

Thiol PEG reagent, m-PEG12-thiol, Purity $\geq 95\%$

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

Description	This monodisperse functionalized polymer features a methyl-capped dodecaethylene glycol (m-PEG12) chain terminated with a free thiol group. The thiol handle reacts with maleimides, pyridyldisulfides, or coordinates to gold surfaces. The methyl-terminated PEG12 chain provides a non-reactive, highly hydrophilic shield that reduces non-specific interactions.
Molecular Weight	576.7
Molecular Formula	C ₂₅ H ₅₂ O ₁₂ S
Functional Group 1	Thiol
Reactive Group 1	Maleimide
Reactive Group 2	Pyridyldisulfide
IUPAC Name	2-[2-[2-[2-[2-[2-[2-[2-[2-(2-methoxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethanethiol
InChI	InChI=1S/C25H52O12S/c1-26-2-3-27-4-5-28-6-7-29-8-9-30-10-11-31-12-13-32-14-15-33-16-17-34-18-19-35-20-21-36-22-23-37-24-25-38/h38H,2-25H2,1H3
InChI Key	MXDXXEVQFMVAIA-UHFFFAOYSA-N
Canonical SMILES	COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCS
Purity	≥95%
Applications	This product can be used for passivating gold or material surfaces, modifying maleimide-functionalized carbohydrates, and evaluating PEGylation effects in vitro.
Storage	Store at -20°C.