic solvent-free aqueous solutions of 11-deoxy PGF_{1α} can be prepared by directly dissolving the crystalline compound in basic solutions. The solubility of 11-deoxy PGF_{1α} in 0.01 M aqueous Na₂CO₃ is approximately 6 mg/ml. Again, we do not recommend storing the aqueous solutions for more than one day.

In whole animal studies, a dose of 32 mg/kg of 11-deoxy PGF_{1α} inhibited gastric acid secretion by 35%.¹ 11-deoxy PGF_{1α} is also known to cause rat uterine contractions at a potency of 0.3 times that of PGF_{1α}.²

References

1. Lippmann, W. Inhibition of gastric acid secretion in the rat by synthetic prostaglandins. *J. Pharm. Pharmac.* **21**, 335-336 (1969).
2. Broughton, B.J., Caton, M.P.L., Christmas, A.J., *et al.* Uterine stimulant action of some omega-chain modified (±)-11-deoxyprostaglandins. *Prostaglandins* **22**, 53-64 (1981).
3. Nakano, J. Relationship between the chemical structure of prostaglandins and their vasoactivities in dogs. *Br. J. Pharmacol.* **44**, 63-70 (1972).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15512

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