

Product Data Sheet

Product Name: 19(R)-HETE

Cat. No.: GC40457

Chemical Properties

Cas. No. 115461-39-7

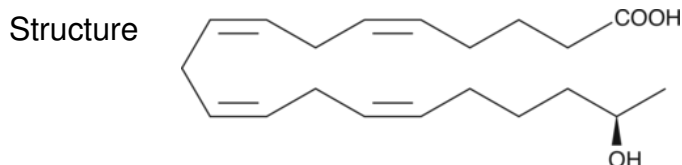
SMILES CC(O)CCC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCCC(=O)O

Formula C₂₀H₃₂O₃ M.Wt 320.5

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

19-HETE is one of the major cytochrome P450 (CYP450) metabolites of arachidonic acid that is released from the kidney in response to angiotensin II. When formed by the CYP2E1 isoform, 19-HETE is composed of 70% and 30% of the (S) and (R) stereoisomers, respectively. Both 19(S)- and 19(R)-HETE are potent vasodilators of renal preglomerular vessels. However, 19(R)-HETE at 1 µM completely blocks 20-HETE-induced vasoconstriction of renal arterioles, whereas 19(S)-HETE remains inactive.

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

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