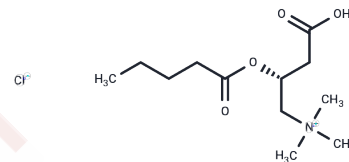


Valeryl-L-carnitine (chloride)

Chemical Properties

CAS No. :	162040-64-4
Formula:	C ₁₂ H ₂₄ ClNO ₄
Molecular Weight:	281.78
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Valeryl-L-carnitine is a short-chain acylcarnitine and a derivative of L-carnitine . Valeryl-L-carnitine levels increase in the serum of rhesus monkeys following exposure to 7 and 10 Gray units (Gy) of ionizing radiation.[1]
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 15 mg/mL (53.23 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (35.49 mM),Sonication is recommended. Ethanol: 25 mg/mL (88.72 mM),Sonication is recommended. DMSO: 20 mg/mL (70.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5489 mL	17.7443 mL	35.4887 mL
5 mM	0.7098 mL	3.5489 mL	7.0977 mL
10 mM	0.3549 mL	1.7744 mL	3.5489 mL
50 mM	0.071 mL	0.3549 mL	0.7098 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pannkuk, E.L., Laiakis, E.C., Authier, S., et al. Targeted metabolomics of nonhuman primate serum after exposure to ionizing radiation: Potential tools for high-throughput biodosimetry. RSC Adv. 6(56), 51192-51202 (2016).

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