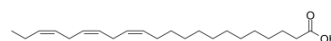


Docosatrienoic Acid

Cat. No.:	HY-101408
CAS No.:	28845-86-5
Molecular Formula:	C ₂₂ H ₃₈ O ₂
Molecular Weight:	334.54
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Solution, -20°C, 2 years



SOLVENT & SOLUBILITY

In Vitro	Ethanol : 100 mg/mL (298.92 mM; Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Docosatrienoic acid is a rare ω-3 fatty acid; inhibits LTB ₄ binding to pig neutrophil membranes with an K _i of 5 μM.
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Docosatrienoic acid inhibits LTB ₄ binding to pig neutrophil membranes with an K _i of 5 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Application of docosatrienic acid dose-dependently decreases the peak K ⁺ current amplitude and accelerates the potassium activation and inactivation kinetics at all rat membrane potentials ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Yagaloff KA, et al. Essential fatty acids are antagonists of the leukotriene B₄ receptor. Prostaglandins Leukot Essent Fatty Acids. 1995 May;52(5):293-7.
- [2]. Krutetskaia ZI, et al. The effect of docosatrienoic acid on the potassium channels of outward rectification in the membrane of rat peritoneal macrophages. Fiziol Zh Im I M Sechenova. 1995 Jul;81(7):111-9.

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

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