

Product Data Sheet

Product Name: 16(R)-HETE

Cat. No.: GC40453

Chemical Properties

Cas. No. 183509-22-0

Chemical Name 16R-hydroxy-5Z,8Z,11Z,14Z-eicosatetraenoic acid

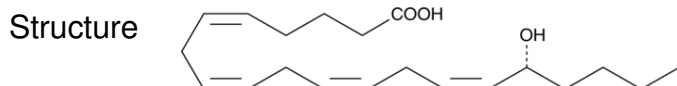
SMILES CCCCC(O)/C=C/C/C=C/C/C=C/C/C=C\CCCC(=O)O

Formula C₂₀H₃₂O₃ M.Wt 320.5

Solubility 0.1 M Na₂CO₃: 2 mg/ml, DMF: Miscible, DMSO: Miscible, Ethanol: Miscible, PBS (pH 7.2): 0.8 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

Electrolyte and fluid transport in the kidney are regulated in part by arachidonic acid and its metabolites. 16-HETE is a minor CYP450 metabolite of arachidonic acid released by the kidney upon angiotensin II stimulation that demonstrates stereospecific biological activity. Electrolyte and fluid transport in the kidney are regulated in part by arachidonic acid and its metabolites. 16-HETE is a minor CYP450 metabolite of arachidonic acid released by the kidney upon angiotensin II stimulation that demonstrates stereospecific biological activity. 16(S)-HETE inhibits proximal tubule ATPase activity by as much as 60% at a concentration of 2 μM.[1]

Reference:

[1]. Carroll, M.A., Balazy, M., Margiotta, P., et al. Cytochrome P-450-d]ependent HETEs: Profile of biological activity and stimulation by vasoactive peptides. American Journal of Physiology 271, R863-

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

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R869 (1996).

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