# Product Data Sheet

Product Name: (S)-(-)-Docosahexaenyl-1'-Hydroxy-2'-Propylamide
Cat. No.: GC41724

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | | | |
| SMILES | CC/C=C\C/C=C\C/C=C\C/C=C\C/C=C\C/C=C\CCC(N[C@@H](C)CO)=O | | |
| Formula | $C_{25}H_{39}NO_2$ | M.Wt | 385.6 |
| Solubility | DMF: 2 mg/ml,DMSO: 14 mg/ml,Ethanol: 14 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. Docosahexaenoyl ethanolamide (DHEA) has potential signaling roles in cancer, inflammation, and neurological development and functioning. At least some of DHEA's effects are mediated through cannabinoid (CB) receptors, while some NAEs also act as vanilloid receptor agonists and voltage-gated K+ channel blockers. (S)-(-)-Docosahexaenyl-1'-hydroxy-2'-propylamide is a homolog of DHEA, characterized by the addition of an (S)-α-methyl group at the methylene carbon adjacent to the amide nitrogen. A similar modification of arachidonoyl ethanolamide to produce S-1 methanandamide results in a diminished affinity for the CB receptor but greatly improved metabolic stability to aminopeptidase hydrolysis. 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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