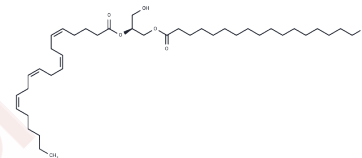


1-Stearoyl-2-arachidonoyl-sn-glycerol

Chemical Properties

CAS No. :	65914-84-3
Formula:	C41H72O5
Molecular Weight:	645.01
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	1-Stearoyl-2-arachidonoyl-sn-glycerol (DAG) is a diacylglycerol (DAG) substrate that can be hydrolyzed to 2-arachidonic acid glycerol. 1-Stearoyl-2-arachidonoyl-sn-glycerol activates PKC, induces Ca ²⁺ influx, and can induce tracheal smooth muscle
Targets(IC50)	Endogenous Metabolite, PKC, TRP/TRPV Channel
In vitro	1-Stearoyl-2-arachidonoyl-sn-glycerol (0.3-3 μM) enhances non-selective cation channel (NSCC) activity in airway smooth muscle cells; 1-Stearoyl-2-arachidonoyl-sn-glycerol (0-5 μM) It has a significant stimulating effect on the activation of PKCα, PKCδ, PKCγ, PKCε and PKCβI [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5504 mL	7.7518 mL	15.5036 mL
5 mM	0.3101 mL	1.5504 mL	3.1007 mL
10 mM	0.155 mL	0.7752 mL	1.5504 mL
50 mM	0.031 mL	0.155 mL	0.3101 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

Song T, et, al. Inositol 1,4,5-trisphosphate activates TRPC3 channels to cause extracellular Ca²⁺ influx in airway smooth muscle cells. *Am J Physiol Lung Cell Mol Physiol*. 2015 Dec 15;309(12):L1455-66.

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