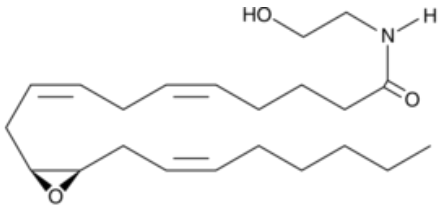
Product Data Sheet

Product Name: (±)11(12)-EET Ethanolamide
Cat. No.: GC45271

Chemical Properties

Cas. No.			
SMILES	CCCCC/C=C\C[C@H]1O[C@H]1C/C=C\C/C=C\CCCC(=O)NCCO		
Formula	C22H37NO3	M.Wt	363.5
Solubility	DMF: 30 mg/ml,DMSO: 20 mg/ml,Ethanol: 30 mg/ml,Ethanol:PBS (pH 7.2) (1:1): 0.5 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			

NOTE: Relative stereochemistry shown in chemical structure

Background

Arachidonoyl ethanolamide (AEA; anandamide) is an endogenous lipid neurotransmitter with cannibingeric activity, binding to both the central cannabinoid (CB1) and peripheral cannabinoid (CB2) receptors. Fatty acid amide hydrolase (FAAH) is the enzyme responsible for the hydrolysis and inactivation of AEA. Metabolism of AEA by cyclooxygenase-2, leading to formation of prostaglandin ethanolamides, and by lipoxygenases has also been documented. (±)11(12)-EET ethanolamide is a potential cytochrome P450 (CYP450) metabolite of AEA, although specific stereochemistry rather than a racemic mixture would likely ensue from enzymatic metabolism. CYP450 metabolism of AEA may be particularly relevant under conditions of FAAH inhibition. Evidence for the formation of (±)11(12)-EET ethanolamide in vivo has not been documented.

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