m-PEG-thiol (MW 3400)

Cat. No.: HY-W591476A

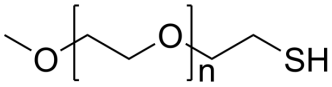
CAS No.: 134874-49-0

Molecular Formula: $(C_2H_4O)nC_3H_8OS$

Target: Liposome

Pathway: Metabolic Enzyme/Protease

Storage: 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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