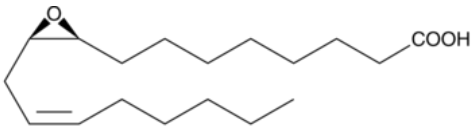
Product Data Sheet

Product Name: (±)9(10)-EpOME
Cat. No.: GC40540

Chemical Properties

Cas. No.			
SMILES	CCCCC/C=C\C[C@@H](O1)[C@@H]1CCCCCCCC(O)=O		
Formula	C18H32O3	M.Wt	296.5
Solubility	DMF: >50 mg/ml (per Rao Maddipati),DMSO: >50 mg/ml (per Rao Maddipati),Ethanol: >50 mg/ml (per Rao Maddipati),PBS pH 7.2: >1 mg/ml (from 13(S)-HODE)	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



NOTE: Relative stereochemistry shown in chemical structure

Background

(±)9(10)-EpOME is the 9,10-cis epoxide of linoleic acid, generated by neutrophils during the oxidative burst. It has been recovered from the lungs of hyperoxic rats and from humans with acute respiratory distress syndrome. Mitochondrial dysfunction is the main feature of (±)9(10)-EpOME cytotoxicity, which may be due to the diol metabolites as well as the parent epoxide.

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