

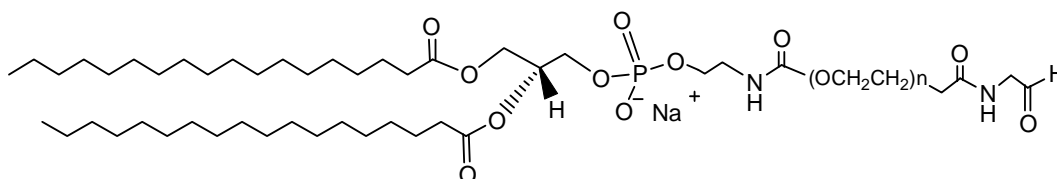
TECHNICAL DATA SHEET**DSPE PEG Aldehyde, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Aldehyde PEG DSPE, DSPE PEG CHO

Description:

DSPE PEG aldehyde is one of Nanocs' reactive phospholipid PEG derivatives that can react with N-terminus amine groups. **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. **Aldehyde PEG DSPE** is a reactive lipid PEG with good reactivity towards amine, oxyamine or hydrazide groups. Aldehyde reacts with N-terminus amine groups to form an intermediate Schiff base. Further reduction with hydride will form a stable C-N bond. Aldehyde PEG DSPE allows conjugation of DSPE PEG to amine or hydrazide group at acidic conditions with good selectivity. Higher pH will result in multiple pegylation with amine groups.

Product Structure:**Product Specifications:**

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

Handling and Use:

For best use, **DSPE PEG aldehyde** 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:

Aldehyde PEG DSPE should be stored at -20 °C. Desiccate. Re-test material after 6 months.

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

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