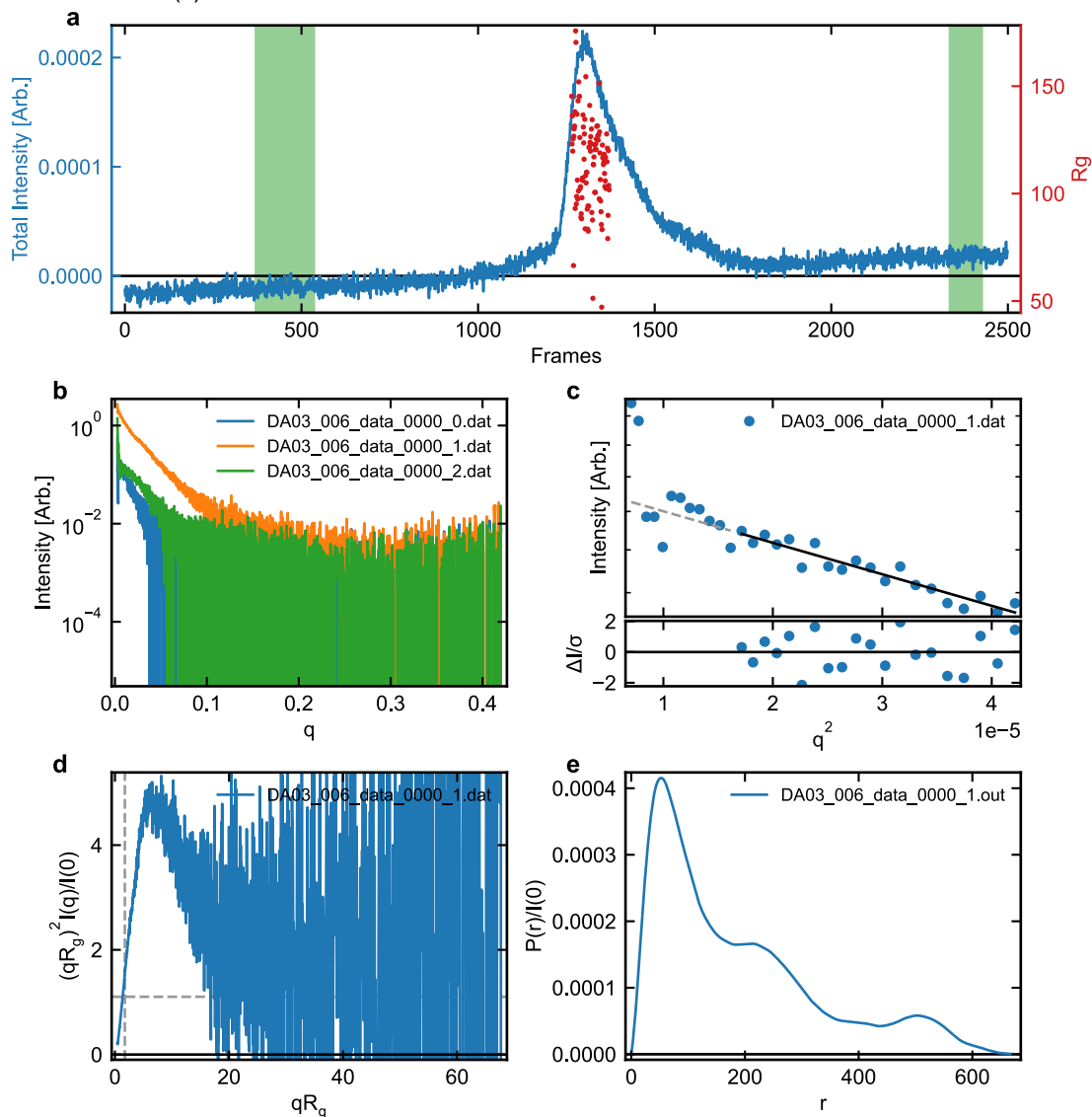


DA03_006 SAXS data overview

Summary:

Data name(s): DA03_006

Collection date(s): 2022-12-08 17:56



SAXS data summary figure for DA03_006. a) Series intensity (blue, left axis) vs. frame, and, if available, R_g vs. frame (red, right axis). Green shaded regions are buffer regions, purple shaded regions are sample regions. b) Scattering profile(s) on a log-lin scale. c) Guinier fit(s) (top) and fit residuals (bottom). d) Dimensionless Kratky plot. Dashed lines show where a globular system would peak. e) $P(r)$ function(s), normalized by $I(0)$.

	DA03_006_data_0000_0.dat	DA03_006_data_0000_1.dat	DA03_006_data_0000_2.dat
Guinier Rg		1.61e+2 +/- 5.46	
Guinier I(0)		2.18 +/- 0.04	
M.W. (Vp)		599.4	
M.W. (Vc)		276.1	
M.W. (S&S)		-1.0e+0	
M.W. (Bayes)		318.4	
GNOM Dmax		675.0	
GNOM Rg		1.67e+2 +/- 3.76	
GNOM I(0)		2.15 +/- 0.03	

SAXS data summary table for DA03_006.

Experimental parameters:

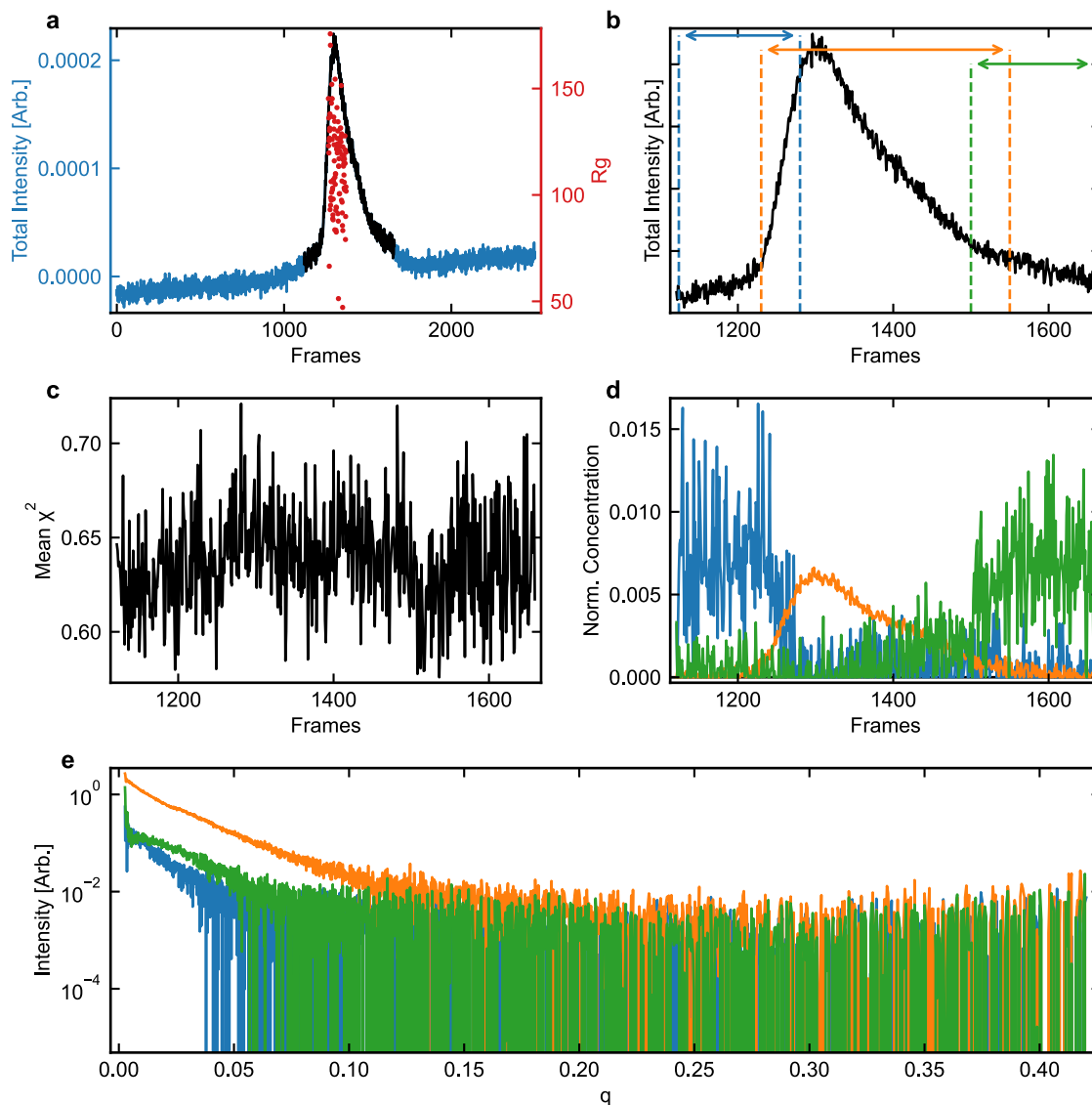
	DA03_006
Date	2022-12-08 17:56
Instrument	BioCAT (Sector 18, APS)
Experiment Type	SEC-MALS-SAXS
Column	Superose 6 10/300 Increase
Sample	MC1 + CaCl ₂
Buffer	10 MM TRIS 8.5, 150 MM NaCl, 1 mM CaCl ₂
Temperature [C]	22
Loaded volume [uL]	250
Concentration [mg/ml]	1.04
Detector	Eiger2 XE 9M
Wavelength (A)	1.033
Camera length (m)	3.682
q-measurement range	0.0027 to 0.42
Exposure time (s)	0.4
Exposure period (s)	1.0
Flow rate (ml/min)	0.6
Attenuation	None
RAW version	2.1.4
Notes	Mismatched sheath (no CaCl ₂)

Series:

	DA03_006
Buffer range	371 to 535, 2336 to 2426

EFA results:

	DA03_006
EFA data range	1121 to 1659
Number of components	3
Component 0	1124 to 1280
Component 1	1230 to 1550
Component 2	1500 to 1659



EFA deconvolution results. a) The full series intensity (blue), the selected intensity range for EFA (black), and (if available) Rg values (red). b) The selected intensity range for EFA (black), and the individual component ranges for deconvolution, with component range 0 starting at the top left, and component number increasing in descending order to the right. c) Mean χ^2 values between the fit of the EFA deconvolution and the original data. d) Area normalized concentration profiles for each component. Colors match the component range colors in b. e) Deconvolved scattering profiles. Colors match the component range colors in b and the concentration range colors in d.

Guinier:

	DA03_006_data_0000_0 .dat	DA03_006_data_0000_1 .dat	DA03_006_data_0000_2 .dat
Rg		1.61e+2 +/- 5.46	
I(0) [Arb.]		2.18 +/- 0.04	
q-range		0.0041 to 0.0065	
qmin*Rg		0.667	
qmax*Rg		1.046	
r^2		0.899	

Molecular weight:

	DA03_006_data_0000 _0.dat	DA03_006_data_0000 _1.dat	DA03_006_data_0000 _2.dat
M.W. (Vp) [kDa]		599.4	
Porod Volume		7.22e+5	
M.W. (Vc) [kDa]		276.1	
M.W. (S&S) [kDa]		-1.0e+0	
Shape (S&S)		unknown	
Dmax (S&S)		-1.0e+0	
M.W. (Bayes) [kDa]		318.4	
Bayes Probability		99.9	
Bayes Confidence Interval [kDa]		221.1 to 372.7	
Bayes C.I. Prob.		99.9	

GNOM IFT:

	DA03_006_data_0000_1.out
Dmax	675.0
Rg	1.67e+2 +/- 3.76
I(0)	2.15 +/- 0.03
Chi^2	1.188
Total Estimate	0.638
Quality	a REASONABLE solution
q-range	0.0041 to 0.4203
Ambiguity score	0.0
Ambiguity cats.	0
Ambiguity	3D reconstruction is potentially unique