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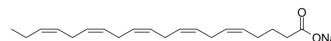
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Eicosapentaenoic Acid sodium

Cat. No.:	HY-W011269
CAS No.:	73167-03-0
Molecular Formula:	C ₂₀ H ₂₉ NaO ₂
Molecular Weight:	324.43
Target:	Endogenous Metabolite; Histone Demethylase
Pathway:	Metabolic Enzyme/Protease; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Eicosapentaenoic Acid (EPA)sodium is an orally active Omega-3 long-chain polyunsaturated fatty acid (ω -3 LC-PUFA). Eicosapentaenoic Acid sodium exhibits a DNA demethylating action that promotes the re-expression of the tumor suppressor gene CCAAT/enhancer-binding protein δ (C/EBP δ). Eicosapentaenoic Acid sodium activates RAS/ERK/C/EBP β pathway through H-Ras intron 1 CpG island demethylation in U937 leukemia cells. Eicosapentaenoic Acid sodium can promote relaxation of vascular smooth muscle cells and vasodilation ^{[1][2][3]} .
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	C/EBP β phosphorylated form is evident in Eicosapentaenoic Acid (EPA; 100 μ M; 24 h) sodium treated cells, whereas it was barely detectable in control, and OA or LA treated U937 ^[1] . Eicosapentaenoic Acid (100 μ M; 1, 3, 24 h) sodium causes a significant increase of H-Ras and N-Ras mRNA levels conditioning for 1 and 3 hours. K-Ras mRNA levels were not affected by Eicosapentaenoic Acid sodium ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2021 Oct 26;118(43):e2104689118.
- Haematologica. 2021 Feb 4.
- Fish Shellfish Immunol. 2019 Nov;94:199-210.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Veronica Ceccarelli, et al. Eicosapentaenoic acid activates RAS/ERK/C/EBP β pathway through H-Ras intron 1 CpG island demethylation in U937 leukemia cells. PLoS One. 2014 Jan 13;9(1):e85025.
- [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]. 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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