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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Isovaleryl-DL-carnitine-d₃ (chloride)

Item No. 26573

Formal Name: 3-carboxy-N,N-dimethyl-N-(methyl-d₃)-2-((3-methylbutanoyl)oxy)propan-1-aminium, monochloride

Synonym: DL-Isovalerylcarnitine-d₃

MF: C₁₂H₁₅D₃NO₄ • Cl

FW: 278.7

Chemical Purity: ≥98% (Isovaleryl-DL-carnitine)

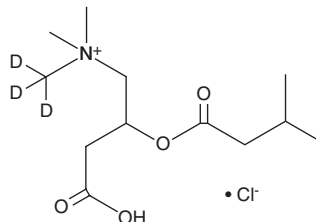
Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₃); ≤1% d₀

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

Isovaleryl-DL-carnitine-d₃ is intended for use as an internal standard for the quantification of isovaleryl-DL-carnitine 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).

Isovaleryl-DL-carnitine-d₃ (chloride) is supplied as a solid. A stock solution may be made by dissolving the isovaleryl-DL-carnitine-d₃ (chloride) in the solvent of choice. Isovaleryl-DL-carnitine-d₃ (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of isovaleryl-DL-carnitine-d₃ (chloride) in ethanol is approximately 25 mg/ml and 20 mg/ml in DMSO and DMF.

Description

Isovaleryl-DL-carnitine is a derivative of carnitine (Item No. 16749). Increased levels of isovaleryl carnitine are associated with isovaleryl-CoA dehydrogenase deficiency (isovaleric acidemia).¹

Reference

1. Rinaldo, P., Cowan, T.M., and Matern, D. Acylcarnitine profile analysis. *Genet. Med.* **10(2)**, 151-156 (2008).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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