



T0987

HT and SEC SAXS are good quality

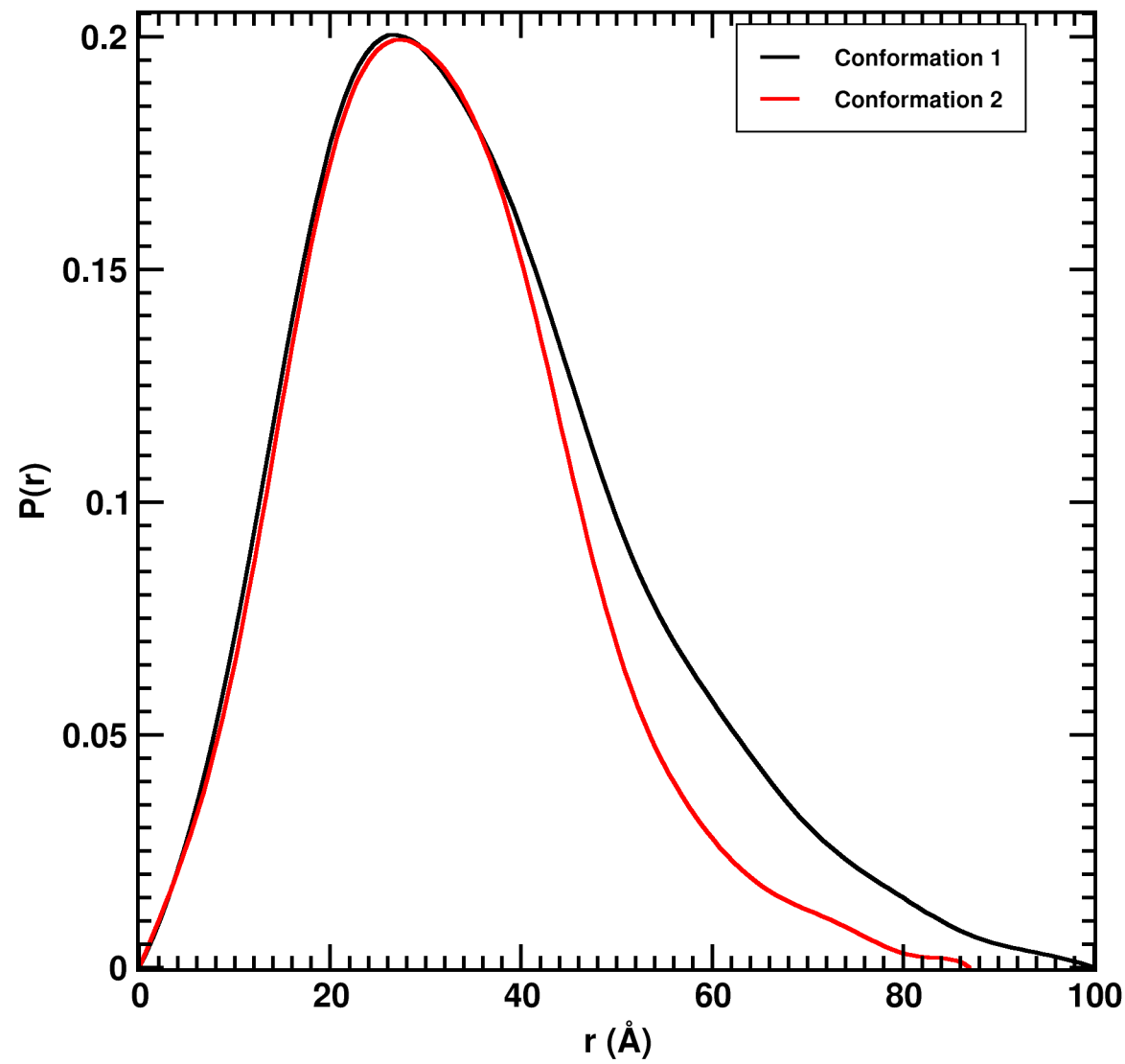
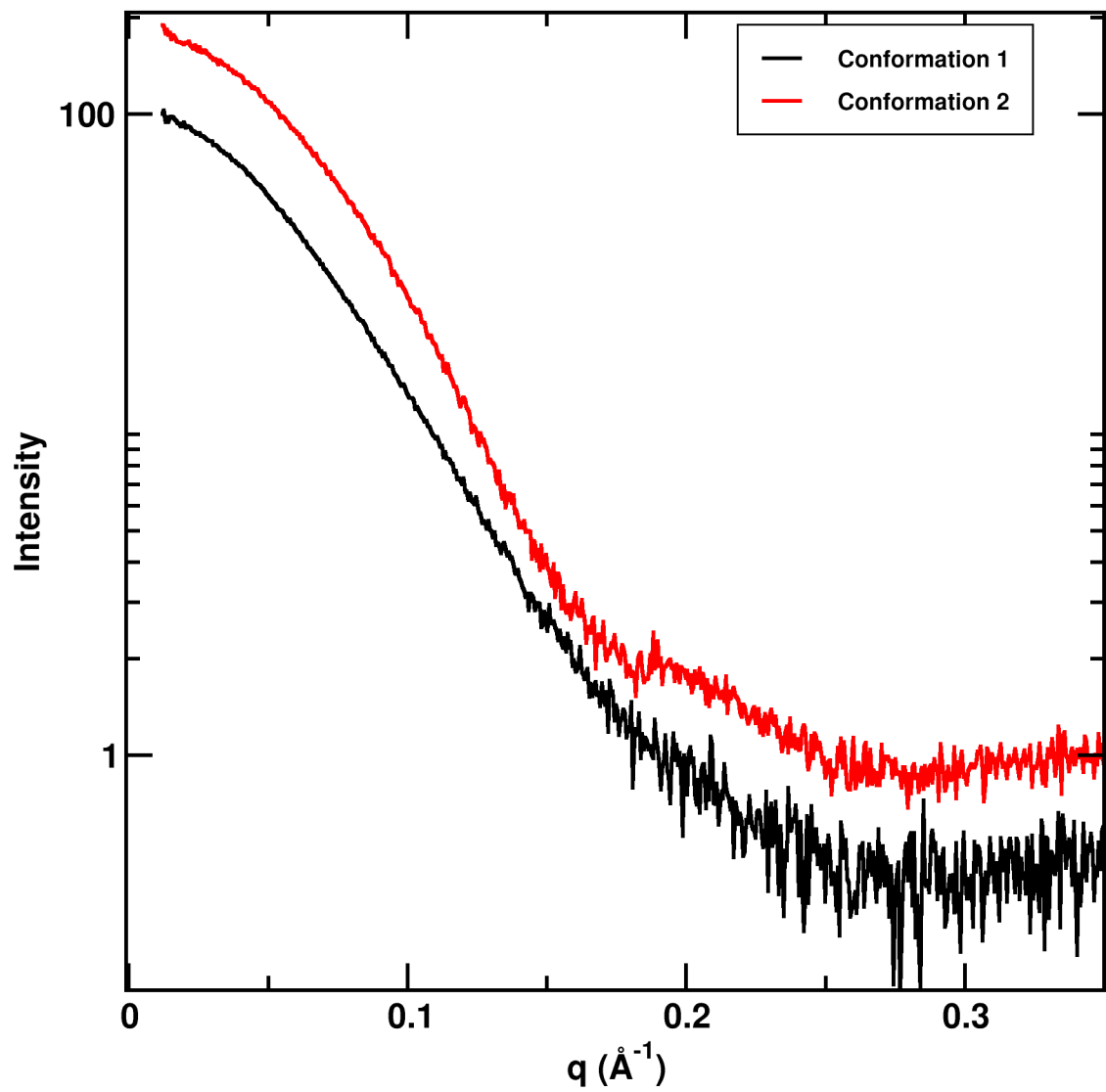


Protein samples different conformations depending on salt and concentration.

Sample: T0987 Conformation 1s – SEC SAXS in HEPES buffer			
Variable	Value	Error +/-	Units
Rg	26.8	1	Angstroms
Porod Exponent	4.0		Scale (2-4)
Mass SAXS	43	5	kDa
Max Dimension	100	3	Angstroms
Radius of Cross Section	18.0	1	Angstroms
Volume	79363	5,000	Cubic Angstroms
Real Space Rg	27.3	3	Angstroms

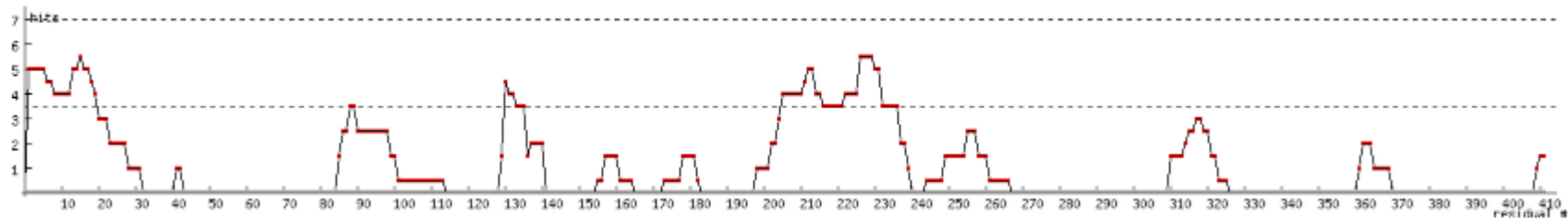
Sample: T0987 Conformation 2 – HT SAXS in PBS buffer			
Variable	Value	Error +/-	Units
Rg	24.4	1	Angstroms
Porod Exponent	4.0		Scale (2-4)
Mass SAXS	41	5	kDa
Max Dimension	86.5	3	Angstroms
Radius of Cross Section	20.0	1	Angstroms
Volume	73401	5,000	Cubic Angstroms
Real Space Rg	24.3	3	Angstroms

MGNAQMGEGRLANYSASGNTFQENPGYTKNYNFSDLQFNPKAITGDVLQGNTIDFEVYGKHNIAASTANWEIRLQLDERLAQYVEKIQVDPKKGVGNSRRTFVRINDSLGRPTNIWKVNYIRANDGLFAGAETTDQTAPNGVITFEKNLDEIFKEIGADNLKSDRLMYRIYLVSHQDDDKIVPGIESTGYFLTDQDDFYNKLDVSENNSDQFKHGSVNTKYEEANIQTKDGSSTGANGAII LDHKLTK EKNFSYSTSAKGTPWYANYKIDERLVPYVSGIQMHMVQADKVAYNVAFESGKKVADLAIERREGHENYGMGSITDNDLT KLIDFANASPRPIVVRYVLQLTKPLDEILEEMKAADKIEENAPFGEDFIFDSWLSDTNKKLIQNTYGTGYYYLQDIDG – 45.8kDa

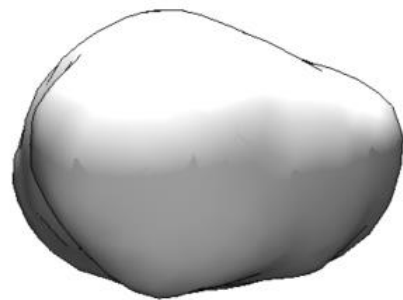
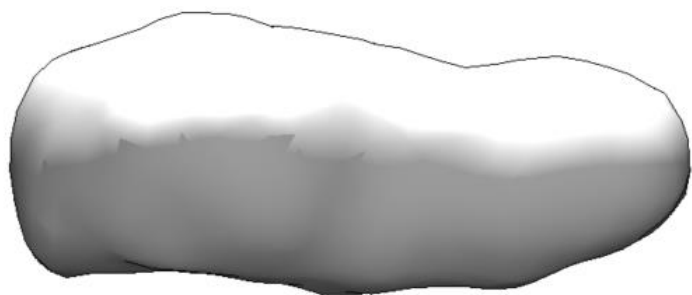
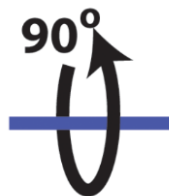
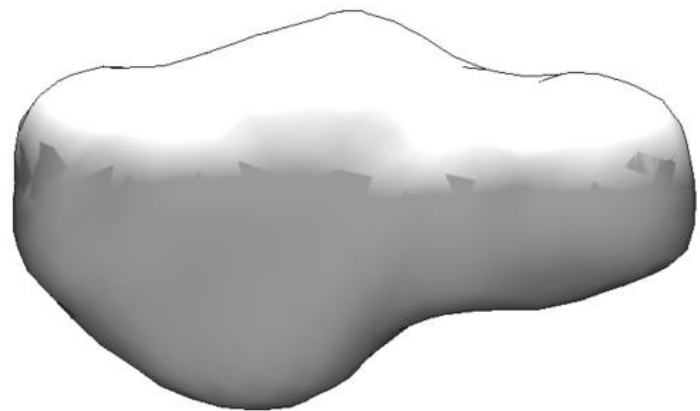


Disordered

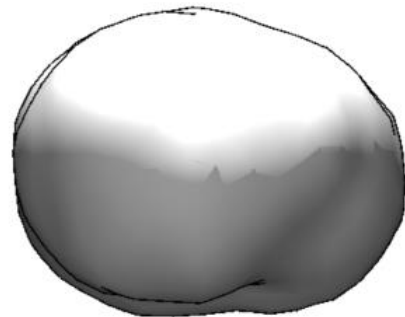
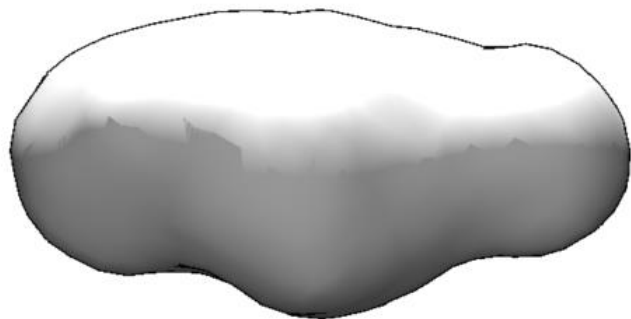
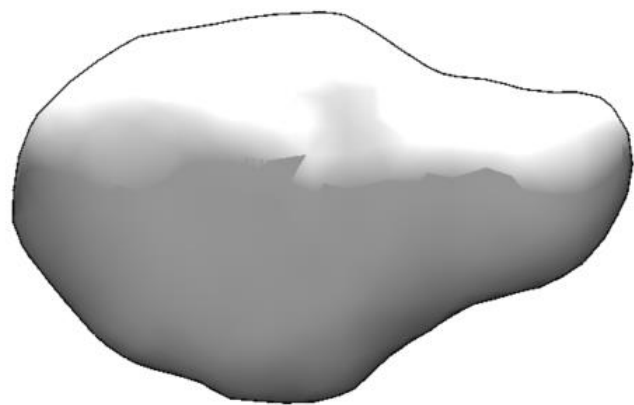
Ordered



Predicted to be fairly ordered aside from the first 20aa



Average Conformation 1: NSD 1.046



Average Conformation 2: NSD 1.024

Quality Parameter		Value	Expected
Multiple Concentrations in HT	Yes	3	3
SEC-SAXS	Yes		
Rg Real and Reciprical Agree	Yes		
Dmax easy to define	Yes		
Low Flexibility	Yes	4.0	
Mass multiple of monomer	Yes	41	45
Linear Guinier	Yes		

MGNAQMGEGRRLANY SASGNTFQENPGYTKNYNFSDLQFNPKAITGDVLQGNTIDFEVYGKHNIAASTANWEIRLQ
LDERLAQYVEKIQVDPKKGVGNSRRTFVRINDSLGRPTNIWKVNYIRANDGLFAGAETTTDTQTAPNGVITFEKNLDEI
FKEIGADNLKSDRLMYRIYLVSHQDDDDKIVPGIESTGYFLTDQDDFYNKLDVSENNSDQFKHGSVNTKYEEANIQTK
DGSGSTGANGAII LDHKLTK EKNFSYSTSAKGTPWYANYKIDERLVPYVSGIQMHMVQADKVAYNVAFESGKKVADL
AIERREGHENYGMGSITDNDLTKLIDFANASPRPIVVRYVLQLTKPLDEILEEMKAADKIEENAPFGEDFIFDSWLSDT
NKKLIQNTYGTGYYYLQDIDG – 45.8kDa