PDB ID : 6JLU
EMDB ID: : EMD-9839
Title : Structure of PSII-FCP supercomplex from a centric diatom Chaetoceros gracilis at 3.02 angstrom resolution
Authors : Pi, X.; Zhao, S.; Wang, W.; Kuang, T.; Sui, S.; Shen, J.
Deposited on : 2019-03-06
Resolution : 3.02 Å(reported)

This is a Full wwPDB/EMDataBank EM Map/Model Validation Report for a publicly released PDB/EMDB entry.

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

MolProbity : 4.02b-467
Mogul : 1.8.0 (224370), CSD as540be (2019)
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : 2.4
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**ELECTRON MICROSCOPY**

The reported resolution of this entry is 3.02 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>EM structures (#Entries)</th>
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The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for \( \geq 3 \), 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 indicated below the corresponding segment, with a dot representing fractions \( \leq 5\% \).

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The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

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## 2 Entry composition

There are 46 unique types of molecules in this entry. The entry contains 102777 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 PsbA.

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- Molecule 2 is a protein called PsbB.

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- Molecule 3 is a protein called PsbC.

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- Molecule 4 is a protein called PsbD.

<table>
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<tbody>
<tr>
<td>4</td>
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<td>341</td>
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<td>2696 1781 441 464 10</td>
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<td>4</td>
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<td>341</td>
<td>Total C N O S</td>
<td>2696 1781 441 464 10</td>
<td>0 0</td>
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</table>

- Molecule 5 is a protein called PsbE.
- Molecule 6 is a protein called PsbF.

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<th>AltConf</th>
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<tbody>
<tr>
<td>5</td>
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<td>Total C N O</td>
<td>642 415 106 121</td>
<td>0</td>
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<tr>
<td>5</td>
<td>e</td>
<td>79</td>
<td>Total C N O</td>
<td>642 415 106 121</td>
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</table>

- Molecule 7 is a protein called Psb31.

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<tr>
<td>6</td>
<td>F</td>
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<tr>
<td>6</td>
<td>f</td>
<td>32</td>
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<td>259 178 43 37 1</td>
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- Molecule 8 is a protein called Photosystem II reaction center protein H.

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<tr>
<td>7</td>
<td>G</td>
<td>122</td>
<td>Total C N O S</td>
<td>922 580 167 174 1</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>g</td>
<td>122</td>
<td>Total C N O S</td>
<td>922 580 167 174 1</td>
<td>0</td>
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</table>

- Molecule 9 is a protein called PsbI.

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<tr>
<td>8</td>
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<td>0</td>
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<tr>
<td>8</td>
<td>h</td>
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<td>Total C N O S</td>
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<td>0</td>
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- Molecule 10 is a protein called PsbJ.

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<tr>
<td>9</td>
<td>I</td>
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<td>Total C N O S</td>
<td>278 188 43 46 1</td>
<td>0</td>
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<td>i</td>
<td>34</td>
<td>Total C N O S</td>
<td>278 188 43 46 1</td>
<td>0</td>
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<tr>
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• Molecule 11 is a protein called PsbK.

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<tr>
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• Molecule 12 is a protein called PsbL.

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<tr>
<td>12</td>
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<tr>
<td>12</td>
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• Molecule 13 is a protein called PsbM.

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<th>Atoms</th>
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<tr>
<td>13</td>
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<tr>
<td>13</td>
<td>m</td>
<td>41</td>
<td>Total C N O</td>
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• Molecule 14 is a protein called Psb34.

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<tbody>
<tr>
<td>14</td>
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<tr>
<td>14</td>
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• Molecule 15 is a protein called Extrinsic protein in photosystem II.

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<tbody>
<tr>
<td>15</td>
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<td>249</td>
<td>Total C N O S</td>
<td>1881 1188 310 375 8</td>
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</tr>
<tr>
<td>15</td>
<td>o</td>
<td>249</td>
<td>Total C N O S</td>
<td>1881 1188 310 375 8</td>
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There are 4 discrepancies between the modelled and reference sequences:

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<td>conflict</td>
<td>UNP B6ZHE8</td>
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<tr>
<td>O</td>
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<td>GLU</td>
<td>ASP</td>
<td>conflict</td>
<td>UNP B6ZHE8</td>
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<tr>
<td>o</td>
<td>185</td>
<td>SER</td>
<td>ASN</td>
<td>conflict</td>
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<tr>
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<td>336</td>
<td>GLU</td>
<td>ASP</td>
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<td>UNP B6ZHE8</td>
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- Molecule 16 is a protein called FCP-D.

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<tr>
<td>16</td>
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<td>0</td>
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<tr>
<td>16</td>
<td>p</td>
<td>226</td>
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- Molecule 17 is a protein called Extrinsic protein in photosystem II.

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<td>0</td>
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<tr>
<td>17</td>
<td>q</td>
<td>147</td>
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There are 10 discrepancies between the modelled and reference sequences:

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<td>SER</td>
<td>ASN</td>
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<tr>
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<td>133</td>
<td>GLY</td>
<td>ALA</td>
<td>conflict</td>
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- Molecule 18 is a protein called PsbG.

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<tbody>
<tr>
<td>18</td>
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<td>Total C N O S 365 219 73 73</td>
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<table>
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<tbody>
<tr>
<td>18</td>
<td>r</td>
<td>73</td>
<td>Total C N O</td>
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<td>0</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>365 219 73 73</td>
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- Molecule 19 is a protein called PsbT.

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<tr>
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<td>250 174 36 38 2</td>
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<td></td>
<td></td>
<td>250 174 36 38 2</td>
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- Molecule 20 is a protein called Extrinsic protein in photosystem II.

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<td>711 454 119 136 2</td>
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<td>20</td>
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<td>93</td>
<td>Total C N O S</td>
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<tr>
<td></td>
<td></td>
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<td>711 454 119 136 2</td>
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There are 4 discrepancies between the modelled and reference sequences:

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<tr>
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<td>VAL</td>
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- Molecule 21 is a protein called Cytochrome c-550.

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<tr>
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There are 2 discrepancies between the modelled and reference sequences:

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- Molecule 22 is a protein called PsbW.
Molecule 23 is a protein called Photosystem II reaction center X protein.

Molecule 24 is a protein called PsbY.

Molecule 25 is a protein called PsbZ.

Molecule 26 is a protein called FCP-E.

Molecule 27 is a protein called FCP-A.
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- Molecule 29 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula: CaMn₄O₅).
Molecule 30 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Molecule 31 is CHLOROPHYLL A (three-letter code: CLA) (formula: C_{55}H_{72}MgN_{4}O_{5}).
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- Molecule 32 is PHEOPHYTIN A (three-letter code: PHO) (formula: $C_{55}H_{74}N_{4}O_{5}$).

![PHO](image)

- Molecule 33 is BETA-CAROTENE (three-letter code: BCR) (formula: $C_{40}H_{56}$).
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- Molecule 34 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOXYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C_{41}H_{78}O_{12}S).

![SQD](image)

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- Molecule 35 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula: C_{53}H_{80}O_{2}).

![PL9](image)

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- Molecule 36 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code:
LHG) (formula: $C_{38}H_{75}O_{10}P$).

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- Molecule 37 is BICARBONATE ION (three-letter code: BCT) (formula: CHO$_3$).

![BCT Diagram]

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- Molecule 38 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: $C_{45}H_{86}O_{10}$).

![LMG diagram]

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- Molecule 39 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: C_{51}H_{96}O_{15}).

### DGD

![DGD Diagram]

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- Molecule 40 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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- Molecule 41 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C_{34}H_{32}FeN_{4}O_{4}).

![HEM](image)

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- Molecule 42 is Chlorophyll c1 (three-letter code: KC1) (formula: C_{35}H_{30}Mg_{4}N_{5}O_{5}).

![KC1](https://example.com/kc1.png)

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- Molecule 43 is \((3S,3'\text{S},5R,5'R,6S,6'R,8'R)-3,5'-\text{dihydroxy-8-oxo-6',7'-didehydro-5,5',6,6',7,8-hexahydro-5,6-epoxy-beta,}\text{beta-caroten-3'-yl acetate} (\text{three-letter code: A86}) (\text{formula: \(C_{42}H_{58}O_{6}\))}.\)
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- Molecule 44 is (3S,3'R,5R,6S,7cis)-7',8'-didehydro-5,6-dihydro-5,6-epoxy-beta,beta-carotene -3,3'-diol (three-letter code: DD6) (formula: \( \text{C}_{40}\text{H}_{54}\text{O}_{3} \)).

![DD6](image.png)

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- Molecule 45 is Chlorophyll c2 (three-letter code: KC2) (formula: \( \text{C}_{35}\text{H}_{28}\text{MgN}_{4}\text{O}_{5} \)).
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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. 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. 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: PsbA

Chain A:

- Molecule 1: PsbA

Chain a:

- Molecule 2: PsbB

Chain B:

- Molecule 2: PsbB

Chain b:
• Molecule 3: PsbC

Chain C:

• Molecule 3: PsbC

Chain c:

• Molecule 4: PsbD

Chain D:

• Molecule 4: PsbD

Chain d:

• Molecule 5: PsbE

Chain E:
• Molecule 5: PsbE

Chain e: 100%
There are no outlier residues recorded for this chain.

• Molecule 6: PsbF

Chain F: 84% 16%

• Molecule 6: PsbF

Chain f: 100%
There are no outlier residues recorded for this chain.

• Molecule 7: Psb31

Chain G: 53% 16% 32%

• Molecule 7: Psb31

Chain g: 68% 32%

• Molecule 8: Photosystem II reaction center protein H

Chain H: 80% 20%

• Molecule 8: Photosystem II reaction center protein H

Chain h: 98%

• Molecule 9: PsbI

Chain I: 82% 18%
• Molecule 9: PsbI

Chain i:

There are no outlier residues recorded for this chain.

• Molecule 10: PsbJ

Chain J:

• Molecule 10: PsbJ

Chain j:

• Molecule 11: PsbK

Chain K:

There are no outlier residues recorded for this chain.

• Molecule 12: PsbL

Chain L:

• Molecule 12: PsbL

Chain l:

• Molecule 13: PsbM

Chain M:
- Molecule 13: PsbM

Chain m:

- Molecule 14: Psb34

Chain N:

- Molecule 14: Psb34

Chain n:

- Molecule 15: Extrinsic protein in photosystem II

Chain O:

- Molecule 15: Extrinsic protein in photosystem II

Chain o:

- Molecule 16: FCP-D

Chain P:

- Molecule 16: FCP-D

Chain p:
• Molecule 17: Extrinsic protein in photosystem II

Chain Q:

- 59% - 10% - 30%

• Molecule 17: Extrinsic protein in photosystem II

Chain q:

- 68% - 30%

• Molecule 18: PsbG

Chain R:

- 99%

• Molecule 18: PsbG

Chain r:

- 100%

There are no outlier residues recorded for this chain.

• Molecule 19: PsbT

Chain T:

- 81% - 16%

• Molecule 19: PsbT

Chain t:

- 97%

• Molecule 20: Extrinsic protein in photosystem II
Chain U:

- Molecule 20: Extrinsic protein in photosystem II

Chain u:

- Molecule 21: Cytochrome c-550

Chain V:

- Molecule 21: Cytochrome c-550

There are no outlier residues recorded for this chain.

Chain v:

- Molecule 22: PsbW

Chain W:

- Molecule 22: PsbW

Chain w:

- Molecule 23: Photosystem II reaction center X protein

Chain X:

- Molecule 23: Photosystem II reaction center X protein

There are no outlier residues recorded for this chain.
• Molecule 24: PsbY

Chain Y:

• Molecule 24: PsbY

Chain y:

• Molecule 25: PsbZ

Chain Z:

There are no outlier residues recorded for this chain.

• Molecule 25: PsbZ

Chain z:

• Molecule 26: FCP-E

Chain 0:

• Molecule 26: FCP-E

Chain 10:

• Molecule 27: FCP-A

Chain 1:
• Molecule 27: FCP-A

Chain 2:

• Molecule 27: FCP-A

Chain 3:

• Molecule 27: FCP-A

Chain 4:

• Molecule 27: FCP-A

Chain 5:

• Molecule 27: FCP-A

Chain 6:
• Molecule 27: FCP-A

Chain 7:

• Molecule 27: FCP-A

Chain 8:

• Molecule 27: FCP-A

Chain 11:

• Molecule 27: FCP-A

Chain 12:

• Molecule 27: FCP-A

Chain 13:

• Molecule 27: FCP-A
• Molecule 28: FCP-F

Chain 19:
4 Experimental information

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5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: LHG, FE2, OEX, A86, DGD, CL, KC2, DD6, PL9, CLA, KC1, HEM, BCT, PHO, SQD, 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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Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.
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### 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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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 8.

All (1499) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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### Interatomic Distance and Clash Overlap Table

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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 PDB entries followed by that with respect to all EM entries.

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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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 PDB entries followed by that with respect to all EM entries.

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

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All (6) residues with a non-rotameric sidechain are listed below:

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Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (112) such sidechains are listed below:

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5.3.3 RNA

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 536 ligands modelled in this entry, 4 are monoatomic - leaving 532 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 | RMS | #\(|Z| > 2\) | Counts | RMS | #\(|Z| > 2\) |
|------|------|-------|-----|------|--------|-----|-------------|--------|-----|-------------|
| 38   | LMG  | p     | 614 | -    | 31,31,55 | 0.94 | 1 (3%)      | 39,39,63 | 1.68 | 9 (23%)     |
| 36   | LHG  | p     | 615 | -    | 26,26,48 | 0.86 | 1 (3%)      | 29,32,54 | 1.34 | 3 (10%)     |
| 31   | CLA  | r     | 101 | -    | 39,55,73 | 1.24 | 5 (12%)     | 44,91,113 | 1.81 | 9 (20%)     |
| 41   | HEM  | v     | 201 | 21   | 27,50,50 | 1.85 | 5 (18%)     | 17,82,82 | 2.36 | 8 (47%)     |
| 38   | LMG  | w     | 202 | -    | 48,48,55 | 0.97 | 6 (12%)     | 56,56,63 | 1.39 | 9 (16%)     |
| 36   | LHM  | w     | 202 | -    | 39,39,48 | 0.66 | 1 (2%)      | 42,45,54 | 1.20 | 4 (9%)      |

### Bond angles

| Mol  | Type | Chain | Res | Link | COUNTS | RMS | #\(|Z| > 2\) | COUNTS | RMS | #\(|Z| > 2\) |
|------|------|-------|-----|------|--------|-----|-------------|--------|-----|-------------|
| 31   | CLA  | w     | 203 | -    | 57,73,73 | 1.06 | 6 (10%)     | 66,113,113 | 1.73 | 14 (21%)    |
| 39   | DGD  | w     | 204 | -    | 57,57,67 | 1.15 | 6 (10%)     | 71,71,81 | 1.46 | 10 (14%)    |
| 33   | BCR  | y     | 101 | -    | 41,41,41 | 1.32 | 4 (9%)      | 56,56,56 | 1.59 | 12 (21%)    |

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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31 | 18 | 314 | CLA | C1D-C2D | 2.01 | 1.47 | 1.42
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31 | b | 606 | CLA | CAC-C3C | -2.01 | 1.45 | 1.51
31 | p | 603 | CLA | C3B-CAB | -2.01 | 1.43 | 1.47
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38 | f | 102 | LMG | O2-C2 | -2.01 | 1.38 | 1.43
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Continued on next page...
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient

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equivalents in the CSD to analyse the geometry.
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Bond lengths

Bond angles

Torsions

Rings
Ligand A86 1 305

Bond lengths

Bond angles

Torsions

Rings

Ligand A86 1 306

Bond lengths

Bond angles

Torsions

Rings
Ligand KC2 1 309

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA 1 310

Bond lengths

Bond angles

Torsions

Rings
Ligand KC2 1 311

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA 1 312

Bond lengths

Bond angles

Torsions

Rings

Ligand CLA 1 313

Bond lengths

Bond angles

Torsions

Rings
Ligand CLA 1 315

Bond lengths

Bond angles

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Bond lengths

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Ligand CLA 10 313

Bond lengths

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Bond angles

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Bond angles

Torsions

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Bond lengths

Bond angles

Torsions

Rings

Ligand A86 11 302

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Rings

Ligand A86 11 303

Bond lengths

Bond angles

Torsions

Rings
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Bond lengths

Bond angles

Torsions

Rings

Ligand LMG 11 317

Bond lengths

Bond angles

Torsions

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Bond angles

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Ligand A86 11 319

Bond lengths

Bond angles

Torsions

Rings

Ligand A86 11 320

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Ligand KC1 13 314

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Ligand A86 17 306

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Bond lengths

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Rings
Ligand KC1 3 314

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Rings
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Bond lengths

Bond angles

Torsions

Rings

Ligand DGD B 621

Bond lengths

Bond angles

Torsions

Rings
Ligand BCR F 101

Bond lengths

Bond angles

Torsions

Rings

Ligand LMG F 102

Bond lengths

Bond angles

Torsions

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Bond lengths

Bond angles

Torsions

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Torsions

Rings
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Ligand BCR y 101

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Torsions

Bond angles

Rings
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.