

Product Data Sheet

Product Name: Oleic Acid ethyl ester

Cat. No.: GC40733

Chemical Properties

Cas. No. 111-62-6

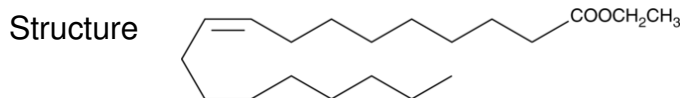
SMILES CCCCCCCC/C=C\CCCCCCCC(OCC)=O

Formula C20H38O2 M.Wt 310.5

Solubility DMF: >100 mg/ml, DMSO: >100 mg/ml, Ethanol: >100 mg/ml
Storage Store at -20°C, protect from light

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

Oleic acid is a monounsaturated fatty acid and is one of the major components of membrane phospholipids. It contributes about 17% of the total fatty acids esterified to phosphatidylcholine in porcine platelets. Oleic acid ethyl ester is a neutral, more lipid-soluble form of oleic acid. As the free acid, it inhibits collagen-stimulated platelet aggregation by approximately 90% at a concentration of 10 µg/ml. It inhibits fMLF-induced neutrophil aggregation and degranulation by 55% and 68%, respectively, at 5 µM. Oleic acid, whether applied extracellularly (EC50 = ~60 µM) to human platelets or released from membrane phospholipids, causes an increase in intracellular calcium levels.

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

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