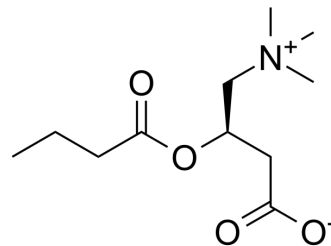


Butyrylcarnitine

Cat. No.:	HY-113168		
CAS No.:	25576-40-3		
Molecular Formula:	C ₁₁ H ₂₁ NO ₄		
Molecular Weight:	231.29		
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

H₂O : ≥ 100 mg/mL (432.36 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		4.3236 mL	21.6179 mL	43.2358 mL
	5 mM		0.8647 mL	4.3236 mL	8.6472 mL
	10 mM		0.4324 mL	2.1618 mL	4.3236 mL

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

In Vivo

1. Add each solvent one by one: PBS
 Solubility: 100 mg/mL (432.36 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Butyrylcarnitine is a metabolite in plasma, acts as a biomarker to improve the diagnosis and prognosis of heart failure, and is indicative of anomalous lipid and energy metabolism.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Cheng ML, et al. Metabolic disturbances identified in plasma are associated with outcomes in patients with heart failure: diagnostic and prognostic value of metabolomics. J Am Coll Cardiol. 2015 Apr 21;65(15):1509-20.

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

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