



# 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

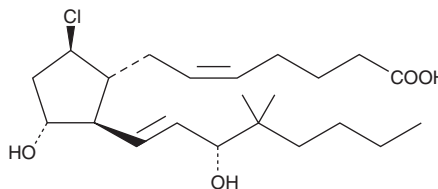
# PRODUCT INFORMATION



## Nocloprost

Item No. 10988

**CAS Registry No.:** 79360-43-3  
**Formal Name:** 9 $\beta$ -chloro-11 $\alpha$ ,15R-dihydroxy-16,16-dimethyl-prosta-5Z,13E-dien-1-oic acid  
**MF:** C<sub>22</sub>H<sub>37</sub>ClO<sub>4</sub>  
**FW:** 401.0  
**Purity:**  $\geq$ 98%  
**Supplied as:** A solution in methyl acetate  
**Storage:** -20°C  
**Stability:**  $\geq$ 1 year



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

### Laboratory Procedures

Nocloprost is supplied as a solution 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 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 methyl acetate solution of nocloprost should be diluted with the aqueous buffer of choice. Nocloprost has a solubility of 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.

### Description

Nocloprost is a stable prostaglandin E<sub>2</sub> analog with gastroprotective and ulcer-healing properties. As a weak acid (pK<sub>a</sub> = 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 (ID<sub>50</sub>s = 0.25, 0.58, 0.06 and 0.12  $\mu$ g/kg, respectively).<sup>1</sup> Additionally, nocloprost has been used to inhibit evoked acetylcholine release from isolated human bronchi (IC<sub>50</sub> = 4 nM) to study factors that regulate human airway smooth muscle tone and secretion.<sup>2</sup>

### References

1. Konturek, S.J., Brzozowski, T., Drozdowicz, D., *et al.* Nocloprost, a unique prostaglandin E<sub>2</sub> 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 EP<sub>3</sub> subtype mediate inhibition of evoked [<sup>3</sup>H]acetylcholine release from isolated human bronchi. *Br. J. Pharmacol.* **125(2)**, 271-276 (1998).

#### 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, 09/15/2022

#### 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