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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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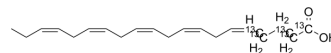
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Eicosapentaenoic acid 1,2,3,4,5-¹³C₅

Cat. No.:	HY-B0660S1
Molecular Formula:	C ₁₅ ¹³ C ₅ H ₃₀ O ₂
Molecular Weight:	307.41
Target:	Isotope-Labeled Compounds; Endogenous Metabolite; Histone Demethylase
Pathway:	Others; Metabolic Enzyme/Protease; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Eicosapentaenoic acid 1,2,3,4,5-¹³C₅ (EPA 1,2,3,4,5-¹³C, FA 20:5-¹³C₅) is ¹³C labeled Eicosapentaenoic Acid. Eicosapentaenoic Acid (EPA) is an orally active Omega-3 long-chain polyunsaturated fatty acid (ω-3 LC-PUFA). Eicosapentaenoic Acid exhibits a DNA demethylating action that promotes the re-expression of the tumor suppressor gene CCAAT/enhancer-binding protein δ (C/EBPδ). Eicosapentaenoic Acid activates RAS/ERK/C/EBPβ pathway through H-Ras intron 1 CpG island demethylation in U937 leukemia cells. Eicosapentaenoic Acid can promote relaxation of vascular smooth muscle cells and vasodilation^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Miaozen Pan, et al. Dietary ω-3 polyunsaturated fatty acids are protective for myopia. Proc Natl Acad Sci U S A. 2021 Oct 26;118(43):e2104689118.
- [3]. Martins, J.G., EPA but not DHA appears to be responsible for the efficacy of omega-3 long chain polyunsaturated fatty acid supplementation in depression: evidence from a meta-analysis of randomized controlled trials. J Am Coll Nutr, 2009. 28(5): p. 525-42.
- [4]. Shun-he Wang, et al. Endogenous omega-3 long-chain fatty acid biosynthesis from alpha-linolenic acid is affected by substrate levels, gene expression, and product inhibition. RSC Adv., 2017, 7, 40946-40951.

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

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