

Materials List for:

Synthesis of Functionalized 10-nm Polymer-coated Gold Particles for Endothelium Targeting and Drug Delivery

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Materials

Name	Company	Catalog Number	Comments
Sodium hydroxide (NaOH)	Sigma Aldrich	795429	
Gold (III) Chloride trihydrate (HAuCl ₄ ·3H ₂ O)	Sigma Aldrich	520918	
Sodium bicarbonate	Sigma Aldrich	S5761	
Tetrakis (hydroxymethyl) phosphonium chloride	Sigma Aldrich	404861	
Mono-functional mPEG-thiol	Layson Bio Inc.	MPEG-SH-2000-1g	Mw: 2,000 Da
hetero bi-functional anime-PEG-thiol	Layson Bio Inc.	NH2-PEG-SH-3400-1g	Mw: 3,400 Da
Carboxymethyl-PEG-thiol	Layson Bio Inc.	CM-PEG-SH-2000-1g	Mw: 2,000 Da
Cellulose dialysis membrane (12-14 kDa)	Sigma Aldrich	D9777	
Zerostat anti-static instrument	Sigma Aldrich	Z108812	
Alexa Fluor 647 (AF647) carboxylic acid succinimidyl ester	Fisher	A20006	Fluorophore
Fisherbrand Qualitative Grade Plain Filter Paper Circles - P5 grade	Thermo Fisher Scientific	09-801-B	
Transmission electron microscopy	JEOL USA	JEOL JEM-1000	TEM
Dynamic Light Scattering	Brookhaven Instruments Corporation	Brookhaven 90 Plus Particle Size Analyzer	DLS
Fluorometer	Horiba Scientific	Jobin Yvon Fluoromax 4	Fluorometer
CellTiter 96 AQueous One Solution Cell Proliferation Assay (MTS)	Promega	G3582	MTS
Plate reader	Molecular Devices	SpectraMax M4	Plate reader
10E4 epitope HS mouse monoclonal IgM antibody (primary antibody)	Amsbio	370255	Primary antibody
Alexa Fluor 488 goat anti-mouse IgG (secondary antibody)	Thermo Fisher Scientific	R37120	Secondary antibody
VECTASHIELD mounting medium with DAPI	Vector Laboratories	H-1000	With DAPI
Confocal Microscope	Carl Zeiss Meditex AG	Zeiss LSM 700	Confocol microscopy