**Supplementary Table 5: Scattering derived parameters for different samples analyzed.**

|  |  |  |
| --- | --- | --- |
|  | **Cadherin23-EC1+2 WT Dimer** | **Cadherin23-EC1+2 E78K** |
| **Data-collection parameters** |  |  |
| **Exposure time (min)** | **1** | **1** |
| **Concentration range (mg ml-1)** | **0.3** | **1** |
| **Structural parameters†** |  |  |
| **I(0) (cm-1)**  **(from P(r))** | **54080±2420** | **43730±2220** |
| **Rg (nm)**  **(from P(r))** | **3.3±0.2** | **2.7±0.1** |
| **I(0) (cm-1)**  **(from Guinier)** | **51404±1440** | **46741±1844** |
| **Rg(nm)**  **(from Guinier)** | **3.2±0.1** | **2.9±0.1** |
| **Dmax (nm)** | **11.6** | **10.0** |
| **Molecular-mass determination** |  |  |
| **Molecular mass Mr (from Vc)** | **54** | **23** |