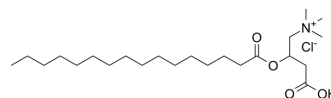


Palmitoylcarnitine chloride

Cat. No.:	HY-101017
CAS No.:	6865-14-1
Molecular Formula:	C ₂₃ H ₄₆ ClNO ₄
Molecular Weight:	436.07
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°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 : 50 mg/mL (114.66 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2932 mL	11.4660 mL	22.9321 mL
	5 mM	0.4586 mL	2.2932 mL	4.5864 mL
	10 mM	0.2293 mL	1.1466 mL	2.2932 mL

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

BIOLOGICAL ACTIVITY

Description

Palmitoylcarnitine chloride is a fatty acid-derived mitochondrial substrate, and selectively decreases cell survival in colorectal and prostate cancer cells by affecting on pro-inflammatory pathways, Ca²⁺ influx, and DHT-like effects^[1].

REFERENCES

[1]. Al-Bakheit A, et al. Accumulation of Palmitoylcarnitine and Its Effect on Pro-Inflammatory Pathways and Calcium Influx in Prostate Cancer. Prostate. 2016 Oct;76(14):1326-37.

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

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