

Product Data Sheet

Product Name: 14(S)-HDHA

Cat. No.: GC41206

Chemical Properties

Cas. No. 119433-37-3

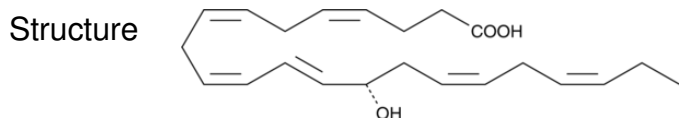
SMILES CC/C=C\C/C=C\C[C@H](O)/C=C/C=C\C/C=C\C/C=C\C/C=C\CCC(O)=O

Formula C22H32O3 M.Wt 344.5

Solubility 0.1 M Na2CO3: 2 mg/ml, DMF: Storage Store at -20°C
Miscible, DMSO: Miscible, Ethanol:
Miscible, PBS (pH 7.2): 0.5 mg/ml

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.



Background

Docosahexaenoic acid is a nutritionally-derived ω -3 fatty acid that is abundant in the brain and the retina and is thought to be important in early development and for therapeutic approaches to inflammatory disorders and cancer. 14(S)-HDHA is an oxygenation product of DHA that serves as a precursor to maresin 1, an anti-inflammatory, pro-resolving mediator that prevents polymorphonuclear neutrophil (PMN) infiltration and stimulates macrophage phagocytosis. At doses as low as 0.2 ng/mouse 14(S)-HDHA administration resulted in reduced infiltration of PMNs into sites of inflammation.

Caution: Product has not been fully validated for medical applications. For research use only.

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