

Product Data Sheet

Product Name: OH-Chol
Cat. No.: GC45534

Chemical Properties

Cas. No. 191173-82-7

SMILES C[C@H](CCCC(C)C)[C@H]1([H])CC[C@@]2([H])[C@]3([H])CC=C4C[C@@H](C(NCCNCCO)=O)CC[C@]4(C)[C@@]3([H])CC[C@@]21C

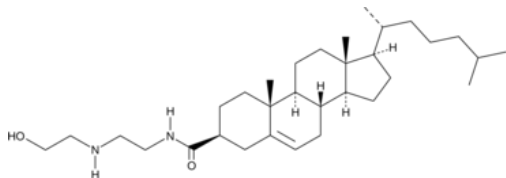
Formula C32H56N2O2 M.Wt 500.8

Solubility DMF: 10mg/mL, Ethanol: 10mg/mL, Ethanol:PBS (pH 7.2) (1:6): 0.14mg/mL
Storage Store at -20°C

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

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

Structure



Background

OH-Chol is a cationic cholesterol derivative.¹ OH-Chol, as a component of lipoplexes with DOPE, has been used for siRNA delivery and gene silencing in MCF-7 cells, as well as in mice via intravenous injection, resulting in lipoplex accumulation in the liver. It has also been used in cationic nanoparticles in combination 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.²

References

1. 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).

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

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

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