

Product Data Sheet

Product Name: (±)5(6)-DiHETE lactone

Cat. No.: GC40363

Chemical Properties

Cas. No.

SMILES CC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\C[C@@H](O)[C@@H]1CCCC(O1)=O

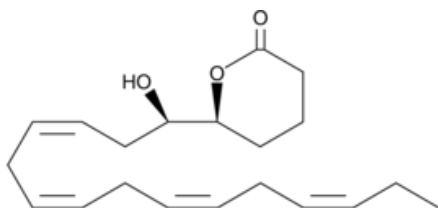
Formula C₂₀H₃₀O₃ M.Wt 318.5

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 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 size: ship with RT, or blue ice upon request.

Structure



NOTE: Relative stereochemistry shown in chemical structure

Background

Eicosapentaenoic acid is metabolized, in part, through cytochrome P450-catalyzed epoxidation followed by conversion to the vicinal diols by epoxide hydrolases. (±)5(6)-DiHETE is a possible metabolite produced from EPA following epoxidation of the α-5 double bond. (±)5(6)-DiHETE lactone is a 1,5 cyclic ester derived from (±)5(6)-DiHETE. While its biological activity is unknown, the selective capacity of (±)5(6)-DiHETE to form this lactone can be utilized to specifically quantify (±)5(6)-DiHETE in biological samples.

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

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