

Product Data Sheet

Product Name: 9CCN
Cat. No.: GC91661

Chemical Properties

Cas. No. 596592-83-5

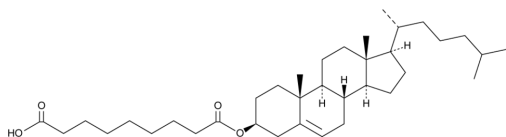
Formula $C_{36}H_{60}O_4$ M.Wt 556.9

Solubility DMSO: Slightly soluble: 0.1-1 mg/ml, Ethanol: Slightly soluble: 0.1-1 mg/ml, PBS (pH 7.2): Slightly soluble: 0.1-1 mg/ml
Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

9CCN is a cholesterol ester and oxidized anionic lipid.^[1] It has been found both intracellularly in plaque macrophages and extracellularly in atherosclerotic lesions where it acts as an 'eat-me' signal to facilitate phagocytic uptake of apoptotic debris. 9CCN has been used in the formation of lipid nanoparticles (LNPs) for the delivery of antagomiRs, chemically modified oligonucleotides that bind specifically to a particular miRNA, to macrophages *in vitro* and *in vivo*.^{[1],[2]}

References:

[1]. Maisseyeu, A., Mihai, G., Roy, S., et al. Detection of macrophages via paramagnetic vesicles incorporating oxidatively tailored cholesterol ester: An approach for atherosclerosis imaging. *Nanomedicine (Lond)* 5(9):1341-1356 (2010).

[2]. Mallén, A., Narváez-Narváez, D.A., Pujol, M.D., et al. Development of cationic solid lipid nanoparticles incorporating cholesteryl-9-carboxynonanoate (9CCN) for delivery of antagomiRs to macrophages. *Eur. J. Pharm. Biopharm.* 197:114238 (2024).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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