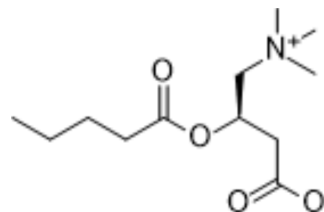


Valerylcarnitine

Cat. No.:	HY-113266	
CAS No.:	40225-14-7	
Molecular Formula:	C ₁₂ H ₂₃ NO ₄	
Molecular Weight:	245.32	
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

H₂O : 250 mg/mL (1019.08 mM; Need ultrasonic)
 DMSO : 33.33 mg/mL (135.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.0763 mL	20.3815 mL	40.7631 mL
	5 mM	0.8153 mL	4.0763 mL	8.1526 mL
	10 mM	0.4076 mL	2.0382 mL	4.0763 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 (407.63 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (10.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (10.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (10.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Valerylcarnitine is an endogenous metabolite, belonging to the short-chain acylcarnitines.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Sci Adv. 2021 Sep 10;7(37):eabi4852.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Pannkuk EL, et al. Targeted Metabolomics of Nonhuman Primate Serum after Exposure to Ionizing Radiation: Potential Tools for High-throughput Biodosimetry. RSC Adv. 2016;6(56):51192-51202.

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

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