

**TECHNICAL DATA SHEET**

## Tetrazine PEG Fluorescein, MW 1000, 2000, 3400, 5000, 10k, 20k

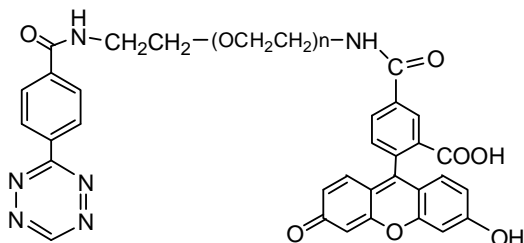
Catalog Numbers: PG2-FCTZ-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Fluorescein PEG Tetrazine, FITC PEG Tetrazine, Tetrazine PEG FITC

### Description:

**Tetrazine PEG Fluorescein** (FITC-PEG-Tetrazine) is one of Nanocs' reactive fluorescent PEG crosslinkers that can react with **TCO** (transcyclooctene) group via copper free Click Chemistry. Click chemistry between tetrazine and TCO is a bioorthogonal reaction that enables the conjugation of fluorescein tag to desired substrates containing correspondent TCO. Fluorescein is a commonly used green fluorescent dye that has excitation/emission wavelength at 495 nm/515 nm. Tetrazine functionalized Fluorescein PEG can be used to label proteins, peptides, antibodies, biopolymers and particles via copper free Click Chemistry reaction. PEG linker between tetrazine and FITC offers better water solubility, flexible spacer structure and enhanced stability. Compared to other organic dyes, Nanocs' fluorescent PEG dyes are brighter, more photo-stable and easy to use.

### Product Structure:



### Product Specifications:

- Composition: **Tetrazine PEG Fluorescein.**
- Appearance: Yellow/orange solid, semi-solid depends on molecular weight.
- Solubility: 5 mg/mL, clear in water, chloroform, DMSO.
- Reactive groups: Tetrazine.
- Ex/Em wavelength: 495 nm/515 nm.

### Handling and Use:

**Tetrazine PEG FITC** is sensitive to light and temperature. For best use, material should always be kept in low temperature in dry condition. Protect from light. Avoid frequent thaw and freezing. For more information about using this product, visit [www.nanocs.net](http://www.nanocs.net).

### Storage Conditions:

**FITC PEG Tetrazine** should be stored at -20 °C. Protect from light. Re-test material after 12 months.

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

### Related Products:

Tetrazine PEG NH<sub>2</sub>  
 Tetrazine PEG Biotin  
 Tetrazine PEG SH

Tetrazine PEG COOH  
 Tetrazine PEG Maleimide  
 Tetrazine PEG NHS

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