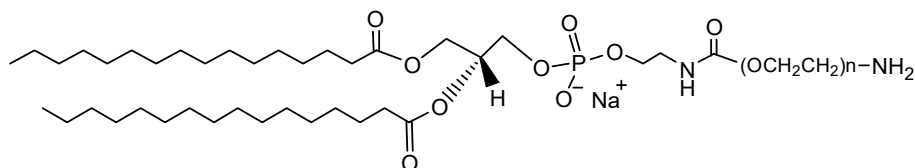


TECHNICAL DATA SHEET**DPPE PEG Amine, MW 1000, 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG2-AMDP-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Amino PEG DPPE, DPPE-PEG-NH₂.**Description:**

Amino PEG DPPE or **DPPE-PEG-amine**, is one of Nanocs' reactive **phospholipid PEG** derivatives that can be used to prepare functional liposome or lipid nanoparticles. **DPPE** (1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine) is a 16 carbon phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity. Amine group on this molecule can be further functionalized with amine reactive groups, such as succinimidyl NHS ester. Amino PEG DPPE is both organic and water soluble and it is useful for targeted delivery. Nanocs provides a variety of multifunctional phospholipid PEG products that can be used for targeted drug delivery, nanoparticle functionalization, liposome formulation as well as many other applications. **Pegylated phospholipids** demonstrate excellent amphiphilic properties and offer superior advantages for small and large molecule labeling, bioconjugation and molecule encapsulation. Pegylation of phospholipids significantly improves the blood circulation time and stability for encapsulated drugs; it also suppresses the non-specific binding of charged molecules to the modified surfaces.

Product Structure:**Product Specifications:**

- Composition: **DPPE PEG amine.**
- Appearance: White to off-white solid.
- Solubility: >10 mg/mL in hot water, chloroform, DMSO, etc.
- Reactive group: Primary amine (-NH₂).

Handling and Use:

DPPE PEG amine should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit www.nanocs.net.

Storage Conditions:

Amino PEG DPPE should be stored at -20 °C.

This product is for research and manufacturing use only and is not intended for use in humans or for diagnostic use.

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