

Product Data Sheet

Product Name: 13(S)-HODE

Cat. No.: GC19463

Chemical Properties

Cas. No. 29623-28-7

Chemical Name 13S-hydroxy-9Z,11E-octadecadienoic acid

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

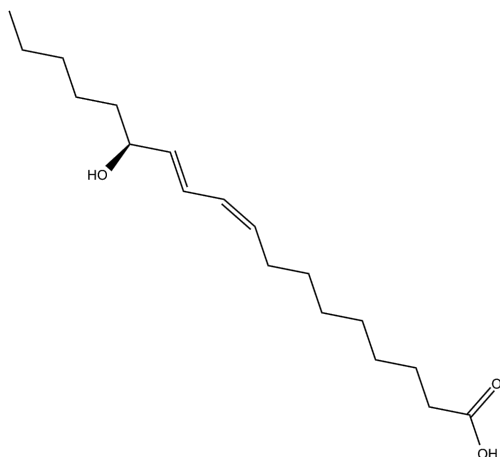
Formula $C_{18}H_{32}O_3$ M.Wt 296.5

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
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

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

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13(S)-HODE is produced by incubation of linoleic acid with plant and mammalian lipoxygenases. It has been shown to inhibit the adhesion of tumor cells to the endothelium at concentrations around 1 μ M,[1],[2] and down regulates the expression of the IRGpIIb/IIIa receptor.[3]

References:

- [1]. Buchanan, M.R., Haas, T.A., Lagarde, M., et al. 13-Hydroxyoctadecadienoic acid is the vessel wall chemorepellant factor, LOX The Journal of Biological Chemistry 260, 16056-16059 (1985).
- [2]. Honn, K.V., Nelson, K.K., Renaud, C., et al. Fatty acid modulation of tumor cell adhesion to microvessel endothelium and experimental metastasis Prostaglandins 44(5), 413-429 (1992).
- [3]. Grossi, I.M., Fitzgerald, L.A., Umbarger, L.A., et al. Bidirectional control of membrane expression and/or activation of the tumor cell IRGpIIb/IIIa receptor and tumor cell adhesion by lipoxygenase products of arachidonic acid and linoleic acid Cancer Res. 49(4), 1029-1037 (1989).

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