

Product Information

Thiol/Alcohol PEG reagent, Thiol-PEG3-alcohol, Purity ≥95%

Cat. No.: X26-09-ZQ399

Size: 1 g

CAS Number: 56282-36-1

PubChem CID: 548394

Synonym: Thiol-PEG3-hydroxyl; Mercapto-PEG3-alcohol; Thiol-triethylene glycol-alcohol; Mercapto-polyethylene glycol3-alcohol; Thiol-PEG3-hydroxy

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

Product Information

Description	This product is a short monodisperse polyethylene glycol (PEG) linker containing a reactive terminal thiol group and a primary hydroxyl group. The thiol moiety enables efficient conjugation to gold surfaces or maleimide-functionalized molecules <i>via</i> disulfide or thioether linkage. The hydroxyl terminus offers opportunities for further chemical derivatization or hydrophilic modification.
Molecular Weight	166.2
Molecular Formula	C ₆ H ₁₄ O ₃ S
Functional Group 1	Thiol
Functional Group 2	Alcohol
Reactive Group 1	Maleimide
Reactive Group 2	Pyridyldisulfide
Reactive Group 3	Carboxylic acid
IUPAC Name	2-[2-(2-sulfanylethoxy)ethoxy]ethanol
InChI	InChI=1S/C6H14O3S/c7-1-2-8-3-4-9-5-6-10/h7,10H,1-6H2
InChI Key	KXSLUQUKENLMJW-UHFFFAOYSA-N
Canonical SMILES	C(COCCOCCS)O
Purity	≥95%
Applications	This product can be used to modify gold nanoparticle surfaces for enhanced colloidal stability, functionalize biosensor interfaces, and prepare custom PEGylated bio-conjugates for biophysical analysis and material chemical research.
Storage	Store at -20°C.