

**TECHNICAL DATA SHEET****Cy5 PEG NHS, MW 1000, 2000, 3400, 5000, 10k, 20k**

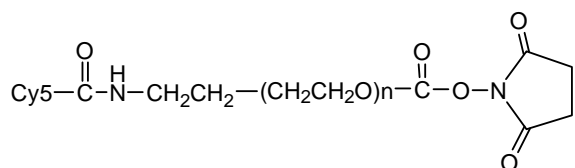
Catalog Numbers: PG2-NSS5-1k, 2k, 3k, 5k, 10k, 20k.

Similar products: SF650 PEG NHS, Alexa Fluoro 647 PEG NHS

Synonym: NHS PEG Cy5

**Description:**

**Cy5 PEG NHS** is one of Nanocs' amine reactive near infrared fluorescent PEG derivatives with excitation/emission wavelength at **650 nm/670 nm**. Cy5 dye emits strong near infrared fluorescent light upon excited at 650 nm while NHS is able to react with primary amine groups at pH 7.5~10.0 with high specificity and reactivity. Reaction between NHS and amine allows the labeling and conjugation of Cy5 PEG to the surface of proteins, antibodies or particles. PEG linker between Cy5 dye and NHS group offers better water solubility, flexible linker structure and enhanced stability. Compared to other fluorescent dyes, Nanocs' reactive fluorescent PEG dyes are brighter, more stable and easier to use. All our reactive fluorescent PEG dyes can be used directly in aqueous buffer without need adding any organic solvents.

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

- Composition: **Cy5 PEG NHS.**
- Appearance: Blue/dark blue solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO, DMF.
- Reactive group: **NHS**
- Reactive to: **Amine** (-NH2).
- Ex/Em wavelength: 650/670 nm

**Handling and Use:**

**Cy5 PEG NHS** should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. NHS undergoes hydrolysis at elevated temperature and moisture. Avoid any amine containing buffer. For more information about using this product, visit [www.nanocs.net](http://www.nanocs.net).

**Storage Conditions:**

**NHS PEG Cy5** should be stored at -20 °C. Desiccate. Protect from light. Materials may be handled under inert gas for best stability. 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.**

**Related Products:**

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[Cy5 PEG Biotin](#)  
[Cy5 PEG DBCO](#)

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[Cy5 PEG Thiol](#)  
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