

## 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.



**Structure of Hydroxy-PEG3-thiol**

---

### General properties

Appearance: colorless liquid

Molecular weight: 166.24

CAS number: 56282-36-1

Molecular formula: C<sub>6</sub>H<sub>14</sub>O<sub>3</sub>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 receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.