

Materials List for:

A Tripeptide-Stabilized Nanoemulsion of Oleic Acid

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Materials

Name	Company	Catalog Number	Comments
2-(1H-benzotriazole-1-yl)-1,1,3,3-tetramethyluronium tetrafluoroborate (TBTU)	ANASPEC INC.:	AS-20376	SPPS
4-well chamber confocal dish	Lab-Tek II, Thermo Fisher Scientific	154526	For imaging
6-bromohexanoic acid	Chem-Impex INT'L INC.	24477	Click modification for peptide
A2780	Generously doanted by professor John Martignetti from The Mount Sinai Hospital		Ovarian cancer cell line
Barnstead Nanopure	Thermo Fisher	D11901	water filtration system
BUCHI rotavapor R-3	Buchi	Z568090	For solvent removal and sample drying
Centrifuge 5810 R	eppendorf	5811F	For platinum complex separation
Cis-dichlorodiamineplatinum (II) 99%	Acros Organics	19376-0050	in vitro tests
CP70	Generously doanted by professor John Martignetti from The Mount Sinai Hospital		Ovarian cancer cell line
Digital water bath	VWR	97025-134	For warming up media for cell culture
Dynamic Light Scattering (DLS)	Brookhaven Instrument Corporation		For nanoparticle size measurments
ES-2	ATCC	CRL-1978	ovarian cancer cell line
Fmoc-L-Lys(Boc)-OH 99.79%	Chem-Impex INT'L INC.	00493	SPPS
Fmoc-L-Phe 4-alkoxybenzyl alcohol resin (0.382 meq/g),	Chem-Impex INT'L INC.	01914	SPPS
Fmoc-L-Tyr(tBu)-OH 98%	Alfa Aesar	H59730	SPPS
HERACELL 150i CO2 incubator	Thermo Scientific Fisher		incubator
High pressure syringe pump	New Era	1010-US	For platinum complex addition in nanoparticle synthesis
Hotplate/stirrer	VWR	12365-382	For sample stirring and heating
LAMP-1 Antibody(cojugated with Alexa Fluor 647)	Santa Cruz Biotechnology	sc-18821 AF647	For imaging
N,N-diisopropylethylamine (DIPEA)	Oakwood Chemical	005027	SPPS
Ninhydrin 99%	Alfa Aesar	A10409	Kaiser test
Oleic acid	Chem-Impex INT'L INC.	01421	For platinum complex synthesis

OV90	ATCC	CRL-11732	Ovarian cancer cell line
PBS	Corning	21-031-CV	For cell wash
Permount mounting medium	Fisher Chemical	SP15-100	For imaging
Phenol	Fisher Chemical	A92500	Kaiser test
Phosphotungstic acid	Fisher Chemical	A248-25	negative stain for TEM
Piperidine 99%	BTC	219260-2.5L	SPPS
Platinum AAS standard solution	Alfa Aesar	88086	1000ug/ml for calibration curve
Propargyl bromide 97%	Alfa Aesar	L10595	For alkyne modification of fluoresceine
Scientific biological cabinet	Thermo Scientific Fisher	1385	Bio-hood for cell culture
Self-Cleaning Vacuum System	Welch	2028	Vacuum pump for rotavapor
Silver nitrate	Acros Organics	19768-0250	Cisplatin activation
SKOV3	ATCC	HTB-77	Ovarian cancer cell line
Sodium hydroxide	Fisher Scientific	S313-1	For platinum complex synthesis
Tin (II) chloride	Sigma Aldrich	208256	Test for Platinum presence
TOV21G	ATCC	CRL-11730	Ovarian cancer cell line
Trifluoroacetic acid 99% (TFA)	Alfa Aesar	L06374	SPPS
Triisopropylsilane (TIPS)	Chem-Impex INT'L INC.	01966	SPPS
Triton-X	Sigma Aldrich	T8787-100ML	For imaging
Uranine powder 40%	Fisher Scientific	S25328A	For alkyne modification of fluoresceine
Vivaspin 20 (10000 MWCO)	Sartorius	VS2001	For Nanoparticle wash and condensation
VWR Inverted Microscope	VWR	89404-462	For cell culture monitoring