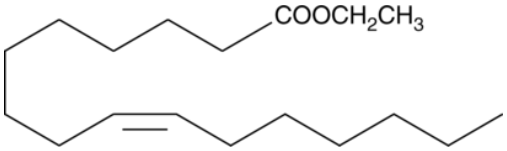
Product Data Sheet

Product Name: Palmitoleic Acid ethyl ester
Cat. No.: GC41588

Chemical Properties

Cas. No.	56219-10-4		
SMILES	CCCCCC/C=C\CCCCCCCC(OCC)=O		
Formula	C18H34O2	M.Wt	282.5
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,Ethanol: >50 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.		

Structure



Background

Palmitoleic acid (9-hexadecenoic acid) is an unsaturated fatty acid that is found in highest concentration in the liver. It is a common component of the glycerides of human adipose tissues. Two other sources of palmitoleic acid are macadamia oil and sea buckthorn oil which contain about 20% and 40% of total fatty acid composition, respectively. Palmitoleic acid ethyl ester (ethyl palmitoleate) is a more lipophilic 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. Ethyl palmitoleate (10-100 µM) in addition to 850 mM ethanol resulted in sustained, concentration-dependent increases in Ca2+ that caused cell death. This fatty acid ethyl ester is also a potential biomarker for fetal exposure to alcohol.

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