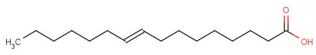
Data Sheet (Cat.No.T19500)

TargetMol
A DRUG SCREENING EXPERT

Palmitelaidic Acid

Chemical Properties

CAS No.:	10030-73-6
Formula:	C16H30O2
Molecular Weight:	254.41
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).



Biological Description

Description	Palmitoleic acid is one of the most abundant fatty acids in serum and tissue.
Targets(IC_{50})	AMPK: None PPARα: None
In vivo	palmitoleic acid down-regulated mRNA expressions of proinflammatory adipocytokine genes (TNFα 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) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.931 mL	19.653 mL	39.307 mL
5 mM	0.786 mL	3.931 mL	7.861 mL
10 mM	0.393 mL	1.965 mL	3.931 mL
50 mM	0.079 mL	0.393 mL	0.786 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Frigolet ME, et al. The Role of the Novel Lipokine Palmitoleic Acid in Health and Disease.
2. de Souza CO, et al. Palmitoleic Acid Improves Metabolic Functions in Fatty Liver by PPARα-Dependent AMPK Activation. J Cell Physiol. 2016 Dec 7. doi: 10.1002/jcp.25715.
3. 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.

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