

Materials List for:

Fully Processed Recombinant KRAS4b: Isolating and Characterizing the Farnesylated and Methylated Protein

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Materials

Name	Company	Catalog Number	Comments
1.8 mL Safe-Lock Tubes, Natural	Eppendorf	22363204	
11 mm CI SS Interlocked Insert Autosampler Vials	Thermo Scientific	30211SS-1232	
1-palmitoyl-2-oleoyl-glycero-3-phosphocholine (POPC)	AVANTI POLAR LIPIDS	850457	purchase as liquid stocks in chloroform
1-palmitoyl-2-oleoyl-glycero-3-phospho-L-serine (POPS)	AVANTI POLAR LIPIDS	840034	purchase as liquid stocks in chloroform
5427R Centrifuge	Eppendorf		
Acetonitrile, HPLC Grade	Fisher Chemical	A998-1 1L	
Ammonium Acetate	Sigma-Aldrich	09689-250g	
Argon gas	Airgas	ARUP	
Assay Plate 384	CORNING	3544	
Biacore T200 Instrument	GE Healthcare		
Blue Snap-It Seals, T/S	Thermo Scientific	C4011-54B	
Branson Ultrasonic Bath	Thermo Fisher	15-336-1000	
Cation Exchange Chromatography (CEX) column	GE Healthcare Life Sciences	29018183	HiPrep SP Sepharose High Performance
CHAPS	Sigma	C3023	
Dyna Pro Plate Reader	Wyatt Technologies		
Exactive Plus EMR Mass Spectrometer	Thermo Scientific		
Formic Acid	Sigma-Aldrich	F0507-500MI	Use Reagent Grade or better
Gilson vials 7x14 mm Tubes	GE Healthcare	BR-1002-12	
Glass screw thread vials with PTFE foam liners	Scientific Specialities	B69302	
High speed/benchtop centrifuge	Thermo Fischer Scientific	05-112-114D	capable of up to 4,000 xg
His6-Tobacco Etch Virus (TEV) protease	Addgene	92414	Purified as per Raran-Kurussi et al. (2017) Removal of Affinity Tags with TEV Protease. In: Burgess-Brown N. (eds) Heterologous Gene Expression in E.coli. Methods in Molecular Biology, vol 1586. Humana Press, New York, NY
Immobilized Metal Affinity Chromatography (IMAC) column	GE Healthcare Life Sciences	28-9365-51	HisPrep FF 16/10
In-House Water Supply, Arium Advance	Sartorius Stedim		Resistivity of 18 MΩ-cm
Lipid extruder set with holder	AVANTI POLAR LIPIDS	610023	
Liquid nitrogen	Airgas	NI-DEWAR	

M110-EH microfluidizer	Microfluidics		
MabPac RP UHPLC Column, 4 um, 3.0 x 50 mm	Thermo Scientific	088645	
MabPac SEC-1 Column, 5 um, 300 Å, 2.1 x 150 mm	Thermo Scientific	088790	
MagTran software	Thermo Scientific		
Methanol, HPLC Grade	VWR Chemicals	BDH20864.400	
NGC Chromatography System	BioRad	78880002	NGC Quest™ 100 Chromatography system
Protease Inhibitor Cocktail without EDTA or other chelators	Millipore Sigma	P8849	
Rubber Caps type 3	GE Healthcare	BR-1005-02	
Series S Sensor Chip L1	GE Healthcare	29104993	
Spectrophotometer	Thermo Fischer Scientific	13-400-519	Absorbance at 280nm
Ultra-15 Centrifugal Filter Units, 10K NMWL	Millipore Sigma	UFC901008	PES membrane
Ultracel 10K MWCO Ultra 0.5 mL Centrifuge Filters	Amicon	UFC501024	
Ultracentrifuge	Beckman Coulter	Optima - L80K	capable of 100,000 xg
Vanquish UHPLC (Pump, Column Hearer, and LC System)	Thermo Scientific		
Vortex Genie 2	Fisher	12-812	
Water, HPLC Grade	Sigma-Aldrich	270733-1L	May use in-house water source (see below)
Whatman GD/XP PES 0.45 mm syringe filter	GE Healthcare - Whatman	6994-2504	
Xcalibur QualBrowser	Thermo Scientific		proteomics software