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Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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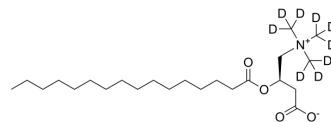
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L-Palmitoylcarnitine-d₉

Cat. No.:	HY-113147S1
CAS No.:	2847775-90-8
Molecular Formula:	C ₂₃ H ₃₆ D ₉ NO ₄
Molecular Weight:	408.66
Target:	Isotope-Labeled Compounds; Potassium Channel; Endogenous Metabolite
Pathway:	Others; Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

L-Palmitoylcarnitine-d₉ is deuterium labeled L-Palmitoylcarnitine. L-Palmitoylcarnitine, a long-chain acylcarnitine and a fatty acid metabolite, accumulates in the sarcolemma and deranges the membrane lipid environment during ischaemia. L-Palmitoylcarnitine inhibits K_{ATP} channel activity, without affecting the single channel conductance, through interaction with Kir6.2^{[1][1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Haruna T, et al. Alteration of the membrane lipid environment by L-palmitoylcarnitine modulates K(ATP) channels in guinea-pig ventricular myocytes. Pflugers Arch. 2000;441(2-3):200-207.

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

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