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| --- | --- |
| **Data collection** | **SARS-CoV-2 M** |
| PDB | 8CTK |
| EMDB | 26993 |
| Total movies | 7588 |
| Magnification | 165,000 x |
| Voltage (KV) | 300 |
| Electron exposure (e-/Å2) | 50 |
| Defocus range (um) | -0.5 to -1.2 |
| Super resolution pixel size (Å2) | 0.3635 |
| Binned pixel size (Å2) | 0.727 |
| **Processing** |  |
| Initial particle images (no.) | 2,007,561 |
| Final particle images (no.) | 64,966 |
| Map resolution Masked (Å, FSC = 0.143) | 3.52 |
| Symmetry imposed | C2 |
| **Refinement** |  |
| Model resolution (Å, FSC = 0.143 / FSC = 0.5) | 3.2 /3.5 |
| Map-sharpening B factor (Å2) | -145 |
| Composition |  |
|  Number of atoms | 3042 |
|  Number of protein residues | 376 |
|  Number of ligands | 0 |
| RMS deviations |  |
|  Bond lengths (Å) | 0.003 |
|  Bond angles (Å) | 0.690 |
| Validation |  |
|  MolProbity score | 1.47 |
|  Clashscore | 4.37 |
| Ramachandran plot |  |
|  Favored (%) | 96.24 |
|  Allowed (%) | 3.76 |
|  Disallowed (%) | 0 |
| Rotamer outliers (%) | 0 |
| Mean B factor (Å2) |  |
|  Protein | 42.42 |