

Product Data Sheet

Product Name: 12(S)-HHTrE

Cat. No.: GC41883

Chemical Properties

Cas. No. 54397-84-1

SMILES CCCCC[C@H](O)/C=C/C=C/C/C=C\CCCC(O)=O

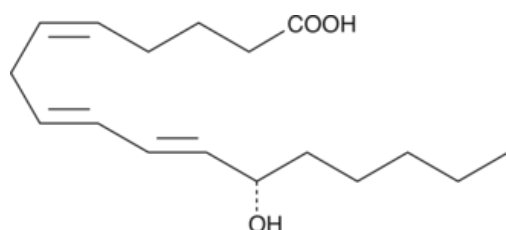
Formula $C_{17}H_{28}O_3$ M.Wt 280.4

Solubility 0.1 M Na_2CO_3 : 2 mg/ml, DMF: Storage Store at $-20^{\circ}C$
Miscible, DMSO: Miscible, Ethanol:
Miscible, PBS pH 7.2: 0.8 mg/ml

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

12(S)-HHTrE is a product of the cyclooxygenase (COX) pathway and one of the primary arachidonic acid metabolites of human platelets. It is biosynthesized by thromboxane (TXA₂) synthase from prostaglandin H₂ (PGH₂) concurrently with TXA₂. 12(S)-HHTrE is a natural lipid agonist of the leukotriene B₂ receptor BLT₂ in vivo that induces chemotaxis of mast cells and accelerates wound closure. 12(S)-HHTrE is avidly oxidized to 12-oxoHTrE by porcine 15-hydroxy PGDH.

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

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