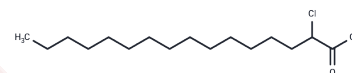


2-chloro Palmitic Acid

Chemical Properties

CAS No. :	19117-92-1
Formula:	C ₁₆ H ₃₁ ClO ₂
Molecular Weight:	290.87
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	2-chloro Palmitic acid is a monochlorinated form of palmitic acid . It is produced in a myeloperoxidase (MPO) and time-dependent manner in neutrophils stimulated by phorbol 12-myristate 13-acetate . 2-chloro Palmitic acid (10 μM) induces neutrophil extracellular trap (NET) formation (NETosis) in human neutrophils, increasing DNA release from neutrophils, colocalization of MPO with extracellular DNA (ecDNA), and trapping of E. coli. It increases COX-2 protein levels in human coronary artery endothelial cells (HCAECs) when used at a concentration of 50 μM and increases production of P-selectin, von Willebrand factor, and angiopoietin-2 in HCAECs, as well as neutrophil and platelet adherence, when used at a concentration of 10 μM. 2-chloro Palmitic acid (10-50 μM) also induces apoptosis in THP-1 cells and primary human monocytes and increases caspase-3 activity in THP-1 cells.
Targets(IC50)	Others,Caspase,PARP

Solubility Information

Solubility	DMF: 20 mg/mL (68.76 mM),Sonication is recommended. DMSO: 20 mg/mL (68.76 mM),Sonication is recommended. Ethanol: 30 mg/mL (103.14 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (6.88 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.438 mL	17.1898 mL	34.3796 mL
5 mM	0.6876 mL	3.438 mL	6.8759 mL
10 mM	0.3438 mL	1.719 mL	3.438 mL
50 mM	0.0688 mL	0.3438 mL	0.6876 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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