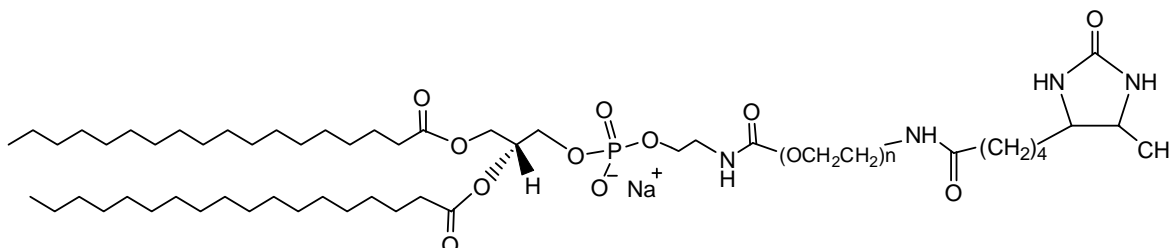


**TECHNICAL DATA SHEET****Desthiobiotin PEG DSPE**

Catalog Numbers: PG2-DSDSB-2k, 3k, 5k, 10k

**Description:**

**Desthiobiotin PEG DSPE** (1,2-distearoyl-sn-glycero-3-phosphoethanolamine) is one of Nanocs' saturated C18 phospholipid PEG product that has a terminal desthiobiotin moiety. **Desthiobiotin** is a modified version of biotin. Compared to biotin, desthiobiotin binds to streptavidin, avidin and other biotin-binding proteins with high specificity but it can be eluted under mild conditions (i.e., by competitive displacement with regular, free biotin). As such, this reagent is a useful alternative to Biotin for avidin-biotin techniques in which non-denaturing elution of the labeled proteins is desired. **DSPE** is an 18 carbon phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity. Pegylated phospholipids are excellent liposome formation materials that can be used for drug delivery, gene transfection and vaccine delivery as well.

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

- Composition: Desthiobiotin PEG DSPE .
- Appearance: White to off white solid.
- Solubility: 5 mg/mL, clear in chloroform.
- Stability: ~12 months at -20 °C.

**Handling and Use:**

For best use, material 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:**

Product should be stored at -20 °C. Re-test material after 12 months.

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

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