

Product Data Sheet

Product Name: O-(2-Mercaptoethyl)-O'-methylpolyethylene glycol

Cat. No.: GF05188

Chemical Properties

Cas. No. 134874-49-0

Formula C₂₅H₅₂O₁₂S

M.Wt 576.74

Solubility DMSO : 100 mg/mL (Need ultrasonic)

Storage 2-8°C, sealed storage, away from moisture,

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

m-PEG-thiol (MW 1000) 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.

[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.

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