

## DCPLA-ME

## Chemical Properties

CAS No. : 56687-67-3

Formula: C<sub>21</sub>H<sub>38</sub>O<sub>2</sub>

Molecular Weight: 322.53

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DCPLA-ME (2-[(2-Pentylcyclopropyl)methyl]cyclopropaneoctanoic acid methyl ester) is the methyl ester form of DCPLA and can be used to treat neurodegenerative diseases. It is an effective PKCε activator.
Targets(IC50)	PKC

## Solubility Information

Solubility	DMSO: 100 mg/mL (310.05 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: 3.3 mg/mL (10.23 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	3.1005 mL	15.5024 mL	31.0049 mL
5 mM	0.6201 mL	3.1005 mL	6.201 mL
10 mM	0.310 mL	1.5502 mL	3.1005 mL
50 mM	0.062 mL	0.310 mL	0.6201 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

Thomas J. Nelson, et al. Halogenated esters of cyclopropanated unsaturated fatty acids for use in the treatment of neurodegenerative diseases. WO2015058191A1.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481