1,2-Dioleoyl-rac-glycerol
Item No. 10007863

CAS Registry No.: 2442-61-7
Formal Name: 9Z-octadecenoic acid, 1,1′-[1-(hydroxymethyl)-1,2-ethanediyl] ester
Synonyms: (±)-1,2-Diolein, rac-Glycerol 1,2-dioleate
MF: C_{39}H_{72}O_5
FW: 621.0
Purity: ≥95%
Supplied as: A solution in methyl acetate
Storage: -80°C
Stability: ≥1 year

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

Laboratory Procedures

1,2-Dioleoyl-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-rac-glycerol in these solvents is approximately 10 mg/ml.

1,2-Dioleoyl-rac-glycerol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 1,2-dioleoyl-rac-glycerol should be diluted with the aqueous buffer of choice. 1,2-Dioleoyl-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-Dioleoyl-rac-glycerol is a diacylglycerol that contains oleic acid at the sn-1 and sn-2 positions. It effectively binds the C1 domain to activate conventional protein kinase C forms and serves as a substrate for DAG kinases and multisubstrate lipid kinase.\cite{1,2,3}

References