**Table A.** Data collection, phasing and refinement statistics for Cdc20 crystal structures with D-box peptides

|  |  |  |  |
| --- | --- | --- | --- |
| Crystal structure | Cdc20 – D21 | Cdc20 – D20 | Cdc20 – D7 |
| PDB accession code | 9I68 | 9I69 | 9I6A |
| **Data collection** |  |  |  |
| Space group | P21 | P21 | P21 |
| Unit cell, a, b, c (Å),α, β, γ (°) | 35.49, 87.55, 48.5790.00, 109.71, 90.00 | 35.34, 87.34, 48.5190.00, 110.14, 90.00 | 35.00, 86.87, 48.0390.00, 109.60, 90.00 |
| Resolution range, Å | 45.73 - 1.51 (1.66 - 1.51) | 45.55 - 1.46 (1.60 - 1.46) | 45.24 - 1.92 (2.09 - 1.92) |
| Total reflections | 162715 (6076) | 184416 (10465)  | 76640 (3657) |
| Unique reflections | 32820 (1641)  | 35450 (1772) | 14979 (750) |
| Multiplicity | 5.0 (3.7)  | 5.2 (5.9) | 5.1 (4.9) |
| Completeness (spherical), % | 74.7 (14.5)  | 74.5 (16.0) | 71.8 (15.4) |
| Completeness (ellipsoidal), % | 90.4 (41.9)  | 92.9 (60.1) | 90.5 (57.6) |
| I/σI | 13.1 (1.6)  | 13.6 (1.4) | 7.6 (1.5) |
| Rmerge | 0.050 (0.598)  | 0.048 (1.000) | 0.132 (1.161) |
| CC1/2­ | 0.999 (0.714)  | 0.999 (0.635) | 0.996 (0.536) |
| **Refinement** |  |  |  |
| Rwork/Rfree, % | 0.175/0.194  | 0.165/0.184 | 0.207/0.231 |
| Unique reflections used | 32820  | 35450 | 14966 |
| rmsd bond lengths, Å | 0.008  | 0.008 | 0.008 |
| rmsd bond angles, ° | 1.01 | 1.02 | 1.00 |
| Ramachandran analysis: |  |  |  |
| Favoured, % | 97.10  | 98.06 | 97.33 |
| Allowed, % | 2.58  | 1.61 | 2.33 |
| Outliers, % | 0.32  | 0.32 | 0.33 |
| Number of atoms (average B-factor, Å2) |  |  |  |
| Protein | 2452 (24.31)  | 2434 (25.80) | 2340 (29.68) |
| Peptide | 46 (37.72)  | 46 (46.88) | 25 (48.49) |
| Solvent | 236 (39.17)  | 240 (44.08) | 72 (32.96) |
| Mean/Wilson B-factor, Å2 | 25.8/22.9  | 27.8/23.9 | 30.0/27.8 |