

Bottom-Up *In Vitro* Methods to Assay the Ultrastructural Organization, Membrane Reshaping, and Curvature Sensitivity Behavior of Septins

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Materials

Name	Company	Catalog Number	Comments
1,2-dioleoyl-sn-glycero-3-phosphoethanolamine	Avanti Polar Lipids	850725	
1,2-dioleoyl-sn-glycero-3-phospho-L-serine	Avanti Polar Lipids	840035	
Bath sonicator	Elma		Elmasonic S10H
Bodipy-TR-Ceramide	invitrogen, Thermo Fischer scientific	11504726	
Chemicals: NaCl, Tris-HCl, sucrose, KCl, MgCl ₂ , B-casein, chloroform, sodium cacodylate, tannic acid, ethanol	Sigma Aldrich		
Confocal microscope	nikon		spinning disk or confocal
Critical point dryer	Leica microsystems		CPD300
Deionized water generator	MilliQ	F1CA38083B	MilliQ integral 3
Egg L-α-phosphatidylcholine	Avanti Polar Lipids	840051	
Field Emission Gun SEM (FESEM)	Carl Zeiss		Gemini SEM500
Glutaraldehyde 25 %, aqueous solution	Thermo Fischer scientific	50-262-19	
High vacuum grease, Dow corning	VWR		
IMOD software	https://bio3d.colorado.edu/imod/		software suite for tilted series image alignment and 3D reconstruction
Lacey Formvar/carbon electron microscopy grids	Eloise	01883-F	

Lipids	Avanti Polar Lipids		
L- α -phosphatidylinositol-4,5-bisphosphate	Avanti Polar Lipids	840046	
Metal evaporator	Leica microsystems		EM ACE600
NOA (Norland Optical Adhesives), NOA 71 and NOA 81	Norland Products	NOA71, NOA81	
Osmium tetraoxyde 4%	delta microscopies	19170	
Osmometer	Löser		15 M
Plasma cleaner	Alcatel		pascal 2005 SD
Plasma generator	Electron Microscopy Science		
Plunge freezing equipment	leica microsystems		EMGP
Transmission electron microscope	Thermofischer		Tecnai G2 200 kV, LaB6
Uranyl acetate	Electron Microscopy Science	22451	this product is not available for purchase any longer
Wax plates, Vitrex	VWR		