|  |  |  |
| --- | --- | --- |
|  | **1na0C3\_2 (PDB ID X)** | **3ltjC3\_1v2 (PDB ID Y)** |
| **Data Acquisition** |  |  |
| Space group | P 1 21 1 | R 3 :H |
| Cell dimensions a, b, c (Å) α , β , γ (°) | 69.47, 64.91, 99.03 90, 106.33, 90 | 88.182, 88.182, 65.24490, 90, 120 |
| Rmerge | 0.1427 (0.8023) | 0.1189 (1.041) |
| CC1/2 | 0.994 | 0.997 (0.623) |
| <I/σI> | 9.5 (2.16) | 9.35 (1.30) |
| Completeness (%) | 99.86 | 91.51 (77.88) |
| Multiplicity | 4.6 (4.6) | 5.6 (5.1) |
| Wilson B-factor (Å2) | 37.11 | 40.43 |
| **Refinement** |  |  |
| Resolution range (Å) | 38.87 - 2.53 (2.60 - 2.53) | 44.09 - 2.303 (2.386 - 2.303) |
| No. of reflections for refinement | 27066 (2030) | 8361 (655) |
| No. of reflections for Rfree | 1442 (103) | 756 (62) |
| Rwork(%)/Rfree(%) | 0.1859 (0.195) / 0.2316 (0.240) | 0.2021 (0.2555) / 0.2261 (0.2240) |
| Water count | 110 | 25 |
| Residue count | 711 | 180 |
| Average B-factors (Å2) Protein Water | 47.4046.01 | 49.3650.80 |
| r.m.s.d. deviations Bond length (Å) Bond angles (°) | 0.680.78 | 0.0020.44 |
| Ramachandran favored (%) | 98.00 | 100.00 |
| Ramachandran allowed (%) | 1.00 | 0.00 |
| Ramachandran outliers (%) | 1.00 | 0.00 |
| Rotamer outliers (%) | 3.00 | 0.00 |

**Figure 2-figure supplement 3-Source Data 1.** **Crystallography data collection and refinement statistics for designed trimers 1na0C3\_2 and 3ltjC3\_1v2.** Statistics for the highest-resolution shell are shown in parentheses.