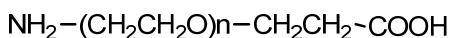


**TECHNICAL DATA SHEET****Amino PEG acid, NH<sub>2</sub>-PEG-COOH, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG2-AMCA-400, 600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Amine PEG acid, Carboxylic acid PEG amine, HOOC-PEG-NH<sub>2</sub>**Description:**

Nanocs' amine and carboxylic acid functionalized polyethylene glycol (**NH<sub>2</sub>-PEG-COOH**) is a heterobifunctional PEG crosslinkers that can be used to attach functional PEGs to biomolecules, particles and other materials surfaces. Carboxylic group reacts with amine group to form a stable amide bond. It can also react with hydroxyl group to form a labile ester bond. Amine groups, on the other hand, can be used for reactions with many amine reactive groups, such as succinimidyl NHS ester, aldehyde, etc. PEG chain between amino and carboxyl group offers better water solubility and flexible linker length. PEGylation can increase solubility of modified materials. It can also increase stability and reduce immunogenicity of pegylated peptides and proteins. In addition, pegylation suppresses the non-specific binding of charged molecules to the modified surfaces.

**Product Structure:****Product Specifications:**

- Composition: **Amine PEG acid.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO, etc.
- Reactive groups: NH<sub>2</sub>, COOH.

**Handling and Use:**

**Amino PEG acid** 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:**

**Amine PEG acid** should be stored at 4 °C or lower. 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.**

**Related Products:**

HO PEG NH <sub>2</sub>	NH <sub>2</sub> PEG NH <sub>2</sub>
NH <sub>2</sub> PEG Azide	HS PEG NH <sub>2</sub>
NH <sub>2</sub> PEG Biotin	FITC PEG NH <sub>2</sub>

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