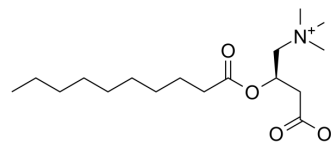


## Decanoyl-L-carnitine

<b>Cat. No.:</b>	HY-135035		
<b>CAS No.:</b>	3992-45-8		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>33</sub> NO <sub>4</sub>		
<b>Molecular Weight:</b>	315.45		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (317.01 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1701 mL	15.8504 mL	31.7007 mL
	5 mM	0.6340 mL	3.1701 mL	6.3401 mL
	10 mM	0.3170 mL	1.5850 mL	3.1701 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (7.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (7.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (7.93 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Decanoyl-L-carnitine has stimulatory effect on the formation of desaturated fatty acid metabolites from both [1-<sup>14</sup>C]-22:4 (n-6) and [1-<sup>14</sup>C]-22:5 (n-3)<sup>[1]</sup>.

### REFERENCES

- [1]. T N Tran, et al. Differences in the conversion of the polyunsaturated fatty acids [1-(<sup>14</sup>C)22:4(n-6) and [1-(<sup>14</sup>C)22:5(n-3) to [(<sup>14</sup>C)22:5(n-6) and [(<sup>14</sup>C)22:6(n-3) in

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isolated rat hepatocytes. *Biochim Biophys Acta*. 2001 May 31;1532(1-2):137-47.

[2]. Patrick M Carry, et al. Phospholipid Levels at Seroconversion Are Associated With Resolution of Persistent Islet Autoimmunity: The Diabetes Autoimmunity Study in the Young. *Diabetes*

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

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