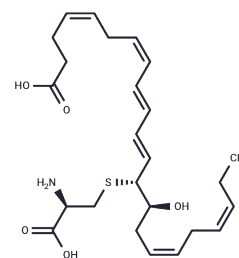


MCTR3

Chemical Properties

CAS No. :	1784701-63-8
Formula:	C ₂₅ H ₃₇ NO ₅ S
Molecular Weight:	463.63
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 3 (MCTR3) is a specialized pro-resolving mediator (SPM) synthesized from docosahexaenoic acid in macrophages. DHA is oxidized to maresin 1, which is converted to MCTR1 by glutathione S-transferase Mu 4 or leukotriene C4 synthase, then to MCTR2 by γ -glutamyl transferase, and to MCTR3 by dipeptidase. MCTR3 accelerates tissue regeneration in planaria (1 and 100 nM) approximately as potently as MCTR2 and more potently than MCTR1. Pretreatment with MCTR3 prior to E. coli administration in mice 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, MCTR3 selectively reduces the amount of the eicosanoids PGD ₂ , PGE ₂ , PGF ₂ α , and TXB ₂ in the exudate.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	PBS (pH 7.2): 0.1 mg/mL (0.22 mM),Sonication is recommended. DMF: 50 mg/mL (107.84 mM),Sonication is recommended. Ethanol: 1 mg/mL (2.16 mM),Sonication is recommended. Ethanol:H ₂ O (95:5): 2 mg/mL (4.31 mM),Sonication is recommended. DMSO: 50 mg/mL (107.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1569 mL	10.7845 mL	21.5689 mL
5 mM	0.4314 mL	2.1569 mL	4.3138 mL
10 mM	0.2157 mL	1.0784 mL	2.1569 mL
50 mM	0.0431 mL	0.2157 mL	0.4314 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481