

TECHNICAL DATA SHEET

OPSS PEG Fluorescein, MW 2000, 3400, 5000, 10k, 20k

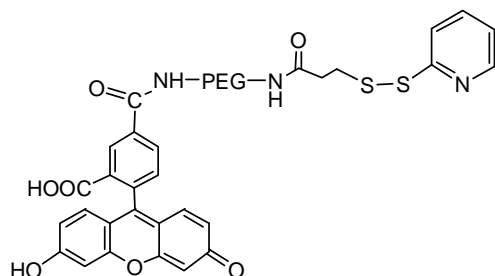
Catalog Numbers: PG2-FCOS-2k, 3k, 5k, 10k, 20k.

Synonym: PDP PEG Fluorescein, Fluorescein PEG PDP, OPSS PEG FITC, FITC PEG PDP

Description:

OPSS PEG Fluorescein (OPSS-PEG-FITC) is one of Nanocs' green fluorescent PEG derivatives that are reactive toward with sulfhydryl group. Fluorescein is a widely used fluorescent dye that has excitation/emission wavelength at 490 nm/515 nm. Meanwhile, OPSS (Ortho-pyridyldisulfide) reacts readily with free thiol groups at pH 4.5~8.5 to form a cleavable disulfide bond. A UV traceable thiopyridine is released during reaction which can be used to monitor the progress of the reaction. Reaction between pyridyldisulfide and thiol enables fast and specific conjugation of fluorescein dye to various molecules and materials. Meanwhile, disulfide bond formed during reaction can be cleaved when necessary. PEG linker between OPSS and FITC offers good water solubility, flexible linker length and enhanced stability.

Product Structure:



Product Specifications:

- Composition: **OPSS PEG Fluorescein.**
- Appearance: Orange/yellow solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Reactive group: Pyridyldisulfide.
- Reactive to: Sulfhydryl (thiol).
- Ex/Em wavelength: 495 nm/515 nm.

Handling and Use:

OPSS PEG Fluorescein is sensitive to light. For best use, material should always be kept in dark. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit www.nanocs.net.

Storage Conditions:

FITC PEG OPSS should be stored at 4 °C or lower. 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:

OPSS PEG NHS
OPSS PEG COOH
OPSS PEG DBCO

OPSS PEG NH₂
OPSS PEG Azide

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