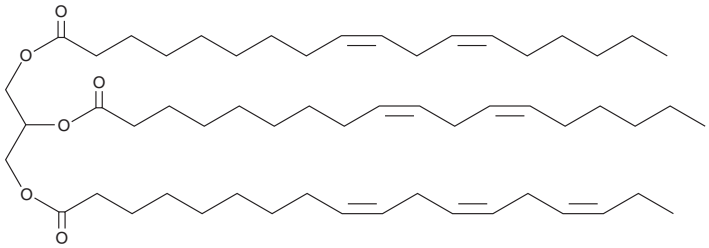
PRODUCT INFORMATION

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

Item No. 27286

CAS Registry No.: 55771-89-6
Formal Name: (9Z,12Z,15Z)-9,12,15-octadecatrienoic acid, 2,3-*bis*[[(9Z,12Z)-1-oxo-9,12-octadecadien-1-yl]oxy]propyl ester
Synonyms: 1,2-Linolein-3-α-Linolenin, TG(18:2/18:2/18:3)
MF: $C_{57}H_{96}O_6$
FW: 877.4
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-Dilinoleoyl-3-α-linolenoyl-*rac*-glycerol is supplied as a liquid. A stock solution may be made by dissolving the 1,2-dilinoleoyl-3-α-linolenoyl-*rac*-glycerol in the solvent of choice, which should be purged with an inert gas. 1,2-Dilinoleoyl-3-α-linolenoyl-*rac*-glycerol is soluble in organic solvents such as ethanol and dimethyl formamide. The solubility of 1,2-dilinoleoyl-3-α-linolenoyl-*rac*-glycerol in these solvents is approximately 10 mg/ml.

1,2-Dilinoleoyl-3-α-linolenoyl-*rac*-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 1,2-dilinoleoyl-3-α-linolenoyl-*rac*-glycerol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 1,2-Dilinoleoyl-3-α-linolenoyl-*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-Dilinoleoyl-3-α-linolenoyl-*rac*-glycerol is a triacylglycerol that contains linoleic acid (Item Nos. 90150 | 90150.1 | 21909) 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 corn and soybean oils.[1]

Reference

1. Gao, B., Luo, Y., Lu, W., *et al.* Triacylglycerol compositions of sunflower, corn and soybean oils examined with supercritical CO_2 ultra-performance convergence chromatography combined with quadrupole time-of-flight mass spectrometry. *Food Chem.* **218**, 569-574 (2017).

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