

## MCTR2

## Chemical Properties

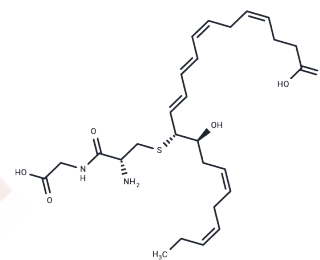
CAS No. : 1784701-62-7

Formula: C<sub>27</sub>H<sub>40</sub>N<sub>2</sub>O<sub>6</sub>S

Molecular Weight: 520.68

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 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 $\gamma$ -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 PGD <sub>2</sub> and PGF <sub>2</sub> $\alpha$ in the exudate.
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol:H <sub>2</sub> O (95:5): 2 mg/mL (3.84 mM),Sonication is recommended. Ethanol: 1 mg/mL (1.92 mM),Sonication is recommended. DMF: 50 mg/mL (96.03 mM),Sonication is recommended. PBS (pH 7.2): 100 $\mu$ g/mL,Sonication is recommended. DMSO: 50 mg/mL (96.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9206 mL	9.6028 mL	19.2057 mL
5 mM	0.3841 mL	1.9206 mL	3.8411 mL
10 mM	0.1921 mL	0.9603 mL	1.9206 mL
50 mM	0.0384 mL	0.1921 mL	0.3841 mL

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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.

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