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

- Cyrange : Kirchner and Güntert (2011)
- NmrClust : Kelley et al. (1996)
- MolProbity : 4.02b-467
- Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
- RCI : v_in_11_15_13_A (Berjanski et al., 2005)
- PANAV : Wang et al. (2010)
- ShiftChecker : trunk28760
- Ideal geometry (proteins) : Engh & Huber (2001)
- Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
- Validation Pipeline (wwPDB-VP) : recalc28949
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**SOLUTION NMR**

The overall completeness of chemical shifts assignment was not calculated.

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.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>NMR archive (#Entries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clashscore</td>
<td>125131</td>
<td>11601</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>121729</td>
<td>10391</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>121581</td>
<td>10367</td>
</tr>
</tbody>
</table>

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for \(>=3\), \(2\), \(1\) and \(0\) types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and 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 <=5%.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>180</td>
<td></td>
</tr>
</tbody>
</table>

![Graphic showing metric percentile ranks and values]

![Table showing metric scores and entries]

![Color segments indicating geometric quality and modeled residue fractions]
2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

The following residues are included in the computation of the global validation metrics.

<table>
<thead>
<tr>
<th>Well-defined (core) protein residues</th>
<th>Backbone RMSD (Å)</th>
<th>Medoid model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well-defined core</td>
<td>Residue range (total)</td>
<td></td>
</tr>
</tbody>
</table>

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 2 clusters. No single-model clusters were found.

<table>
<thead>
<tr>
<th>Cluster number</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1, 3, 4, 6, 7, 10, 11, 15, 16, 17, 19</td>
</tr>
<tr>
<td>2</td>
<td>2, 5, 8, 9, 12, 13, 14, 18, 20</td>
</tr>
</tbody>
</table>
3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2803 atoms, of which 1413 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called LEUKEMIA INHIBITORY FACTOR.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>180</td>
<td>Total</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2803</td>
<td>882</td>
</tr>
</tbody>
</table>

There are 12 discrepancies between the modelled and reference sequences:

<table>
<thead>
<tr>
<th>Chain</th>
<th>Residue</th>
<th>Modelled</th>
<th>Actual</th>
<th>Comment</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>56</td>
<td>LEU</td>
<td>VAL</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>57</td>
<td>ASP</td>
<td>GLU</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>61</td>
<td>GLY</td>
<td>ALA</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>64</td>
<td>VAL</td>
<td>MET</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>69</td>
<td>PRO</td>
<td>SER</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>72</td>
<td>ALA</td>
<td>GLY</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>78</td>
<td>ALA</td>
<td>THR</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>107</td>
<td>SER</td>
<td>THR</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>112</td>
<td>HIS</td>
<td>GLN</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>113</td>
<td>SER</td>
<td>VAL</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
<tr>
<td>A</td>
<td>155</td>
<td>VAL</td>
<td>ALA</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
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<tr>
<td>A</td>
<td>158</td>
<td>LYS</td>
<td>ARG</td>
<td>CONFLICT</td>
<td>UNP P09056</td>
</tr>
</tbody>
</table>
4  Residue-property plots

4.1  Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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 outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2  Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1  Score per residue for model 1 (medoid)

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
4.2.2 Score per residue for model 2

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.3 Score per residue for model 3

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.4 Score per residue for model 4

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
4.2.5 Score per residue for model 5

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.6 Score per residue for model 6

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.7 Score per residue for model 7

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
4.2.8 Score per residue for model 8

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.9 Score per residue for model 9

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.10 Score per residue for model 10

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
4.2.11 Score per residue for model 11

• Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.12 Score per residue for model 12

• Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.13 Score per residue for model 13

• Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
4.2.14 Score per residue for model 14

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.15 Score per residue for model 15

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

4.2.16 Score per residue for model 16

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
4.2.17 Score per residue for model 17

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

![Score per residue for model 17](image)

4.2.18 Score per residue for model 18

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

![Score per residue for model 18](image)

4.2.19 Score per residue for model 19

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:

![Score per residue for model 19](image)
4.2.20  Score per residue for model 20

- Molecule 1: LEUKEMIA INHIBITORY FACTOR

Chain A:
5 Refinement protocol and experimental data overview

The models were refined using the following method: \textit{DISTANCE GEOMETRY}.

Of the 1000 calculated structures, 20 were deposited, based on the following criterion: \textit{LEAST RESTRAINT VIOLATION}.

The following table shows the software used for structure solution, optimisation and refinement.

<table>
<thead>
<tr>
<th>Software name</th>
<th>Classification</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-PLOR</td>
<td>refinement</td>
<td></td>
</tr>
<tr>
<td>DYANA</td>
<td>structure solution</td>
<td></td>
</tr>
<tr>
<td>X-PLOR</td>
<td>structure solution</td>
<td></td>
</tr>
</tbody>
</table>

No chemical shift data was provided. No validations of the models with respect to experimental NMR restraints is performed at this time.
6  Model quality

6.1  Standard geometry

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 (average) root-mean-square of all Z scores of the bond lengths (or angles).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RMSZ</td>
<td>#Z&gt;5</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1.27±0.02</td>
<td>0/1017 (0.0±0.0%)</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1.27</td>
<td>0/20340 (0.0%)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Chirality</th>
<th>Planarity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>0.0±0.0</td>
<td>0.1±0.3</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
<th>Models</th>
<th>Worst</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>132</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.01</td>
<td>114.79</td>
<td>120.30</td>
<td>5</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>169</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>9.68</td>
<td>126.81</td>
<td>121.00</td>
<td>12</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>169</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-9.39</td>
<td>115.37</td>
<td>121.00</td>
<td>12</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>85</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-9.34</td>
<td>115.63</td>
<td>120.30</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>85</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-9.16</td>
<td>115.72</td>
<td>120.30</td>
<td>18</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>123</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.63</td>
<td>115.98</td>
<td>120.30</td>
<td>5</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>52</td>
<td>PHE</td>
<td>CB-CG-CD2</td>
<td>-7.94</td>
<td>115.24</td>
<td>120.80</td>
<td>8</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>84</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-7.46</td>
<td>116.52</td>
<td>121.00</td>
<td>1</td>
<td>9</td>
<td></td>
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<td>99</td>
<td>ARG</td>
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<td>-7.11</td>
<td>116.75</td>
<td>120.30</td>
<td>14</td>
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<tr>
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<td>A</td>
<td>52</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>6.97</td>
<td>125.68</td>
<td>120.80</td>
<td>8</td>
<td>5</td>
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<tr>
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<td>125.09</td>
<td>121.00</td>
<td>7</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>A</td>
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<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.77</td>
<td>112.21</td>
<td>118.30</td>
<td>14</td>
<td>2</td>
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<tr>
<td>1</td>
<td>A</td>
<td>45</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>6.30</td>
<td>124.78</td>
<td>121.00</td>
<td>17</td>
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<td></td>
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<tr>
<td>1</td>
<td>A</td>
<td>156</td>
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<td>6.23</td>
<td>125.16</td>
<td>120.80</td>
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<td>116.71</td>
<td>120.80</td>
<td>13</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
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<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
<th>Models</th>
<th>Worst</th>
<th>Total</th>
</tr>
</thead>
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<td>CA-CB-SG</td>
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<td>113.35</td>
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<td>118</td>
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<td>OG1-CB-CG2</td>
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<td>110.00</td>
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<td>1</td>
</tr>
<tr>
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<td>A</td>
<td>84</td>
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<td>A</td>
<td>84</td>
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<td>101.17</td>
<td>110.60</td>
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<td>163</td>
<td>CYS</td>
<td>CA-CB-SG</td>
<td>5.18</td>
<td>123.33</td>
<td>114.00</td>
<td>11</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>84</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>5.17</td>
<td>124.10</td>
<td>121.00</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>159</td>
<td>LYS</td>
<td>N-CA-CB</td>
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<td>101.35</td>
<td>110.60</td>
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</tr>
<tr>
<td>1</td>
<td>A</td>
<td>88</td>
<td>ALA</td>
<td>CB-CA-C</td>
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<td>117.79</td>
<td>110.10</td>
<td>11</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>50</td>
<td>GLU</td>
<td>OE1-CD-OE2</td>
<td>5.00</td>
<td>129.30</td>
<td>123.30</td>
<td>14</td>
<td>1</td>
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</table>

There are no chirality outliers.

All unique planar outliers are listed below.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Group</th>
<th>Models (Total)</th>
</tr>
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<td>68</td>
<td>PRO</td>
<td>Peptide</td>
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</table>

6.2 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 each 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 averaged over the ensemble.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
</tr>
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<tbody>
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<td>1038</td>
<td>1038</td>
<td>76±10</td>
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<tr>
<td>All</td>
<td>All</td>
<td>20000</td>
<td>20760</td>
<td>20760</td>
<td>1519</td>
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</table>

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 37.
All unique clashes are listed below, sorted by their clash magnitude.

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Clash(Å)</th>
<th>Distance(Å)</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:41:PHE:CE1</td>
<td>1:A:60:CYS:SG</td>
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<td>2.69</td>
<td>19</td>
</tr>
<tr>
<td>1:A:52:PHE:CD1</td>
<td>1:A:60:CYS:SG</td>
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<td>2.73</td>
<td>20</td>
</tr>
<tr>
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<td>1:A:176:VAL:HG12</td>
<td>0.75</td>
<td>2.17</td>
<td>6</td>
</tr>
<tr>
<td>1:A:36:SER:HA</td>
<td>1:A:39:ALA:HB3</td>
<td>0.73</td>
<td>1.61</td>
<td>17</td>
</tr>
<tr>
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<td>1:A:60:CYS:SG</td>
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<td>2.26</td>
<td>1</td>
</tr>
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<td>2.22</td>
<td>17</td>
</tr>
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<th>Distance(Å)</th>
<th>Models</th>
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<tr>
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</table>

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Continued from previous page...

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<tr>
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<th>Distance(Å)</th>
<th>Models</th>
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## wwPDB NMR Structure Validation Report 1A7M

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| Atom-1               | Atom-2               | Clash(Å) | Distance(Å) | Models
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<td>1:A:87:VAL:N</td>
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<td>19</td>
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<td>2.55</td>
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</tbody>
</table>

6.3 Torsion angles

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

<table>
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<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>126/180 (70%)</td>
<td>98±4 (78±3%)</td>
<td>23±4 (18±3%)</td>
<td>5±2 (4±2%)</td>
<td>6 33</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>2520/3600 (70%)</td>
<td>1957 (78%)</td>
<td>463 (18%)</td>
<td>100 (4%)</td>
<td>6 33</td>
</tr>
</tbody>
</table>

All 23 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

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<thead>
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<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
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<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>52</td>
<td>PHE</td>
<td>16</td>
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<tr>
<td>1</td>
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<td>1</td>
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<td>1</td>
<td>A</td>
<td>70</td>
<td>PHE</td>
<td>11</td>
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<td>A</td>
<td>161</td>
<td>LEU</td>
<td>9</td>
</tr>
<tr>
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<td>A</td>
<td>53</td>
<td>PRO</td>
<td>9</td>
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<td>A</td>
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<td>GLU</td>
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<td>GLU</td>
<td>3</td>
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<td>VAL</td>
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<td>ILE</td>
<td>2</td>
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<td>PRO</td>
<td>2</td>
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<td>153</td>
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<td>129</td>
<td>VAL</td>
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6.3.2 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 NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

<table>
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<th>Analysed</th>
<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
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<td>92±3 (82±2%)</td>
<td>21±3 (18±2%)</td>
<td>5 38</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>2240/3160 (71%)</td>
<td>1830 (82%)</td>
<td>410 (18%)</td>
<td>5 38</td>
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</table>

All 80 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

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6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no carbohydrates in this entry.

6.6 Ligand geometry

There are no ligands in this entry.
6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.
7 Chemical shift validation

No chemical shift data were provided