Product Data Sheet

Product Name: (R)-(-)-Eicosapentaenyl-2'-Hydroxy-1'-Propylamide
Cat. No.: GC41706

Chemical Properties

Cas. No.			
SMILES	CC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCCC(NC[C@@H](C)O)=O		
Formula	$C_{23}H_{37}NO_2$	M.Wt	359.6
Solubility	DMF: 11 mg/ml,DMSO: 10 mg/ml,Ethanol: 20 mg/ml,Ethanol:PBS (pH 7.2)(1:2): 0.3 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. Eicosapentaenoyl ethanolamide (EPEA) has potential signaling roles in aging, cancer, inflammation, and neurological development. At least some of EPEA's effects are mediated through cannabinoid (CB) receptors, while some NAEs also act as vanilloid receptor agonists. (R)-(-)-Eicosapentaenyl-2'-hydroxy-1'-propylamide is a homolog of EPEA, 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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