DSPE-PEG-Azide, MW 2000

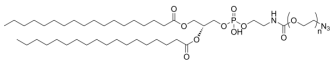
Cat. No.: HY-W440832

Target: Liposome

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (ultrasonic and warming and heat to 60°C)
Ethanol : 1 mg/mL (ultrasonic and warming and heat to 60°C)

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DSPE-PEG-Azide, MW 2000 is an azide containing lipid that can be used to form micelles as nanoparticles for drug delivery[1]. DSPE-PEG-Azide, MW 2000 is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

REFERENCES

[1]. Matthew R Warren , et al. Milk exosomes with enhanced mucus penetrability for oral delivery of siRNA. Biomater Sci. 2021 Jun 15;9(12):4260-4277.

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