

DMPE-PEG3000

Chemical Properties

CAS No. :

Formula: (C₂H₄O)_nC₃₅H₆₈N₁₀P.NH₃

Molecular Weight:

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

Actual storage temperature shall be subject to the COA.

Biological Description

Description	DMPE-PEG3000 serves as a PEG lipid functional end group for synthesizing liposomes (LPs), designed for the engineering of conjugated polymer nanoparticles. Liposomal nanoparticles (LNPs) modified with biotin and carboxyl ends can further couple with other biomolecules. These functionalized nanoparticles facilitate the targeted labeling of specific cellular proteins. Using streptavidin as a linker, biotinylated PEG lipid-conjugated polymer nanoparticles can bind with biotinylated antibodies on cell surface receptors, enabling applications in fluorescence-based imaging and sensing.
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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481