

MCTR1

Chemical Properties

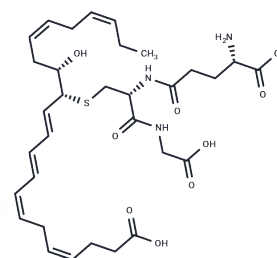
CAS No. : 1784701-61-6

Formula: C32H47N3O9S

Molecular Weight: 649.8

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	Maresin conjugates in tissue regeneration 1 (MCTR1) is a specialized pro-resolving mediator (SPM) synthesized from docosahexaenoic acid in macrophages at the site of inflammation. DHA is oxidized to maresin 1, which is then converted to MCTR1 by glutathione S-transferase Mu 4 or leukotriene C4 synthase. MCTR1 accelerates tissue regeneration in planaria (1 and 100 nM). Pretreatment with MCTR1 (50 ng/mouse, i.p.) prior to E. coli administration reduces neutrophil infiltration, shortens the inflammatory resolution period, and increases phagocytosis of E. coli by macrophages. When administered at a dose of 100 ng 12h post E. coli infection in a mouse model of peritonitis, MCTR1 reduces the amount of eicosanoids in the exudate.
Targets(IC50)	Others,Leukotriene Receptor

Solubility Information

Solubility	PBS (pH 7.2): 100 µg/mL,Sonication is recommended. Ethanol: 1 mg/mL (1.54 mM),Sonication is recommended. DMF: 50 mg/mL (76.95 mM),Sonication is recommended. DMSO: 50 mg/mL (76.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5389 mL	7.6947 mL	15.3894 mL
5 mM	0.3078 mL	1.5389 mL	3.0779 mL
10 mM	0.1539 mL	0.7695 mL	1.5389 mL
50 mM	0.0308 mL	0.1539 mL	0.3078 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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