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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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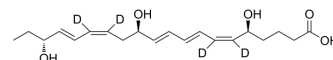
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Resolvin E1-d₄

Cat. No.:	HY-114041S
Molecular Formula:	C ₂₀ H ₂₆ D ₄ O ₅
Molecular Weight:	354.47
Target:	Isotope-Labeled Compounds; Endogenous Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Resolvin E1-d₄ (RvE1-d₄) is deuterium labeled Resolvin E1. Resolvin E1 (RvE1), a potent endogenous pro-resolving mediator of inflammation, is derived from omega-3 fatty acid eicosapentaenoic acid (EPA). Resolvin E1 is endogenously biosynthesized from EPA in the presence of Aspirin during the spontaneous resolution phase of acute inflammation, where specific cell-cell interactions occur. Resolvin E1 possesses unique counterregulatory actions that inhibit polymorphonuclear leukocyte (PMN) transendothelial migration. Resolvin E1 also acts as a potent inhibitor of leukocyte infiltration, dendritic cell migration, and IL-12 production^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Arita M, et al. Resolvin E1, an endogenous lipid mediator derived from omega-3 eicosapentaenoic acid, protects against 2,4,6-trinitrobenzene sulfonic acid-induced colitis. *Proc Natl Acad Sci U S A*. 2005 May 24;102(21):7671-6.
- [3]. Schwab JM, et al. Resolvin E1 and protectin D1 activate inflammation-resolution programmes. *Nature*. 2007 Jun 14;447(7146):869-74.
- [4]. Hasturk H, et al. Resolvin E1 regulates inflammation at the cellular and tissue level and restores tissue homeostasis in vivo. *J Immunol*. 2007 Nov 15;179(10):7021-9.

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

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