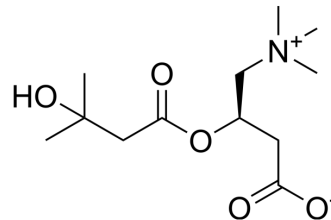


3-Hydroxyisovalerylcarnitine

Cat. No.:	HY-N11200
CAS No.:	99159-87-2
Molecular Formula:	C ₁₂ H ₂₃ NO ₅
Molecular Weight:	261.31
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description

3-Hydroxyisovalerylcarnitine is a carnitine derivative. 3-Hydroxyisovaleryl carnitine in plasma may serve as a novel biomarker of biotin deficiency in humans, with its concentration increasing with biotin deficiency. Biotin deficiency reduces the activity of biotin-dependent 3-methylcrotonyl-CoA carboxylase, hinders the conversion of 3-methylcrotonyl-CoA into 3-methylglutaconyl-CoA, and impairs the leucine catabolism pathway; resulting in plasma 3-Hydroxyisovalerylcarnitine concentrations rise^[1].

REFERENCES

[1]. Horvath TD, et al. Quantitative measurement of plasma 3-hydroxyisovaleryl carnitine by LC-MS/MS as a novel biomarker of biotin status in humans. *Anal Chem.* 2010 May 15;82(10):4140-4.

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

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