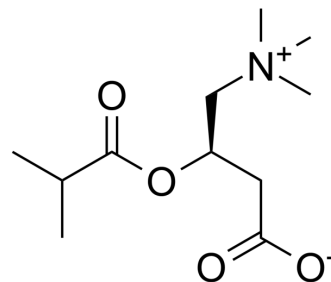


## Isobutyryl-L-carnitine

<b>Cat. No.:</b>	HY-113165
<b>CAS No.:</b>	25518-49-4
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>21</sub> NO <sub>4</sub>
<b>Molecular Weight:</b>	231.29
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (1080.89 mM; Need ultrasonic)					
	H <sub>2</sub> O : 125 mg/mL (540.45 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		4.3236 mL	21.6179 mL	43.2358 mL
<b>5 mM</b>			0.8647 mL	4.3236 mL	8.6472 mL	
	<b>10 mM</b>		0.4324 mL	2.1618 mL	4.3236 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.99 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.99 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.99 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Isobutyryl-L-carnitine is a product of the acyl-CoA dehydrogenases <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### REFERENCES

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

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