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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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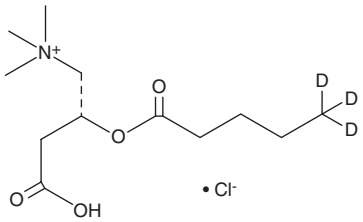
PRODUCT INFORMATION

Valeryl-L-carnitine-d_3 (chloride)

Item No. 27871

Formal Name:	(R)-3-carboxy-N,N,N-trimethyl-2-((pentanoyl-5,5,5-d_3)oxy)propan-1-aminium, monochloride
Synonym:	L-Valerylcarnitine-d_3
MF:	$C_{12}H_{21}D_3NO_4$ • Cl
FW:	284.8
Chemical Purity:	≥95% (Valeryl-L-carnitine)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Valeryl-L-carnitine-d_3 (chloride) is intended for use as an internal standard for the quantification of valeryl-L-carnitine (Item No. 26563) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Valeryl-L-carnitine-d_3 (chloride) is supplied as a solid. A stock solution may be made by dissolving the valeryl-L-carnitine-d_3 (chloride) in the solvent of choice. Valeryl-L-carnitine-d_3 (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of valeryl-L-carnitine-d_3 (chloride) in these solvents is approximately 25, 20, and 15 mg/ml, respectively.

Description

Valeryl-L-carnitine is a short-chain acylcarnitine and a derivative of L-carnitine (Item No. 21489). Valeryl-L-carnitine levels increase in the serum of rhesus monkeys following exposure to 7 and 10 Gray units (Gy) of ionizing radiation.[1]

Reference

1. 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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