**S3 Table. SAXS data collection parameters, analysis software employed and deposition.**

|  |  |
| --- | --- |
| Instrument | Advanced Light Source SIBYLS SAXS Beamline with 2M detector [1] |
| Wavelength (Å)  Camera length (m)  *q* measurement (Å-1)  Sample configuration  Sample temperature (˚C) | 1.127  2  0.015 – 0.266  static sample cell  10 |
| Data reduction | Solvent subtraction PRIMUSqt (ATSAS 2.8.3) [2] |
| Extinction coefficient  Isoelectric point  Basis analyses  Atomic structure modelling  Volume fraction modelling  Ensemble modelling  Ab initio modelling  SASBDB [9] code | ProtParam [3]  ProtParam [3]  PRIMUSqt  CRYSOL 2.8.3 [4]  OLIGOMER 7.1 [5]  EOM 2.1 [6]  DENSS 1.4.10 [7]  DAMMIN [8]  SASDHG6 |

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