

TECHNICAL DATA SHEET**Methoxypolyethylene glycol thiol, mPEG Thiol**

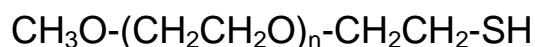
Catalog Numbers: PG1-TH-350, 550, 750, 1k, 2k, 3k, 5k, 10k, 20k, 30k, 40k.

CAS number: 401916-61-8 | Linear Formula $\text{CH}_3\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{CH}_2\text{CH}_2\text{SH}$ | MDL number MFCD00803682

Synonym: Methoxy PEG thiol, mPEG-SH, MeO-PEG-SH, PEG thiol, Thiol PEG, mPEG thiol, Mercaptopolyethylene glycol methyl ether

Description:

Nanocs' thiol/sulfhydryl (-SH) functionalized methoxy polyethylene glycol (**mPEG-SH**) is a monofunctional PEG derivative that can be used to modify proteins, peptides, particles and other materials with its free thiol group. Thiol group has high affinity toward gold surfaces and **mPEG thiol** has been used widely for gold particles and gold films surface modification. In addition, sulfhydryl group can react with many other thiol reactive molecules. **Thiol PEG** products provided by Nanocs have high purity, narrow molecular weight distribution and excellent reactivity. These PEG thiol derivatives have been successfully used in medical devices, diagnostics and drug development. Pegylation with our products significantly improves the solubility and stability of modified molecules. It also reduces the immunogenicity and non-specific absorption of PEG modified targets.

Product Structure:**Product Specifications:**

- Composition: mPEG Thiol.
- Appearance: White/light yellow solid, semi-solid or liquid depends on molecular weight.
- Purity: > 95%.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Stability: >6 months at -20 °C.

Handling and Use:

PEG thiol derivatives undergo oxidation process once exposed to the air. All thiol 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:

PEG thiol should be stored at -20 °C. Desiccate. Protect from light. Materials may be handled under inert gas for best stability. Re-test material after 6 months.

Nanocs PEG thiol products are for research use only and is not intended for use in humans or for diagnostic use.

Related Products:

HS-PEG-COOH	HS-PEG-NH ₂
HS-PEG-SH	HS-PEG-N ₃
Biotin PEG Thiol	Fluorescent PEG Thiol
Multi arm PEG Thiol	

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