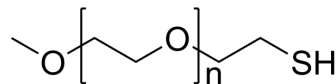


m-PEG-thiol (MW 3400)

<b>Cat. No.:</b>	HY-W591476A
<b>CAS No.:</b>	134874-49-0
<b>Molecular Formula:</b>	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>3</sub> H <sub>8</sub> OS
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

m-PEG-thiol (MW 3400) modifies DNA thiolation for the synthesis of gold nanorods (AuNRs). Thiolated DNA can be loaded onto AuNR by the mPEG-SH/Tween 20 assisted method (Tween 20 and mPEG-SH repeatedly displace CTAB on the AuNR surface). DNA AuNRs have been widely used in nanostructure assembly, gene therapy, biosensing, and drug delivery.

## REFERENCES

[1]. Li J, et al. Simple and Rapid Functionalization of Gold Nanorods with Oligonucleotides Using an mPEG-SH/Tween 20-Assisted Approach. *Langmuir*. 2015 Jul 21;31(28):7869-76.

Caution: Product has not been fully validated for medical applications. For research use only.

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