

Product Data Sheet

Product Name: 1,2,3-Trielaidoyl-rac-glycerol

Cat. No.: GC46040

Chemical Properties

Cas. No. 537-39-3

SMILES O=C(OCC(OC(CCCCCC/C=C/CCCCCCCC)=O)COC(CCCCCC/C=C/CCCCCCCC)=O)CCCCC/C=C/CCCCCCCC

Formula C57H104O6

M.Wt 885.4

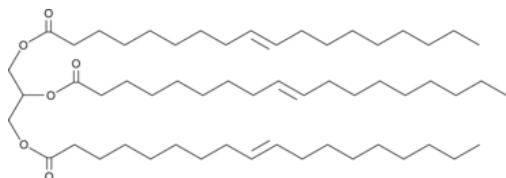
Solubility Chloroform:
10mg/mL, Chloroform:PBS (pH 7.2)
(1:3): 0.25mg/mL

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

1,2,3-Trielaidoyl-rac-glycerol is a triacylglycerol that contains elaidic acid at the sn-1, sn-2, and sn-3 positions. Dietary administration of 1,2,3-trielaidoyl-rac-glycerol reduces serum cholesterol levels in rats compared to corn oil-fed control animals.¹ 1,2,3-Trielaidoyl-rac-glycerol has been used as a substrate to determine the substrate specificity of *S. rimosus* extracellular lipase.²

[1. Clifford, A.J., Smith, L.M., Creveling, R.K., et al. Effects of dietary triglycerides on serum and liver lipids and sterol excretion of rats. *J. Nutr.* 116(6), 944-956 (1986).]2. Le••i•, I., Vukeli•, B., Majeri•-Elenkov, M., et al. Substrate specificity and effects of water-miscible solvents on the activity and stability of extracellular lipase from *Streptomyces rimosus*. *Enzyme Microb. Technol.* 29(8-9), 548-553 (2001).

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

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