

Product Data Sheet

Product Name: (±)9-HODE

Cat. No.: GC40541

Chemical Properties

Cas. No. 98524-19-7

Chemical Name (±)-9-hydroxy-10E,12Z-octadecadienoic acid

SMILES CCCCC/C=C\C=C/C(O)CCCCCCCC(=O)O

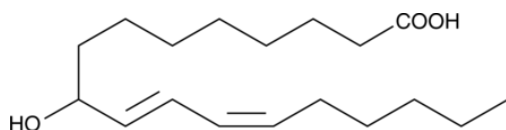
Formula C₁₈H₃₂O₃ M.Wt 296.5

Solubility 50mg/mL in DMSO or in DMF Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips 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



Background

(±)9-HODE is one of the two racemic monohydroxy fatty acids resulting from the non-enzymatic oxidation of linoleic acid. Approximately equal proportions of both isomers are found in mitochondrial and plasma membranes of rabbit reticulocytes. [1][2] Oxidized LDL contains significant amounts of esterified 9- and 13-HpODEs and HODEs. [3][4]

Reference:

- [1]. Kühn, H., Belkner, J., and Wiesner, R. Subcellular distribution of lipoxygenase products in rabbit reticulocyte membranes. *Eur. J. Biochem.* 191(1), 221-227 (1990).
- [2]. Kühn, H., Belkner, J., and Wiesner, R. Metabolism of polyenoic fatty acids by rabbit reticulocytes. Intracellular action of the erythroid lipoxygenase on membrane lipids. *Biomedica Biochimica Acta* 49, S25-S30 (1990).
- [3]. Folcik, V.A., and Cathcart, M.K. Predominance of esterified hydroperoxy-linoleic acid in human monocyte-oxidized LDL. *Journal of Lipid Research* 35, 1570-1582 (1994).

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

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[4]. Ku, G., Thomas, C.E., Akeson, A.L., et al. Induction of interleukin 1 β expression from human peripheral blood monocyte-derived macrophages by 9-hydroxyoctadecadienoic acid. J. Biol. Chem. 267(20), 14183-14188 (1992).

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