

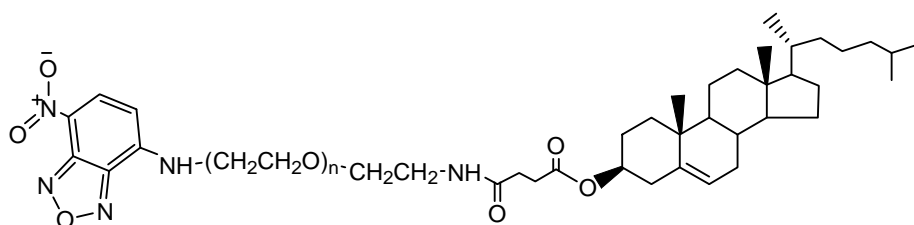
**TECHNICAL DATA SHEET****Cholesterol PEG NBD, MW 1k, 2k, 3400, 5k, 10k, 20k**

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

Synonym: NBD PEG Cholesterol, Cholesteryl PEG NBD

**Description:**

**Cholesterol PEG NBD** is one of Nanocs' fluorescent cholesterol lipid PEG derivatives. **Cholesterol** 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. **NBD** (2-(4-nitro-2,1,3-benzoxadiazol), on the other hand, is a fluorescent dye with excitation/emission wavelength at 458 nm/530 nm. **NBD PEG cholesterol** has strong orange fluorescence which can be easily detected with common fluorometer or fluorescent microscope. PEG linker bridged cholesterol and NBD offers good water solubility, flexible spacer length and high photo-stability. Fluorescent cholesteryl lipids are excellent probes for cell membranes. They can also be used for liposome and other lipophilic nanoparticles tracking and imaging.

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

- Composition: **NBD PEG Cholesterol.**
- Appearance: Orange/dark orange solid or semi-solid depends on molecular weight.
- Solubility: Soluble in warm water, chloroform, DMSO.
- Ex/Em: 458/530.

**Handling and Use:**

**NBD 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:**

**Cholesterol PEG NBD** should be stored at -20 °C. Desiccate. Protect from light.

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

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