

TECHNICAL DATA SHEET

Methoxy PEG Phosphate, MW 350, 550, 750, 1k, 2k, 3k, 5k, 10k, 20k, 30k, 40k

Catalog Numbers: PG1-PA-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

Synonym: Methoxypolyethylene glycol phosphate, mPEG-phosphate, mPEG phosphoric acid, mPEG phosphonic acid, polyethylene glycol methyl ether phosphate

Description:

Nanocs' **methoxypolyethylene glycol phosphate** (**mPEG-phosphate**), also called PEG phosphoric acid or PEG phosphonic acid, is a monofunctional polyethylene glycol phosphate derivative that can be used to modify metal oxide surface, such as titanium dioxide, aluminum oxide, and tantalum oxide. Phosphoric or phosphonic acid can form self-assembled monolayer on the surface of metal oxide. Meanwhile, PEG linker attached to the phosphate group provides resistance of non-specific absorption on the modified surface.

Storage Conditions:

Phosphate PEG products should be stored at 4-8 ^oC. 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.

Product Structure:

Product Specifications:

- Composition: Methoxy PEG Phosphate.
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, ethanol, chloroform, DMSO.
- Stability: 12 months at 4-8 °C.

Handling and Use:

PEG phosphate products 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**.

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