PDB ID : 5TIS
Title : Room temperature XFEL structure of the native, doubly-illuminated photosystem II complex
Deposited on : 2016-10-03
Resolution : 2.25 Å (reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the symbol.

The following versions of software and data (see references) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.25 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.

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<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>Similar resolution (#Entries, resolution range(Å))</th>
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The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for $\geq3$, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is shown in the corresponding segment, with a dot representing fractions $<5\%$.

The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is indicated above the bar.

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EDS : trunk31020
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk31020
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<td>513</td>
<td>X</td>
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<td>-</td>
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<tr>
<td>25</td>
<td>CLA</td>
<td>d</td>
<td>401</td>
<td>X</td>
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<tr>
<td>25</td>
<td>CLA</td>
<td>d</td>
<td>402</td>
<td>X</td>
<td>-</td>
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</tr>
</tbody>
</table>
2  Entry composition

There are 35 unique types of molecules in this entry. The entry contains 51757 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosystem II protein D1 1.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>334</td>
<td>Total 2625 C 1719 N 431 O 460 S 15</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>1</td>
<td>a</td>
<td>334</td>
<td>Total 2622 C 1717 N 431 O 459 S 15</td>
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</tbody>
</table>

- Molecule 2 is a protein called Photosystem II CP47 reaction center protein.

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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>504</td>
<td>Total 4005 C 2629 N 667 O 696 S 13</td>
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<tr>
<td>2</td>
<td>b</td>
<td>504</td>
<td>Total 3982 C 2613 N 665 O 691 S 13</td>
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- Molecule 3 is a protein called Photosystem II CP43 reaction center protein.

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<th>Trace</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>C</td>
<td>451</td>
<td>Total 3494 C 2287 N 585 O 609 S 13</td>
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<td>0</td>
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<tr>
<td>3</td>
<td>c</td>
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<td>Total 3494 C 2286 N 587 O 608 S 13</td>
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- Molecule 4 is a protein called Photosystem II D2 protein.

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</thead>
<tbody>
<tr>
<td>4</td>
<td>D</td>
<td>341</td>
<td>Total 2717 C 1800 N 444 O 461 S 12</td>
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<td>0</td>
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<td>4</td>
<td>d</td>
<td>341</td>
<td>Total 2716 C 1800 N 444 O 460 S 12</td>
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</table>

- Molecule 5 is a protein called Cytochrome b559 subunit alpha.
Molecule 6 is a protein called Cytochrome b559 subunit beta.

Molecule 7 is a protein called Photosystem II reaction center protein H.

Molecule 8 is a protein called Photosystem II reaction center protein I.

Molecule 9 is a protein called Photosystem II reaction center protein J.

Molecule 10 is a protein called Photosystem II reaction center protein K.
Continued from previous page...

<table>
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<tbody>
<tr>
<td>10</td>
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- Molecule 11 is a protein called Photosystem II reaction center protein L.

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<th>Trace</th>
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<tr>
<td>11</td>
<td>L</td>
<td>37</td>
<td>Total C 304, N 202, O 48, 53, S 1</td>
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<td>0</td>
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<tr>
<td>11</td>
<td>l</td>
<td>37</td>
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- Molecule 12 is a protein called Photosystem II reaction center protein M.

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<tbody>
<tr>
<td>12</td>
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<td>33</td>
<td>Total C 269, N 178, O 39, 51, S 1</td>
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<tr>
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<td>Total C 260, N 173, O 38, 48, S 1</td>
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- Molecule 13 is a protein called Photosystem II manganese-stabilizing polypeptide.

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<th>Trace</th>
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<tbody>
<tr>
<td>13</td>
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<td>244</td>
<td>Total C 1888, N 1179, O 320, 385, S 4</td>
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<td>0</td>
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<tr>
<td>13</td>
<td>o</td>
<td>244</td>
<td>Total C 1888, N 1179, O 320, 385, S 4</td>
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- Molecule 14 is a protein called Photosystem II reaction center protein T.

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<tr>
<td>14</td>
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<td>14</td>
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- Molecule 15 is a protein called Photosystem II 12 kDa extrinsic protein.

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<tbody>
<tr>
<td>15</td>
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<td>97</td>
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<td>0</td>
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<tr>
<td>15</td>
<td>u</td>
<td>97</td>
<td>Total C 774, N 491, O 129, 154</td>
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</table>
- Molecule 16 is a protein called Cytochrome c-550.

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<tbody>
<tr>
<td>16</td>
<td>V</td>
<td>137</td>
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<td>1064 675 177 208 4</td>
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<tr>
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<td>v</td>
<td>137</td>
<td>Total C N O S</td>
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<td>1</td>
<td>0</td>
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- Molecule 17 is a protein called Photosystem II reaction center protein Ycf12.

<table>
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<tr>
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<td>y</td>
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- Molecule 18 is a protein called Photosystem II reaction center X protein.

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<tr>
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</table>

- Molecule 19 is a protein called Photosystem II reaction center protein Z.

<table>
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<th>Atoms</th>
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<tbody>
<tr>
<td>19</td>
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<td>479 328 72 77 2</td>
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<tr>
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<td>478 328 72 76 2</td>
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- Molecule 20 is a protein called Photosystem II protein Y.

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<th>Atoms</th>
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<tbody>
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<td>0</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>270 183 47 40</td>
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</tr>
</tbody>
</table>

- Molecule 21 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula: CaMn₄O₅).
Molecule 22 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Molecule 23 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Molecule 24 is BICARBONATE ION (three-letter code: BCT) (formula: CHO$_3$).
• Molecule 25 is CHLOROPHYLL A (three-letter code: CLA) (formula: $C_{55}H_{72}MgN_{4}O_{5}$).  

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
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<td>Total C Mg N O</td>
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<td>Total C Mg N O</td>
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- Molecule 26 is PHEOPHYTIN A (three-letter code: PHO) (formula: C_{55}H_{74}N_{4}O_{5}).

[Image of PHEOPHYTIN A]

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- Molecule 27 is BETA-CAROTENE (three-letter code: BCR) (formula: C_{40}H_{56}).
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- Molecule 28 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18 ,22,26,30,34-HEXATRIAOCONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2, 3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula: C\textsubscript{53}H\textsubscript{80}O\textsubscript{2}).

![PL9](image)
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- Molecule 29 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSY L]-SN-GLYCEROL (three-letter code: SQD) (formula: C\textsubscript{41}H\textsubscript{78}O\textsubscript{12}S).
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- Molecule 30 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: C_{38}H_{75}O_{10}P).

![LHG](image)

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- Molecule 31 is UNKNOWN LIGAND (three-letter code: UNL) (formula: ).

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- Molecule 32 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C\textsubscript{45}H\textsubscript{86}O\textsubscript{10}).
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• Molecule 33 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: C_{51}H_{96}O_{15}).

![DGD](image.png)

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• Molecule 34 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C_{34}H_{32}FeN_{4}O_{4}).
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- Molecule 35 is water.

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3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Photosystem II protein D1
  - Chain A:

- Molecule 1: Photosystem II protein D1
  - Chain a:

- Molecule 2: Photosystem II CP47 reaction center protein
  - Chain B:

- Molecule 2: Photosystem II CP47 reaction center protein
  - Chain b:
• Molecule 3: Photosystem II CP43 reaction center protein

Chain C:

• Molecule 3: Photosystem II CP43 reaction center protein

Chain c:

• Molecule 4: Photosystem II D2 protein

Chain D:

• Molecule 4: Photosystem II D2 protein

Chain d:

• Molecule 5: Cytochrome b559 subunit alpha

Chain E:

• Molecule 5: Cytochrome b559 subunit alpha

Chain e:

• Molecule 6: Cytochrome b559 subunit beta
Chain F:

- Molecule 6: Cytochrome b559 subunit beta

Chain f:

- Molecule 7: Photosystem II reaction center protein H

Chain H:

- Molecule 7: Photosystem II reaction center protein H

Chain h:

- Molecule 8: Photosystem II reaction center protein I

Chain I:

- Molecule 8: Photosystem II reaction center protein I

Chain J:

- Molecule 9: Photosystem II reaction center protein J

- Molecule 9: Photosystem II reaction center protein J
• Molecule 10: Photosystem II reaction center protein K

• Molecule 11: Photosystem II reaction center protein L

• Molecule 12: Photosystem II reaction center protein M

• Molecule 13: Photosystem II manganese-stabilizing polypeptide
Chain O:

- Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain o:

- Molecule 14: Photosystem II reaction center protein T

Chain T:

- Molecule 14: Photosystem II reaction center protein T

Chain t:

- Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain U:

- Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain u:

- Molecule 16: Cytochrome c-550
Chain V:

- Molecule 16: Cytochrome c-550

Chain v:

- Molecule 17: Photosystem II reaction center protein Ycf12

Chain Y:

- Molecule 17: Photosystem II reaction center protein Ycf12

Chain y:

- Molecule 18: Photosystem II reaction center X protein

Chain X:

- Molecule 18: Photosystem II reaction center X protein

Chain z:

- Molecule 19: Photosystem II reaction center protein Z

- Molecule 19: Photosystem II reaction center protein Z
Chain z:

- Molecule 20: Photosystem II protein Y

Chain R:

- Molecule 20: Photosystem II protein Y

Chain r:
4 Data and refinement statistics

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<th>Value</th>
<th>Source</th>
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<td>Cell constants</td>
<td>Cell constants: a, b, c, α, β, γ</td>
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<td>a: 117.87 Å</td>
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<td></td>
<td>b: 223.14 Å</td>
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<td></td>
<td>c: 310.71 Å</td>
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<td>β: 90.00°</td>
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<td>γ: 90.00°</td>
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<td>EDS</td>
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<td>% Data completeness: 99.9 (44.28-2.25)</td>
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<td>(in resolution range)</td>
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<td>EDS</td>
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<td>R_sym</td>
<td>R_sym: (Not available)</td>
<td>Depositor</td>
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<tr>
<td>&lt; I/σ(I) ≥ 1</td>
<td>&lt; I/σ(I): 0.78 (at 2.24 Å)</td>
<td>Xtriage</td>
</tr>
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<td>Refinement program</td>
<td>PHENIX dev_2481</td>
<td>Depositor</td>
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<tr>
<td>R, R_free</td>
<td>R_R_free: 0.193, 0.231</td>
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<td></td>
<td>DCC: 0.193, 0.231</td>
<td>DCC</td>
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<tr>
<td>R_free test set</td>
<td>3426 reflections (0.89%)</td>
<td>wwPDB-VP</td>
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<tr>
<td>Wilson B-factor (Å²)</td>
<td>Wilson B-factor: 36.0</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Anisotropy</td>
<td>Anisotropy: 0.255</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Bulk solvent k_sol(e/Å³), B_sol(Å²)</td>
<td>Bulk solvent k_sol: 0.32 , 62.9</td>
<td>EDS</td>
</tr>
<tr>
<td></td>
<td>B_sol: 62.9</td>
<td>EDS</td>
</tr>
<tr>
<td>L-test for twinning</td>
<td>&lt;</td>
<td>L</td>
</tr>
<tr>
<td>Estimated twinning fraction</td>
<td>Estimated twinning fraction: No to report.</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Fo,Fc correlation</td>
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<td>Average B, all atoms (Å²): 47.0</td>
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</tr>
</tbody>
</table>

Xtriage’s analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.48% of the height of the origin peak. No significant pseudotranslation is detected.

---

1Intensities estimated from amplitudes.
2Theoretical values of < |L| >, < L² > for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.
5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LHG, OEX, PHO, DGD, CL, CLA, PL9, FE2, SQD, BCT, HEM, FME, UNL, BCR, LMG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all $Z$ scores of the bond lengths (or angles).

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<th>Bond lengths</th>
<th>Bond angles</th>
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<td>0.30</td>
<td>1/693 (0.1%)</td>
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<td>0/785</td>
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<td>u</td>
<td>0.24</td>
<td>0/785</td>
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<tr>
<td>16</td>
<td>v</td>
<td>0.23</td>
<td>0/1094</td>
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</table>
### Bond lengths

| Mol | Chain | RMSZ | #|Z| >5 | Bond angles | RMSZ | #|Z| >5 |
|-----|-------|------|---|---|----------------|------|---|---|
| 17  | Y     | 0.24 | 0/201 | 0.39 | 0/268 |
| 17  | y     | 0.24 | 0/225 | 0.37 | 0/301 |
| 18  | X     | 0.24 | 0/284 | 0.37 | 0/384 |
| 18  | x     | 0.24 | 0/291 | 0.38 | 0/392 |
| 19  | Z     | 0.24 | 0/490 | 0.35 | 0/669 |
| 19  | z     | 0.24 | 0/489 | 0.36 | 0/669 |
| 20  | R     | 0.22 | 0/279 | 0.40 | 0/383 |
| 20  | r     | 0.22 | 0/276 | 0.36 | 0/379 |
| All | All   | 0.25 | 1/43035 (0.0%) | 0.40 | 0/58572 |

All (1) bond length outliers are listed below:

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<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
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<td>ILE</td>
<td>C-N</td>
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<td>1.34</td>
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</table>

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

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<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
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<th>H(added)</th>
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The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 4.

All (383) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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<tr>
<th>Atom-1</th>
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<th>Interatomic distance (Å)</th>
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There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

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<th>Chain</th>
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<th>Favoured</th>
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<td>327 (98%)</td>
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<tr>
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<tr>
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<tr>
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<td>9</td>
<td>J</td>
<td>34/40 (85%)</td>
<td>33 (97%)</td>
<td>1 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>9</td>
<td>j</td>
<td>34/40 (85%)</td>
<td>33 (97%)</td>
<td>1 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>10</td>
<td>K</td>
<td>35/46 (76%)</td>
<td>35 (100%)</td>
<td>0</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>10</td>
<td>k</td>
<td>35/46 (76%)</td>
<td>35 (100%)</td>
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<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>11</td>
<td>L</td>
<td>35/37 (95%)</td>
<td>35 (100%)</td>
<td>0</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>11</td>
<td>l</td>
<td>35/37 (95%)</td>
<td>35 (100%)</td>
<td>0</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
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<td>M</td>
<td>32/36 (89%)</td>
<td>30 (94%)</td>
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<td>1 (3%)</td>
<td>4 2</td>
</tr>
<tr>
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<td>m</td>
<td>31/36 (86%)</td>
<td>30 (97%)</td>
<td>1 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>13</td>
<td>O</td>
<td>244/272 (90%)</td>
<td>235 (96%)</td>
<td>8 (3%)</td>
<td>1 (0%)</td>
<td>36 39</td>
</tr>
<tr>
<td>13</td>
<td>o</td>
<td>244/272 (90%)</td>
<td>229 (94%)</td>
<td>11 (4%)</td>
<td>4 (2%)</td>
<td>11 6</td>
</tr>
<tr>
<td>14</td>
<td>T</td>
<td>28/32 (88%)</td>
<td>27 (96%)</td>
<td>1 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>14</td>
<td>t</td>
<td>28/32 (88%)</td>
<td>28 (100%)</td>
<td>0</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>15</td>
<td>U</td>
<td>95/134 (71%)</td>
<td>91 (96%)</td>
<td>4 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>15</td>
<td>u</td>
<td>95/134 (71%)</td>
<td>91 (96%)</td>
<td>4 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>16</td>
<td>V</td>
<td>135/163 (83%)</td>
<td>130 (96%)</td>
<td>5 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>16</td>
<td>v</td>
<td>136/163 (83%)</td>
<td>130 (96%)</td>
<td>5 (4%)</td>
<td>1 (1%)</td>
<td>24 23</td>
</tr>
<tr>
<td>17</td>
<td>Y</td>
<td>25/46 (54%)</td>
<td>25 (100%)</td>
<td>0</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>17</td>
<td>y</td>
<td>28/46 (61%)</td>
<td>27 (96%)</td>
<td>1 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>18</td>
<td>X</td>
<td>36/41 (88%)</td>
<td>34 (94%)</td>
<td>1 (3%)</td>
<td>1 (3%)</td>
<td>5 2</td>
</tr>
<tr>
<td>18</td>
<td>x</td>
<td>37/41 (90%)</td>
<td>36 (97%)</td>
<td>1 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>19</td>
<td>Z</td>
<td>60/62 (97%)</td>
<td>59 (98%)</td>
<td>1 (2%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
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<td>z</td>
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<td>57 (95%)</td>
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<td>1 (2%)</td>
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</tr>
<tr>
<td>20</td>
<td>R</td>
<td>32/41 (78%)</td>
<td>32 (100%)</td>
<td>0</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>20</td>
<td>r</td>
<td>32/41 (78%)</td>
<td>31 (97%)</td>
<td>1 (3%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>5258/5700 (92%)</td>
<td>5108 (97%)</td>
<td>137 (3%)</td>
<td>13 (0%)</td>
<td>49 57</td>
</tr>
</tbody>
</table>

All (13) Ramachandran outliers are listed below:

<table>
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<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>o</td>
<td>53</td>
<td>LYS</td>
</tr>
<tr>
<td>13</td>
<td>o</td>
<td>58</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>416</td>
<td>SER</td>
</tr>
</tbody>
</table>

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Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>c</td>
<td>416</td>
<td>SER</td>
</tr>
<tr>
<td>13</td>
<td>o</td>
<td>59</td>
<td>LYS</td>
</tr>
<tr>
<td>19</td>
<td>z</td>
<td>2</td>
<td>THR</td>
</tr>
<tr>
<td>13</td>
<td>o</td>
<td>54</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>6</td>
<td>GLY</td>
</tr>
<tr>
<td>12</td>
<td>M</td>
<td>32</td>
<td>GLN</td>
</tr>
<tr>
<td>18</td>
<td>X</td>
<td>3</td>
<td>ILE</td>
</tr>
<tr>
<td>16</td>
<td>v</td>
<td>16</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>259</td>
<td>ILE</td>
</tr>
</tbody>
</table>

### 5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>271/280 (97%)</td>
<td>270 (100%)</td>
<td>1 (0%)</td>
<td>92 94</td>
</tr>
<tr>
<td>1</td>
<td>a</td>
<td>270/280 (96%)</td>
<td>270 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>407/407 (100%)</td>
<td>403 (99%)</td>
<td>4 (1%)</td>
<td>78 85</td>
</tr>
<tr>
<td>2</td>
<td>b</td>
<td>403/407 (99%)</td>
<td>402 (100%)</td>
<td>1 (0%)</td>
<td>94 96</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>353/362 (98%)</td>
<td>352 (100%)</td>
<td>1 (0%)</td>
<td>93 96</td>
</tr>
<tr>
<td>3</td>
<td>c</td>
<td>353/362 (98%)</td>
<td>349 (99%)</td>
<td>4 (1%)</td>
<td>76 84</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>276/283 (98%)</td>
<td>275 (100%)</td>
<td>1 (0%)</td>
<td>92 94</td>
</tr>
<tr>
<td>4</td>
<td>d</td>
<td>276/283 (98%)</td>
<td>275 (100%)</td>
<td>1 (0%)</td>
<td>92 94</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>73/73 (100%)</td>
<td>72 (99%)</td>
<td>1 (1%)</td>
<td>69 79</td>
</tr>
<tr>
<td>5</td>
<td>e</td>
<td>73/73 (100%)</td>
<td>72 (99%)</td>
<td>1 (1%)</td>
<td>69 79</td>
</tr>
<tr>
<td>6</td>
<td>F</td>
<td>28/39 (72%)</td>
<td>28 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>6</td>
<td>f</td>
<td>28/39 (72%)</td>
<td>28 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>7</td>
<td>H</td>
<td>54/55 (98%)</td>
<td>52 (96%)</td>
<td>2 (4%)</td>
<td>37 44</td>
</tr>
<tr>
<td>7</td>
<td>h</td>
<td>53/55 (96%)</td>
<td>52 (98%)</td>
<td>1 (2%)</td>
<td>60 69</td>
</tr>
<tr>
<td>8</td>
<td>I</td>
<td>33/34 (97%)</td>
<td>32 (97%)</td>
<td>1 (3%)</td>
<td>44 53</td>
</tr>
<tr>
<td>8</td>
<td>i</td>
<td>32/34 (97%)</td>
<td>32 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>J</td>
<td>24/28 (86%)</td>
<td>24 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>9</td>
<td>j</td>
<td>24/28 (86%)</td>
<td>24 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>10</td>
<td>K</td>
<td>30/37 (81%)</td>
<td>29 (97%)</td>
<td>1 (3%)</td>
<td>41  50</td>
</tr>
<tr>
<td>10</td>
<td>k</td>
<td>30/37 (81%)</td>
<td>29 (97%)</td>
<td>1 (3%)</td>
<td>41  50</td>
</tr>
<tr>
<td>11</td>
<td>L</td>
<td>35/35 (100%)</td>
<td>35 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>11</td>
<td>l</td>
<td>35/35 (100%)</td>
<td>35 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>12</td>
<td>M</td>
<td>30/32 (94%)</td>
<td>30 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>12</td>
<td>m</td>
<td>29/32 (91%)</td>
<td>29 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>13</td>
<td>O</td>
<td>209/228 (92%)</td>
<td>207 (99%)</td>
<td>2 (1%)</td>
<td>78  85</td>
</tr>
<tr>
<td>13</td>
<td>o</td>
<td>209/228 (92%)</td>
<td>207 (99%)</td>
<td>2 (1%)</td>
<td>78  85</td>
</tr>
<tr>
<td>14</td>
<td>T</td>
<td>26/28 (93%)</td>
<td>26 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>14</td>
<td>t</td>
<td>26/28 (93%)</td>
<td>26 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>15</td>
<td>U</td>
<td>84/112 (75%)</td>
<td>84 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>15</td>
<td>u</td>
<td>84/112 (75%)</td>
<td>84 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>16</td>
<td>V</td>
<td>117/138 (85%)</td>
<td>117 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>16</td>
<td>v</td>
<td>118/138 (86%)</td>
<td>118 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>17</td>
<td>Y</td>
<td>20/37 (54%)</td>
<td>20 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>17</td>
<td>y</td>
<td>23/37 (62%)</td>
<td>23 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>18</td>
<td>X</td>
<td>31/34 (91%)</td>
<td>31 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>18</td>
<td>x</td>
<td>31/34 (91%)</td>
<td>31 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>19</td>
<td>Z</td>
<td>52/52 (100%)</td>
<td>51 (98%)</td>
<td>1 (2%)</td>
<td>60  69</td>
</tr>
<tr>
<td>19</td>
<td>z</td>
<td>52/52 (100%)</td>
<td>51 (98%)</td>
<td>1 (2%)</td>
<td>60  69</td>
</tr>
<tr>
<td>20</td>
<td>R</td>
<td>29/33 (88%)</td>
<td>28 (97%)</td>
<td>1 (3%)</td>
<td>40  49</td>
</tr>
<tr>
<td>20</td>
<td>r</td>
<td>28/33 (85%)</td>
<td>28 (100%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>4359/4654 (94%)</td>
<td>4331 (99%)</td>
<td>28 (1%)</td>
<td>87  92</td>
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</table>

All (28) residues with a non-rotameric sidechain are listed below:

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<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>228</td>
<td>THR</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>51</td>
<td>VAL</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>84</td>
<td>THR</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>246</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>362</td>
<td>PHE</td>
</tr>
</tbody>
</table>

Continued on next page...
Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:
5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

6 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Bond lengths</th>
<th>Bond angles</th>
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</thead>
<tbody>
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<td></td>
<td>Counts</td>
<td>RMSZ</td>
</tr>
<tr>
<td>8</td>
<td>FME</td>
<td>I</td>
<td>1</td>
<td>8</td>
<td>9,9,10</td>
<td>1.17</td>
</tr>
<tr>
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<td>FME</td>
<td>M</td>
<td>1</td>
<td>12</td>
<td>9,9,10</td>
<td>1.13</td>
</tr>
<tr>
<td>14</td>
<td>FME</td>
<td>T</td>
<td>1</td>
<td>14</td>
<td>9,9,10</td>
<td>1.16</td>
</tr>
<tr>
<td>8</td>
<td>FME</td>
<td>i</td>
<td>1</td>
<td>8</td>
<td>9,9,10</td>
<td>1.18</td>
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<tr>
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<td>FME</td>
<td>m</td>
<td>1</td>
<td>12</td>
<td>9,9,10</td>
<td>1.17</td>
</tr>
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<td>FME</td>
<td>t</td>
<td>1</td>
<td>14</td>
<td>9,9,10</td>
<td>1.18</td>
</tr>
</tbody>
</table>

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>FME</td>
<td>I</td>
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<td>8</td>
<td>-</td>
<td>0/5/9/11</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>12</td>
<td>FME</td>
<td>M</td>
<td>1</td>
<td>12</td>
<td>-</td>
<td>0/5/9/11</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>14</td>
<td>FME</td>
<td>T</td>
<td>1</td>
<td>14</td>
<td>-</td>
<td>0/5/9/11</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>8</td>
<td>FME</td>
<td>i</td>
<td>1</td>
<td>8</td>
<td>-</td>
<td>0/5/9/11</td>
<td>0/0/0/0</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
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There are no chirality outliers.
There are no torsion outliers.
There are no ring outliers.
No monomer is involved in short contacts.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 190 ligands modelled in this entry, 33 are unknown and 6 are monoatomic - leaving 151 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The
Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

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## Bond lengths

| Mol | Type | Chain | Res | Link | Counts | RMSZ | #|Z| > 2 | Counts | RMSZ | #|Z| > 2 |
|-----|------|-------|-----|------|--------|------|-----|-----|--------|--------|------|-----|-----|
| 25  | CLA  | d     | 402 | -    | 58,73,73 | 1.18 | 6 (10%) | 66,113,113 | 1.20 | 9 (13%) |
| 27  | BCR  | d     | 403 | -    | 41,41,41 | 1.07 | 2 (4%)  | 56,56,56   | 1.16 | 4 (7%)  |
| 28  | PL9  | d     | 404 | -    | 55,55,55 | 0.93 | 4 (7%)  | 69,69,69   | 1.46 | 10 (14%)|
| 30  | LHG  | d     | 405 | -    | 48,48,48 | 0.61 | 1 (2%)  | 51,54,54   | 1.25 | 7 (13%) |
| 30  | LHG  | d     | 406 | -    | 48,48,48 | 0.60 | 0       | 51,54,54   | 1.21 | 5 (9%)  |
| 32  | LMG  | d     | 407 | -    | 51,51,55 | 0.73 | 0       | 59,59,63   | 1.30 | 6 (10%) |
| 32  | LMG  | d     | 408 | -    | 33,36,55 | 0.13 | 0       | 31,35,63   | 1.33 | 3 (9%)  |
| 34  | HEM  | e     | 101 | 5,6  | 27,50,50 | 1.93 | 4 (14%) | 17,82,82   | 1.41 | 2 (11%) |
| 29  | SQD  | f     | 101 | -    | 40,41,54 | 1.07 | 3 (7%)  | 50,52,65   | 1.62 | 10 (20%)|
| 27  | BCR  | h     | 101 | -    | 41,41,41 | 1.06 | 2 (4%)  | 56,56,56   | 1.24 | 5 (8%)  |
| 33  | DGD  | h     | 102 | -    | 63,63,67 | 0.87 | 0       | 77,77,81   | 1.32 | 6 (7%)  |
| 30  | LHG  | l     | 101 | -    | 48,48,48 | 0.61 | 1 (2%)  | 51,54,54   | 1.21 | 6 (11%) |
| 32  | LMG  | m     | 102 | -    | 51,51,55 | 0.72 | 0       | 59,59,63   | 1.32 | 7 (11%) |
| 27  | BCR  | t     | 101 | -    | 41,41,41 | 1.09 | 2 (4%)  | 56,56,56   | 1.20 | 6 (10%) |
| 34  | HEM  | v     | 201 | 16   | 27,50,50 | 1.80 | 4 (14%) | 17,82,82   | 1.51 | 2 (11%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.
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5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.
6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

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6.2 Non-standard residues in protein, DNA, RNA chains

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6.3 Carbohydrates

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6.4 Ligands

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6.5 Other polymers

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