

Cholesteryl oleate

Chemical Properties

CAS No. : 303-43-5

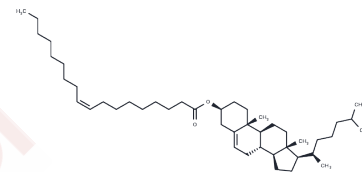
Formula: C₄₅H₇₈O₂

Molecular Weight: 651.1

Store at low temperature

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	Cholesteryl oleate (Cholesteryl cis-9-octadecenoate) is a cholesteryl ester. Cholesteryl oleate can be used to synthesize solid lipid nanoparticles which is a nanoparticle-based gene therapy approach.
Targets(IC50)	Endogenous Metabolite,Liposome

Solubility Information

Solubility	Acetone: 45 mg/mL (69.11 mM),Sonication is recommended. DMSO: 5 mg/mL (7.68 mM),Sonication is recommended. Ethanol: 10 mg/mL (15.36 mM),Sonication and heating to 50°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5359 mL	7.6793 mL	15.3586 mL
5 mM	0.3072 mL	1.5359 mL	3.0717 mL
10 mM	0.1536 mL	0.7679 mL	1.5359 mL
50 mM	0.0307 mL	0.1536 mL	0.3072 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

Suñé-Pou M, Prieto-Sánchez S, et al. Cholesteryl oleate-loaded cationic solid lipid nanoparticles as carriers for efficient gene-silencing therapy. *Int J Nanomedicine*. 2018 May 30;13:3223-3233.

Souza SL, et al. Study of the miscibility of cholesteryl oleate in a matrix of ceramide, cholesterol and fatty acid. *Chem Phys Lipids*. 2011 Oct;164(7):664-71.

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