

Product Data Sheet

Product Name: DSPE-PEG2000-CTP

Cat. No.: GC79702

Chemical Properties

Cas. No.

Formula

M.Wt

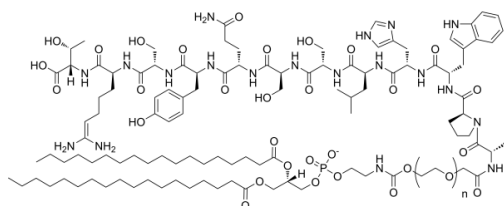
Solubility

Storage Store at -80°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

DSPE-PEG2000-CTP is a PEG compound which composed of DSPE and a Cardiac-targeting peptide CTP. CTP molecules that specifically recognize cardiac tissue and is primarily used for

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

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targeted drug delivery. CTP effectively recognizes and binds to specific receptors on the surface of cardiac cells, thereby achieving precise localization of drug molecules. DSPE-PEG2000-CTP can be used for drug delivery [1].

In Vitro, Lipids used to prepare nanoparticles are a class of amphiphilic biomolecules that combine structural diversity, biocompatibility, and functional tunability. As the core framework of nanodelivery systems, they not only form lipid bilayers or solid matrices through self-assembly to encapsulate lipophilic or hydrophilic drugs, but can also be further subdivided according to formulation requirements into structural lipids (such as phospholipids and triglycerides), functional lipids (such as ionizable cationic lipids used for nucleic acid condensation and endosome escape), and sterically stable lipids (such as PEGylated lipids).

References:

[1]. Gallicano, G. I., et al., (2022). Reversing Cardiac Hypertrophy at the Source Using a Cardiac Targeting Peptide Linked to miRNA106a: Targeting Genes That Cause Cardiac Hypertrophy.

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