

Full wwPDB NMR Structure Validation Report (i)

Jun 15, 2024 – 07:44 PM EDT

| PDB ID | : | 2MX6 |
|--------------|---|---|
| BMRB ID | : | 25394 |
| Title | : | Complex structure of Dvl PDZ domain with ligand |
| Authors | : | Zhang, X.; Zheng, J.J. |
| Deposited on | : | 2014-12-15 |

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 https://www.wwpdb.org/validation/2017/NMRValidationReportHelp with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

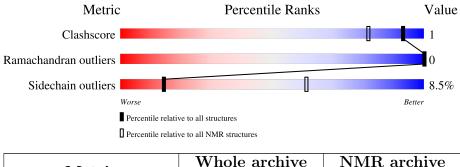
| MolProbity | : | 4.02b-467 |
|--------------------------------|---|--|
| Mogul | : | 2022.3.0, CSD as 543 be (2022) |
| Percentile statistics | : | 20191225.v01 (using entries in the PDB archive December 25th 2019) |
| wwPDB-RCI | : | v_1n_11_5_13_A (Berjanski et al., 2005) |
| PANAV | : | Wang et al. (2010) |
| wwPDB-ShiftChecker | : | v1.2 |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | | |
| Validation Pipeline (wwPDB-VP) | : | 2.37.1 |

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $SOLUTION\ NMR$

The overall completeness of chemical shifts assignment is 7%.

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.



| Metric | Whole archive (#Entries) | ${f NMR} \ {f archive} \ (\#{f Entries})$ |
|-----------------------|-----------------------------|---|
| Clashscore | 158937 | 12864 |
| Ramachandran outliers | 154571 | 11451 |
| Sidechain outliers | 154315 | 11428 |

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%

| Mol | Chain | Length | | Quality of chain | | | |
|-----|-------|--------|-----|------------------|-----|------|---|
| 1 | А | 90 | | 88% | | • 8% | • |
| 2 | В | 3 | 33% | 33% | 33% | | |



2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 10 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

| Well-defined (core) protein residues | | | | | | |
|--------------------------------------|---------------------------|-------------------|--------------|--|--|--|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model | | | |
| 1 | A:248-A:269, A:277-A:337, | 0.29 | 10 | | | |
| | B:2-B:3 (85) | | | | | |

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 3 clusters and 1 single-model cluster was found.

| Cluster number | Models |
|-----------------------|--------------------------|
| 1 | 2, 4, 7, 8, 9, 16, 19 |
| 2 | 5, 6, 12, 13, 15, 18, 20 |
| 3 | 1, 3, 10, 11, 14 |
| Single-model clusters | 17 |



3 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 1408 atoms, of which 703 are hydrogens and 0 are deuteriums.

• Molecule 1 is a protein called Segment polarity protein dishevelled homolog DVL-1.

| Mol | Chain | Residues | | Atoms | | | | | Trace |
|-----|-------|----------|-------|-------|-----|-----|-----|---|-------|
| 1 | Δ | 00 | Total | С | Η | Ν | 0 | S | 0 |
| | I A | A 90 | 1350 | 414 | 677 | 121 | 134 | 4 | 0 |

• Molecule 2 is a protein called (PHQ)WV peptide.

| Mol | Chain | Residues | Atoms | | | | Trace | |
|-----|-------|----------|-------|----|----|---|-------|---|
| 0 | D | 9 | Total | С | Η | Ν | 0 | 0 |
| | 2 B | 3 | 58 | 24 | 26 | 3 | 5 | 0 |



4 Residue-property plots (i)

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide 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.

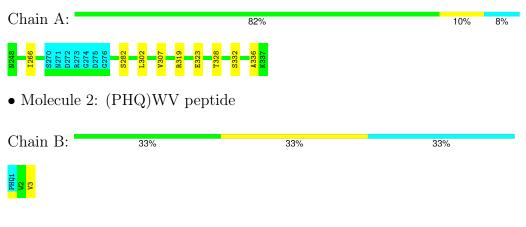
• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | | 88% | • 8% |
|--------------------------------------|--|-----|------|
| N248 S265 1266 S270 N271 | R273 0276 0276 0276 0276 0327 K337 K337 | | |
| • Molecule | e 2: (PHQ)WV peptide | | |
| Chain B: | 33% | 33% | 33% |
| V2 V3 V3 | | | |

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





4.2.2 Score per residue for model 2

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

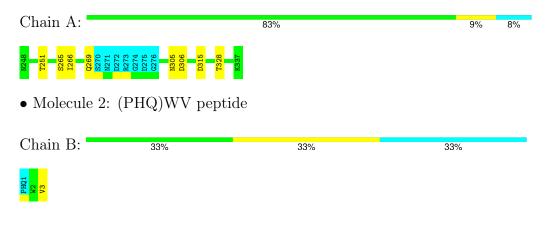
| Chain A: | 86% | 7% | 8% |
|--|-----|-----|----|
| 1266 1266 8270 8272 8274 8275 8274 8275 8275 8275 8275 8276 8276 8276 8276 8276 8278 8278 8278 | | | |
| • Molecule 2: (PHQ)WV peptide | | | |
| Chain B: 33% | 33% | 33% | |
| V3 | | | |

4.2.3 Score per residue for model 3

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | 88% | • | 8% |
|---|------------------|---|----|
| N248 1251 1266 1266 1266 1275 8277 8277 8275 8275 8275 8275 8275 8 | 831 833 33 | | |
| • Molecule 2: (PHQ) | WV peptide | | |
| Chain B: 33% | 33% 33% | | |
| V3 V3 V3 | | | |

4.2.4 Score per residue for model 4





4.2.5 Score per residue for model 5

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

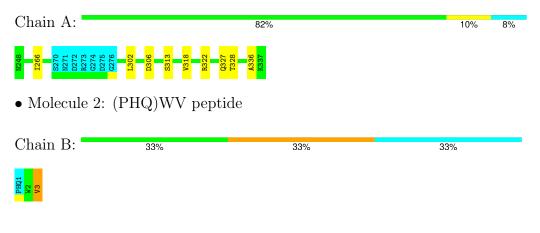
| Chain A: | 83% | 9% | 8% |
|---|-----|-----|----|
| N248 2665 12666 1271 8270 8270 8276 6274 0275 6274 0275 1333 1328 1333 1328 13335 13336 13366 13376 13376 13376 13376 13376 13376 13376 133777 133776 1337777 1337777 13377777777 | | | |
| • Molecule 2: (PHQ)WV peptide | | | |
| Chain B: 33% | 33% | 33% | |
| V3 | | | |

4.2.6 Score per residue for model 6

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | | 87% | 6% | 8% |
|--|---|-----|----|----|
| N248 V252 S265 1266 S270 N371 | 0272 R273 G274 0275 G276 C276 C276 C276 C276 C276 C276 C276 C | | | |
| • Molecule | 2: (PHQ)WV peptide | | | |
| Chain B: | 67% | 3 | 3% | |
| PHq1 W2 V3 | | | | |

4.2.7 Score per residue for model 7





4.2.8 Score per residue for model 8

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

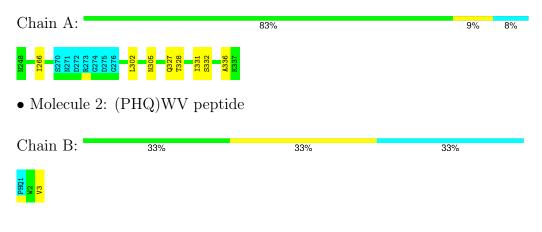
| Chain A: | 86% | 7% 8% | |
|---|-----|-------|---|
| N248 2565 12665 12665 277 1266 277 1266 1277 1277 1276 1276 1 | | | |
| • Molecule 2: (PHQ)WV peptide | | | |
| Chain B: 33% | 33% | 33% | • |
| W2 W3 | | | |

4.2.9 Score per residue for model 9

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | | 81% | 11% 8% |
|--|--|--------------------------------------|--------|
| N248 265 270 8271 8271 8273 6274 6274 | L302 L302 V307 S313 D315 D315 V318 | н322 q327 д326 к337 к337 | |
| • Molecule 2: | (PHQ)WV pept | tide | |
| Chain B: | 33% | 33% | 33% |
| PHQ1 W2 V3 | | | |

4.2.10 Score per residue for model 10 (medoid)





4.2.11 Score per residue for model 11

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | 82% | 10% 8% |
|--|------------------------------|--------|
| 248 1251 1251 1266 1266 1266 1272 1276 1277 1277 127 | V318 K322 K332 K337 | |
| • Molecule 2: (PHQ)WV | \vee peptide | |
| Chain B: 33% | 33% | 33% |
| V3 V3 | | |

4.2.12 Score per residue for model 12

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | | 80% | 12% 8% |
|--|--|--|--------|
| R274 R277 R277 R277 R277 R274 R274 R274 | 6276 8282 L302 L302 L321 V325 8326 | 1328 1328 8332 8336 8336 8336 | |
| • Molecule 2: (Pl | HQ)WV pepti | de | |
| Chain B: | 33% | 33% | 33% |
| PHq1 W2 V3 | | | |

4.2.13 Score per residue for model 13

| Chain A: | 81% | 11% | 8% |
|--|-------------------------|-----|----|
| N248 266 1266 8270 8271 8277 8275 8275 8275 8275 8276 8276 8276 8276 8313 8313 8313 8313 8313 8313 8313 831 | 13.28 K3.37 K3.37 | | |
| • Molecule 2: (PHQ)WV peptide | 2 | | |
| Chain B: 33% | 33% | 33% | |
| W2 W | | | |



4.2.14 Score per residue for model 14

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

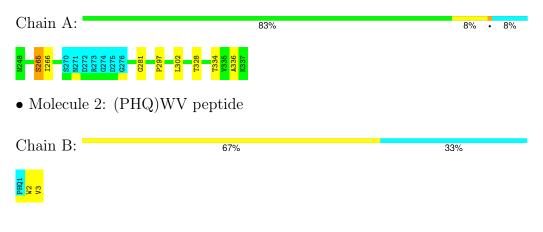
| Chain A: | | 74% | 18% | 8% |
|--|--|---|-----|----|
| N248 2265 1266 1266 1266 1277 1277 1277 1277 1277 | S282 L302 U304 N305 D305 V307 | D315 L321 L321 E322 E323 C525 C525 C525 C525 C525 C525 C525 C | | |
| • Molecule 2: (PH | Q)WV peptie | de | | |
| Chain B: | 33% | 33% | 33% | |
| PHQ1 W2 V3 | | | | |

4.2.15 Score per residue for model 15

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | | 84% | 7% | • | 8% |
|--|--|-----|-----|---|----|
| N248 S265 1266 S270 N271 D272 | R273 G274 D276 S282 S282 S282 B315 D315 C327 C327 C327 C327 C327 C327 C327 C327 | | | | |
| • Molecule | 2: (PHQ)WV peptide | | | | |
| Chain B: | 67% | | 33% | | |
| PHQ1 W2 V3 | | | | | |

4.2.16 Score per residue for model 16





4.2.17 Score per residue for model 17

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

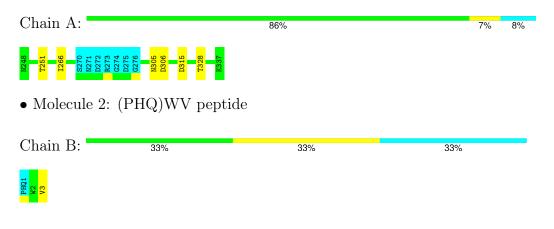
| Chain A: | 80% | 12% | 8% |
|--|--|-----|----|
| N248 1261 1265 1266 1266 8270 8270 8270 8271 8277 8277 8277 8277 8277 8277 8277 | D306 M312 C1327 C1328 C1333 C533 C533 C533 C533 C533 C533 C53 | | |
| • Molecule 2: (PHQ) | WV peptide | | |
| Chain B: 33% | 33% | 33% | _ |
| W2 V3 V3 | | | |

4.2.18 Score per residue for model 18

• Molecule 1: Segment polarity protein dishevelled homolog DVL-1

| Chain A: | | 78% | 14% 8% |
|--------------------------------------|--|---|--------|
| N248 T251 V252 T253 L262 | 2265 1266 1266 2270 2272 1273 6274 6275 6276 6276 6276 6276 2276 2276 2276 | D306 3313 332 1333 13333 13333 13333 13333 13335 N335 N | |
| • Molecule | e 2: (PHQ)WV pepti | de | |
| Chain B: | 33% | 33% | 33% |
| PHQ1 W2 V3 | | | |

4.2.19 Score per residue for model 19





4.2.20 Score per residue for model 20

| Chain A: | | 80% | 12% | 8% |
|--|--|--|-----|----|
| N248 1266 8270 8271 8273 8273 6275 6275 6275 8282 | D306 B313 B314 D314 D315 V318 R322 | 43.27 13.28 13.38 13.34 13.34 13.34 | | |
| • Molecule 2: (PHQ)WV peptide | | | | |
| Chain B: | 33% | 33% | 33% | |
| PHQ1 W2 V3 | | | | |



5 Refinement protocol and experimental data overview (i)

The models were refined using the following method: torsion angle dynamics, simulated annealing.

Of the 200 calculated structures, 20 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.

| Software name | Classification | Version |
|---------------|--------------------|---------|
| CNS | structure solution | |
| CNS | refinement | |

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

| Chemical shift file(s) | working_cs.cif |
|--|----------------|
| Number of chemical shift lists | 1 |
| Total number of shifts | 89 |
| Number of shifts mapped to atoms | 89 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 7% |



6 Model quality (i)

6.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: PHQ

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts (i)

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.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|-----|-------|-------|----------|----------|---------|
| 1 | А | 624 | 639 | 634 | 2 ± 1 |
| 2 | В | 22 | 19 | 18 | 0±1 |
| All | All | 12920 | 13160 | 13040 | 35 |

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 1.

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

| Atom-1 | Atom-2 | $Clash(\lambda)$ | Distance(Å) | Models | |
|------------------|------------------|------------------|-------------|--------|-------|
| Atom-1 | Atom-2 Clash(Å) | | Distance(Å) | Worst | Total |
| 1:A:302:LEU:HD11 | 1:A:336:ALA:HB2 | 0.64 | 1.68 | 16 | 10 |
| 1:A:304:VAL:O | 1:A:307:VAL:HG22 | 0.53 | 2.02 | 14 | 1 |
| 1:A:318:VAL:O | 1:A:322:ARG:HG3 | 0.49 | 2.07 | 13 | 5 |
| 1:A:322:ARG:HA | 2:B:3:VAL:HG11 | 0.48 | 1.84 | 8 | 3 |
| 1:A:265:SER:HB3 | 2:B:2:TRP:CE2 | 0.47 | 2.45 | 6 | 3 |
| 1:A:305:ASN:O | 1:A:306:ASP:HB2 | 0.45 | 2.11 | 14 | 3 |
| 1:A:265:SER:HB3 | 2:B:2:TRP:CZ2 | 0.44 | 2.47 | 6 | 2 |
| 1:A:319:ARG:O | 1:A:323:GLU:HG2 | 0.43 | 2.13 | 1 | 1 |
| 1:A:252:VAL:O | 1:A:332:SER:HA | 0.42 | 2.14 | 6 | 1 |
| 1:A:261:PHE:HB2 | 2:B:3:VAL:O | 0.42 | 2.15 | 12 | 1 |
| 1:A:281:GLY:O | 1:A:297:PRO:HB3 | 0.41 | 2.15 | 16 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Moo | dels |
|------------------|------------------|----------|-------------|-------|-------|
| Atom-1 | Atom-2 | Clash(A) | Distance(A) | Worst | Total |
| 1:A:321:LEU:O | 1:A:325:VAL:HG23 | 0.41 | 2.16 | 14 | 2 |
| 1:A:251:THR:HA | 1:A:333:LEU:O | 0.41 | 2.16 | 17 | 1 |
| 1:A:305:ASN:HD21 | 1:A:331:ILE:HG23 | 0.40 | 1.75 | 10 | 1 |

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6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles |
|-----|-------|-----------------|-------------------------|-------------------|------------|-------------|
| 1 | А | 81/90~(90%) | $75 \pm 1 (93 \pm 1\%)$ | $6\pm1~(7\pm1\%)$ | 0±0 (0±0%) | 100 100 |
| 2 | В | 0 | - | - | - | - |
| All | All | 1620/1860~(87%) | 1503~(93%) | 117 (7%) | 0 (0%) | 100 100 |

There are no Ramachandran outliers.

6.3.2 Protein sidechains (i)

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.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles |
|-----|-------|-----------------|--------------------|--------------------|-------------|
| 1 | А | 69/74~(93%) | 64 ± 2 (93±3%) | $5\pm2~(7\pm3\%)$ | 18 66 |
| 2 | В | 2/2~(100%) | $1\pm0~(50\pm0\%)$ | $1\pm0~(50\pm0\%)$ | 0 1 |
| All | All | 1420/1520~(93%) | 1299~(91%) | 121 (9%) | 14 61 |

All 19 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 2 | В | 3 | VAL | 20 |
| 1 | А | 328 | THR | 18 |

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| ZWIA0 |
|-------|
|-------|

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | А | 265 | SER | 11 |
| 1 | А | 327 | GLN | 11 |
| 1 | А | 282 | SER | 10 |
| 1 | А | 332 | SER | 9 |
| 1 | А | 313 | SER | 8 |
| 1 | А | 315 | ASP | 7 |
| 1 | А | 306 | ASP | 6 |
| 1 | А | 251 | THR | 5 |
| 1 | А | 334 | THR | 5 |
| 1 | А | 307 | VAL | 2 |
| 1 | А | 269 | GLN | 2 |
| 1 | А | 262 | LEU | 2 |
| 1 | А | 318 | VAL | 1 |
| 1 | А | 323 | GLU | 1 |
| 1 | А | 305 | ASN | 1 |
| 1 | А | 312 | MET | 1 |
| 1 | А | 253 | THR | 1 |

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6.3.3 RNA (i)

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains (i)

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

6.5 Carbohydrates (i)

There are no monosaccharides in this entry.

6.6 Ligand geometry (i)

There are no ligands in this entry.

6.7 Other polymers (i)

There are no such molecules in this entry.



6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



7 Chemical shift validation (i)

The completeness of assignment taking into account all chemical shift lists is 7% for the well-defined parts and 7% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: assigned_chem_shift_list_1

7.1.1 Bookkeeping (i)

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

| Total number of shifts | 89 |
|---|----|
| Number of shifts mapped to atoms | 89 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 3 |

7.1.2 Chemical shift referencing (i)

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 7%, i.e. 86 atoms were assigned a chemical shift out of a possible 1148. 0 out of 16 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}\mathrm{H}$ | $^{13}\mathrm{C}$ | $^{15}\mathbf{N}$ |
|-----------|--------------|------------------|-------------------|-------------------|
| Backbone | 5/430~(1%) | 4/177~(2%) | 1/170~(1%) | 0/83~(0%) |
| Sidechain | 76/661~(11%) | 53/435~(12%) | 23/203~(11%) | 0/23~(0%) |
| Aromatic | 5/57~(9%) | 5/28~(18%) | 0/24~(0%) | 0/5~(0%) |
| Overall | 86/1148~(7%) | 62/640~(10%) | 24/397~(6%) | 0/111~(0%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 7%, i.e. 86 atoms were assigned a chemical shift out of a possible 1221. 0 out of 16 assigned methyl groups (LEU and VAL) were assigned stereospecifically.



| | Total | $^{1}\mathbf{H}$ | $^{13}\mathrm{C}$ | $^{15}\mathbf{N}$ |
|-----------|--------------|------------------|-------------------|-------------------|
| Backbone | 5/467~(1%) | 4/193~(2%) | 1/184 (1%) | 0/90~(0%) |
| Sidechain | 76/697~(11%) | 53/456~(12%) | 23/214 (11%) | 0/27~(0%) |
| Aromatic | 5/57~(9%) | 5/28~(18%) | 0/24~(0%) | 0/5~(0%) |
| Overall | 86/1221 (7%) | 62/677~(9%) | 24/422~(6%) | 0/122~(0%) |

7.1.4 Statistically unusual chemical shifts (i)

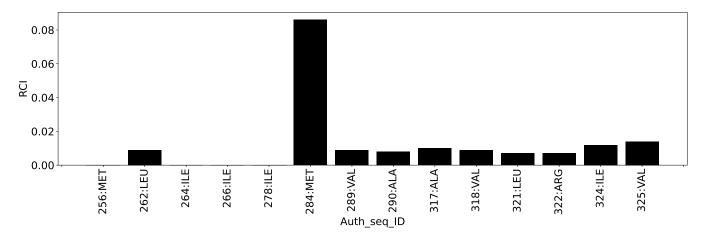
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

| List Id | Chain | Res | Type | Atom | Shift, ppm | Expected range, ppm | Z-score |
|---------|-------|-----|------|------|--------------|---------------------|---------|
| 1 | А | 325 | VAL | HB | 15.44 | 0.43 - 3.54 | 43.3 |
| 1 | А | 289 | VAL | CA | 24.09 | 48.38 - 76.73 | -13.6 |
| 1 | А | 325 | VAL | CB | 15.60 | 23.86 - 41.50 | -9.7 |

7.1.5 Random Coil Index (RCI) plots (i)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



