

Product Data Sheet

Product Name: 9(S)-HODE

Cat. No.: GC19460

Chemical Properties

Cas. No. 73543-67-6

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

Formula $C_{18}H_{32}O_3$ M.Wt 296.5

Solubility DMF: >50 mg/ml (per Rao Maddipati), DMSO: >50 mg/ml (per Rao Maddipati), Ethanol: >50 mg/ml (per Rao Maddipati), PBS pH 7.2: >1 mg/ml (from 13(S)-HODE)

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



Background

9(S)-HODE is produced by the lipoxygenation of linoleic acid in both plants and animals.[1],[2] It has been detected in atherosclerotic plaques, as an esterified component of membrane phospholipids and in oxidized LDL particles.[3]

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Reference:

- [1]. Gardner, H.W. Soybean lipoxygenase-1 enzymically forms both (9S)- and (13S)-hydroperoxides from linoleic acid by a pH-dependent mechanism Biochim. Biophys. Acta 1001(3), 274-281 (1989).
- [2]. Kühn, H., Belkner, J., and Wiesner, R. Subcellular distribution of lipoxygenase products in rabbit reticulocyte membranes Eur. J. Biochem. 191(1), 221-227 (1990).
- [3]. 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).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA