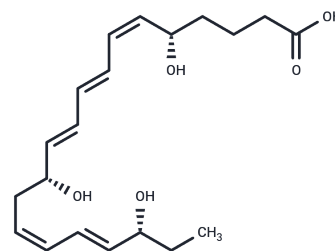


Resolvin E1

Chemical Properties

CAS No. :	552830-51-0
Formula:	C ₂₀ H ₃₀ O ₅
Molecular Weight:	350.45
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Resolvin E1 is an effective endogenous pro-resolving mediator of inflammation. Resolvin E1 has unique counterregulatory actions that inhibit PMN transendothelial migration. Resolvin E1 also acts as an effective inhibitor of leukocyte infiltration, dendritic cell migration, and IL-12 production.
Targets(IC ₅₀)	Others
In vitro	Resolvin E1 specifically interacts with the LTB ₄ receptor BLT1 on neutrophils and ChemR23 on monocytes to regulate leukocytes during inflammation. Resolvin E1 also stimulates the uptake and clearance of local cytokine. Resolvin E1 (0.1-100 nM) gives concentration-dependent inhibition of TNF- α -induced NF- κ B activation (EC ₅₀ : ~ 1.0 nM in ChemR23-transfected cells). Resolvin E1 (100 nM) enhances phosphorylation of ERK mitogen-activated protein (MAP) kinase both in peripheral blood monocytes and HEK-ChemR23 cells [2][3].
In vivo	Resolvin E1 (1.0 μ g per mouse; 50 μ g/kg; i.p.; on days -8, -1, and 0) protects mice from TNBS colitis[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8535 mL	14.2674 mL	28.5347 mL
5 mM	0.5707 mL	2.8535 mL	5.7069 mL
10 mM	0.2853 mL	1.4267 mL	2.8535 mL
50 mM	0.0571 mL	0.2853 mL	0.5707 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.

Reference

Arita M, et al. Resolvin E1, an endogenous lipid mediator derived from omega-3 eicosapentaenoic acid, protects against 2,4,6-trinitrobenzene sulfonic acid-induced colitis. Proc Natl Acad Sci U S A. 2005 May 24;102(21):7671-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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