

## Hydroxy-PEG3-thiol

http://www.lumiprobe.com/p/hydroxy-peg3-thiol-56282-36-1

A bifunctional PEG3-based linker with thiol (SH-) and hydroxyl (OH-) functional groups. Thiols are nucleophilic and participate in many reactions with electrophiles.

Thiols rapidly react with gold surfaces and nanoparticles, forming self-assembled monolayers (SAMs). Thiol reagent can be used to cover gold with a hydrophilic monolayer.

0. SH HO<sup>2</sup> ۰O´

Structure of Hydroxy-PEG3-thiol

## **General properties**

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|---------------------|---|
| Appearance:         | colorless liquid  |
| Molecular weight:   | 166.24  |
| CAS number:         | 56282-36-1  |
| Molecular formula:  | $C_{6}H_{14}O_{3}S$   |
| IUPAC name:         | 2-[2-(2-mercaptoethoxy)ethoxy]ethanol   |
| Solubility:         | miscible with water and many organic solvents   |
| Quality control:    | NMR <sup>1</sup> H and HPLC-MS (95+%)   |
| Storage conditions: | 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.  |
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