Full wwPDB NMR Structure Validation Report

Feb 12, 2017 – 06:49 pm GMT

PDB ID : 1MA6
Title : TPY4 Tachyplesin I tyrosine mutant in the presence of dodecylphosphocholin e micelles (300 mM)
Authors : Laederach, A.; Andreotti, A.H.; Fulton, D.B.
Deposited on : 2002-07-31

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at http://wwpdb.org/validation/2016/NMRValidationReportHelp 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:

- 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_5_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>17</td>
<td>35%</td>
</tr>
</tbody>
</table>
2 Ensemble composition and analysis

This entry contains 31 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>Residue range (total)</th>
<th>Backbone RMSD (Å)</th>
<th>Medoid model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A:1-A:16 (16)</td>
<td>0.97</td>
<td>1</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 7 clusters and 1 single-model cluster was found.

<table>
<thead>
<tr>
<th>Cluster number</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1, 2, 5, 10, 14, 27</td>
</tr>
<tr>
<td>2</td>
<td>12, 13, 17, 18, 20, 29</td>
</tr>
<tr>
<td>3</td>
<td>3, 7, 9, 15, 24, 28</td>
</tr>
<tr>
<td>4</td>
<td>11, 21, 22, 30</td>
</tr>
<tr>
<td>5</td>
<td>6, 19, 26</td>
</tr>
<tr>
<td>6</td>
<td>4, 23, 25</td>
</tr>
<tr>
<td>7</td>
<td>16, 31</td>
</tr>
<tr>
<td>Single-model clusters</td>
<td>8</td>
</tr>
</tbody>
</table>
3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 357 atoms, of which 176 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Tachyplesin I.

<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>17</td>
<td>Total C  H  N  O</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>357  123  176  34  24</td>
<td></td>
</tr>
</tbody>
</table>

There are 4 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>3</td>
<td>TYR</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P14213</td>
</tr>
<tr>
<td>A</td>
<td>7</td>
<td>TYR</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P14213</td>
</tr>
<tr>
<td>A</td>
<td>12</td>
<td>TYR</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P14213</td>
</tr>
<tr>
<td>A</td>
<td>16</td>
<td>TYR</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P14213</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: Tachyplesin I

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: Tachyplesin I

Chain A:

4.2.2 Score per residue for model 2

- Molecule 1: Tachyplesin I

Chain A:
4.2.3 Score per residue for model 3

- Molecule 1: Tachyplesin I

Chain A:

![Score distribution for Chain A of model 3]

4.2.4 Score per residue for model 4

- Molecule 1: Tachyplesin I

Chain A:

![Score distribution for Chain A of model 4]

4.2.5 Score per residue for model 5

- Molecule 1: Tachyplesin I

Chain A:

![Score distribution for Chain A of model 5]

4.2.6 Score per residue for model 6

- Molecule 1: Tachyplesin I

Chain A:

![Score distribution for Chain A of model 6]

4.2.7 Score per residue for model 7

- Molecule 1: Tachyplesin I

Chain A:

![Score distribution for Chain A of model 7]
4.2.8  Score per residue for model 8

- Molecule 1: Tachyplesin I

Chain A:

4.2.9  Score per residue for model 9

- Molecule 1: Tachyplesin I

Chain A:

4.2.10 Score per residue for model 10

- Molecule 1: Tachyplesin I

Chain A:

4.2.11 Score per residue for model 11

- Molecule 1: Tachyplesin I

Chain A:

4.2.12 Score per residue for model 12

- Molecule 1: Tachyplesin I

Chain A:
4.2.13 Score per residue for model 13

Molecule 1: Tachyplesin I

Chain A:

4.2.14 Score per residue for model 14

Molecule 1: Tachyplesin I

Chain A:

4.2.15 Score per residue for model 15

Molecule 1: Tachyplesin I

Chain A:

4.2.16 Score per residue for model 16

Molecule 1: Tachyplesin I

Chain A:

4.2.17 Score per residue for model 17

Molecule 1: Tachyplesin I

Chain A:
4.2.18  Score per residue for model 18

- Molecule 1: Tachyplesin I

Chain A:

4.2.19  Score per residue for model 19

- Molecule 1: Tachyplesin I

Chain A:

4.2.20  Score per residue for model 20

- Molecule 1: Tachyplesin I

Chain A:

4.2.21  Score per residue for model 21

- Molecule 1: Tachyplesin I

Chain A:

4.2.22  Score per residue for model 22

- Molecule 1: Tachyplesin I

Chain A:
4.2.23  Score per residue for model 23

- Molecule 1: Tachyplesin I

Chain A:

4.2.24  Score per residue for model 24

- Molecule 1: Tachyplesin I

Chain A:

4.2.25  Score per residue for model 25

- Molecule 1: Tachyplesin I

Chain A:

4.2.26  Score per residue for model 26

- Molecule 1: Tachyplesin I

Chain A:

4.2.27  Score per residue for model 27

- Molecule 1: Tachyplesin I

Chain A:
4.2.28 Score per residue for model 28

- Molecule 1: Tachyplesin I

Chain A:

4.2.29 Score per residue for model 29

- Molecule 1: Tachyplesin I

Chain A:

4.2.30 Score per residue for model 30

- Molecule 1: Tachyplesin I

Chain A:

4.2.31 Score per residue for model 31

- Molecule 1: Tachyplesin I

Chain A:
5 Refinement protocol and experimental data overview

The models were refined using the following method: *Simulated annealing with complete cross validation*.

Of the 300 calculated structures, 31 were deposited, based on the following criterion: *structures with the lowest energy*.

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>CNS</td>
<td>structure solution</td>
<td>1.0</td>
</tr>
<tr>
<td>CNS</td>
<td>refinement</td>
<td>1.0</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>0.37±0.05</td>
<td>0±0/178 (0.0±0.0%)</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>0.37</td>
<td>0/5518 (0.0%)</td>
</tr>
</tbody>
</table>

There are no bond-length outliers.

All unique angle outliers are listed below.

<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-5.66</td>
<td>117.61</td>
<td>121.00</td>
<td>30</td>
</tr>
</tbody>
</table>

There are no chirality outliers.

There are no planarity outliers.

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>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>169</td>
<td>163</td>
<td>163</td>
<td>41±8</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>5239</td>
<td>5053</td>
<td>5053</td>
<td>1285</td>
</tr>
</tbody>
</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 125.

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:2:TRP:CD2</td>
<td>1:A:11:ILE:HD12</td>
<td>1.05</td>
<td>1.85</td>
<td>8</td>
</tr>
</tbody>
</table>

Continued on next page...
### Atom-1 vs Atom-2: Clash and Distance

<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:2:TRP:CE3</td>
<td>1:A:3:TYR:CE1</td>
<td>1.02</td>
<td>2.48</td>
<td>26</td>
</tr>
<tr>
<td>1:A:5:ARG:NH2</td>
<td>1:A:8:TYR:HB3</td>
<td>0.99</td>
<td>1.71</td>
<td>27</td>
</tr>
<tr>
<td>1:A:2:TRP:C</td>
<td>1:A:3:TYR:HD1</td>
<td>0.97</td>
<td>1.63</td>
<td>26</td>
</tr>
<tr>
<td>1:A:2:TRP:CE3</td>
<td>1:A:3:TYR:N</td>
<td>0.97</td>
<td>2.32</td>
<td>7</td>
</tr>
<tr>
<td>1:A:2:TRP:CZ2</td>
<td>1:A:11:ILE:HG21</td>
<td>0.96</td>
<td>1.96</td>
<td>31</td>
</tr>
<tr>
<td>1:A:3:TYR:HD1</td>
<td>1:A:3:TYR:N</td>
<td>0.95</td>
<td>1.58</td>
<td>26</td>
</tr>
<tr>
<td>1:A:2:TRP:CD2</td>
<td>1:A:3:TYR:CE1</td>
<td>0.95</td>
<td>2.55</td>
<td>26</td>
</tr>
<tr>
<td>1:A:3:TYR:O</td>
<td>1:A:6:VAL:HG13</td>
<td>0.94</td>
<td>1.60</td>
<td>15</td>
</tr>
<tr>
<td>1:A:2:TRP:O</td>
<td>1:A:3:TYR:CG</td>
<td>0.93</td>
<td>2.21</td>
<td>10</td>
</tr>
<tr>
<td>1:A:2:TRP:CD2</td>
<td>1:A:11:ILE:HD13</td>
<td>0.93</td>
<td>1.97</td>
<td>22</td>
</tr>
<tr>
<td>1:A:1:LYS:CB</td>
<td>1:A:11:ILE:HD11</td>
<td>0.92</td>
<td>1.95</td>
<td>12</td>
</tr>
<tr>
<td>1:A:3:TYR:CD1</td>
<td>1:A:3:TYR:N</td>
<td>0.91</td>
<td>2.31</td>
<td>26</td>
</tr>
<tr>
<td>1:A:8:TYR:HD1</td>
<td>1:A:9:ARG:N</td>
<td>0.89</td>
<td>1.65</td>
<td>30</td>
</tr>
<tr>
<td>1:A:5:ARG:NH1</td>
<td>1:A:11:ILE:HD11</td>
<td>0.88</td>
<td>1.82</td>
<td>19</td>
</tr>
<tr>
<td>1:A:8:TYR:CD1</td>
<td>1:A:9:ARG:N</td>
<td>0.86</td>
<td>2.42</td>
<td>30</td>
</tr>
<tr>
<td>1:A:5:ARG:NE</td>
<td>1:A:7:TYR:CD1</td>
<td>0.84</td>
<td>2.46</td>
<td>26</td>
</tr>
<tr>
<td>1:A:2:TRP:CE3</td>
<td>1:A:4:PHE:CE1</td>
<td>0.83</td>
<td>2.65</td>
<td>26</td>
</tr>
<tr>
<td>1:A:2:TRP:CG</td>
<td>1:A:11:ILE:HD12</td>
<td>0.83</td>
<td>2.09</td>
<td>19</td>
</tr>
<tr>
<td>1:A:2:TRP:C</td>
<td>1:A:3:TYR:CD1</td>
<td>0.82</td>
<td>2.51</td>
<td>26</td>
</tr>
<tr>
<td>1:A:1:LYS:HA</td>
<td>1:A:11:ILE:HD11</td>
<td>0.82</td>
<td>1.49</td>
<td>20</td>
</tr>
<tr>
<td>1:A:8:TYR:C</td>
<td>1:A:8:TYR:HD1</td>
<td>0.82</td>
<td>1.78</td>
<td>30</td>
</tr>
<tr>
<td>1:A:2:TRP:O</td>
<td>1:A:3:TYR:CD1</td>
<td>0.81</td>
<td>2.33</td>
<td>10</td>
</tr>
<tr>
<td>1:A:9:ARG:O</td>
<td>1:A:11:ILE:N</td>
<td>0.80</td>
<td>2.13</td>
<td>25</td>
</tr>
<tr>
<td>1:A:2:TRP:CD1</td>
<td>1:A:3:TYR:CE1</td>
<td>0.79</td>
<td>2.70</td>
<td>1</td>
</tr>
<tr>
<td>1:A:2:TRP:CD1</td>
<td>1:A:11:ILE:HD13</td>
<td>0.79</td>
<td>2.12</td>
<td>21</td>
</tr>
<tr>
<td>1:A:8:TYR:C</td>
<td>1:A:8:TYR:CD1</td>
<td>0.78</td>
<td>2.55</td>
<td>30</td>
</tr>
<tr>
<td>1:A:2:TRP:CZ3</td>
<td>1:A:6:VAL:N</td>
<td>0.78</td>
<td>2.52</td>
<td>7</td>
</tr>
<tr>
<td>1:A:1:LYS:HB3</td>
<td>1:A:11:ILE:HD11</td>
<td>0.78</td>
<td>1.52</td>
<td>12</td>
</tr>
<tr>
<td>1:A:2:TRP:CZ3</td>
<td>1:A:4:PHE:CE1</td>
<td>0.77</td>
<td>2.72</td>
<td>31</td>
</tr>
<tr>
<td>1:A:1:LYS:CG</td>
<td>1:A:11:ILE:HD11</td>
<td>0.77</td>
<td>2.09</td>
<td>12</td>
</tr>
<tr>
<td>1:A:8:TYR:CD2</td>
<td>1:A:11:ILE:CG1</td>
<td>0.77</td>
<td>2.68</td>
<td>13</td>
</tr>
<tr>
<td>1:A:10:GLY:O</td>
<td>1:A:11:ILE:HD12</td>
<td>0.76</td>
<td>1.80</td>
<td>21</td>
</tr>
<tr>
<td>1:A:2:TRP:NE1</td>
<td>1:A:11:ILE:HG21</td>
<td>0.76</td>
<td>1.96</td>
<td>19</td>
</tr>
<tr>
<td>1:A:1:LYS:CB</td>
<td>1:A:6:VAL:HG23</td>
<td>0.76</td>
<td>2.11</td>
<td>19</td>
</tr>
<tr>
<td>1:A:5:ARG:O</td>
<td>1:A:6:VAL:HG13</td>
<td>0.76</td>
<td>1.80</td>
<td>7</td>
</tr>
<tr>
<td>1:A:1:LYS:O</td>
<td>1:A:2:TRP:CG</td>
<td>0.76</td>
<td>2.39</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<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:6:VAL:C</td>
<td>1:A:7:TYR:CD1</td>
<td>0.76</td>
<td>2.59</td>
<td>7</td>
</tr>
<tr>
<td>1:A:1:LYS:O</td>
<td>1:A:3:TYR:CD1</td>
<td>0.75</td>
<td>2.39</td>
<td>4</td>
</tr>
<tr>
<td>1:A:8:TYR:CG</td>
<td>1:A:9:ARG:N</td>
<td>0.75</td>
<td>2.54</td>
<td>3</td>
</tr>
<tr>
<td>1:A:1:LYS:HB2</td>
<td>1:A:11:ILE:CD1</td>
<td>0.75</td>
<td>2.12</td>
<td>25</td>
</tr>
<tr>
<td>1:A:2:TRP:CZ3</td>
<td>1:A:5:ARG:CG</td>
<td>0.74</td>
<td>2.70</td>
<td>27</td>
</tr>
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<td>26</td>
</tr>
<tr>
<td>1:A:3:TYR:CD1</td>
<td>1:A:4:PHE:N</td>
<td>0.41</td>
<td>2.89</td>
<td>10</td>
</tr>
<tr>
<td>1:A:8:TYR:CE1</td>
<td>1:A:11:ILE:CG1</td>
<td>0.41</td>
<td>3.04</td>
<td>9</td>
</tr>
<tr>
<td>1:A:4:PHE:CD2</td>
<td>1:A:5:ARG:NH2</td>
<td>0.41</td>
<td>2.89</td>
<td>6</td>
</tr>
<tr>
<td>1:A:8:TYR:HZ</td>
<td>1:A:9:ARG:HG3</td>
<td>0.41</td>
<td>3.03</td>
<td>22</td>
</tr>
</tbody>
</table>

Continued on next page...
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>
<thead>
<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>15/17 (88%)</td>
<td>5±2 (35±12%)</td>
<td>5±2 (31±13%)</td>
<td>5±2 (33±11%)</td>
<td>0 0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>465/527 (88%)</td>
<td>164 (35%)</td>
<td>146 (31%)</td>
<td>155 (33%)</td>
<td>0 0</td>
</tr>
</tbody>
</table>

All 15 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>4</td>
<td>PHE</td>
<td>21</td>
</tr>
</tbody>
</table>

Continued on next page...
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.

### Protein sidechains

All 15 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>8</td>
<td>TYR</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>16</td>
<td>TYR</td>
<td>14</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>13</td>
<td>TYR</td>
<td>11</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>11</td>
<td>ILE</td>
<td>9</td>
</tr>
</tbody>
</table>

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