

DSPE-PEG-Azide (MW 2000)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

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| Description | DSPE-PEG-Azide (MW 2000) has an amphiphilic structure and can form lipid bilayers/micelles in water. It can be used to prepare nanoparticles or liposomes as targeted drug carriers. |
| Targets(IC50) | Liposome |
| In vitro | DSPE-PEG-Azide (MW 2000) is a reagent for click chemistry that contains an azide group capable of binding to molecules possessing an alkyne group via a copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC). In addition, it can also undergo strain-promoted alkyne-acridine cycloaddition (SPAAC) with molecules possessing DBCO or BCN groups. |

Solubility Information

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|---------------------|---|
| Solubility | Ethanol: 1 mg/mL, Sonication is recommended. DMSO: 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL, Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Reference

Warren MR, 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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