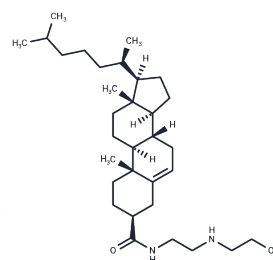


OH-Chol

Chemical Properties

CAS No. :	191173-82-7
Formula:	C32H56N2O2
Molecular Weight:	500.812
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	OH-Chol is a cationic cholesterol derivative. OH-Chol, as a component of lipoplexes with [DOPE], has been used for siRNA delivery and gene silencing in MCF-7 cells and in mice via intravenous injection, resulting in lipoplex accumulation in the liver. Additionally, it has been employed in cationic nanoparticles with [Tween 80] to transfect pDNA and siRNA into PC3 mouse xenografts via intratumoral injection and with [Tween 80] and [folate-PEG2000-DSPE] in a KB mouse xenograft model for intratumoral gene delivery.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	Ethanol: 10 mg/mL (19.97 mM),Sonication is recommended. DMF: 10 mg/mL (19.97 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:6): 0.14 mg/mL (0.28 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	1.9968 mL	9.9838 mL	19.9677 mL
5 mM	0.3994 mL	1.9968 mL	3.9935 mL
10 mM	0.1997 mL	0.9984 mL	1.9968 mL
50 mM	0.0399 mL	0.1997 mL	0.3994 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

Hattori, Y., Nakamura, M., Takeuchi, N., et al. Effect of cationic lipid in cationic liposomes on siRNA delivery into the lung by intravenous injection of cationic lipoplex. J. Drug. Target 27(2), 217-227 (2019).

Hattori, Y. Development of non-viral vector for cancer gene therapy. Yakugaku Zasshi 130(7), 917-923 (2010).

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