

Palmitoyl serinol

Chemical Properties

CAS No. : 126127-31-9

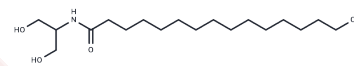
Formula: C19H39NO3

Molecular Weight: 329.52

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Palmitoyl serinol (N-Palmitoyl serinol), an analog of the endogenous cannabinoid N-palmitoylethanolamine, significantly stimulated an IL-4-mediated decrease in cellular ceramide levels in human epidermal keratinocytes (KC). Palmitoyl serinol stimulates the production of specific ceramide species and neurotransmitters through an endogenous cannabinoid receptor CB1-dependent mechanism. production of specific ceramide species as well as the total amount of ceramide.
Targets(IC50)	Cannabinoid Receptor
In vitro	Palmitoyl serinol promotes ceramide production through a CB1-dependent mechanism in an in vitro model of skin inflammation. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0347 mL	15.1736 mL	30.3472 mL
5 mM	0.6069 mL	3.0347 mL	6.0694 mL
10 mM	0.3035 mL	1.5174 mL	3.0347 mL
50 mM	0.0607 mL	0.3035 mL	0.6069 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shin KO, et al. N-Palmitoyl Serinol Stimulates Ceramide Production through a CB1-Dependent Mechanism in In Vitro Model of Skin Inflammation. Int J Mol Sci. 2021 Aug 2;22(15):8302.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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