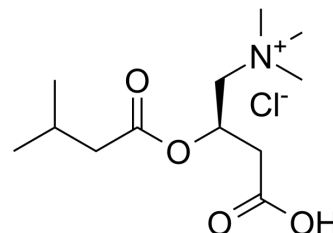


Isovalerylcarnitine chloride

Cat. No.:	HY-145542
CAS No.:	139144-12-0
Molecular Formula:	C ₁₂ H ₂₄ ClNO ₄
Molecular Weight:	281.78
Target:	Endogenous Metabolite; Proteasome
Pathway:	Metabolic Enzyme/Protease
Storage:	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

DMSO : ≥ 100 mg/mL (354.89 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	<div>Solvent</div> <div>Concentration</div>	Mass	1 mg	5 mg	10 mg
	1 mM		3.5489 mL	17.7443 mL	35.4887 mL
	5 mM		0.7098 mL	3.5489 mL	7.0977 mL
	10 mM		0.3549 mL	1.7744 mL	3.5489 mL
	Please refer to the solubility information to select the appropriate solvent.				

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline

Solubility: ≥ 2.5 mg/mL (8.87 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)

Solubility: ≥ 2.5 mg/mL (8.87 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil

Solubility: ≥ 2.5 mg/mL (8.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Isovalerylcarnitine chloride, a product of the catabolism of L-leucine, is a potent activator of the Ca ²⁺ -dependent proteinase (calpain) of human neutrophils ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

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

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