



SZABO SCANDIC

Part of Europa Biosite

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 Handels GmbH

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

17-phenyl trinor Prostaglandin F_{2α} cyclohexyl amide

Item No. 9000686

Formal Name: N-cyclohexyl-9α,11α,15S-trihydroxy-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-amide

Synonym: Bimatoprost cyclohexyl amide

MF: C₂₉H₄₃NO₄

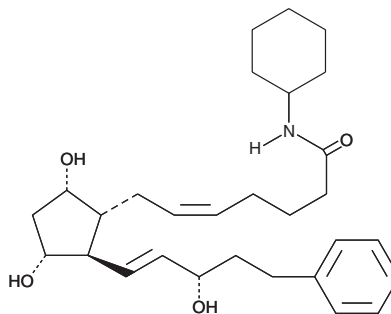
FW: 469.7

Purity: ≥95%

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

17-phenyl trinor Prostaglandin F_{2α} (17-phenyl trinor PGF_{2α}) is supplied as a crystalline solid. A stock solution may be made by dissolving the 17-phenyl trinor PGF_{2α} in the solvent of choice, which should be purged with an inert gas. 17-phenyl trinor PGF_{2α} is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 17-phenyl trinor PGF_{2α} in these solvents is approximately 30, 15, and 10 mg/ml, respectively.

17-phenyl trinor PGF_{2α} is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 17-phenyl trinor PGF_{2α} should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 17-phenyl trinor PGF_{2α} has a solubility of approximately 0.1 mg/ml in a 1:10 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

17-phenyl trinor PGF_{2α} is a metabolically stable, potent agonist of the PGF (FP) receptor.^{1,2} FP agonists can be effective in modulating intraocular pressure, luteolysis, and parturition.³⁻⁵ 17-phenyl trinor PGF_{2α} cyclohexyl amide is a form of 17-phenyl trinor PGF_{2α} with a modification of the α carbon. The addition of a cyclohexane moiety at this position strongly decreases its solubility in aqueous media, leaving it soluble solely in organic solvents. The activity of this compound at the FP receptor has not been evaluated.

References

1. Balapure, A.K., Rexroad, C.E., Jr., Kawada, K., *et al.* Structural requirements for prostaglandin analog interaction with the ovine corpus luteum prostaglandin F_{2α} receptor. *Biochem. Pharmacol.* 38(14), 2375-2381 (1989).
2. Lake, S., Gullberg, H., Wahlqvist, J., *et al.* Cloning of the rat and human prostaglandin F_{2α} receptors and the expression of the rat prostaglandin F_{2α} receptor. *FEBS Lett.* 355(3), 317-325 (1994).
3. Stjernschantz, J. and Resul, B. Phenyl substituted prostaglandin analogs for glaucoma treatment. *Drugs Future* 17(8), 691-704 (1992).
4. Dukes, M., Russell, W., and Walpole, A.L. Potent luteolytic agents related to prostaglandin F_{2α}. *Nature* 250(464), 330-331 (1974).
5. Kobayashi, T. and Narumiya, S. Function of prostanoid receptors: Studies on knockout mice. *Prostaglandins Other Lipid Mediat.* 68-69, 557-573 (2002).

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, 04/23/2024

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