Product Data Sheet

Product Name: tetranor-12(S)-HETE
Cat. No.: GC45024

Chemical Properties

Cas. No.	121842-79-3		
SMILES	CCCCC/C=C\C[C@H](O)/C=C/C=C\CCC(O)=O		
Formula	$C_{16}H_{26}O_3$	M.Wt	266.4
Solubility	0.1 M Na2CO3: 2 mg/ml,DMF: 25 mg/ml,DMSO: 25 mg/ml,Ethanol: 30 mg/ml,PBS (pH 7.2): .5 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	tetranor-12(S)-HETE		

Background

12(S)-HETE is a product of arachidonic acid metabolism through the 12-lipoxygenase pathway. It is primarily found in platelets, leukocytes, and to a lesser extent in smooth muscle cells. It enhances tumor cell adhesion to endothelial cells, fibronectin, and the subendothelial matrix. tetranor-12(S)-HETE is the major β-oxidation product resulting from peroxisomal metabolism of 12(S)-HETE in numerous tissues, and Lewis lung carcinoma cells. No biological function has yet been determined for tetranor-12(S)-HETE. Some data indicate it may play a role in controlling the inflammatory response in injured corneas. In some diseases (e.g., Zellweger's Syndrome) peroxisomal abnormalities result in the inability of cells to metabolize 12(S)-HETE, which may be responsible for symptoms of the disease. The tetranor derivative of 12(S)-HETE is available as a research tool for the elucidation of the metabolic fate of its parent compound.

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