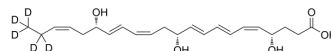


Resolvin D3-d₅

Cat. No.:	HY-136540S
Molecular Formula:	C ₂₂ H ₂₇ D ₅ O ₅
Molecular Weight:	381.52
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Resolvin D3-d ₅ is the deuterium labeled Resolvin D3. Resolvin D3 (RvD3) is a docosahexaenoic acid (DHA) derived mediator. Resolvin D3 is dysregulated in arthritis and reduces arthritic inflammation[1][2].
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]. Hildur H Arnardottir, et al. Resolvin D3 Is Dysregulated in Arthritis and Reduces Arthritic Inflammation. *J Immunol*. 2016 Sep 15;197(6):2362-8.
- [3]. Jennifer K Colby, et al. Resolvin D3 and Aspirin-Triggered Resolvin D3 Are Protective for Injured Epithelia. *Am J Pathol*. 2016 Jul;186(7):1801-1813.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA