
Product Data Sheet

Product Name: (S)-(+)-Eicosapentaenyl-2'-Hydroxy-1'-Propylamide

Cat. No.: GC41729

Chemical Properties

Cas. No.

SMILES CC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\C\CCCC(NC[C@H](C)O)=OFormula C23H37NO2

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

Store
Storage 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 **Background**

N-Acyl ethanolamines (NAEs) have diverse biological actions that are strongly affected by the associated acyl group. Eicosapentaenyl 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. S-(+)-Eicosapentaenyl-2'-hydroxy-1'-propylamide is a homolog of EPEA, characterized by the addition of an (S)- β -methyl group at the terminal ethanolamine carbon. A similar modification of arachidonoyl ethanolamide to produce S-2 methanandamide imparts higher affinity for the CB receptor. The physiological actions of this compound have not been evaluated.

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

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