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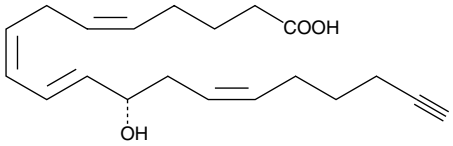
Product Information

12(S)-HETE-19,20-alkyne

Item No. 9001937

Formal Name: (S,5Z,8Z,10E,14Z)-12-hydroxyicosa-5,8,10,14-tetraen-19-ynoic acid
Synonym: Click Tag™ 12(S)-HETE-19,20-alkyne
MF: $C_{20}H_{28}O_3$
FW: 316.4
Purity: ≥97%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 236 nm



Laboratory Procedures

For long term storage, we suggest that 12(S)-HETE-19,20-alkyne be stored as supplied at -20°C. It should be stable for at least one year.

12(S)-HETE-19,20-alkyne is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. 12(S)-HETE-19,20-alkyne is miscible in these solvents.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 12(S)-HETE-19,20-alkyne is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 12(S)-HETE-19,20-alkyne in PBS, pH 7.2, is approximately 0.5 mg/ml. For greater aqueous solubility, 12(S)-HETE-19,20-alkyne can be directly dissolved in 0.1 M Na_2CO_3 (solubility of 2 mg/ml) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

12(S)-HETE (Item No. 34570) is the predominant lipoxygenase product of mammalian platelets.[1] It enhances tumor cell adhesion to endothelial cells, fibronectin, and the subendothelial matrix at 0.1 µM.[2,3] 12(S)-HETE-19,20-alkyne is a form of 12(S)-HETE with an ω-terminal alkyne. The terminal alkyne group can be used in click chemistry linking reactions, to tag 12(S)-HETE with fluorescent or biotinylated labels for analysis of its metabolism and biological activity.[4,5]

References

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2. 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**, 1029-1037 (1989).
3. 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**, 413-429 (1992).
4. Kolb, H.C. and Sharpless, K.B. The growing impact of click chemistry on drug discovery. *Drug Discov. Today* **8(24)**, 1128-1137 (2003).
5. Lutz, J.-F. and Zarafshani, Z. Efficient construction of therapeutics, bioconjugates, biomaterials and bioactive surfaces using azide-alkyne "click" chemistry. *Adv. Drug Deliv. Rev.* **60**, 958-970 (2008).

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