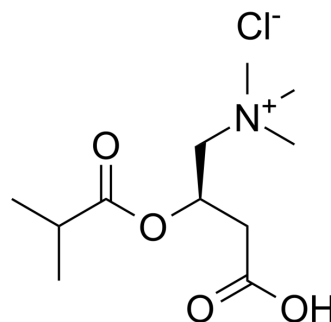


## Isobutyryl-L-carnitine chloride

<b>Cat. No.:</b>	HY-113165A
<b>CAS No.:</b>	6920-31-6
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>22</sub> ClNO <sub>4</sub>
<b>Molecular Weight:</b>	267.75
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 250 mg/mL (933.71 mM; Need ultrasonic)  
DMSO : 30 mg/mL (112.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7348 mL	18.6741 mL	37.3483 mL
	5 mM	0.7470 mL	3.7348 mL	7.4697 mL
	10 mM	0.3735 mL	1.8674 mL	3.7348 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (373.48 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (7.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (7.77 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Isobutyryl-L-carnitine chloride is a product of the acyl-CoA dehydrogenases<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

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## REFERENCES

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[1]. Cao C, et, al. Metabonomic analysis of toxic action of long-term low-level exposure to acrylamide in rat serum. Hum Exp Toxicol. 2018 Dec; 37(12): 1282-1292.

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

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