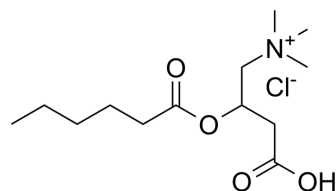


(±)-Hexanoylcarnitine chloride

Cat. No.:	HY-100978
CAS No.:	6920-35-0
Molecular Formula:	C ₁₃ H ₂₆ ClNO ₄
Molecular Weight:	295.8
Target:	Endogenous Metabolite
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

H₂O : 250 mg/mL (845.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3807 mL	16.9033 mL	33.8066 mL
	5 mM	0.6761 mL	3.3807 mL	6.7613 mL
	10 mM	0.3381 mL	1.6903 mL	3.3807 mL

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

BIOLOGICAL ACTIVITY

Description

(±)-Hexanoylcarnitine chloride is a fatty acid metabolite that breaks down fatty acids into energy that can be used by the body. (±)-Hexanoylcarnitine chloride also serves as a specific and easily detectable biomarker for rat skeletal muscle toxicity. Cerivastatin (HY-129458) and TMPD (HY-W012145) induce an increase in Hexanoylcarnitine in rats in a metabolomic analysis of the rectus femoris muscle. In type 2 diabetes, Hexanoylcarnitine is also significantly associated with and improves prediction of all-cause mortality. Hexanoylcarnitine is a biomarker for the identification of novel pathogenic pathways^{[1][2]}.

REFERENCES

- [1]. Scarale MG, et al. Circulating Metabolites Associate With and Improve the Prediction of All-Cause Mortality in Type 2 Diabetes. *Diabetes*. 2022 Jun 1;71(6):1363-1370.
- [2]. Obayashi H, et al. Plasma 2-hydroxyglutarate and hexanoylcarnitine levels are potential biomarkers for skeletal muscle toxicity in male Fischer 344 rats. *J Toxicol Sci*. 2017;42(4):385-396.

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

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