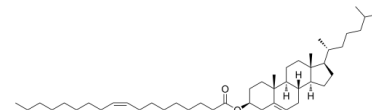


Data Sheet

Product Name:	Cholesteryl oleate
Cat. No.:	CS-0059332
CAS No.:	303-43-5
Molecular Formula:	C ₄₅ H ₇₈ O ₂
Molecular Weight:	651.10
Target:	Endogenous Metabolite; Liposome
Pathway:	Metabolic Enzyme/Protease
Solubility:	Ethanol : 12.5 mg/mL (ultrasonic;warming;heat to 50°C);DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C);Acetone : 50 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

Cholesteryl oleate is an esterified form of Cholesterol. Cholesteryl oleate can be used in the generation of solid lipid nanoparticle (SLN, a nanoparticle-based method for gene therapy)^{[1][2]}.

References:

- [1]. 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.
- [2]. Suñé-Pou M, 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.

CAIndexNames:

Cholest-5-en-3-ol (3β)-,3-[(9Z)-9-octadecenoate]

SMILES:

CC(C)CCC[C@@H](C)[C@H]1CC[C@@]2([H])[C@]3([H])CC=C4C[C@@H](OC(CCCCCC/C=C\CCCCCCC)=O)CC[C@]4(C)[C@@]3([H])CC[C@]12C

Caution: Product has not been fully validated for medical applications. For research use only.

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