NANOCS

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TECHNICAL DATA SHEET

Methoxypolyethylene glycol succinimidyl ester, mPEG-NHS

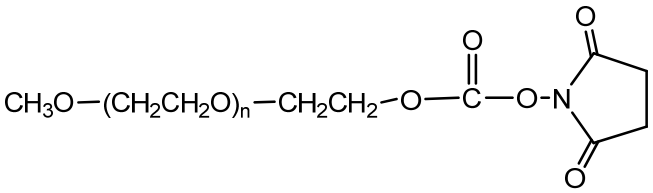
Catalog Numbers: PG1-SC-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

Synonym: Methoxy PEG NHS, mPEG-NHS, mPEG SC, NHS PEG, PEG succinimidyl carbonate, mono PEG NHS, Polyethylene glycol N-succinimidyl ester

Description:

N-hydroxylsuccinimide (NHS) functionalized methoxy polyethylene glycol (**mPEG-NHS**) is an amine ($-NH_2$) reactive PEG derivative that can be used to modify proteins, antibodies, peptides and many other materials via their available amino groups. NHS esters react with primary amine group at pH 7~10 to form a stable amide bond. Reaction between NHS and amine allows fast and efficient attachment of PEG to reacting molecules. Compared to other PEG NHS ester derivatives, Nanocs' activated **succinimidyl carbonate** (SC) PEG (**mPEG-NHS/SC**) ester offers superior reactivity and higher stability in aqueous solution. **NHS PEG** products provided by Nanocs have high purity, narrow molecular weight distribution and excellent reactivity. Primary amines react with **NHS PEG** esters by nucleophilic attack and NHS is released as a byproduct. Hydrolysis of the NHS-ester competes with the reaction in aqueous solution and increases with increasing pH.

Product Structure:



Product Specifications:

- Composition: **mPEG succinimidyl NHS.**
- Appearance: White/Off-white solid or semi-solid.
- Purity: > 95%;
- Solubility: 10 mg/mL, clear in water, chloroform and DMSO.
- Reactive group: NHS.
- Reactive to: Primary amine.

Handling and Use:

PEG NHS esters readily undergo hydrolysis at elevated temperature. At alkaline pH, NHS reacts faster with primary amine groups. All **NHS PEG** 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**.

Storage Conditions:

All **NHS PEG** products should be stored at -20 ^{0}C. Desiccate. Materials may be handled under inert gas for best stability.

This product is for research use only and is not intended for use in humans or for diagnostic use.

Related Products:

mPEG propionic acid NHS
mPEG amide succinic acid NHS
mPEG succinic acid NHS
mPEG glutaric acid NHS
Thiol PEG NHS
Azide PEG NHS
NHS PEG NHS
Maleimide PEG NHS

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