|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Design** | MW A (kDa) | MW B (kDa) | MW model (kDa) | MW exp (kDa) | Rg model (Å) | Rg exp (Å) | Dmax model (Å) | Dmax exp (Å) | *X* | qmax (1/nm) |
| **1na0C3\_2** | 14.99 | - | 44.97 | 48 | 26.4 | 29.5 | 84 | 86 | 1.4 | 0.23 |
| **3ltjC3\_1v2** | 20.90 | - | 62.69 | 56 | 27.7 | 31.3 | 88 | 94 | 1.1 | 0.18 |
| **3ltjC3\_11** | 22.21 | - | 66.62 | 50 | 28.3 | 30.3 | 87 | 92 | 1.6 | 0.20 |
| **HR04C3\_5v2** | 23.05 | - | 69.14 | 71 | 25.9 | 28.6 | 82 | 86 | 1.5 | 0.25 |
|  |  |  |  |  |  |  |  |  |  |  |
| **T33\_dn2** | 13.82 | 14.88 | 344.45 | 397 | 61.4 | 64.7 | 169 | 169 | 4.8 | 0.17 |
| **T33\_dn5** | 13.72 | 21.49 | 422.42 | 422 | 66.7 | 69.4 | 177 | 193 | 1.7 | 0.16 |
| **T33\_dn10** | 14.07 | 31.42 | 545.88 | 556 | 62.3 | 60.1 | 169 | 170 | 2.3 | 0.20 |
| **O43\_dn18** | 22.69 | 13.82 | 876.26 | 810 | 80.6 | 81.3 | 217 | 221 | 2.9 | 0.28 |
| **I53\_dn5** | 17.19 | 15.33 | 1951.57 | 2000 | 95.9 | 97.1 | 241 | 243 | 1.2 | 0.21 |

**Figure 2-Source Data 1.** **Biophysical properties of designed trimers and two-component nanoparticles**. Experimentally-measured data (exp) is compared to predicted design data (model). Molecular weights (MW) were obtained using the ASTRA software. Rg and Dmax calculations performed in Scatter3 SAXS analysis software with the determined qmax values. *X* values computed from the FoXS online SAXS web server between the designed model and the experimental scattering data.