

Product Data Sheet

Product Name: PCTR1
Cat. No.: GC44579

Chemical Properties

Cas. No. 1810710-59-8

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

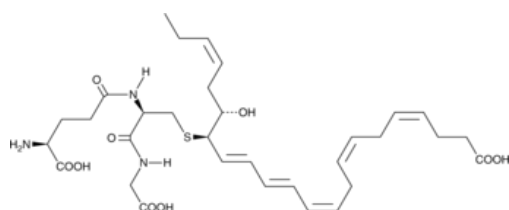
Formula C32H47N3O9S M.Wt 649.8

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 1 mg/ml, Ethanol/H₂O (95:5): 2 mg/ml, PBS (pH 7.2): 0.1 mg/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 sizes: ship with RT, or blue ice upon request.

Structure



Background

Protectin conjugates in tissue regeneration 1 (PCTR1) is a specialized pro-resolving mediator (SPM) synthesized from docosa-hexaenoic acid. DHA is oxidized to 16S,17S-epoxy-protectin, which is then converted to PCTR1 by glutathione S-transferase. PCTR1 levels increase during resolution of acute microbial-induced peritonitis in mice. PCTR1 (30 ng, i.p.) administration 12 hours post-infection increases macrophage numbers and activity and shortens the resolution phase of inflammation by 57%. It also reduces the levels of PGE₂, PGD₂, and TXB₂ in peritoneal exudates.

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