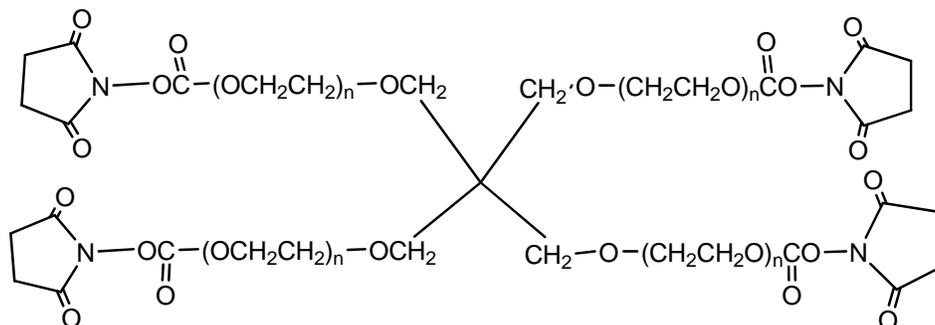


**TECHNICAL DATA SHEET**
**4 Arm PEG NHS, MW 2000, 5000, 10k, 20k**

Catalog Numbers: PG4A-NS-2k,-5k, 10k, 20k.

**Description:**

**4 arm PEG NHS** is one of Nanocs' multifunctional reactive PEG derivatives that can react with primary amine groups. Our 4 arm PEG NHS has four succinimidyl NHS ester groups on each star-shaped PEG core molecule. N-hydroxysuccinimide (NHS) functionalized polyethylene glycol has excellent reactivity toward primary amine (-NH<sub>2</sub>) groups. These reactive PEG derivatives have been used extensively to modify protein, peptide or other materials with available amino groups. NHS esters react with primary amine groups at pH 7~10 to form stable amide bonds. Compared to other **PEG NHS** ester derivatives, Nanocs' succinimidyl carbonate (SC) activated PEG-NHS has superior reactivity and higher stability in aqueous solution. Multi-armed NHS PEG ester is a useful material to synthesize biocompatible hydrogel when reacting with other molecules with multiple amino groups.

**Product Structure:**

**Product Specifications:**

- Composition: **4 Arm PEG NHS.**
- Appearance: White to off-white solid or semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Reactive group: NHS ester.
- Reactive to: Primary amine (-NH<sub>2</sub>).

**Handling and Use:**

For best use, **4 arm PEG succinimidyl NHS ester** 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:**

**4 arm PEG NHS** 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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