



# 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



## Oxidized Lipid HPLC Mixture

Item No. 34004

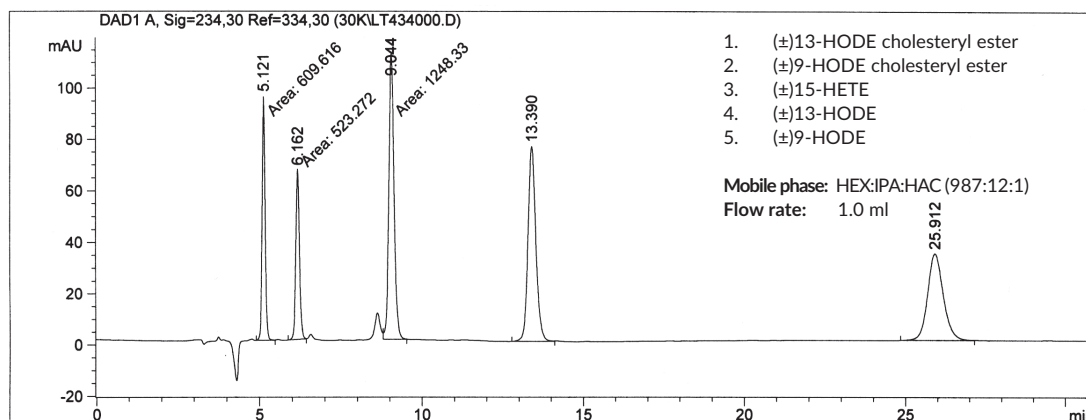
**Purity:** ≥98% for each compound  
**Supplied as:** A solution in ethanol (5 µg of each compound)  
**Storage:** -20°C  
**Stability:** ≥1 year

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

### Laboratory Procedures

This HPLC mixture contains representative oxidized lipids derived from unsaturated fatty acids. Cholesterol and LDL particles accumulate and become oxidized in the fatty deposits of atherosclerotic plaques. Contained within these lipid deposits are the racemic monohydroxylation products of both linoleic and arachidonic acid.<sup>1</sup>

This HPLC mixture contains the free acid (non-esterified) forms of racemic 15-HETE, 9-HODE, and 13-HODE. 15-HETE is one of five different regioisomers produced by the random oxygenation of arachidonic acid.<sup>2</sup> (The other four can be purchased in HPLC Mixture Item No. 34002). The 9- and 13-HODEs are the two different monohydroxylated regioisomers of linoleic acid produced during random free radical oxidation. In this mixture, the HODE compounds are provided both in their free acid form, and also esterified to cholesterol. Linoleate is transported primarily as the cholesteryl ester in the LDL particle, and it is likely that the esterified form is oxidized when LDL particles are exposed to uncontrolled reactive oxygen species.<sup>3</sup>



### References

1. Belkner, J., Wiesner, R., Kühn, H., *et al.* The oxygenation of cholesterol esters by the reticulocyte lipoxygenase. *FEBS Lett.* **279**, 110-114 (1991).
2. Green, M.D., Xiao, L., and Lal, A.A. Formation of hydroxyecosatetraenoic acids from hemozoin-catalyzed oxidation of arachidonic acid. *Mol. Biochem. Parasitol.* **83**, 183-188 (1996).
3. Harland, W.A., Gilbert, J.D., and Brooks, C.J.W. Lipids of Human Atheroma. VIII. Oxidised derivatives of cholesteryl linoleate. *Biochim. Biophys. Acta* **316**, 378-385 (1973).

#### 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, 08/10/2018

#### 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