

Product Data Sheet

Product Name: 1,2-Dilinoleoyl-3-Palmitoyl-rac-glycerol

Cat. No.: GC45289

Chemical Properties

Cas. No. 2190-15-0

SMILES O=C(CCCCCC/C=C\C/C=C\CCCC)OCC(OC(CCCCCC/C=C\C/C=C\CCCC)=O)COC(CCCCCCCCCCCCCC)=O

Formula C55H98O6 M.Wt 855.4

Solubility Chloroform: slightly soluble, Methanol: slightly soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

1,2-Dilinoleoyl-3-palmitoyl-rac-glycerol is a triacylglycerol that contains linoleic acid at the sn-1 and sn-2 positions and palmitic acid at the sn-3 position. It has been found in a variety of vegetable oils, including poppy seed, hazelnut, maize, and olive oils.¹ 1,2-Dilinoleoyl-3-palmitoyl-rac-glycerol (3% w/v) reduces scald development on apples of the Delicious variety when applied immediately following harvest and assessed after six months of storage.²

References

1. Mottram, H.R., Woodbury, S.E., and Evershed, R.P. Identification of triacylglycerol positional isomers present in vegetable oils by high performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry. *Rapid Commun. Mass Spectrom.* 11(12), 1240-1252 (1998).
2. Ju, Z., Duan, Y., and Ju, Z. Mono-, di-, and tri-acylglycerols and phospholipids from plant oils inhibit scald development in 'Delicious' apples. *Postharvest Bio. Technol.* 19(1), 1-7 (2000).

Caution: Product has not been fully validated for medical applications. For research use only.

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