



mPEG-DLPE

Catalog: Lipo-524

1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine (DLPE)-polyethylene glycol methoxy (DLPE-MPEG) is a linear heterobifunctional PEGylation reagent with an unsaturated DLPE phospholipid. It is a useful self-assembling reagent to prepare grafted or PEGylated liposome or micelle while also providing an amine group for bioconjugation. It is often used in targeted drug delivery with the lipid bilayer to improve drug solubility, the PEG to provide stealth property, extend circulation half-life and reduce non-specific protein binding or cell adhesion, and the amine group to bioconjugate targeting molecules including antibody, aptamer, protein, and peptide.

PRODUCT INFORMATION

Product Name	mPEG-DLPE
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Product Overview	1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine (DLPE)-polyethylene glycol methoxy (DLPE-MPEG) is a linear heterobifunctional PEGylation reagent with an unsaturated DLPE phospholipid. It is a useful self-assembling reagent to prepare grafted or PEGylated liposome or micelle while also providing an amine group for bioconjugation. It is often used in targeted drug delivery with the lipid bilayer to improve drug solubility, the PEG to provide stealth property, extend circulation half-life and reduce non-specific protein binding or cell adhesion, and the amine group to bioconjugate targeting molecules including antibody, aptamer, protein, and peptide.
Purity	>95%
Application	Liposome production; Synthetic lipid



Form	Off-white/white solid or viscous liquid depends on molecule weight. Soluble in regular aqueous solution as well as most organic solvents
Storage	Store at -20 °C
Synonyms	DSPE-PEG(2000) Amine Lipids

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.