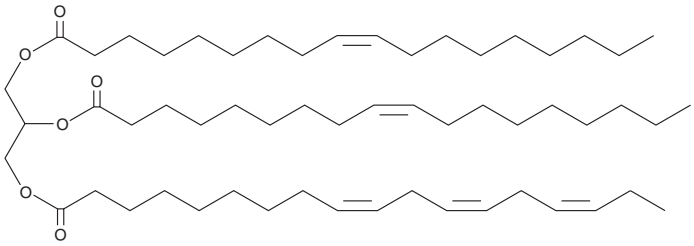
PRODUCT INFORMATION

1,2-Dioleoyl-3-α-Linolenoyl-*rac*-glycerol

Item No. 27378

CAS Registry No.: 90318-80-2
Formal Name: (9Z,12Z,15Z)-octadecatrienoic acid, 2,3-*bis*[[(9Z)-1-oxo-9-octadecen-1-yl] oxy]propyl ester
Synonyms: 1,2-Olein-3-α-Linolenin, 1,2-Olein-3-Linolenin, TG(18:1/18:1/18:3)
MF: $C_{57}H_{100}O_6$
FW: 881.4
Purity: ≥98%
Supplied as: A solution in methyl acetate
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

1,2-Dioleoyl-3-α-linolenoyl-*rac*-glycerol is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol and dimethyl formamide purged with an inert gas can be used. The solubility of 1,2-dioleoyl-3-α-linolenoyl-*rac*-glycerol in these solvents is approximately 10 mg/ml.

1,2-Dioleoyl-3-α-linolenoyl-*rac*-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of 1,2-dioleoyl-3-α-linolenoyl-*rac*-glycerol should be diluted with the aqueous buffer of choice. 1,2-Dioleoyl-3-α-linolenoyl-*rac*-glycerol has a solubility of 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-Dioleoyl-3-α-linolenoyl-*rac*-glycerol is a triacylglycerol that contains oleic acid (Item Nos. 90260 | 24659) at the *sn*-1 and *sn*-2 positions and α-linolenic acid (Item Nos. 90210 | 21910) at the *sn*-3 position. It has been found in the fat body of male *B. lapidarius* bumblebees.[1]

Reference

1. Cvačka, J., Hovorka, O., Jiroš, P., *et al.* Analysis of triacylglycerols in fat body of bumblebees by chromatographic methods. *J. Chromatogr. A.* **1101(1-2),** 226-237 (2006).

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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