

Product Data Sheet

Product Name: MCTR2
Cat. No.: GC44139

Chemical Properties

Cas. No. 1784701-62-7

SMILES O[C@@H](C/C=C\C/C=C\CC)[C@H](SC[C@H](N)C(NCC(O)=O)=O)/C=C/C=C/C=C\C/C=C\CCC(O)=O

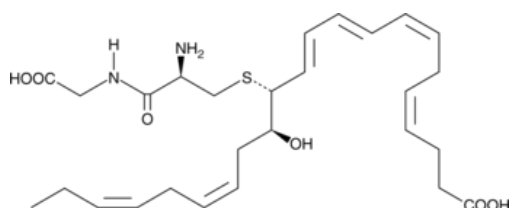
Formula C₂₇H₄₀N₂O₆S M.Wt 520.7

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 1 mg/ml, Ethanol:Water (95:5): 2 mg/ml, PBS (pH 7.2): 100 µg/ml
Storage Store at -20°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 2 (MCTR2) 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 converted to MCTR1 by glutathione S-transferase Mu 4 or leukotriene C4 synthase then to MCTR2 by γ-glutamyl transferase. MCTR2 accelerates tissue regeneration in planaria (1 and 100 nM). Pretreatment with MCTR2 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, MCTR2 selectively reduced the amount of the eicosanoids PGD₂ and PGF₂α 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

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