



# 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) 

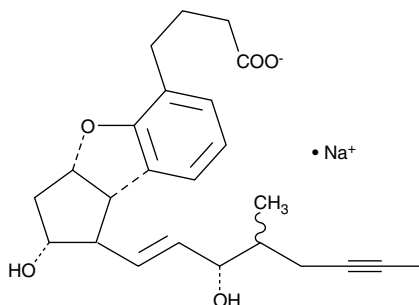
# Product Information



## Beraprost (sodium salt)

Item No. 18230

**CAS Registry No.:** 88475-69-8  
**Formal Name:** 2,3,3a,8b-tetrahydro-2-hydroxy-1-(3-hydroxy-4-methyl-1-octen-6-ynyl)-1H-cyclopenta[b]benzofuran-5-butanoic acid, monosodium salt  
**Synonyms:** ML 1129; Procyclin; TRK 100  
**MF:** C<sub>24</sub>H<sub>29</sub>O<sub>5</sub> • Na  
**FW:** 420.5  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 222, 281, 287 nm



### Laboratory Procedures

For long term storage, we suggest that beraprost (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

Beraprost (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the beraprost (sodium salt) in an organic solvent purged with an inert gas. Beraprost (sodium salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of beraprost (sodium salt) in these solvents is approximately 22 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of beraprost (sodium salt) can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of beraprost (sodium salt) in PBS (pH 7.2) is approximately 19 mg/ml. Store aqueous solutions of beraprost (sodium salt) on ice and use within 12 hours of preparation. Although the aqueous solutions of beraprost (sodium salt) may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

Beraprost is an analog of prostacyclin in which the unstable enol-ether has been replaced by a benzofuran ether function. This modification increases the plasma half-life from 30 seconds to several hours, and permits the compound to be taken orally. Doses of 20 -100 µg in humans, given 1 to 3 times per day, have been demonstrated to improve clinical end points in diseases responsive to prostacyclin. Oral beraprost therapy improved the survival and pulmonary hemodynamics of patients with primary pulmonary hypertension.<sup>1</sup> Beraprost inhibits platelet aggregation in healthy subjects and in diabetic patients at similar doses.<sup>2,3</sup>

### References

1. Nagaya, N., Uematsu, M., Okano, Y., *et al.* Effect of orally active prostacyclin analogue on survival of outpatients with primary pulmonary hypertension. *J. Am. Coll. Cardiol.* **34**, 1188-1192 (1999).
2. Nony, P., French, P., Girard, P., *et al.* Platelet-aggregation inhibition and hemodynamic effects of beraprost sodium, a new oral prostacyclin derivative: A study in healthy male subjects. *Can. J. Physiol. Pharmacol.* **74**, 887-893 (1996).
3. Kato, H., Takashima, T., Kishikawa, H., *et al.* Effect of beraprost sodium, a stable prostaglandin I<sub>2</sub> analogue, on platelet aggregation in diabetes mellitus. *Int. J. Clin. Pharmacol. Res.* **16** (1996).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/18230](http://www.caymanchem.com/catalog/18230)

**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, 06/20/2012

### 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](mailto:custserv@caymanchem.com)

#### Web

[www.caymanchem.com](http://www.caymanchem.com)