NANOCS

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TECHNICAL DATA SHEET

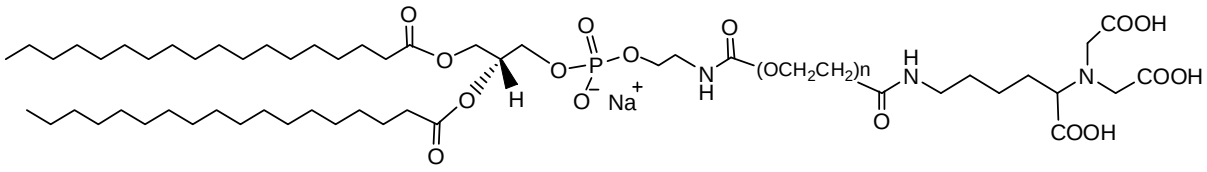
DSPE PEG NTA, MW 2000, 3400, 5000, 10k, 20k

Catalog Numbers: PG2-DSNT-2k, 3k, 5k, 10k.

Description:

DSPE PEG NTA is one of Nanocs' metal chelating phospholipid PEG derivatives that contain an 18 carbon saturated phospholipid moiety. **Nitrilotriacetic acid (NTA)** is an excellent metal chelator with high affinity toward Nickel, copper, iron and many other metal ions. NTA modified resins have been used for His-tag protein purification for many years. DSPE (1,2-distearoyl-sn-glycero-3-phosphoethanolamine), on the other hand, is common saturated phospholipid that has high hydrophobicity. Nanocs PEG bridged DSPE PEG NTA is amphilphilic and it can dissolve well in aqueous solution. Because of its good amphilphilic property, this PEG conjugate can be used to synthesize liposome and other biocompatible nanoparticles for drug delivery.

Product Structure:



Product Specifications:

- Composition: **NTA PEG DSPE**.
- Appearance: White to off-white solid.
- Solubility: >5 mg/mL in hot water, chloroform, etc.
- Stability: 12 months at -20 ^{0}C.

Handling and Use:

NTA PEG DSPE 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:

DSPE PEG NTA should be stored at -20 ^{0}C.

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