

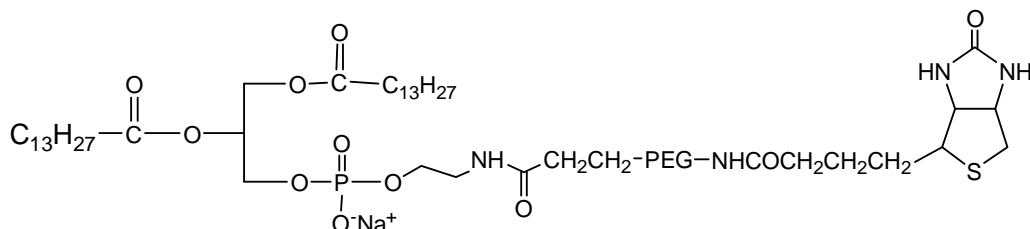
**TECHNICAL DATA SHEET****DMPE PEG Biotin, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Biotin PEG DMPE

**Description:**

**DMPE PEG Biotin** is one of Nanocs' biotinylated phospholipid PEG derivatives that have a DMPE phospholipid and a biotin molecule bridged by a linear PEG linker. DMPE (1,2-dimyristoyl-sn-glycero-3-phosphoethanolamine) is a 14 carbon phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity. Biotin functionalized DMPE PEG can bind to avidin or streptavidin with high affinity. This item can be used to prepare biotinylated liposome and other lipid nanoparticles for targeted drug delivery. PEG linker between DMPE and biotin offers good water solubility, flexible spacer structure and enhanced stability.

**Product Structure:****Product Specifications:**

- Composition: **DMPE PEG Biotin.**
- Appearance: White to off white solid.
- Solubility: 10 mg/mL, clear hot water, chloroform, etc.
- Functional group: Biotin.

**Handling and Use:**

For best use, **DMPE PEG biotin** 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](http://www.nanocs.net).

**Storage Conditions:**

**DMPE PEG Biotin** should be stored at -20 °C. Desiccate. Re-test material 6 months after receiving.

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

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