

Materials List for:

# Using X-ray Crystallography, Biophysics, and Functional Assays to Determine the Mechanisms Governing T-cell Receptor Recognition of Cancer Antigens

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## Materials

Name	Company	Catalog Number	Comments
S.O.C. media	Invitrogen		
Orbi-Safe New Orbit incubator	Sanyo		
carbenicillin	Sigma		
IPTG	Fisher		
Quick Coomassie Stain SafeStain	Generon		
Legend RT centrifuge	Sorvall		
Tris	Fisher		
magnesium chloride	Arcos		
NaCl	Fisher		
glycerol	Sigma-Aldrich		
Sonopuls HD 2070	Bandelin		
DNase	Fisher		
Triton	Sigma-Aldrich		
EDTA	Fisher		
guanidine	Fisher		
NanoDrop ND1000	Thermo		
Peptides	Peptide Protein Research		
dithiothreitol	Sigma-Aldrich		
L-arginine	SAFC		
cysteamine	Fisher		
cystamine	Fisher		
dialysis tubing	Sigma-Aldrich		
urea	Sigma-Aldrich		
Metricel 0.45 µm membrane filter	Pall		
POROS 10/100 HQ	Applied biosystems		
ÅKTA pure FPLC system	GE Healthcare Life Sciences		
10 kDa MWCO Vivaspin 20	Sartorius		
10 kDa MWCO Vivaspin 4	Sartorius		
Superdex 200 10/300 GL column	GE Healthcare Life Sciences		
Phosphate Buffer Saline	Oxoid		

BIAcore buffer HBS	GE Healthcare Life Sciences		
Biotinylation kit	Avidity		
BIAcore T200	GE Healthcare Life Sciences		
CM5 chip coupling kit	GE Healthcare Life Sciences		
streptavidin	Sigma-Aldrich		
Microcal VP-ITC	GE Healthcare Life Sciences		
Hepes	Sigma-Aldrich		
Gryphon crystallisation robot	Art Robbins Instruments		
Intelli-plate	Art Robbins Instruments		
Crystallisation screens and reagents	Molecular Dimensions		
75 cm <sup>2</sup> flask	Greiner Bio-One		
0.22 µm filters	Miller-GP, Millipore		
Ultra-Clear ultracentrifuge tube	Beckman Coulter		
Optima L-100 XP with SW28 rotor	Beckman Coulter		
CD8 microbeads	Miltenyi Biotec		
anti-CD3/CD28 Dynabeads	Invitrogen		
anti-PE microbeads	Miltenyi Biotec		
CK medium, PHA	Alere Ltd		
anti-TCRVβ mAb	BD		
dasatinib	Axon		
MIP-1β and TNFα ELISA	R&D Systems		
<sup>51</sup> Cr	PerkinElmer		
1450 Microbeta counter	PerkinElmer		