

Product Data Sheet

Product Name: 9(S)-HETE-d8

Cat. No.: GC46754

Chemical Properties

Cas. No. 107656-13-3

SMILES O[C@](C/C([2H])=C([2H])\C/C([2H])=C([2H])\CCCCC)([2H])/C([2H])=C/C([2H])=C([2H])\CCCC(O)=O

Formula C₂₀H₂₄D₈O₃

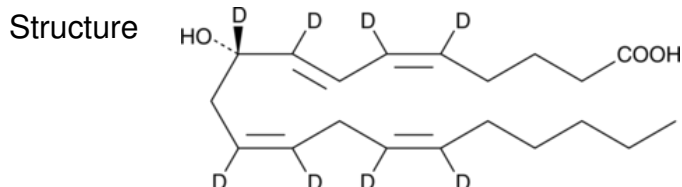
M.Wt 328.5

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 0.5 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.



Background

9(S)-HETE-d₈ is intended for use as an internal standard for the quantification of 9(S)-HETE by GC- or LC-MS. 9(S)-HETE is the (S) isomer of the monohydroxy fatty acid (±)9-HETE.¹ It is formed from arachidonic acid by rat liver microsomal cytochrome P450 (CYP).² 9(S)-HETE is an agonist of retinoid X receptor γ (RXRγ), inducing RXRγ-dependent transcription when used at a concentration of 300 nM in BHK cell extracts expressing chick RXRγ.³

1. Schneider, C., Yu, Z., Boeglin, W.E., et al. Enantiomeric separation of hydroxy and hydroperoxy eicosanoids by chiral column chromatography. *Methods Enzymol.* 433:145-157 (2007).
2. Capdevila, J., Yadagiri, P., Manna, S., et al. Absolute configuration of the hydroxyeicosatetraenoic acids (HETEs) formed during catalytic oxygenation of arachidonic acid by microsomal cytochrome P-450. *Biochem.*

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

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Biophys. Res. Commun.141(3)1007-1011(1986) 3.Eager, N.S., Brickell, P.M., Snell, C., et al.Structural and functional evidence for activation of a chick retinoid X receptor by eicosanoidsProc. Biol. Sci.250(1327)63-69(1992)

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