

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

Catalog Numbers: PG2-S5TH-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Thiol PEG Cy5, Sulfhydryl PEG Cy5, Cy5 PEG SH, HS PEG Cy5

**Description:**

**Cy5 PEG thiol (Cy5-PEG-SH)** is one of Nanocs' near infrared fluorescent PEG derivatives that have excitation/emission wavelength at 650 nm/670 nm. Cy5 fluorophore emits strong near infrared fluorescent light upon excited at 650 nm while thiol group can react with a variety of sulfhydryl reactive groups, such as maleimide, iodoacetate and pyridyldisulfide. Thiol group also has strong binding affinity toward gold surface. Reaction of thiol and other groups allows the labeling and conjugation of Cy5 PEG to the surface of proteins, antibodies or particles. PEG linker between Cy5 dye and thiol 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 Thiol.**
- Appearance: Blue/dark blue solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO.
- Reactive group: Thiol (-SH).
- Ex/Em wavelength: 650 nm/670 nm.

**Handling and Use:**

**Thiol PEG Cy5** 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:**

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

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

**Related Products:**

Cy5 PEG amine	Cy5 PEG DSPE
Cy5 PEG maleimide	Cy5 PEG SH
Cy5 PEG Biotin	Cy5 PEG Azide
Cy5 PEG DBCO	Cy5 PEG COOH

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