

TECHNICAL DATA SHEET

Methoxypolyethylene Glycol Succinimidyl Carbonate Ester, mPEG-NHS(SC)

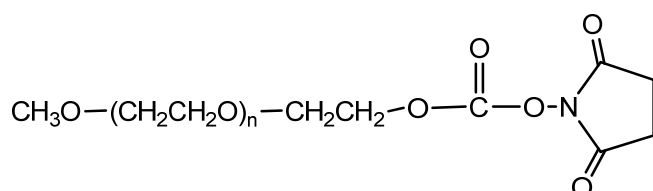
Catalog Numbers: PG1-SC-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

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

Description:

N-hydroxysuccinimide (NHS) functionalized methoxy polyethylene glycol (**mPEG-NHS**) is an amine (-NH₂) reactive PEG derivative that can be used to modify protein, peptide or any other surfaces with available amino groups. NHS esters react with primary amine groups at pH 7~10 to form stable amide bonds. Compared to other PEG NHS ester derivatives, Nanocs' activated **succinimidyl carbonate** (SC) methoxy PEG (**mPEG-NHS/SC**) ester offers superior reactivity and higher stability in aqueous solution. Methoxy **PEG NHS** 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 carbonate NHS.
- Appearance: White/Off-white solid or semi-solid depends on molecular weight.
- Purity: > 95%;
- Solubility: 10 mg/mL, clear in water, chloroform and DMSO.
- Stability: >6 months at -20 °C.

Handling and Use:

PEG succinimidyl 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 °C. Desiccate. Protect from light. 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	Thiol PEG NHS
mPEG amide succinic acid NHS	Azide PEG NHS
mPEG succinic acid NHS	NHS PEG NHS
mPEG glutaric acid NHS	Maleimide PEG NHS

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