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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) 

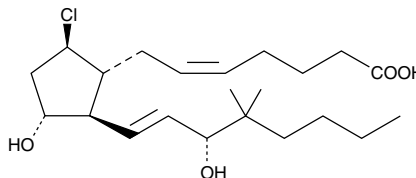
Product Information



Nocloprost

Item No. 10988

CAS Registry No.: 79360-43-3
Formal Name: 9 β -chloro-11 α ,15R-dihydroxy-16,16-dimethyl-prosta-5Z,13E-dien-1-oic acid
MF: C₂₂H₃₇ClO₄
FW: 401.0
Purity: \geq 98%
Stability: \geq 1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that nocloprost be stored as supplied at -20°C. It should be stable for at least one year.

Nocloprost is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the nocloprost 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 nocloprost in these solvents is approximately 16, 10, and 11 mg/ml, respectively.

Nocloprost is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of nocloprost should be diluted with the aqueous buffer of choice. Nocloprost has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Nocloprost is a stable prostaglandin E₂ analog with gastroprotective and ulcer-healing properties. As a weak acid (pK_a = 5), it accumulates in the gastric mucosa at low pH and can prevent the formation of gastric lesions in rats when administered intragastrically 30 minutes before 100% ethanol, acidified aspirin, acidified taurocholate, water immersion, or restraint stress (ID₅₀s = 0.25, 0.58, 0.06 and 0.12 μ g/kg, respectively).¹ Additionally, nocloprost has been used to inhibit evoked acetylcholine release from isolated human bronchi (IC₅₀ = 4 nM) to study factors that regulate human airway smooth muscle tone and secretion.²

References

1. Konturek, S.J., Brzozowski, T., Drozdowicz, D., *et al.* Nocloprost, a unique prostaglandin E₂ analog with local gastroprotective and ulcer-healing activity. *Eur. J. Pharmacol.* **195(3)**, 347-357 (1991).
2. Reinheimer, T., Harnack, E., Racke, K., *et al.* Prostanoid receptors of the EP₃ subtype mediate inhibition of evoked [³H]acetylcholine release from isolated human bronchi. *Br. J. Pharmacol.* **125(2)**, 271-276 (1998).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10988

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