

Product Data Sheet

Product Name: 20-HEPE

Cat. No.: GC40377

Chemical Properties

Cas. No. 116477-57-7

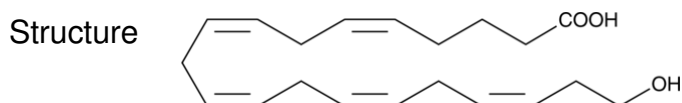
SMILES OCC/C=C\C/C/C=C\C/C/C=C\C/C/C=C\C/C/C=C\CCCC(O)=O

Formula C₂₀H₃₀O₃ M.Wt 318.5

Solubility 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

20-HEPE is a metabolite of eicosapentaenoic acid that is formed via ω -oxidation of EPA by cytochrome P450 (CYP) ω -oxidases, including human CYP4F3B. It activates peroxisome proliferator-activated receptor α (PPAR α) in COS-7 cells expressing a luciferase reporter when used at a concentration of 10 μ M. 20-HEPE also activates murine transient receptor potential vanilloid receptor 1 (mTRPV1) in vitro but lacks antinociceptive activity in rats.

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

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