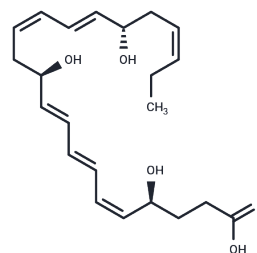


Resolvin D3

Chemical Properties

CAS No. :	916888-47-6
Formula:	C ₂₂ H ₃₂ O ₅
Molecular Weight:	376.493
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Resolvin D3 (RvD3), originating from docosahexaenoic acid (DHA), is a dysregulated mediator that plays a crucial role in reducing arthritic inflammation.
Targets(IC50)	Others,AMPK,Autophagy
In vitro	RvD3 (RvD3; 10 nM) effectively suppresses the activation of NF-κB induced by tumor necrosis factor-α in A549 epithelial cells[2].
In vivo	Resolvin D3 (RvD3; 100 ng/100 μl; IP; daily for 6 days) effectively mitigates arthritis progression, reduces edema, and curtails leukocyte accumulation in murine K/BxN-serum induced arthritis in both male C57Bl/6 mice (12 weeks old) and ALX/fpr2/3 KO mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6561 mL	13.2806 mL	26.5611 mL
5 mM	0.5312 mL	2.6561 mL	5.3122 mL
10 mM	0.2656 mL	1.3281 mL	2.6561 mL
50 mM	0.0531 mL	0.2656 mL	0.5312 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Hildur H Arnardottir, et al. Resolvin D3 Is Dysregulated in Arthritis and Reduces Arthritic Inflammation. J Immunol. 2016 Sep 15;197(6):2362-8.
- 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.

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