## **Product** Data Sheet

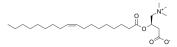
# Oleoylcarnitine

Cat. No.: HY-113261 CAS No.: 38677-66-6 Molecular Formula:  $C_{25}H_{47}NO_4$ Molecular Weight: 425.64

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease Storage: Powder -20°C 3 years

> In solvent -80°C 6 months

-20°C 1 month



### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (234.94 mM; ultrasonic and warming and heat to 60°C)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3494 mL	11.7470 mL	23.4940 mL
	5 mM	0.4699 mL	2.3494 mL	4.6988 mL
	10 mM	0.2349 mL	1.1747 mL	2.3494 mL

Please refer to the solubility information to select the appropriate solvent.

## **BIOLOGICAL ACTIVITY**

Description	Oleoylcarnitine, the metabolite which accumulates through suppression of fatty acid $\beta$ -oxidation, can enhance hepatocarcinogenesis via STAT3 activation <sup>[1]</sup> .		
IC <sub>50</sub> & Target	Human Endogenous Metabolite		
In Vitro	knock down <sup>[1]</sup> . Oleoylcarnitine (5 μΜ, 2- cells through STAT3 acti	4 hours) contributes directly to hepatocarcinogenesis by conferring stem cell properties to cancer ivation <sup>[1]</sup> .  ntly confirmed the accuracy of these methods. They are for reference only.  Dih 10 cells, HCC cells  5, 25, 50 μM	

	Incubation Time:	24, 48 hours	
	Result:	Enhanced the self-renewal of HCC cells through STAT3 activation.	
		Contributed directly to hepatocarcinogenesis.	
In Vivo	Oleoylcarnitine (AC18:1) accumulates markedly in obesity-driven HCC tissues of mice $^{[1]}$ .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	MUP-uPA and PIK3CA Tg mice $^{[1]}$ .	
	Dosage:		
	Administration:	High-fat diet (HFD) for mice	

### REFERENCES

[1]. 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.

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

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