

Product Data Sheet

Product Name: Palmitic Acid ethyl ester

Cat. No.: GC41549

Chemical Properties

Cas. No. 628-97-7

SMILES CCCCCCCCCCCCCCCC(=O)OCC

Formula C₁₈H₃₆O₂

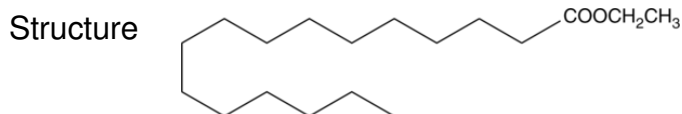
M.Wt 284.5

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: >100 mg/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.



Background

Palmitic acid is a common 16-carbon saturated fat that represents 10-20% of the normal human dietary fat intake. Palmitic acid also makes up approximately 25% of the total plasma fatty acids in plasma lipoproteins. Saturated fatty acids induce the expression of cyclooxygenase-2 and, after protein acylation, are used to confer lipid anchoring to a variety of signaling molecules. Palmitic acid ethyl ester is a neutral, lipid-soluble form of the free acid. It is one of the fatty acid ethyl esters that increase cytosolic Ca²⁺ concentration leading to pancreatic acinar cell injury due to excessive consumption of ethanol.

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

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