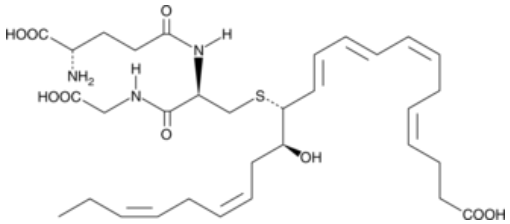
Product Data Sheet

Product Name: MCTR1
Cat. No.: GC44138

Chemical Properties

Cas. No.	1784701-61-6		
SMILES	O[C@@H](C/C=C\C/C=C\CC)[C@H](SC[C@H](NC(CC[C@H](N)C(O)=O)=O)C(NCC(O)=O)=O)/C=C/C=C/C=C\C/C=C\CCC(O)=O		
Formula	C32H47N3O9S	M.Wt	649.8
Solubility	DMF: 50 mg/ml,DMSO: 50 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 100µ g/ml	Storage	Store at -80°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA