



# DSPE-PEG-NH2

**Catalog: Lipo-509**

## PRODUCT INFORMATION

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**Name** DSPE-PEG-NH2

**Cat No.** Lipo-509

### Product Overview

1,2-Distearoyl-sn-Glycero-3-Phosphoethanolamine (DSPE)-polyethylene glycol-amine (DSPE-PEG-Amine, DSPE-PEG-NH2) is a linear heterobifunctional PEGylation reagent with a DSPE phospholipid and an amine. DSPE-PEG-NH2 is used to modify liposome surface with biomolecules containing amine reactive groups (NHS, thiolate). 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

**Storage** Store at -20 °C

**Synonyms** 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[amino(polyethylene glycol)] (DSPE-PEG-NH2)

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