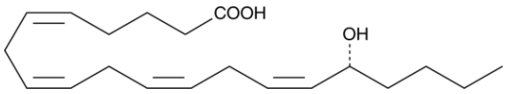
Product Data Sheet

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.		
Structure			

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-

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R869 (1996).