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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
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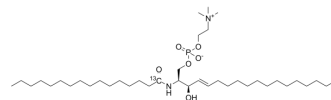
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N-Palmitoyl-D-sphingomyelin-¹³C

Cat. No.:	HY-141629S1
CAS No.:	144236-99-7
Molecular Formula:	C ₃₈ ¹³ CH ₇₉ N ₂ O ₆ P
Molecular Weight:	704.02
Target:	Endogenous Metabolite; Liposome; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Palmitoyl-D-sphingomyelin-13C is a deuterated labeled N-Palmitoyl-D-sphingomyelin ^[1] . N-Palmitoyl-D-sphingomyelin (Sphingomyelin 16:0) (Compound SM-03) can be used for the synthesis of lipid nanoparticles ^[2] .
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]. Dandan LING, et al. Lipid compounds and lipid nanoparticle compositions. Patent. WO2023056914.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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