

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: C₆H₁₄O₃S

IUPAC name: 2-[2-(2-mercaptoethoxy)ethoxy]ethanol

Solubility: miscible with water and many organic solvents

Quality control: NMR ¹H 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.

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