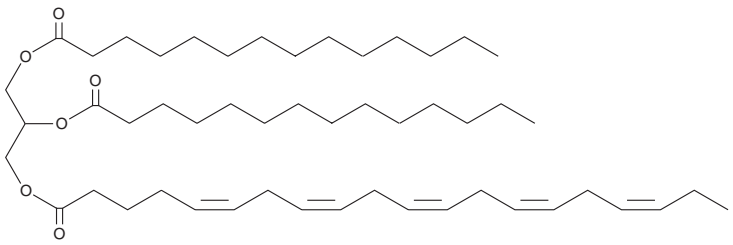
PRODUCT INFORMATION

1,2-Dimyristoyl-3-Eicosapentaenoyl-*rac*-glycerol

Item No. 26826

CAS Registry No.: 116198-40-4
Formal Name: (all-Z)-5,8,11,14,17-eicosapentaenoic acid, 2,3-*bis*[(1-oxotetradecyl)oxy]propyl ester
Synonyms: MME, 1,2-Myristin-3-Eicosapentaenoin, 14:0/14:0/20:5-TG, TG(14:0/14:0/20:5)
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

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

1,2-Dimyristoyl-3-eicosapentaenoyl-*rac*-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1,2-dimyristoyl-3-eicosapentaenoyl-*rac*-glycerol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 1,2-Dimyristoyl-3-eicosapentaenoyl-*rac*-glycerol 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

1,2-Dimyristoyl-3-eicosapentaenoyl-*rac*-glycerol is a triacylglycerol that contains myristic acid (Item No. 13351) at the *sn*-1 and *sn*-2 positions and eicosapentaenoic acid (Item Nos. 90110 | 90110.1 | 21908) at the *sn*-3 position. Relative quantities of 1,2-dimyristoyl-3-eicosapentaenoyl-*rac*-glycerol in the alga *T. minutus* positively correlate with increases in temperature.[1]

Reference

1. Řezanka, T., Lukavský, J., Sigler, K., *et al.* Temperature dependence of production of structured triacylglycerols in the alga *Trachydiscus minutus*. *Phytochemistry* **110**, 37-45 (2015).

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.

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