

Materials List for:

Genetic Encoding of a Non-Canonical Amino Acid for the Generation of Antibody-Drug Conjugates Through a Fast Bioorthogonal Reaction

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Materials

Name	Company	Catalog Number	Comments
Expi293F	ThermoFisher Scientific	A14527	HEK suspension cells
Expi293 Expression Medium	ThermoFisher Scientific	A1435101	Expression medium
Antibiotic-antimycotic	ThermoFisher Scientific	15240062	Penicillin-streptomycin-amphotericin B
125mL Polycarbonate Erlenmeyer Flask with Vent Cap	Corning	431143	Shake flasks
Brunswick S41i incubator	Eppendorf	S41I230011	CO2 incubator with a shaker
Sodium hydroxide 4 mol/l (4 N) in aqueous solution	VWR	191373M	
Cyclopropene lysine	Sichem	SC-8017	In this study it was synthesized as described by Elliot et al. 2014
Steriflip-GP, 0.22 µm, polyethersulfone, gamma irradiated	Merck Millipore	SCGP00525	
Opti-MEM, Reduced Serum Medium	ThermoFisher Scientific	31985070	Reduced serum medium
ExpiFectamine 293 Transfection Kit	ThermoFisher Scientific	A14525	Transfection reagent
5810 R centrifuge	Eppendorf	5811000460	
Millex-GP Syringe Filter Unit, 0.22 µm, polyethersulfone, 33 mm, gamma sterilized	Merck Millipore	SLGP033RS	
Protein A resin	Sino Biological	10600-P07E-RN-25	
Poly-Prep Chromatography Columns, Pkg of 50	Bio-Rad	7311550	Polypropylene chromatography column
Econo-Column Funnel	Bio-Rad	7310003	
Sodium citrate	Fluka	71635	
ÅKTA explorer FPLC	GE Healthcare		
HiTrap HIC Selection Kit	GE Healthcare	28-4110-07	Includes HiTrap 1 mL Butyl HP
Ammonium sulfate	VWR	2133.296	
Isopropanol	Honeywell	34863-2.5L	
Dymethyl sulfoxide	Sigma-Aldrich	D8418-50ML	
Tetrazine-vcMMAE	ChemPartner	-	Costum synthesized
Tetrazine-5-TAMRA	Jena Bioscience	CLK-017-05	
NuPAGE 4-12% Bis-Tris Gel 1.0mm x 10 well	ThermoFisherScientific	NP0321BOX	
Xcell SureLock Mini-Cell	ThermoFisherScientific	EI0001	
UltiMate 3000 HPLC	ThermoFisherScientific		

Thermo Scientific MAbPac, HIC-20, 4.6 x 100 mm, 5 µm	ThermoFisherScientific	088553	
PNGase F	New England BioLabs	P0704S	
NanoAcquity	Waters		
C4 BEH 1-5 µm 1.0 x 100 mm UPLC column	Waters		
96-well microplates for cell culture	ThermoFisherScientific	156545	
Human serum	Sigma-Aldrich	H4522-20mL	
CO2 incubator	Panasonic		
HER2 ECD	Sino Biological	10004-HCCH	
Anti-TAMRA	Abcam	an171120	
Anti-mouse HRP	Santa Cruz	sc-2005	
TMB	BioLengend	421101	
Sulfuric acid	Sigma-Aldrich	84727-500ML	
PERAstar FS	BMG Labtech		Plate reader
DMEM	Sigma-Aldrich	D5671-500ML	
SK-BR-3	ATCC	HTB-30	
MCF-7	ATCC	HTB-22	
CellTiterGlo 2.0 Assay	Promega	G9242	Cell viability assay based on the measurement of ATP released after cell lysis. The output signal is luminescence.
Monomethyl Auristatin E	Cayman Chemical	16267	
NanoDrop 2000	ThermoFisherScientific		Microvolume spectrophotometer
Human IgG ELISA Quantification Set	Bethyl	E80-104	
MaxEnt1 in MassLynx	Waters		Software application for mass spectrum deconvolution
InstantBlue	Expedeon	ISB1L	Coomassie-based stain
Intact MMAE-ADC ELISA Kit (Sandwich Assay)	Epitope Diagnostics, Inc.	KTR 782	
Tube 50 mL, 114x28mm, PP	Sarstedt	62.547.254	Conical tube
Amicon Ultra-15 Centrifugal Filter Units 50,000 NMWL	Merck	UFC905024	Centrifugal filtration concentrator (after protein A pull down)
Amicon Ultra-4 Centrifugal Filter Units 50,000 NMWL	Merck	UFC805024	Centrifugal filtration concentrators (after FPLC or HPLC purification)
Zeba Spin Desalting Columns, 7K MWCO, 0.5 mL	ThermoFisherScientific	89882	Size exclusion spin columns
Tube PCR 0.2ml Flat Cap	Thistle Scientific Ltd	AX-PCR-02-C-CS	PCR tubes
Nunc MaxiSorp® flat-bottom	ThermoFisherScientific	44-2404-21	Plates for ELISA