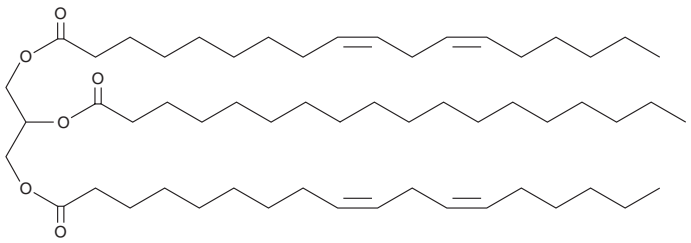
PRODUCT INFORMATION

1,3-Dilinoleoyl-2-Stearoyl Glycerol

Item No. 26971

CAS Registry No.: 2190-18-3
Formal Name: 9,12-octadecadienoic acid, 1,1'-[2-[(1-oxooctadecyl) oxy]-1,3-propanediyl] ester
Synonyms: 1,3-Linolein-2-Stearin, 18:2/18:0/18:2-TG, TG(18:2/18:0/18:2)
MF: $C_{57}H_{102}O_6$
FW: 883.4
Purity: ≥98%
Supplied as: A solution in ethanol
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-Dilinoleoyl-2-stearoyl glycerol is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice, which should be purged with an inert gas. 1,3-Dilinoleoyl-2-stearoyl glycerol is soluble in organic solvents such as ethanol and dimethyl formamide. The solubility of 1,3-dilinoleoyl-2-stearoyl glycerol in these solvents is approximately 10 mg/ml. 1,3-Dilinoleoyl-2-stearoyl glycerol is also slightly soluble in chloroform

1,3-Dilinoleoyl-2-stearoyl glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 1,3-dilinoleoyl-2-stearoyl glycerol should be diluted with the aqueous buffer of choice. 1,3-Dilinoleoyl-2-stearoyl 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

1,3-Dilinoleoyl-2-stearoyl glycerol is a triacylglycerol that contains linoleic acid (Item Nos. 90150 | 90150.1 | 21909) at the *sn*-1 and *sn*-3 positions and stearic acid (Item No. 10011298) at the *sn*-2 position. It has been found in soybean oil as well as transitional and mature human milk.[1,2]

References

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).
2. Tu, A., Ma, Q., Bai, H., *et al.* A comparative study of triacylglycerol composition in Chinese human milk within different lactation stages and imported infant formula by SFC coupled with Q-TOF-MS. *Food Chem.* **221**, 555-567 (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