

## Oleoylcarnitine

## Chemical Properties

CAS No. : 38677-66-6

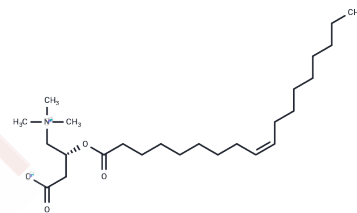
Formula: C<sub>25</sub>H<sub>47</sub>NO<sub>4</sub>

Molecular Weight: 425.65

Store at low temperature

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	Oleoylcarnitine (Oleoyl-L-carnitine) inhibits adenine nucleotide translocase (AdNT) activity with an ic50 of 14 μM. Oleoylcarnitine is an important indicator of neurodegeneration.
Targets(IC50)	Endogenous Metabolite
In vitro	In Dih 10 cells and HCC cells, Oleoylcarnitine (5, 25, 50 μM; 24, 48 hours) enhanced the self-renewal of HCC cells through STAT3 activation, contributing directly to hepatocarcinogenesis[1].

## Solubility Information

Solubility	DMSO: 25 mg/mL (58.73 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	2.3493 mL	11.7467 mL	23.4935 mL
5 mM	0.4699 mL	2.3493 mL	4.6987 mL
10 mM	0.2349 mL	1.1747 mL	2.3493 mL
50 mM	0.047 mL	0.2349 mL	0.4699 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

Fujiwara N, et al. CPT2 downregulation adapts HCC to lipid-rich environment and promotes carcinogenesis via acylcarnitine accumulation in obesity. *Gut*. 2018 Aug;67(8):1493-1504.

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