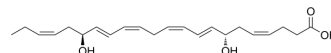


## Resolvin D5

Cat. No.:	HY-145491
CAS No.:	578008-43-2
Molecular Formula:	C <sub>22</sub> H <sub>32</sub> O <sub>4</sub>
Molecular Weight:	360.49
Target:	ERK; NF-κB
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Resolvin D5 is a prolytic mediator (SPM) with anti-inflammatory activity derived from oxidized lipids DHA. Resolvin D5 inhibits Th17 cell differentiation and promotes regulatory T cell differentiation, and inhibits CD4+ T cell proliferation. Resolvin D5 attenuates osteoclast differentiation and interferes with osteoclastogenesis. Resolvin D5 also regulates ERK phosphorylation and nuclear translocation of NF-kappaB. Resolvin D5 could be used in rheumatoid arthritis research<sup>[1][2]</sup>.

### REFERENCES

- [1]. Yamada H, et al. Effect of resolvin D5 on T cell differentiation and osteoclastogenesis analyzed by lipid mediator profiling in the experimental arthritis. *Sci Rep.* 2021 Aug 27;11(1):17312.
- [2]. Chun HW, et al. Resolvin D5, a Lipid Mediator, Inhibits Production of Interleukin-6 and CCL5 Via the ERK-NF-κB Signaling Pathway in Lipopolysaccharide-Stimulated THP-1 Cells. *J Microbiol Biotechnol.* 2020 Jan 28;30(1):85-92.

**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