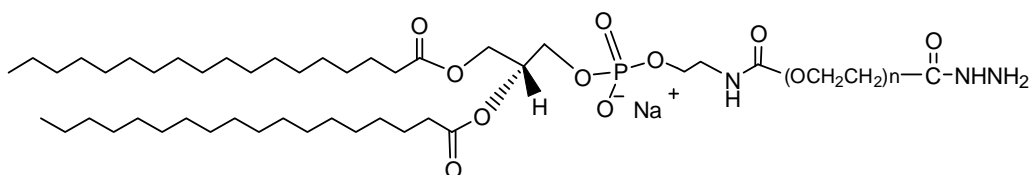


TECHNICAL DATA SHEET**DSPE PEG Hydrazide, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Hydrazide PEG DSPE, DSPE-PEG-CONHNH₂**Description:**

DSPE PEG Hydrazide is one of Nanocs' carbonyl reactive phospholipid PEG derivatives that can react with aldehyde or ketone groups derived from polysaccharides or glycoproteins. DSPE (1,2-distearoyl-sn-glycero-3-phosphoethanolamine) is an 18 carbon phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity and water solubility. **Hydrazide** reacts with aldehyde group readily to form a stable hydrozone linkage which is more stable than schiff base formed between aldehyde and amine group. Reaction between hydrazide and aldehyde allows quick and efficient conjugation of phospholipids to carbohydrates, glycoproteins, antibodies and enzymes. PEG linker between DSPE and hydrazide offers better water solubility, flexible linker structure and enhanced stability.

Product Structure:**Product Specifications:**

- Composition: **DSPE PEG Hydrazide.**
- Appearance: White to off-white solid.
- Solubility: 10 mg/mL in hot water, chloroform, DMSO, etc.
- Reactive group: Hydrazide.
- Reactive to: Aldehyde.

Handling and Use:

DSPE PEG Hydrazide 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:

Hydrazide PEG DSPE should be stored at -20 °C. Desiccate. Re-test material in 12 months.

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

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.