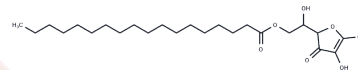


L-Ascorbic Acid 6-stearate

Chemical Properties

CAS No. :	10605-09-1
Formula:	C24H42O7
Molecular Weight:	442.60
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	L-Ascorbic acid 6-stearate, a compound derived from L-ascorbic acid and stearic acid identified in <i>K. coccinea</i> , exhibits antioxidant and anticancer properties. It effectively scavenges DPPH radicals in cell-free assays (IC ₅₀ = 3.31 µg/ml). Additionally, lipid nanoparticles (LNPs) containing L-ascorbic acid 6-stearate have been shown to trigger apoptosis in HL-60 promyeloblasts at a concentration of 190 µM. This compound is also incorporated into cosmetic and personal care product formulations due to its beneficial effects.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	Ethanol: 5 mg/mL (11.3 mM),Sonication is recommended. DMF: 10 mg/mL (22.59 mM),Sonication is recommended. DMSO: 10 mg/mL (22.59 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	2.2594 mL	11.2969 mL	22.5938 mL
5 mM	0.4519 mL	2.2594 mL	4.5188 mL
10 mM	0.2259 mL	1.1297 mL	2.2594 mL
50 mM	0.0452 mL	0.2259 mL	0.4519 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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