

Product Data Sheet

Product Name: (±)15-HETE-d8

Cat. No.: GC48739

Chemical Properties

Cas. No. 2525175-31-7

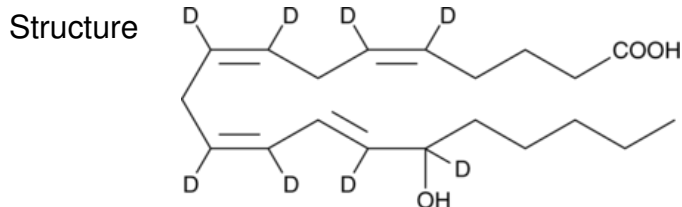
SMILES CCCCC([2H])(O)/C([2H])=C/C([2H])=C([2H])\C/C([2H])=C([2H])\C/C([2H])=C([2H])\CC(CO)=O

Formula C₂₀H₂₄D₈O₃ M.Wt 328.5

Solubility 0.1 M Na₂CO₃: 2 mg/ml, DMF: Storage -20°C
miscible, DMSO: miscible, Ethanol:
miscible, PBS (pH 7.2): 0.8 mg/ml

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 Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.



Background

(±)15-HETE-d₈ is intended for use as an internal standard for the quantification of 15-HETE by GC- or LC-MS. (±)15-HETE and 15(S)-HETE are formed *via* non-enzymatic and 15-lipoxygenase-mediated oxidation of arachidonic acid, respectively.^{1,2} 15(R)-HETE is formed by aspirin-acetylated COX-2-mediated oxidation of arachidonic acid.³

1. Powell, W.S., and Rokach, J. Biosynthesis, biological effects, and receptors of hydroxyeicosatetraenoic acids (HETEs) and oxoeicosatetraenoic acids (oxo-ETEs) derived from arachidonic acid *Biochim. Biophys. Acta* 1851(4):340-355(2014) 2. Derogis, P.B.M.C., Chaves-Filho, A.B., and Miyamoto, S. Characterization of hydroxy and hydroperoxy polyunsaturated fatty acids by mass spectrometry *Bioactive lipids in health and disease* 21-38(2019) 3. Lecomte, M., Laneuville, O.,

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

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Ji, C., et al. Acetylation of human prostaglandin endoperoxide synthase-2 (cyclooxygenase-2) by aspirin. *J. Biol. Chem.* 269(18):13207-13215 (1994)

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