



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



Vasoactive Eicosanoid HPLC Mixture

Catalog No. 10003

Purity: ≥ 98% for each compound
Stability: ≥ 6 months at -20°C
Supplied as: A solution in methyl acetate (Please see below for specific amounts of each compound.)

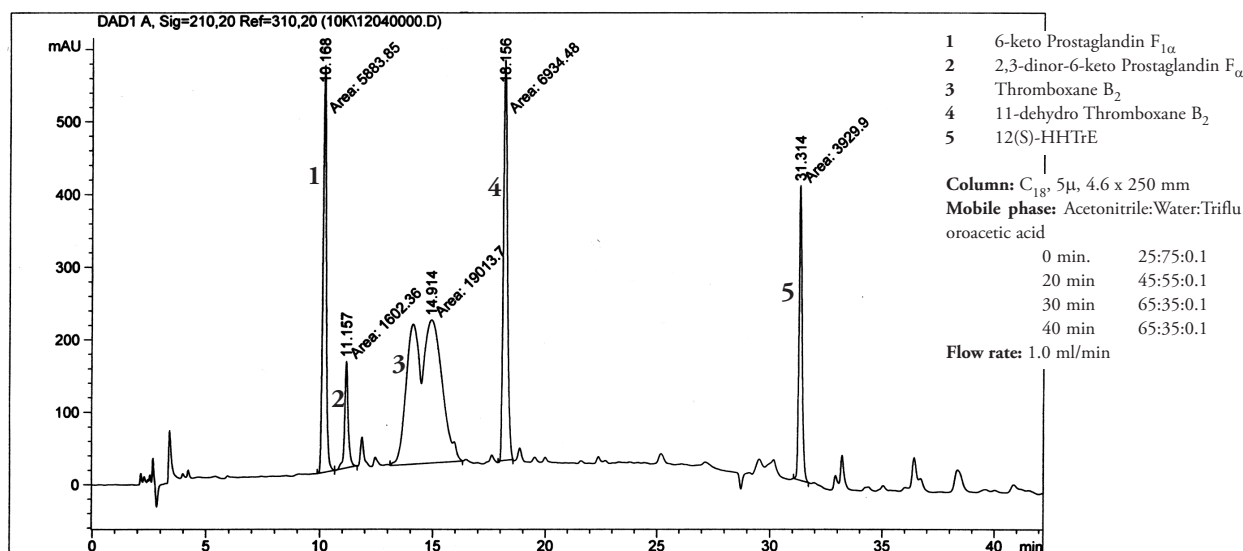
Laboratory Procedures

These compounds are supplied as a solution in methyl acetate. We suggest that they be stored as supplied at -20°C. They should be stable for at least six months.

This mixture contains the characteristic metabolites of both Prostaglandin I₂ (PGI₂) and Thromboxane A₂ (TXA₂). Contents: TXB₂, 11-dehydro TXB₂, 6-keto PGF_{1α}, 2,3-dinor-6-keto PGF_{1α} (100 μg each), and 12(S)-HHTrE (5 μg). The primary platelet cyclooxygenase product is TXA₂. This chemically unstable mediator is produced in μg/ml amounts in clotting whole blood, along with a comparable amount of 12(S)-HHTrE (12-HHT).¹ Thromboxane synthase catalyzes the production of both compounds from PGH₂. TXA₂ degrades rapidly (t_{1/2} = 30 sec.) to TXB₂, the primary metabolite which is essentially devoid of biological activity. TXB₂ is further metabolized to 11-dehydro TXB₂, the main urinary metabolite.

Endothelial cells produce PGI₂ (prostacyclin), an equally unstable vasodilator and antagonist of platelet aggregation. PGI₂ undergoes non-enzymatic hydrolysis yielding 6-keto PGF_{1α}, the primary inactive prostacyclin metabolite. 2,3-dinor-6-keto PGF_{1α} is the major urinary metabolite.²

These metabolites span a very wide polarity range and separate well on reversed phase HPLC.



References

1. Hamberg, M., Svensson, J., and Samuelsson, B. Thromboxanes: A new group of biologically active compounds derived from prostaglandin endoperoxides. *Proc. Natl. Acad. Sci. USA* **72**, 2994-2998 (1975).
2. Rosenkranz, B., Fischer, C., Reimann, I., et al. Identification of the major metabolite of prostacyclin and 6-ketoprostaglandin F_{1α} in man. *Biochim. Biophys. Acta* **619**, 207-213 (1980).

Related Products

UV-active Prostaglandin HPLC Mixture - Cat. No. 10000 • Primary Eicosanoid HPLC Mixture - Cat. No. 10001 • Prostaglandin HPLC Mixture - Cat. No. 10002 • Prostaglandin Metabolite HPLC Mixture - Cat. No. 10005 • 2,3-dinor-6-keto Prostaglandin F_{1α} - Cat. No. 15120 • 6-keto Prostaglandin F_{1α} - Cat. No. 15210 • Prostaglandin I₂ (sodium salt) - Cat. No. 18220 • Thromboxane B₂ - Cat. No. 19030 • 11-dehydro Thromboxane B₂ - Cat. No. 19530 • 12(S)-HHTrE - Cat. No. 34590

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 under separate cover to the MSDS supervisor at 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, 08/04/2009

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