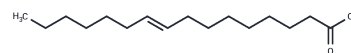


Palmitelaidic Acid

Chemical Properties

CAS No. :	10030-73-6
Formula:	C16H30O2
Molecular Weight:	254.41
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Palmitelaidic Acid (trans-Palmitoleic acid) is one of the most abundant fatty acids in serum and tissue.
Targets(IC50)	Glucokinase,AMPK,PPAR
In vivo	palmitoleic acid down-regulated mRNA expressions of proinflammatory adipocytokine genes (TNF α and resistin) in white adipose tissue and lipogenic genes (SREBP-1, FAS, and SCD-1) in liver.

Solubility Information

Solubility	Ethanol: 100 mg/mL (393.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9307 mL	19.6533 mL	39.3066 mL
5 mM	0.7861 mL	3.9307 mL	7.8613 mL
10 mM	0.3931 mL	1.9653 mL	3.9307 mL
50 mM	0.0786 mL	0.3931 mL	0.7861 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yang ZH, et al. Chronic administration of palmitoleic acid reduces insulin resistance and hepatic lipid accumulation in KK-Ay Mice with genetic type 2 diabetes. *Lipids Health Dis.* 2011 Jul 21;10:120.

Frigolet ME, et al. The Role of the Novel Lipokine Palmitoleic Acid in Health and Disease. *Adv Nutr.* 2017 Jan 17;8(1):173S-181S.

de Souza CO, et al. Palmitoleic Acid Improves Metabolic Functions in Fatty Liver by PPAR α -Dependent AMPK Activation. *J Cell Physiol.* 2016 Dec 7.

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