



H0953– Analysis 5/10/18

Single peak SEC-SAXS + MALS + HT-SAXS

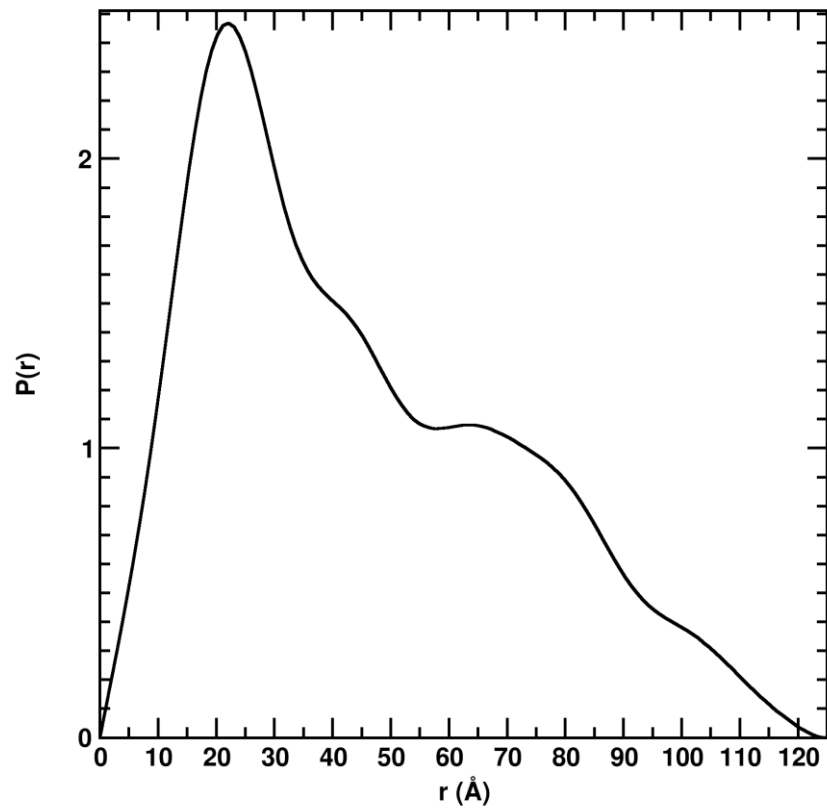
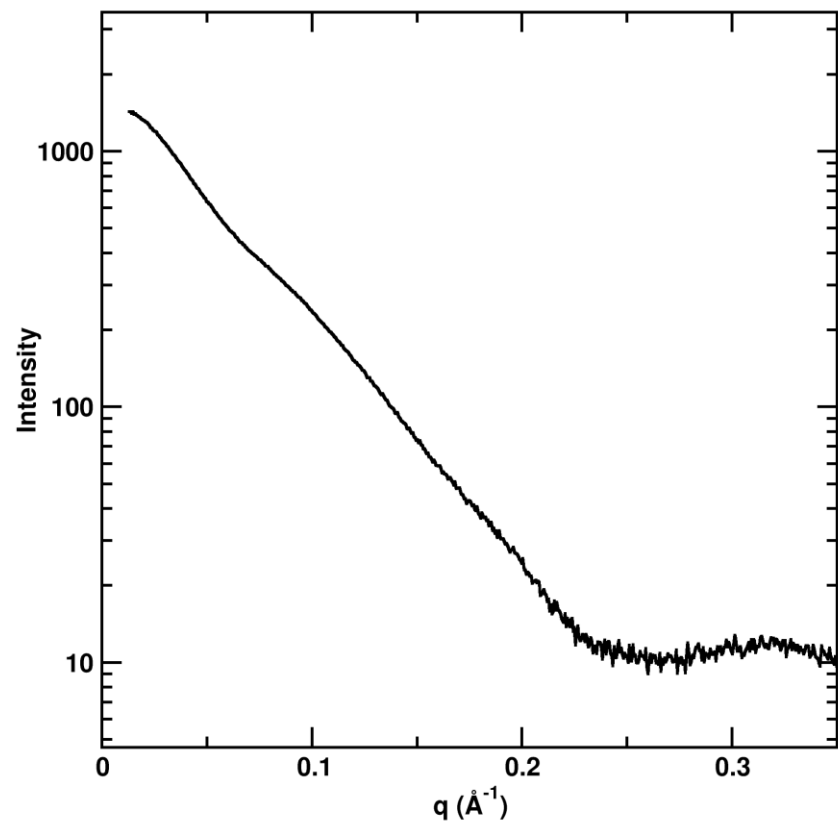
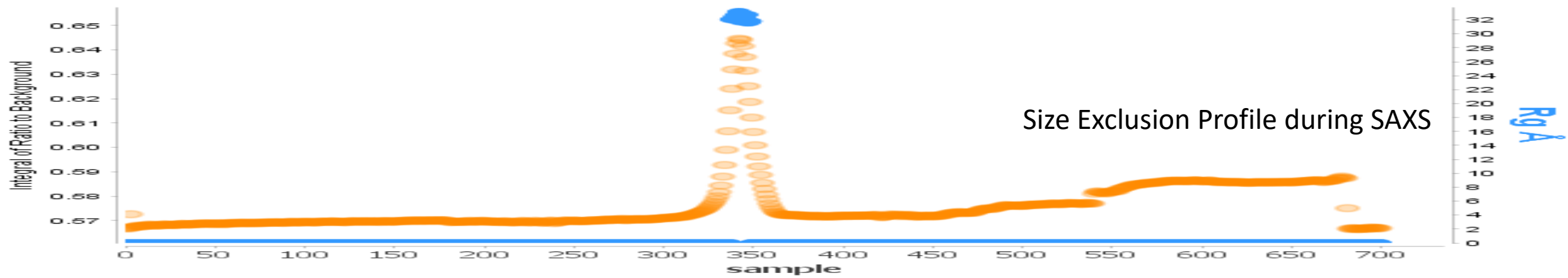


Elongated 3:1 complex

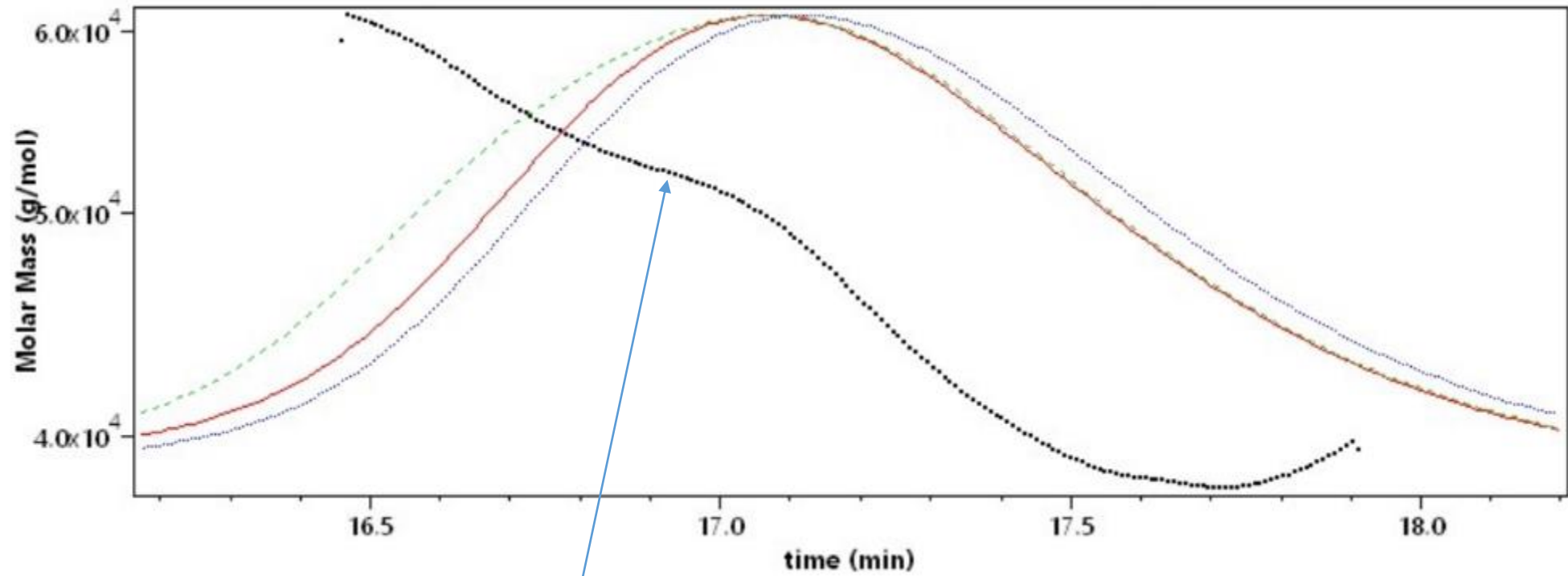
Sample:			
Variable	Value	Error +/-	Units
Rg	34.8	1	Angstroms
Porod Exponent	3.6		Scale (2-4)
Mass SAXS	32	5	kDa
Mass MALS	52	5	kDa
Max Dimension	130	8	Angstroms
Radius of Cross Section	13.1	1	Angstroms
Volume	63217	5,000	Cubic Angstroms
Real Space Rg	36.7	3	Angstroms

Monomeric Chain:
MAVQGPWVGSSYVAETGQNWASLAANELRVTERPFWISSFIGRSKEEIWEWTGENHSFNKDWLIGELRNRGGTPVVINIRAHQVSYTPGAPLFEFPGDLPNAYITLNIYADIYGRGGTGG
VAYLGGNPGGDCIHNWIGNRLRINNQGWCIGGGGGGGGFRVGHTEAGGGGGRPLGAGGVSSLNLNGDNATLGAPGRGYQLGNDYAGNGGDVGNPGSASSAEMGGGAAGRAVVGT
SPQWINVGNIAGSWL – 26kDa
Trimerizing Chain: GALGSASIAIGDNDTGLRWGGDGIVQIVANNAIVGGWNSTDIFTEAGKHITSNGNLNQWGGGAIYCRDLNVS – 7.3kDa

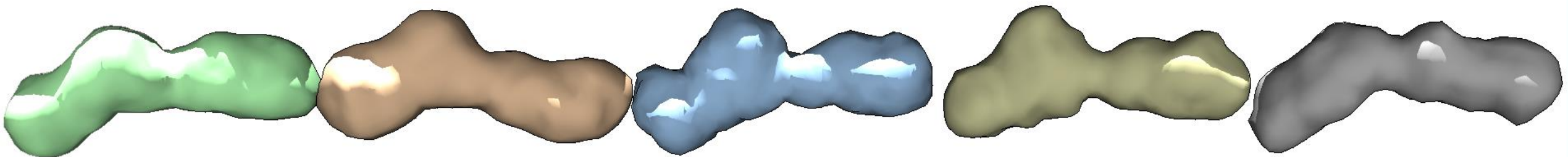
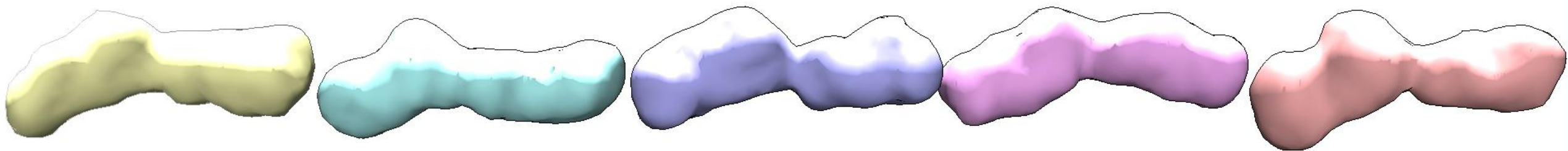
Total 47.9kDa



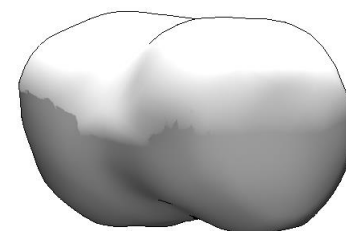
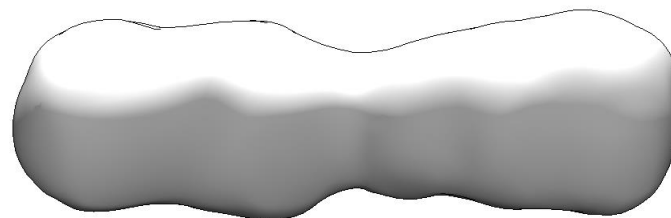
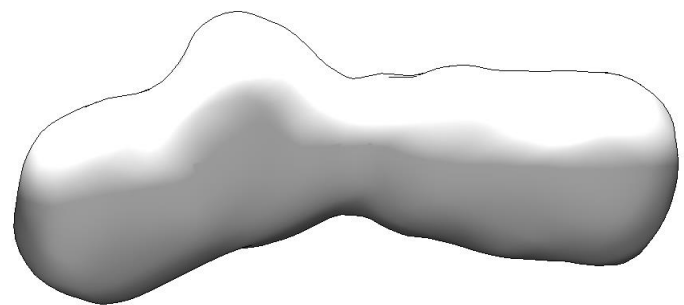
Multi-Angle Light Scattering (MALS)



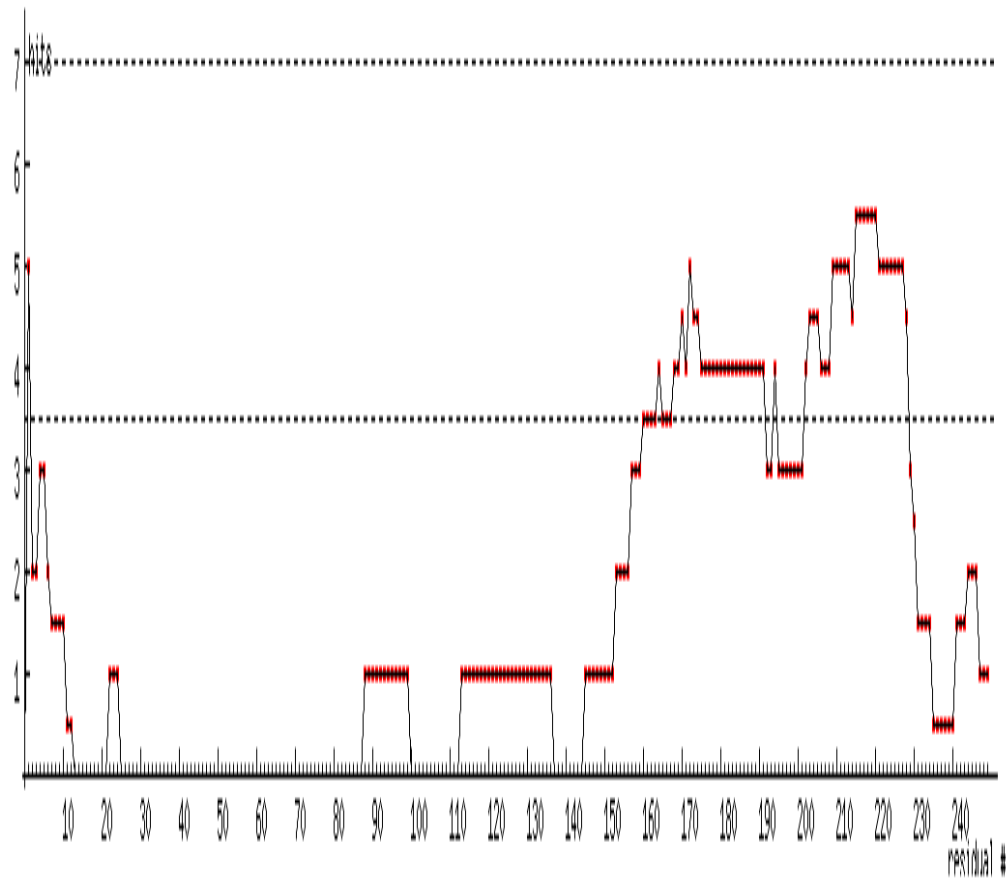
Mass = 52kDa



NSD = 0.953

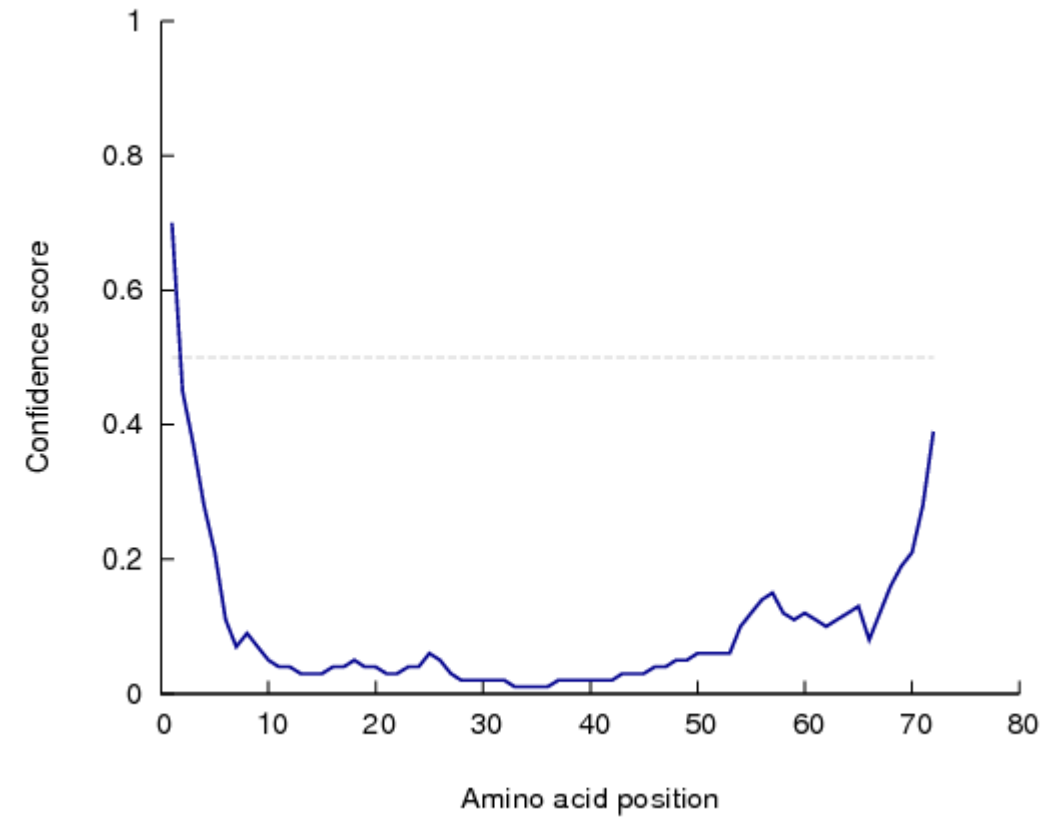


Monomeric Chain



In isolation: disorder predicted for 60aa on C-terminal End

Trimerizing Chain



Quality Parameter	Compliance	Value	Expected
Multiple Concentrations in HT	yes	4	3
SEC-SAXS	Yes		
Rg Real and Reciprocal Agree	OK for elongated	34.8 vs 36.7	
Dmax easy to define	OK for elongated	120-135	
Low Flexibility	Yes	3.6	
Mass multiple of monomer	Near Expected by MALS	52kDa	47kDa
Linear Guinier	Yes	34.8	

Monomeric Chain:

MAVQGPWVGSSYVAETGQNWASLAANELRVTERPFWISSFIGRSKEEIWEWTGENHSFNKDWLIGELRNRRGGTPVVINIRAHQVSYTPGAPLFEFPGDLPNAYITLNIYADIYGRGGTGG
VAYLGGNPPGGDCIHNWIGNRLRINNQGWCIGGGGGGGGFRVGHTEAGGGGGRRPLGAGGVSSLNLNGDNATLGAPGRGYQLGNDYAGNGGDVGNP GSASSAEMGGGAAGRAVVGT
SPQWINVGNIAGSWL – 26kDa

Trimerizing Chain: GALGSASIAIGDNDTGLRWGGDGIVQIVANNAIVGGWNSTDIFTEAGKHITSNGNLNQWGGGAIYCRDLNVS – 7.3kDa

Total 47.9kDa