

DSPE-PEG-NHS

Catalog: Lipo-511

1,2-Distearoyl-sn-Glycero-3-Phosphoethanolamine (DSPE) conjugated polyethylene glycol with active succinimidyl ester (DSPE-PEG-NHS) is a linear heterobifunctional PEGylation reagent with a DSPE phospholipid and an active ester group. It is a useful self-assembling reagent to prepare PEGylated liposome or micelle while also providing a NHS group for conjugation with amine-containing moieties or ligands. 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 acid group to bioconjugate targeting molecules including antibody, aptamer, protein, and peptide.

PRODUCT INFORMATION

Product Name	DSPE-PEG-NHS
Catalog Number	Lipo-511
Product Overview	1,2-Distearoyl-sn-Glycero-3-Phosphoethanolamine (DSPE) conjugated polyethylene glycol with active succinimidyl ester (DSPE-PEG-NHS) is a linear heterobifunctional PEGylation reagent with a DSPE phospholipid and an active ester group. It is a useful self-assembling reagent to prepare PEGylated liposome or micelle while also providing a NHS group for conjugation with amine-containing moieties or ligands. 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 acid group to bioconjugate targeting molecules including antibody, aptamer, protein, and peptide.
Purity	>95%
Application	Liposome production; Synthetic lipid
Storage	Store at -20 °C

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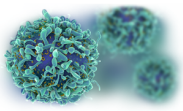

Synonyms	1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[succinimidyl(polyethylene glycol)]

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.

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