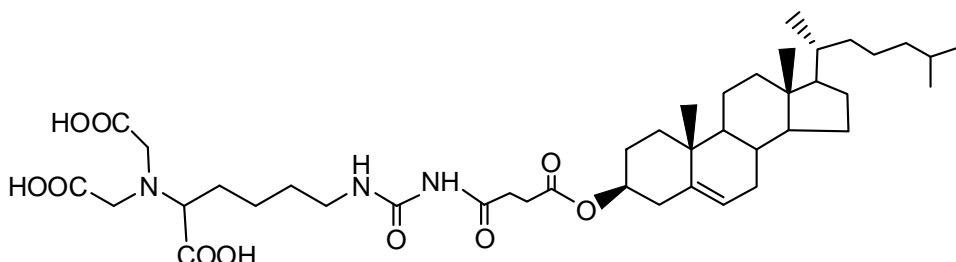


**TECHNICAL DATA SHEET****NTA PEG Cholesterol, MW 2000, 3400, 5000, 10k, 20k**

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

**Description:**

**NTA PEG Cholesterol** is one of Nanocs' metal chelating lipid PEG derivatives that contain a cholesterol 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. Cholesterol, on the other hand, is an essential lipid component to build and maintain basic animal cell function. It is one of animal cell-membrane structure components and establishes proper membrane permeability and fluidity in animal cells. In addition to its structural function, cholesterol is also the important precursor for the biosynthesis of steroid hormones, bile acids and vitamin D. Cholesterol is a hydrophobic molecule with very low water solubility. Nanocs PEG linked cholesterol and NTA PEG is amphiphilic and it can dissolve well in aqueous solution. Because of its good amphiphilic property, this PEG conjugate can be used to synthesize liposome and other biocompatible nanoparticles for drug delivery.

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

- Composition: **NTA PEG Cholesterol.**
- Appearance: White to off-white solid.
- Solubility: >5 mg/mL in hot water, chloroform, ethanol, etc.
- Stability: 12 months at -20 °C.

**Handling and Use:**

**NTA PEG Cholesterol** 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:**

**Cholesteryl PEG NTA** should be stored at -20 °C.

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

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