2-Methylbutyrylcarnitine

Cat. No.:	HY-112948			
CAS No.:	256928-75-3	3		
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	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

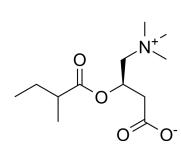
SOLVENT & SOLUBILITY

In Vitro	-	H ₂ O : 125 mg/mL (509.54 mM; ultrasonic and warming and heat to 60°C) DMSO : 100 mg/mL (407.63 mM; Need ultrasonic)						
	Solvent Mass Concentration	1 mg	5 mg	10 mg				
	Preparing Stock Solutions	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 so	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 (10.19 mM); Clear solution						
Solubility: ≥ 2.5 3. Add each solver		2. 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						
	nt one by one: 10% DMSO >> 90% corn oil mg/mL (10.19 mM); Clear solution							

BIOLOGICAL ACTIVITY

Description	2-Methylbutyrylcarnitine is a fatty acid metabolite. 2-Methylbutyrylcarnitine is found mainly in the blood and urine of
	humans and animals and is produced through the pyruvate carboxylation pathway. 2-Methylbutyrylcarnitine exhibits high
	level in the plasma of subjects with steatohepatitis (NASH) and can be used as an indicator for the diagnosis of metabolic diseases ^[1] .





Product Data Sheet

REFERENCES

[1]. Kalhan SC, et al. Plasma metabolomic profile in nonalcoholic fatty liver disease. Metabolism. 2011 Mar;60(3):404-13.

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

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