

TECHNICAL DATA SHEET

Azide PEG hydrazide

Catalog Numbers: PG2-AZHZ-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Azido PEG Hydrazide, Hydrazide PEG Azide, N₃-PEG-NHNH₂

Description:

Azide PEG Hydrazide is one of Nanocs Click Chemistry PEG derivatives that can react with **aldehyde** or **ketone** groups derived from polysaccharides or glycoproteins. Hydrazide reacts readily with aldehyde or ketone to form a stable hydrazone bond, which is more stable than the Schiff base formed between amine and aldehyde group. Reaction between hydrazide and carbonyl group allows the attachment of PEG azide to targeted molecules and other materials quickly and efficiently. Resulted azide group can be used to react with alkyne or cyclooctyne via Click Chemistry. PEG linker between azide and hydrazide group offers better water solubility, flexible linker structure and enhanced stability.

Product Structure:



Product Specifications:

- Composition: **Azide PEG hydrazide.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water and DMSO.
- Reactive groups: Azide and hydrazide.
- Reactive to: Aldehyde and alkyne.

Handling and Use:

Azide PEG hydrazide is relatively stable in low 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:

Hydrazide PEG Azide should be stored at 4–8 °C. Desiccate. Materials may be handled under inert gas for best stability. 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.

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