

Materials List for:

Structural Studies of Macromolecules in Solution using Small Angle X-Ray Scattering

Tyler Mrozowich¹, Steffane McLennan², Michael Overduin^{2,4}, Trushar R. Patel^{1,3,4}

¹Alberta RNA Research and Training Institute, Department of Chemistry and Biochemistry, University of Lethbridge

²Department of Biochemistry, University of Alberta

³Department of Microbiology, Immunology and Infectious Diseases, Cumming School of Medicine, University of Calgary

⁴DiscoveryLab, Faculty of Medicine & Dentistry, University of Alberta

Correspondence to: Michael Overduin at overduin@ualberta.ca, Trushar R. Patel at trushar.patel@uleth.ca

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Materials

Name	Company	Catalog Number	Comments
HEK 293 EBNA Cell Line	In-Lab availability	-	Cell line used to overexpress protein(s)
Ni Sepharose High Performance histidine-tagged protein purification resin	GE Healthcare	17524801	Affinity protein purification resin
Superdex 200 Increase 10/300	GE Healthcare	28990944	SEC Column
ÅKTA Pure FPLC	GE Healthcare	-	FPLC System
Nanodrop	Nanodrop	-	Spectrophotometer
Basic Reagents (NaCl, Tris-HCl etc.)			
S-MAX3000	Rigaku	-	SAXS Pinhole Camera System
Zetasizer Nano-S	Malvern Instruments Ltd	-	Dynamic Light Scattering instrument
0.1µm Filter	Millipore	JVWP04700	Used to Concentrate Sample Prior to DLS
Thrombin cleavage kit	abcam	ab207000	Thrombin cleavage to remove His tag
Strep-Tactin Sepharose Column	IBA	2-1201-010	Strep-Tag Affinity Purification
D-desthiobiotin	Sigma-Aldrich	533-48-2	Elution of Strep Tag Protein
Software			
SAXGUI	Rigaku	-	Data Collection for SAXS and data reduction
ATSAS Suit	Franke et al., 2017	-	SAXS Data Analysis Software program suite
PRIMUS	Konarev <i>et al.</i> , 2003	-	Buffer Subtraction
GNOM	Svergun, 1992	-	R _g , D _{max} and p(r) Calculation
DAMMIF	Franke and Svergun, 2009	-	<i>Ab initio</i> model calculation
DAMAVAR	Volkov and Svergun, 2003	-	Averaged Solution Conformation calculations
MONSA	Svergun, 1999	-	Simultaneous model fitting for the complex
GASBOR	Svergun <i>et al.</i> , 2001	-	Alternative <i>Ab initio</i> model calculations
DTS Software V6.20	Malvern Instruments Ltd	-	DLS supplied instrument software
PyMOL	Schrodinger, LLC.	-	The PyMOL Molecular Graphics System V2.0

The Protein Data Bank	Berman <i>et al.</i> , 2000	-	PDB ID: 1NPE
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