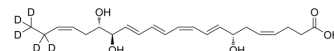


Resolvin D2-d₅

Cat. No.:	HY-121636S
CAS No.:	1881277-33-3
Molecular Formula:	C ₂₂ H ₂₇ D ₅ O ₅
Molecular Weight:	381.52
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Resolvin D2-d ₅ is the deuterium labeled Resolvin D2. Resolvin D2 is a metabolite of docosahexaenoic acid (DHA), with anti-inflammatory, anti-infective activities. Resolvin D2 is a potent regulator of leukocytes and controls microbial sepsis. Resolvin D2 is a remarkably potent inhibitor of TRPV1 (IC ₅₀ = 0.1 nM) and TRPA1 (IC ₅₀ = 2 nM) in primary sensory neurons[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]. Siddiqui YD, et al. Resolvin D2 Induces Resolution of Periapical Inflammation and Promotes Healing of Periapical Lesions in Rat Periapical Periodontitis. *Front Immunol*. 2019 Feb 26;10:307.
- [3]. Spite M, et al. Resolvin D2 is a potent regulator of leukocytes and controls microbial sepsis. *Nature*. 2009 Oct 29;461(7268):1287-91.
- [4]. Park CK, et al. Resolvin D2 is a potent endogenous inhibitor for transient receptor potential subtype V1/A1, inflammatory pain, and spinal cord synaptic plasticity in mice: distinct roles of resolvin D1, D2, and E1.6. *J Neurosci*. 2011 Dec 14;31(50):18433-8.

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

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