

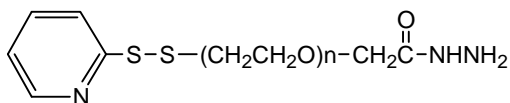
**TECHNICAL DATA SHEET****Hydrazide PEG PDP, MW 2000, 3400, 5000, 10k, 20k**

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

Synonym: PDP PEG hydrazide, OPSS PEG Hydrazide, Hydrazido PEG PDP, PDP PEG NHHH2

**Description:**

**PDP PEG Hydrazide** is one of Nanocs' thiol and ketone reactive PEG crosslinkers that can react with thiol and aldehyde groups. **PDP** (pyridylidithio propionate) is a commonly used sulfhydryl reactive group that reacts readily with free thiol groups at pH 4.5~8.5. Reaction between thiol and PDP forms a disulfide bond that can be cleaved by dithio reducing reagents such as DTT or TCEP. Meanwhile, **hydrazide** group can react with **aldehyde** or **ketone** groups derived from polysaccharides or glycoproteins. Reaction between hydrazide and ketone group results in a stable hydrazone linkage, which is more stable than the Schiff base formed between amine and aldehyde group. PEG linker between PDP and hydrazide 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: **Hydrazide PEG PDP.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO, etc.
- Reactive groups: PDP, hydrazide.
- Reactive to: Sulfhydryl, aldehyde.

**Handling and Use:**

**PDP PEG Hydrazide** 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](http://www.nanocs.net).

**Storage Conditions:**

**Hydrazide PEG PDP** 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:**

PDP PEG acid	PDP PEG FITC
PDP PEG amine	Biotin PEG PDP
Alkyne PEG PDP	DBCO PEG PDP
DSPE PEG PDP	PDP PEG Aminoxy

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