

Resolvin D1

Chemical Properties

CAS No. : 872993-05-0

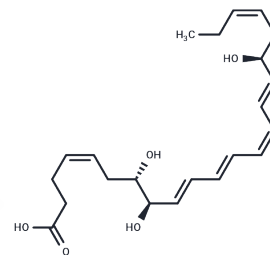
Formula: C₂₂H₃₂O₅

Molecular Weight: 376.49

Store at low temperature

Storage: Pure form: -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 D1 (RvD1) is an endogenous pro-inflammatory mediator that blocks pro-inflammatory neutrophil migration by regulating actin polymerization, reduces TNF- α -mediated inflammation in macrophages, and enhances macrophage phagocytosis of apoptotic cells.
Targets(IC50)	Apoptosis, Endogenous Metabolite
In vivo	In 30 eight-week-old female DBA/1J mice (18-20 g) with collagen antibody-induced arthritis (CAIA), Resolvin D1 (100, 500, and 1000 nanograms; intraperitoneal injection; daily) exhibited reduced arthritis scores[3].

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

Schmid M, et al. Resolvin D1 Polarizes Primary Human Macrophages toward a Proresolution Phenotype through GPR32. *J Immunol.* 2016 Apr 15;196(8):3429-37.

Gao Y, et al. Resolvin D1 Improves the Resolution of Inflammation via Activating NF- κ B p50/p50-Mediated Cyclooxygenase-2 Expression in Acute Respiratory Distress Syndrome. *J Immunol.* 2017 Aug 9. pii: ji1700315.

Benabdoun HA, et al. In vitro and in vivo assessment of the proresolutive and antiresorptive actions of resolvin D1: relevance to arthritis. *Arthritis Res Ther.* 2019 Mar 12;21(1):72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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