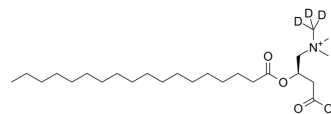


Stearoyl-L-carnitine-d3

Cat. No.:	HY-113202S
CAS No.:	1021439-31-5
Molecular Formula:	C ₂₅ H ₄₆ D ₃ NO ₄
Molecular Weight:	430.68
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Stearoyl-L-carnitine-d3 is the deuterium labeled Stearoylcarnitine. Stearoylcarnitine, a fatty ester lipid molecule, is a human endogenous metabolite. Stearoylcarnitine acts as a metabolomics biomarker for early-onset-preeclampsia and late-onset-preeclampsia ^[1] .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Maria P H Koster, et al. First-Trimester Serum Acylcarnitine Levels to Predict Preeclampsia: A Metabolomics Approach. *Dis Markers.* 2015;2015:857108.

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

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