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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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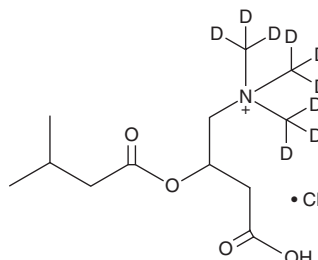
PRODUCT INFORMATION



Isovaleryl-DL-carnitine-d₉ (chloride)

Item No. 37213

CAS Registry No.: 2608872-54-2
Formal Name: 3-carboxy-N,N,N-tris(methyl-d₃)-2-((3-methylbutanoyl)oxy)propan-1-aminium, monochloride
Synonyms: CAR 5:0-d₉, C5:0 Carnitine-d₉, DL-Carnitine isovaleryl ester-d₉, DL-Isovalerylcarnitine-d₉
MF: C₁₂H₁₅D₉NO₄ • Cl
FW: 290.8
Chemical Purity: ≥98% (Isovaleryl-DL-carnitine)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₉); ≤1% d₀
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Isovaleryl-DL-carnitine-d₉ (chloride) 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-d₉ (chloride) is supplied as a solid. A stock solution may be made by dissolving the isovaleryl-DL-carnitine-d₉ (chloride) in the solvent of choice, which should be purged with an inert gas. Isovaleryl-DL-carnitine-d₉ (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of isovaleryl-DL-carnitine-d₉ (chloride) in these solvents is approximately 25, 20, and 15 mg/ml, respectively.

Description

Isovaleryl-DL-carnitine is a derivative of carnitine (Item Nos. 21489 | 16749). Increased levels of isovaleryl carnitine are associated with isovaleric acidemia, an inborn error of metabolism characterized by a deficiency in isovaleryl-CoA dehydrogenase.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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