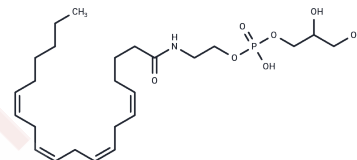


## Glycerophospho-N-Arachidonoyl Ethanolamine

## Chemical Properties

CAS No. :	201738-25-2
Formula:	C25H44NO7P
Molecular Weight:	501.601
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	N-Acylated ethanolamines (NAE) are naturally-occurring lipids that have diverse bioactivities. The different types of NAE can be derived from glycerophospho-linked precursors by the activity of glycerophosphodiesterase 1 (GDE1). Glycerophospho-N-arachidonoyl ethanolamine is the precursor of arachidonoyl ethanolamide (AEA), also known as anandamide. AEA is an endogenous cannabinoid neurotransmitter that binds to both central cannabinoid (CB1) and peripheral cannabinoid (CB2) receptors. It inhibits the specific binding of [3H]-HU-243 to synaptosomal membranes with a $K_i$ value of 52 nM, compared to 46 nM for $\delta^9$ -THC.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 20 mg/mL (39.87 mM), Sonication is recommended. DMF: 20 mg/mL (39.87 mM), Sonication is recommended. PBS (pH 7.2): 10 mg/mL (19.94 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9936 mL	9.9681 mL	19.9362 mL
5 mM	0.3987 mL	1.9936 mL	3.9872 mL
10 mM	0.1994 mL	0.9968 mL	1.9936 mL
50 mM	0.0399 mL	0.1994 mL	0.3987 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.

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