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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Docosahexaenoic acid-$^{13}C_{22}$ methyl ester

Cat. No.: HY-101541S1

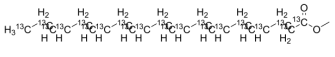
Molecular Formula: $C^{13}C_{22}H_{34}O_2$

Molecular Weight: 364.35

Target: Isotope-Labeled Compounds

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Docosahexaenoic acid-$^{13}C_{22}$ methyl ester is the $^{13}C_{22}$ labeled Docosahexaenoic acid methyl ester (HY-101541)[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]. Sharp wave (SPW) incidence relative to baseline appears to decrease following Docosahexaenoic Acid methyl ester (DHA-Me) application[2]. There is no generation of a new protein band when bovine serum albumin (BSA) is exposed to the Fe^{2+} and ascorbic acid (AsA) mixed-function oxidation system in the absence of Docosahexaenoic Acid methyl ester (DHA). However, the high-molecular-weight protein band is observed after only 24 h when BSA is incubated with DHA. Incubation of BSA with 1.0 mM DHA leads to a substantial increase in protein carbonyl content and the addition of oxygen radical scavengers leads to a substantial decrease in protein carbonyl content[3]. 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 Feb;53(2):211-241.

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