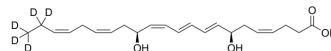


Maresin 1-d₅

Cat. No.:	HY-116429S
Molecular Formula:	C ₂₂ H ₂₇ D ₅ O ₄
Molecular Weight:	365.52
Target:	Reactive Oxygen Species; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Maresin 1-d₅ is the deuterium labeled Maresin 1. Maresin 1, produced by human Mφs from endogenous docosahexaenoic acid (DHA) and a specialized proresolving mediator, stimulates intracellular [Ca²⁺] and secretion. Maresin 1 possesses anti-inflammatory activity[1][2][3].

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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Markus V Olsen, et al. Maresin 1, a Specialized Proresolving Mediator, Stimulates Intracellular [Ca²⁺] and Secretion in Conjunctival Goblet Cells. *J Cell Physiol.* 2020 Jun 8.
- [3]. Macrophage Proresolving Mediator Maresin 1 Stimulates Tissue Regeneration and Controls Pain
- [4]. Rodrigo Marcon, et al. Maresin 1, a Proresolving Lipid Mediator Derived From omega-3 Polyunsaturated Fatty Acids, Exerts Protective Actions in Murine Models of Colitis. *J Immunol.* 2013 Oct 15;191(8):4288-98.

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

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