

**S3 Table: SAXS data statistics**

	DacA <sub>CD</sub>	GlmM	DacA <sub>CD</sub> /GlmM
Beamline	B21	B21	B21
Wavelength (Å)	1.0	1.0	1.0
q-range (Å <sup>-1</sup> )	0.0032-0.38	0.0032-0.38	0.0032-0.38
I(0) (cm <sup>-1</sup> )	0.048 ± 4.4x10 <sup>-5</sup>	0.09 ± 6.8x10 <sup>-5</sup>	0.12 ± 1.2x10 <sup>-4</sup>
R <sub>g</sub> (Å)	26.3 ± 0.27	36.8 ± 0.26	38.7 ± 0.10
D <sub>max</sub> (Å)	85	121.5	125
Guinier region	0.2280-1.2928	0.2928-1.2840	0.2049-1.2919
Porod Volume (Å <sup>3</sup> )	64500	128000	204000
MW Estimate (kDa)	40.2	94.2	130.9
Number of atoms (Dammif)	1895	2491	2235