

Product Data Sheet

Product Name: (±)12-HETE

Cat. No.: GC40429

Chemical Properties

Cas. No. 71030-37-0

Chemical Name (±)12-hydroxy-5Z,8Z,10E,14Z-eicosatetraenoic acid

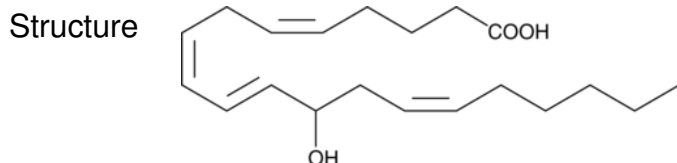
SMILES CCCCC/C=C\CC(O)/C=C/C=C\C/C=C\CCCC(O)=O

Formula $C_{20}H_{32}O_3$ M.Wt 320.5

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.



Background

(±)12-HETE is one of the six monohydroxy fatty acids produced by the non-enzymatic oxidation of arachidonic acid. The biological activity of (±)12-HETE is similar to that of its constituent enantiomers. It aggregates neutrophils with an EC_{50} value of 40 nM.[1]

Reference:

[1]. O'Flaherty, J.T., Thomas, M.J., Lees, C.J., et al. Neutrophil-aggregating activity of monohydroxyeicosatetraenoic acids. American Journal of Pathology 104, 55-62 (1981).

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

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