

TECHNICAL DATA SHEET

OPSS PEG NHS, MW 1000, 2000, 3400, 5000, 10k, 20k

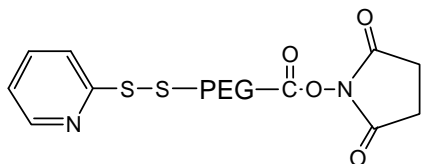
Catalog Numbers: PG2-NSOS-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: NHS PEG OPSS, PDP PEG NHS, NHS PEG PDP

Description:

OPSS PEG NHS is one of Nanocs' heterobifunctional polyethylene glycol crosslinkers that enable the crosslinking of molecules with thiol and amine groups. OPSS (ortho-pyridyldisulfide, **PDP**) is a commonly used sulfhydryl reactive group that reacts readily with free thiol groups at pH 4.5~8.5. Reaction between thiol and OPSS forms a cleavable disulfide bond. Meanwhile, NHS reacts quickly with primary amine groups at pH 7~10 to form a stable amide bond. PEG linker between OPSS and NHS offers better water solubility, flexible spacer structure and enhanced reactivity. Compared to other crosslinkers, PEG crosslinkers from Nanocs have more functionalities, higher stability and are easier to use. All reactions with those crosslinkers can be carried out in aqueous solution easily without need adding any organic solvents.

Product Structure:



Product Specifications:

- Composition: **OPSS PEG NHS.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, ethanol, chloroform, DMSO, etc.
- Reactive groups: OPSS, NHS.
- Reactive to: Sulfhydryl, amine.

Handling and Use:

OPSS PEG NHS is sensitive to moisture and temperature. For best use, material 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.

Storage Conditions:

NHS PEG OPSS 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:

OPSS PEG acid
OPSS PEG amine
Silane PEG OPSS
OPSS PEG azide

OPSS PEG FITC
OPSS PEG Biotin
DBCO PEG OPSS

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