



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) 

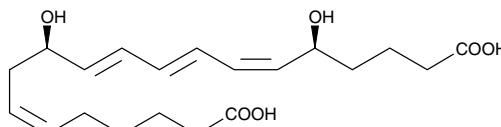
Product Information



20-carboxy Leukotriene B₄

Item No. 20180

CAS Registry No.: 80434-82-8
Formal Name: 5S,12R-dihydroxy-6Z,8E,10E,14Z-eicosatetraene-1,20-dioic acid
MF: C₂₀H₃₀O₆
FW: 366.5
Purity: ≥97%
Stability: ≥2 years at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 270 nm ε: 50,000
Miscellaneous: Oxygen and light sensitive



Laboratory Procedures

For long term storage, we suggest that 20-carboxy leukotriene B₄ (20-carboxy LTB₄) be stored as supplied at -20°C. It should be stable for at least two years.

20-carboxy LTB₄ is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO or dimethyl formamide purged with an inert gas can be used. The solubility of 20-carboxy LTB₄ in these solvents is approximately 50 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Be certain that your buffers are free of oxygen, transition metal ions, and redox active compounds. Also, ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 20-carboxy LTB₄ is needed, evaporate the ethanol under a stream of nitrogen and dissolve the neat oil in the buffer of choice. 20-carboxy LTB₄ is soluble in PBS (pH 7.2) at concentrations of at least 1 mg/ml. For more concentrated aqueous solutions, use basic buffers (pH > 8.0 and ionic strength ≥ 0.1M). Store aqueous solutions of 20-carboxy LTB₄ on ice and use within 12 hours.

20-carboxy LTB₄ is a metabolite of LTB₄ in human neutrophils. In human leukocytes, LTB₄ is inactivated by the enzyme LTB₄ 20-hydroxylase. The resulting 20-hydroxy LTB₄ is further oxidized to 20-carboxy LTB₄.¹ LTB₄ metabolism in isolated rat hepatocytes also results in production of 20-carboxy LTB₄ along with other ω-oxidation products.² The biological activity of 20-carboxy LTB₄ is only about 2.6% compared to that of LTB₄ in causing PMNL degranulation.³

References

1. Hansson, G., Lindgren, J.Å., Dahlén, S.-E., *et al.* Identification and biological activity of novel ω-oxidized metabolites of leukotriene B₄ from human leukocytes. *FEBS Lett.* **130**, 107-112 (1981).
2. Harper, T.W., Garrity, M.J., and Murphy, R.C. Metabolism of leukotriene B₄ in isolated rat hepatocytes. Identification of a novel 18-carboxy-19,20-dinor leukotriene B₄ metabolite. *J. Biol. Chem.* **261**, 5414-5418 (1986).
3. Feinmark, S.J., Lindgren, J.Å., Claesson, H.-E., *et al.* Stimulation of human leukocyte degranulation by leukotriene B₄ and its ω-oxidized metabolites. *FEBS Lett.* **136**, 141-144 (1981).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/20180

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, 11/30/2012

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

Web

www.caymanchem.com