

wwPDB NMR Structure Validation Summary Report (i)

Jun 24, 2024 – 08:58 AM EDT

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This is a wwPDB NMR Structure Validation Summary 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:

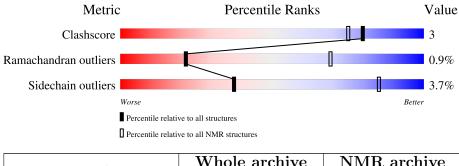
| MolProbity | : | 4.02b-467 |
|--------------------------------|---|--|
| Percentile statistics | : | 20191225.v01 (using entries in the PDB archive December 25th 2019) |
| wwPDB-RCI | : | v_1n_11_5_13_A (Berjanski et al., 2005) |
| PANAV | : | Wang et al. (2010) |
| wwPDB-ShiftChecker | : | v1.2 |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | 2.37.1 |

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $SOLID\text{-}STATE\ NMR$

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 | $egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$ | ${f NMR} { m archive} \ (\#{ m Entries})$ | | | | |
|-----------------------|--|--|--|--|--|--|
| 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 | 108 | 2 6% • 73% |
| 1 | В | 108 | 2 6% • 73% |
| 1 | С | 108 | 27% 73% |
| 1 | D | 108 | 25% • 73% |
| 1 | Е | 108 | 27% 73% |



2 Ensemble composition and analysis (i)

This entry contains 12 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.

| | Well-defined (core) p | protein residues | |
|-------------------|---|-------------------|--------------|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1 | A:1-A:29, B:1-B:29, C:1- C:29, D:1-D:29, E:1-E:29 (145) | 1.04 | 1 |

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 and 1 single-model cluster was found.

| Cluster number | Models |
|-----------------------|------------------------|
| 1 | 1, 2, 3, 4, 5, 6, 8, 9 |
| 2 | 7, 11, 12 |
| Single-model clusters | 10 |



3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2210 atoms, of which 1095 are hydrogens and 0 are deuteriums.

| Mol | Chain | Residues | | A | Atom | 5 | | | Trace |
|-----|-------|----------|-------|-----|------|----|----|---|-------|
| 1 | А | 29 | Total | С | Н | Ν | 0 | S | 0 |
| | A | 29 | 442 | 138 | 219 | 39 | 44 | 2 | 0 |
| 1 | В | 29 | Total | С | Η | Ν | Ο | S | 0 |
| | D | 29 | 442 | 138 | 219 | 39 | 44 | 2 | 0 |
| 1 | С | 29 | Total | С | Н | Ν | Ο | S | 0 |
| | U | 29 | 442 | 138 | 219 | 39 | 44 | 2 | 0 |
| 1 | D | 29 | Total | С | Н | Ν | Ο | S | 0 |
| | D | 29 | 442 | 138 | 219 | 39 | 44 | 2 | 0 |
| 1 | Е | 29 | Total | С | Η | Ν | Ο | S | 0 |
| | Ľ | 29 | 442 | 138 | 219 | 39 | 44 | 2 | U |

• Molecule 1 is a protein called Receptor-interacting serine/threonine-protein kinase 3.

There are 35 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------------------|------------|
| А | -35 | MET | - | initiating methionine | UNP Q9Y572 |
| А | -34 | HIS | - | expression tag | UNP Q9Y572 |
| А | -33 | HIS | - | expression tag | UNP Q9Y572 |
| А | -32 | HIS | - | expression tag | UNP Q9Y572 |
| А | -31 | HIS | - | expression tag | UNP Q9Y572 |
| А | -30 | HIS | - | expression tag | UNP Q9Y572 |
| А | -29 | HIS | - | expression tag | UNP Q9Y572 |
| В | -35 | MET | - | initiating methionine | UNP Q9Y572 |
| В | -34 | HIS | - | expression tag | UNP Q9Y572 |
| В | -33 | HIS | - | expression tag | UNP Q9Y572 |
| В | -32 | HIS | - | expression tag | UNP Q9Y572 |
| В | -31 | HIS | - | expression tag | UNP Q9Y572 |
| В | -30 | HIS | - | expression tag | UNP Q9Y572 |
| В | -29 | HIS | - | expression tag | UNP Q9Y572 |
| С | -35 | MET | - | initiating methionine | UNP Q9Y572 |
| С | -34 | HIS | - | expression tag | UNP Q9Y572 |
| С | -33 | HIS | - | expression tag | UNP Q9Y572 |
| С | -32 | HIS | - | expression tag | UNP Q9Y572 |
| С | -31 | HIS | - | expression tag | UNP Q9Y572 |
| С | -30 | HIS | - | expression tag | UNP Q9Y572 |
| С | -29 | HIS | - | expression tag | UNP Q9Y572 |
| D | -35 | MET | - | initiating methionine | UNP Q9Y572 |
| D | -34 | HIS | - | expression tag | UNP Q9Y572 |

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| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------------------|------------|
| D | -33 | HIS | - | expression tag | UNP Q9Y572 |
| D | -32 | HIS | - | expression tag | UNP Q9Y572 |
| D | -31 | HIS | - | expression tag | UNP Q9Y572 |
| D | -30 | HIS | - | expression tag | UNP Q9Y572 |
| D | -29 | HIS | - | expression tag | UNP Q9Y572 |
| Е | -35 | MET | - | initiating methionine | UNP Q9Y572 |
| Е | -34 | HIS | - | expression tag | UNP Q9Y572 |
| E | -33 | HIS | - | expression tag | UNP Q9Y572 |
| Е | -32 | HIS | - | expression tag | UNP Q9Y572 |
| Е | -31 | HIS | - | expression tag | UNP Q9Y572 |
| Е | -30 | HIS | - | expression tag | UNP Q9Y572 |
| Е | -29 | HIS | - | expression tag | UNP Q9Y572 |

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4 Residue-property plots (i)

4.1 Average score per residue in the NMR ensemble

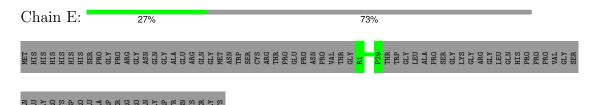
These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for 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: Receptor-interacting serine/threonine-protein kinase 3

| Chain A: | 26% | · | 73% |
|---|--|--|--|
| MET HIS HIS HIS HIS HIS HIS SER PRO CLY | GLY ASN GLN GLN GLV GLU ARG | GLN MET ASN ASN TRP STRP CYS CYS CYS CYS CYS CYS CYS CYS CYS CYS | A1 120 120 120 120 120 120 120 120 120 12 |
| GLY SER GLN GLN GLV GLV PR0 CLY PR0 GLU GLU TRP | SER ARG PRO GLN GLY TRP TRP | ASN HIS SER GLY LYS | |
| • Molecule 1: R | eceptor-in | teracting serine/threoni | ine-protein kinase 3 |
| Chain B: | 26% | | 73% |
| MET HIS HIS HIS HIS HIS HIS SER PRO CLY ARG | GLY ASN GLN GLN GLY ALA ALA ARG | GLN GLN MET MET ASN TRP SER CYS CYS CYS CYS CYS FRO CYS ASN PRO PRO CLU PRO CLU TUN CUT | R1 120 120 120 120 121 122 123 123 123 123 123 123 123 123 |
| GLY SER GLN GLU GLU PRO LYS ASP ALA ALA | SER ARG GLN GLY TRP TYR | ASN HIS SER CLY LYS | |
| • Molecule 1: R | eceptor-in | teracting serine/threoni | ine-protein kinase 3 |
| Chain C: | 27% | | 73% |
| MET HIS HIS HIS HIS HIS HIS FIS FIS FIS FIS FIS FIS FIS FIS FIS F | GLY ASN GLN GLY ALA GLU ARG | GLN GLN MET ASN TTRP ASN TTRP SER ASN PRO GLU PRO PRO PRO CVS ASN CVS CVS CVS CVS CVS CVS CVS CVS CVS CVS | R1 THR THR THR THR TRP CL/Y CL/Y CL/Y CL/Y CL/Y CL/Y CL/Y CL/Y |
| GLN GLV GLY PRO ASP PRO GLU GLU TRP SER ARG | PRO GLN GLY TRP TYR ASN HIS | LYS LYS | |
| • Molecule 1: R | eceptor-in | teracting serine/threoni | ine-protein kinase 3 |
| Chain D: | 25% | | 73% |
| MET HIS HIS HIS HIS HIS SER SER PRO CLY PRO | GLY ASN GLN GLY ALA GLU ARG | GLIN MET MET ASN TRP SER SER SER SER CYS CYS CYS FRO CUU PRO PRO PRO CUU VAL TVAL CUV CUV CUV CUV CUV CUV CUV CUV CUV CUV | RAL L20 L20 L20 L20 LEU LEU LEU LEU LEU LEU LEU LEU PRO PRO PRO |



• Molecule 1: Receptor-interacting serine/threonine-protein kinase 3



| ច | 5 | 5 | Ы | 5 | A | Ы | 5 | A | F | 5 | A | Ы | 5 | 5 | F | F | A | H | S | ច | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | |

4.2 Residue scores for the representative (medoid) model from the NMR ensemble

The representative model is number 1. Colouring as in section 4.1 above.

• Molecule 1: Receptor-interacting serine/threonine-protein kinase 3

| Chain A: | 26% | • | | 73% | | |
|--|---|---|--|-----|--|--------------------------|
| MET HIS HIS HIS HIS HIS HIS SER | PRO GLY PRO ARG GLY GLN GLN | ALA GLU GLN GLN MET ASN TRP | SEA CYS ARG PRO GLU PRO ASN VAL THR GLY | L20 | P29 THR CLUY CLUY CLUY CLUY ALA CLUY CLUY CLU CLU CLU CLU CLU | PRO PRO PRO VAL |

GLY GLU GLU GLU GLU PRO PRO GLU TTRP PRO GLU TTRP PRO GLU TTRP PRO GLU TTRP PRO GLN TTRP PRO GLN TTRP TTRP TTRP TTRP CULN CONTON CONTON

• Molecule 1: Receptor-interacting serine/threonine-protein kinase 3

| Chain B: | 26% | • | | 73% | |
|---|---|---|---|---------------------------------|---|
| MET HIS HIS HIS HIS HIS | SEK PRO GLY ARG GLY GLY GLN GLV GLU | ARG GLN GLY MET ASN TRP SER | CITA CARG ARG PRO GLU PRO PRO PRO THR THR THR | L20 P29 GLY GLY ALA | PRO GLY GLY GLY GLY GLY GLY GLZ HIS PRO PRO PRO VAL |
| GLY SER GLN GLU GLY PRO LYS | ASP PRO GLU GLU ARG SER ARG PRO GLN GLY TRP | TYR ASN HIS SER GLY LYS | | | |
| • Molecul | e 1: Receptor- | interacting | g serine/threoni | ne-protein kir | nase 3 |

Chain C:

| Cham C: | 26% | • | 7 | 73% | | |
|---|---|--|---|-----|---|---|
| MET HIS HIS HIS HIS HIS SER PRO GLY | PRO ARG GLY ASN GLN GLY ALA | GLU ARG GLN GLY MET ASN TRP SER | CYS ARG PRO GLU PRO PRO ASN YAL THR CLY CLY | L20 | P29 THR GLY CLY LEU ALA PRO SER CLY | LYS GLY GLY GLY GLN HIS PRO PRO PRO |
| | | | | | | |

• Molecule 1: Receptor-interacting serine/threonine-protein kinase 3



| Chain D: | 27% | 73% | |
|---|--|---|--|
| MET HIS HIS HIS HIS HIS SER SER PRO | GLY PRO ARG GLY GLN GLV ALA ALA ALA GLU GLU GLU | GLY MET TRP SER SER CVX CVX CVX CVX CVX CVX CVX CVX CVX CVX | |

• Molecule 1: Receptor-interacting serine/threonine-protein kinase 3

Chain E: 27% 73%



5 Refinement protocol and experimental data overview (i)

The models were refined using the following method: *simulated annealing*.

Of the 96 calculated structures, 12 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 | refinement | |
| X-PLOR NIH | structure calculation | |

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 | 139 |
| Number of shifts mapped to atoms | 139 |
| 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% |

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.



6 Model quality (i)

6.1 Standard geometry (i)

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 | В | 223 | 219 | 221 | 2±2 |
| 1 | С | 223 | 219 | 221 | 2±3 |
| 1 | D | 223 | 219 | 221 | 2±2 |
| 1 | Е | 223 | 219 | 221 | 1±1 |
| 1 | А | 223 | 219 | 221 | 1±1 |
| All | All | 13380 | 13140 | 13260 | 72 |

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 3.

5 of 65 unique clashes are listed below, sorted by their clash magnitude.

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| Atom-1 | Atom-2 | Clash(A) | Distance(A) | Worst | Total |
| 1:C:27:ALA:HB1 | 1:D:28:LEU:HD13 | 0.88 | 1.46 | 4 | 1 |
| 1:B:27:ALA:HB1 | 1:C:28:LEU:HD13 | 0.88 | 1.44 | 4 | 1 |
| 1:D:3:LEU:HD23 | 1:D:4:VAL:H | 0.77 | 1.38 | 8 | 1 |
| 1:A:12:VAL:HG21 | 1:B:6:ILE:HD12 | 0.64 | 1.68 | 7 | 1 |
| 1:D:3:LEU:HD22 | 1:E:4:VAL:HG22 | 0.64 | 1.70 | 8 | 1 |



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 | Perce | entiles |
|-----|-------|-----------------|---------------------------|-----------------------|-------------------|-------|---------|
| 1 | А | 27/108~(25%) | $25 \pm 1 \ (93 \pm 5\%)$ | $2\pm1~(6\pm4\%)$ | 0±0 (1±1%) | 29 | 74 |
| 1 | В | 27/108~(25%) | $24 \pm 1 (90 \pm 5\%)$ | $2\pm1 (9\pm4\%)$ | $0\pm0~(1\pm2\%)$ | 21 | 69 |
| 1 | С | 27/108~(25%) | $25 \pm 1 (93 \pm 4\%)$ | $2\pm1~(6\pm5\%)$ | $0\pm1~(1\pm2\%)$ | 21 | 69 |
| 1 | D | 27/108~(25%) | $25 \pm 1 (92 \pm 3\%)$ | 2 ± 1 (6±3%) | $0\pm1~(2\pm3\%)$ | 14 | 59 |
| 1 | Е | 27/108~(25%) | $25 \pm 1 (93 \pm 3\%)$ | 2 ± 1 (7 $\pm2\%$) | 0±0 (0±1%) | 44 | 80 |
| All | All | 1620/6480~(25%) | 1494~(92%) | 112 (7%) | 14 (1%) | 21 | 69 |

 $5~{\rm of}~13$ unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | D | 3 | LEU | 2 |
| 1 | А | 18 | ASN | 1 |
| 1 | В | 2 | PRO | 1 |
| 1 | D | 2 | PRO | 1 |
| 1 | В | 18 | ASN | 1 |

6.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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 side chain conformation was analysed and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles |
|-----|-------|-------------|---------------------------|-------------------|-------------|
| 1 | А | 26/89~(29%) | $25 \pm 1 \ (97 \pm 3\%)$ | 1±1 (3±3%) | 42 88 |
| 1 | В | 26/89~(29%) | $25 \pm 1 (95 \pm 4\%)$ | $1\pm1 (5\pm4\%)$ | 27 77 |
| 1 | С | 26/89~(29%) | $25 \pm 1 \ (96 \pm 5\%)$ | $1\pm1 (4\pm5\%)$ | 33 82 |
| 1 | D | 26/89~(29%) | $25 \pm 1 (96 \pm 4\%)$ | 1±1 (4±4%) | 31 80 |
| 1 | Е | 26/89~(29%) | 26 ± 1 (98 $\pm2\%$) | $0\pm1~(2\pm2\%)$ | 64 94 |

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| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles |
|-----|-------|-----------------|------------|----------|-------------|
| All | All | 1560/5340~(29%) | 1502~(96%) | 58 (4%) | 37 85 |

5 of 31 unique residues with a non-rotameric side chain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | А | 20 | LEU | 6 |
| 1 | В | 20 | LEU | 4 |
| 1 | D | 20 | LEU | 4 |
| 1 | С | 1 | ARG | 4 |
| 1 | D | 13 | GLN | 3 |

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: human_ripk3_cs-nmrstar.txt

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 | 139 |
|---|-----|
| Number of shifts mapped to atoms | 139 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 0 |

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | ${\rm Correction}\pm{\rm precision},ppm$ | Suggested action |
|-------------------|----------|--|----------------------------|
| $^{13}C_{\alpha}$ | 27 | -0.05 ± 0.37 | None needed (< 0.5 ppm) |
| $^{13}C_{\beta}$ | 24 | | None (insufficient data) |
| $^{13}C'$ | 24 | | None (insufficient data) |
| ¹⁵ N | 25 | -0.35 ± 1.25 | None needed (< 0.5 ppm) |

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. 138 atoms were assigned a chemical shift out of a possible 1925. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}\mathbf{H}$ | $^{13}\mathrm{C}$ | $^{15}\mathbf{N}$ |
|-----------|--------------|------------------|-------------------|-------------------|
| Backbone | 75/715~(10%) | 0/290~(0%) | 51/290~(18%) | 24/135~(18%) |
| Sidechain | 63/1120~(6%) | 0/730~(0%) | 60/340~(18%) | 3/50~(6%) |

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| | Total | $^{1}\mathrm{H}$ | $^{13}\mathrm{C}$ | 15 N |
|----------|---------------|------------------|-------------------|--------------|
| Aromatic | 0/90~(0%) | 0/40~(0%) | 0/50~(0%) | 0/0 (—%) |
| Overall | 138/1925~(7%) | 0/1060~(0%) | 111/680~(16%) | 27/185~(15%) |

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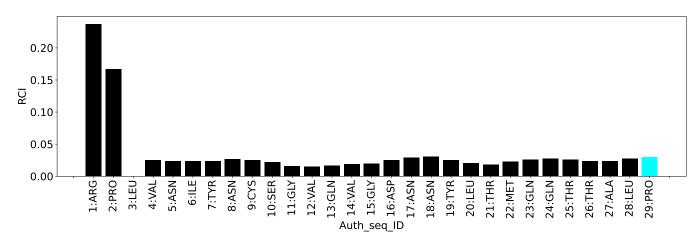
Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

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:

