

Materials List for:

Simultaneous Affinity Enrichment of Two Post-Translational Modifications for Quantification and Site Localization

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Materials

Name	Company	Catalog Number	Comments
1 M Triethylammonium biocarbonate buffer (TEAB)	Sigma Aldrich, St. Louis, MO, USA	T7408	
Acetonitrile, Burdick and Jackson LC-MS grade	Burdick and Jackson, Muskegon, MI, USA	36XL66	
Bioruptor sonicator	Diagenode, Denville, NJ, USA	B01020001	
C18 pre-column chip (200 µm x 6 mm ChromXP C18-CL chip, 3 µm, 120 Å)	SCIEX, Framingham, MA, USA	5015841	
C18-CL chip (75 µm x 15 cm ChromXP, 3 µm, 300 Å)	SCIEX, Framingham, MA, USA	804-00001	
Dithiothreitol (DTT)	Sigma Aldrich, St. Louis, MO, USA	D9779-5G	
Eppendorf Thermomixer Compact	Eppendorf AG, Hamburg, Germany	T1317-1EA	
Eppendorf Tube (2.0 mL Safelock)	Eppendorf AG, Hamburg, Germany	22363352	
Formic acid	Sigma Aldrich, St. Louis, MO, USA	F0507-500ML	
Indexed retention time (iRT) normalization peptide standard	Biognosys AG, Schlieren, Zurich, Switzerland	Ki-3002-2	
Iodoacetamide (IAA)	Sigma Aldrich, St. Louis, MO, USA	I1149-25G	
mapDIA		web link	software for interference removal of DIA datasets
Methanol, Burdick and Jackson LC-MS grade	Burdick and Jackson, Muskegon, MI, USA	BJLC230-4	
PURELAB flex 1 ultrapure water dispenser	VWR International, Radnor, PA, USA	89204-088	
mProphet in Skyline		incorporated in Skyline	integrated statistical algorithms for FDR assessments
Oasis HLB SPE cartridges	Waters Corp., Milford, MA, USA	WAT094225	cartridges for desalting protein lysates, up to 50 mg material
Phosphate buffered saline solution	Life Technologies	10010023	
Pierce BCA Assay	Thermo Fisher Scientific, Waltham, MA, USA	23225	
ProteinPilot 5.0 - 'MS database search engine'	SCIEX, Framingham, MA, USA	software download SCIEX	MS database search engine
PTMScan Succinyl-Lysine Motif [Succ-K] Kit #13764	Cell Signaling Technology	13764	antibody beads for affinity enrichment
PTMScan Acetyl-Lysine Motif [Ac-K] Kit #13416	Cell Signaling Technology	13416	antibody beads for affinity enrichment
Sequencing-grade lyophilized trypsin	Life Technologies	23225	
Skyline - 'Quantitative Proteomics Software'	MacCoss lab (academic)	open source software	Quantitative Proteomics Software (academic)

Spectronaut - 'DIA Quantitative Analysis Software'	Biognosys AG, Schlieren, Zurich, Switzerland	Sw-3001	DIA Quantitative Analysis Software / PTM site localization
Thermo Scientific Savant SPD131DDA Speedvac Concentrator	Thermo Fisher Scientific, Waltham, MA, USA	SPD131DDA-115	instrument to concentrate liquid volume of samples
TissueLyser II	Qiagen, Hilden, Germany	85300	instrument for efficient lysis of tissue
Trifluoroacetic acid (TFA)	Sigma Aldrich, St. Louis, MO, USA	T6508-1L	
TripleTOF 6600: orthogonal quadrupole time-of-flight (QqTOF) mass spectrometer	SCIEX, Framingham, MA, USA	Per quote	high resolution mass spectrometer
Ultra Plus nano-LC 2D HPLC system	SCIEX, Eksigent Division, Framingham, MA, USA	Model #845	chromatographic separation system
Urea	Thermo Fisher Scientific, Waltham, MA, USA	PI29700	
Water, Burdick and Jackson LC-MS	Burdick and Jackson, Muskegon, MI, USA	600-30-76	
ZipTip C18 Pipette Tips, P10	Merck Millipore Ltd, Tullagreen, Carrigtwohill, Co. Cork, IRL	ZTC18S096	C-18 resin loaded tips for desalting of peptide mixtures