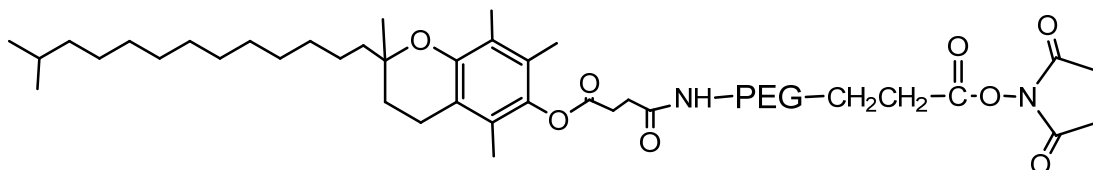


**TECHNICAL DATA SHEET****Vitamin E PEG NHS, MW 1k, 2k, 3400, 5k, 10k, 20k**

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

Synonym: *alpha*-tocopherol PEG NHS**Description:**

**Vitamin E PEG NHS** is one of Nanocs' bioactive PEG derivatives that contain an amine reactive succinimidyl NHS ester. Vitamin E, also called tocopherols, are a series ( $\alpha$ ,  $\beta$ ,  $\gamma$  and  $\delta$ ) of chiral organic molecules that vary in their degree of methylation of the phenol moiety of the chromanol ring. Tocopherols are lipid soluble anti-oxidants that protect cell membranes from oxidative damage. Among them,  $\alpha$ -Tocopherol, is the most biologically active vitamin E form. Polyethylene glycol modified vitamin E derivatives offered by NANOCS are mainly from the modification of  $\alpha$ -Tocopherol. NHS functionalized **Vitamin E PEG** can react to primary amine containing molecules in alkaline pH. Reaction between NHS and amine enables quick and efficient conjugation of vitamin E to proteins, antibodies or particles. Those tocopherol PEG derivatives can be used for cell membrane imaging, liposome formulation and many other applications.

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

- Composition:  **$\alpha$ -Tocopherol PEG NHS.**
- Appearance: White to off-white solid or semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform and DMSO.
- Reactive group: NHS.

**Handling and Use:**

For best use, **Vitamin E PEG NHS** products 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:**

**Vitamin E PEG NHS** should be stored at  $-20^{\circ}\text{C}$ . Desiccate. Protect from light. 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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