Product Data Sheet

Propionyl-L-carnitine

Cat. No.: HY-121705 CAS No.: 20064-19-1 Molecular Formula: C₁₀H₁₉NO₄ Molecular Weight: 217.26

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

 $H_2O: \ge 250 \text{ mg/mL} (1150.70 \text{ mM})$

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.6028 mL	23.0139 mL	46.0278 mL
	5 mM	0.9206 mL	4.6028 mL	9.2056 mL
	10 mM	0.4603 mL	2.3014 mL	4.6028 mL

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

BIOLOGICAL ACTIVITY

Description	Propionyl-L-carnitine is a carnitine derivative and has a high affinity for muscular carnitine transferase. Propionyl-L-carnitine increases cellular carnitine content, thereby allowing free fatty acid transport into the mitochondria. Propionyl-L-carnitine alleviates the symptoms of PAD through a metabolic pathway, thereby improving exercise performance ^[1] .
IC ₅₀ & Target	IC50: muscular carnitine transferase ^[1]

REFERENCES

[1]. Victor Kamoen, et al. Propionyl-L-carnitine for intermittent claudication. Cochrane Database Syst Rev. 2021 Dec 26;12(12):CD010117.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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