



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 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



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

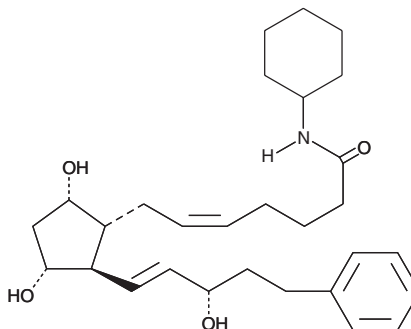
MF: C₂₉H₄₃NO₄

FW: 469.7

Purity: ≥95%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 17-phenyl trinor prostaglandin F_{2α} cyclohexyl amide (17-phenyl trinor PGF_{2α} cyclohexyl amide) be stored as supplied at -20°C. It should be stable for at least two years.

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

17-phenyl trinor PGF_{2α} cyclohexyl amide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 17-phenyl trinor PGF_{2α} cyclohexyl amide should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 17-phenyl trinor PGF_{2α} cyclohexyl amide 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.

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

- Balasure, 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**, 2375-2381 (1989).
- 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**, 317-325 (1994).
- Stjerschantz, J. and Resul, B. Phenyl substituted prostaglandin analogs for glaucoma treatment. *Drugs Future* **17**, 691-704 (1992).
- Dukes, M., Russell, W., and Walpole, A.L. Potent luteolytic agents related to prostaglandin F_{2α}. *Nature* **250**, 330-331 (1974).
- Kobayashi, T. and Narumiya, S. Function of prostanoid receptors: Studies on knockout mice. *Prostaglandins Other Lipid Mediat.* **68-69**, 557-573 (2002).

Related Products

17-phenyl trinor Prostaglandin F_{2α} - Item No. 16810 • Latanoprost (free acid) - Item No. 16811 • Latanoprost - Item No. 16812 • 15(R)-17-phenyl trinor Prostaglandin F_{2α} - Item No. 16814 • 15-keto-17-phenyl trinor Prostaglandin F_{2α} - Item No. 16817 • 17-phenyl trinor Prostaglandin F_{2α} ethyl amide - Item No. 16820 • 17-phenyl trinor Prostaglandin F_{2α} amide - Item No. 16821 • 17-phenyl trinor Prostaglandin F_{2α} diethyl amide - Item No. 16823 • 17-phenyl trinor Prostaglandin F_{2α} isopropyl ester - Item No. 16824 • 15(R)-17-phenyl trinor Prostaglandin F_{2α} isopropyl ester - Item No. 16825 • 17-phenyl trinor Prostaglandin F_{2α} serinol amide - Item No. 10004237 • 15(R)-17-phenyl trinor Prostaglandin F_{2α} ethyl amide - Item No. 10008127 • 5-*trans*-17-phenyl trinor Prostaglandin F_{2α} ethyl amide - Item No. 10008132 • 8-*iso*-17-phenyl trinor Prostaglandin F_{2α} - Item No. 10008435 • 15-keto-17-phenyl trinor Prostaglandin F_{2α} ethyl amide - Item No. 10010405 • 17-phenyl trinor Prostaglandin F_{2α} cyclopropyl amide - Item No. 10010605 • 17-phenyl trinor Prostaglandin F_{2α} cyclopropyl methyl amide - Item No. 10010810

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL 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 Material 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 meet our specifications at the time of 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, indirect, 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 refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival 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, 03/11/2011

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