Product Data Sheet

Product Name: (R)-(-)-Linoleyl-2'-Hydroxy-1'-Propylamide
Cat. No.: GC41708

Chemical Properties

Cas. No.			
SMILES	CCCCC/C=C\C/C=C\CCCCCCCC(NC[C@@H](C)O)=O		
Formula	$C_{21}H_{39}NO_2$	M.Wt	337.5
Solubility	DMF: 11 mg/ml,DMSO: 5 mg/ml,Ethanol: 20 mg/ml,Ethanol:PBS (pH 7.2)(1:2): 11 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			

Background

N-Acyl ethanolamines (NAEs) have diverse biological actions that are strongly affected by the associated acyl group. Linoleoyl ethanolamide (LOEA) has potential signaling roles in aging and neurological functioning. LOEA has a weak affinity for cannabinoid (CB) receptors (Ki = 10, 25 μM for CB1, CB2, respectively) and inhibits voltage-gated K+ channels. LOEA also inhibits fatty acid amide hydrolase (FAAH; Ki = 9 μM) and is hydrolyzed by FAAH. (R)-(-)-Linoleyl-2'-hydroxy-1'-propylamide is a homolog of LOEA which is characterized by the addition of an (R)-β-methyl group at the terminal ethanolamine carbon. A similar modification of arachidonoyl ethanolamide to produce R-2 methanandamide imparts diminished affinity for the CB receptor as well as reduced metabolic stability. The physiological actions of this compound have not been evaluated.

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