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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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

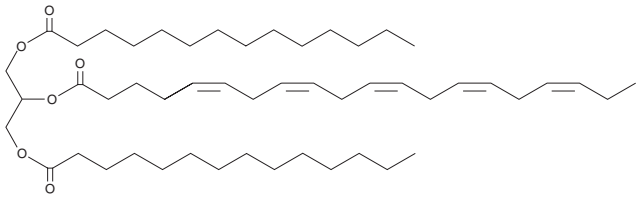
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

1,3-Dimyristoyl-2-Eicosapentaenoyl Glycerol

Item No. 26986

CAS Registry No.: 191786-55-7
Formal Name: 5Z,8Z,11Z,14Z,17Z-eicosapentaenoic acid, 2-[(1-oxotetradecyl)oxy]-1-[[(1-oxotetradecyl)oxy] methyl]ethyl ester
Synonyms: MEM, 1,3-Myristin-2-Eicosapentaenoin, 14:0/20:5/14:0-TG, TG(14:0/20:5/14:0)
MF: $C_{51}H_{88}O_6$
FW: 797.2
Purity: ≥98%
Supplied as: A liquid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

1,3-Dimyristoyl-2-eicosapentaenoyl glycerol (MEM) is supplied as a a liquid. A stock solution may be made by dissolving the MEM in the solvent of choice. MEM is soluble in organic solvents such as ethanol and dimethyl formamide, which should be purged with an inert gas. The solubility of MEM in these solvents is approximately 10 mg/ml. MEM is also slightly soluble in chloroform.

MEM is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MEM should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. MEM has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MEM is a triacylglycerol that contains myristic acid (Item No. 13351) at the *sn*-1 and *sn*-3 positions and eicosapentaenoic acid (Item Nos. 90110 | 90110.1 | 21908) at the *sn*-2 position. The myristoyl groups in MEM do not affect the oxidative stability of eicosapentaenoic acid (EPA) during long-term storage at 25°C.[1]

Reference

1. Endo, Y., Hoshizaki, S., and Fujimoto, K. Autoxidation of synthetic isomers of triacylglycerol containing eicosapentaenoic acid. *J. Am. Oil Chem. Soc.* **74(5)**, 543-548 (1997).

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