

Folder contents:

- Original data pre any merging steps
- Solvent subtracted data with $P(r)$ calculations as *.out files.
- *datcombine* inputs and outputs
 - input data in “Data in” along with common q -scale used for re-gridding.
 - individual re-gridded data files and output for filters disabled, outlier filter, error filter and outlier+error filters applied

Individual scattering profiles in the folders are identified by their source, with the numerical designations given in the Table below (which is the same order as in **Table S2** of the Supporting Information submitted with the paper)

Naming convention for *.dat files is: instrument code with the data sets merged listed, separated by an underscore, as SS where SEC-SAXS data are included and then each batch data measurement used is listed with the concentration in mg/mL expressed as XptY. A “-Gt” extension indicates the lowest- q data have been truncated to match the lowest- q data included by AutoGNOM.

Key for instruments designations:

SAXS Instruments	
Advanced Light Source - SIBYLS	X1
Advanced Photon Source – 12-ID-B	X2
Advanced Photon Source – BioCAT	X3
Australian synchrotron SAXSWAXS: AS	X4
Cornell High Energy Synchrotron Source (CHESS) – ID7a	X5
Diamond Light Source - B21	X6
NIST/IBBR, SAXSLab Ganesha Instrument	X7
Petra III, P12 BioSAXS (SAXS and WAXS configurations)	X8 (a and b)
Shanghai Synchrotron Radiation Facility – BL192U	X9
SOLEIL – SWING	X10
SPring-8 - BL40B2	X11
Stanford Synchrotron Radiation Laboratory (SSRL) – Beamline 4-2 BioSAXS	X12