

(±)-1,2-Diolein**Chemical Properties**

CAS No. : 2442-61-7

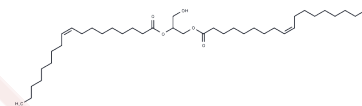
Formula: C₃₉H₇₂O₅

Molecular Weight: 620.99

Store at low temperature

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	(±)-1,2-Diolein [1,2-Dioleoyl-rac-glycerol] is a PKC activator that can increase Ca ²⁺ influx in myotubes.
Targets(IC50)	PKC
In vitro	(±)-1,2-Diolein (50 μM; 5 min) significantly increases Ca ²⁺ influx and induces PKC activity in myoblast cells, as demonstrated by Western Blot Analysis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6103 mL	8.0517 mL	16.1033 mL
5 mM	0.3221 mL	1.6103 mL	3.2207 mL
10 mM	0.161 mL	0.8052 mL	1.6103 mL
50 mM	0.0322 mL	0.161 mL	0.3221 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

Capiati DA, et al. Role of protein kinase C in 1,25(OH)₂-vitamin D₃ modulation of intracellular calcium during development of skeletal muscle cells in culture. J Cell Biochem. 2000;77(2):200-212.

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