



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2018 – 06:42 am GMT

PDB ID : 4MQP
Title : Mycobacterium tuberculosis transaminase BioA complexed with 2-hydrazinylbenzo[d]thiazole
Authors : Finzel, B.C.; Dai, R.
Deposited on : 2013-09-16
Resolution : 1.83 Å(reported)

This is a wwPDB X-ray 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

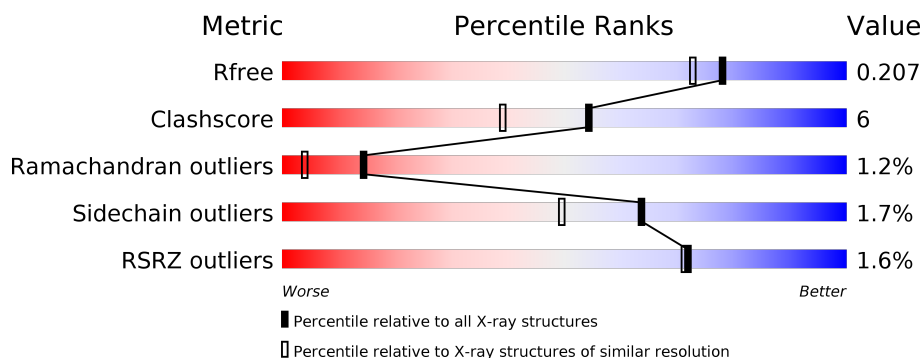
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.83 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.



| Metric | Whole archive (#Entries) | Similar resolution (#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|---|
| R_{free} | 111664 | 3313 (1.86-1.82) |
| Clashscore | 122126 | 3530 (1.86-1.82) |
| Ramachandran outliers | 120053 | 3495 (1.86-1.82) |
| Sidechain outliers | 120020 | 3496 (1.86-1.82) |
| RSRZ outliers | 108989 | 3265 (1.86-1.82) |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|--|
| 1 | A | 457 | <div> <div>3%</div> <div> <div></div> <div>84%</div> <div>8%</div> <div>6%</div> </div> </div> |
| 1 | B | 457 | <div> <div></div> <div> <div>85%</div> <div>7%</div> <div>7%</div> </div> </div> |

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 7080 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Adenosylmethionine-8-amino-7-oxononanoate aminotransferase.

| Mol | Chain | Residues | Atoms | | | | | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|------|-----|-----|----|---------|---------|-------|
| 1 | A | 428 | Total | C | N | O | S | 0 | 9 | 0 |
| | | | 3251 | 2070 | 572 | 588 | 21 | | | |
| 1 | B | 427 | Total | C | N | O | S | 0 | 14 | 0 |
| | | | 3286 | 2096 | 576 | 592 | 22 | | | |

There are 40 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------------------|------------|
| A | -19 | MET | - | INITIATING METHIONINE | UNP P0A4X6 |
| A | -18 | GLY | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -17 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -16 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -15 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -14 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -13 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -12 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -11 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -10 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -9 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -8 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -7 | GLY | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -6 | LEU | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -5 | VAL | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -4 | PRO | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -3 | ARG | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -2 | GLY | - | EXPRESSION TAG | UNP P0A4X6 |
| A | -1 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| A | 0 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -19 | MET | - | INITIATING METHIONINE | UNP P0A4X6 |
| B | -18 | GLY | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -17 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -16 | SER | - | EXPRESSION TAG | UNP P0A4X6 |

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| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------------|------------|
| B | -15 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -14 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -13 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -12 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -11 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -10 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -9 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -8 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -7 | GLY | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -6 | LEU | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -5 | VAL | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -4 | PRO | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -3 | ARG | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -2 | GLY | - | EXPRESSION TAG | UNP P0A4X6 |
| B | -1 | SER | - | EXPRESSION TAG | UNP P0A4X6 |
| B | 0 | HIS | - | EXPRESSION TAG | UNP P0A4X6 |

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- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\text{C}_2\text{H}_6\text{O}_2$).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|---|---------|---------|
| 3 | A | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |
| 3 | A | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |
| 3 | B | 1 | Total | C | O | 0 | 0 |
| | | | 4 | 2 | 2 | | |

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



| Mol | Chain | Residues | Atoms | | | ZeroOcc | AltConf |
|-----|-------|----------|-------|---|---|---------|---------|
| 4 | B | 1 | Total | C | O | 0 | 0 |
| | | | 7 | 4 | 3 | | |

- Molecule 5 is water.

| Mol | Chain | Residues | Atoms | | ZeroOcc | AltConf |
|-----|-------|----------|--------------|----------|---------|---------|
| 5 | A | 241 | Total 241 | O 241 | 0 | 0 |
| 5 | B | 231 | Total 231 | O 231 | 0 | 0 |

4 Data and refinement statistics

| Property | Value | Source |
|---|---|------------------|
| Space group | P 21 21 21 | Depositor |
| Cell constants a, b, c, α , β , γ | 63.02Å 65.92Å 201.96Å 90.00° 90.00° 90.00° | Depositor |
| Resolution (Å) | 100.93 – 1.83 60.16 – 1.83 | Depositor EDS |
| % Data completeness (in resolution range) | 98.1 (100.93-1.83) 98.1 (60.16-1.83) | Depositor EDS |
| R_{merge} | (Not available) | Depositor |
| R_{sym} | 0.06 | Depositor |
| $\langle I/\sigma(I) \rangle$ ¹ | 4.32 (at 1.83Å) | Xtriage |
| Refinement program | REFMAC 5.6.0117 | Depositor |
| R, R_{free} | 0.176 , 0.207 0.176 , 0.207 | Depositor DCC |
| R_{free} test set | 3726 reflections (5.06%) | wwPDB-VP |
| Wilson B-factor (Å ²) | 21.8 | Xtriage |
| Anisotropy | 0.073 | Xtriage |
| Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²) | 0.37 , 46.4 | EDS |
| L-test for twinning ² | $\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$ | Xtriage |
| Estimated twinning fraction | 0.038 for k,h,-l | Xtriage |
| F_o, F_c correlation | 0.96 | EDS |
| Total number of atoms | 7080 | wwPDB-VP |
| Average B, all atoms (Å ²) | 22.0 | wwPDB-VP |

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.69% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PEG, EDO, 2B1

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).

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|---------------|-------------|-------------|
| | | RMSZ | $\# Z > 5$ | RMSZ | $\# Z > 5$ |
| 1 | A | 0.61 | 4/3345 (0.1%) | 0.64 | 0/4574 |
| 1 | B | 0.61 | 1/3385 (0.0%) | 0.62 | 0/4630 |
| All | All | 0.61 | 5/6730 (0.1%) | 0.63 | 0/9204 |

All (5) bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-------|------|---------|------|-------------|----------|
| 1 | A | 398 | TRP | CD2-CE2 | 5.74 | 1.48 | 1.41 |
| 1 | B | 398 | TRP | CD2-CE2 | 5.38 | 1.47 | 1.41 |
| 1 | A | 22[A] | TRP | CD2-CE2 | 5.20 | 1.47 | 1.41 |
| 1 | A | 22[B] | TRP | CD2-CE2 | 5.20 | 1.47 | 1.41 |
| 1 | A | 65 | TRP | CD2-CE2 | 5.11 | 1.47 | 1.41 |

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 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.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1 | A | 3251 | 0 | 3220 | 37 | 0 |
| 1 | B | 3286 | 0 | 3262 | 45 | 0 |
| 2 | A | 26 | 0 | 14 | 1 | 0 |
| 2 | B | 26 | 0 | 14 | 6 | 0 |

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| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 3 | A | 8 | 0 | 12 | 0 | 0 |
| 3 | B | 4 | 0 | 6 | 0 | 0 |
| 4 | B | 7 | 0 | 10 | 2 | 0 |
| 5 | A | 241 | 0 | 0 | 4 | 0 |
| 5 | B | 231 | 0 | 0 | 7 | 0 |
| All | All | 7080 | 0 | 6538 | 75 | 0 |

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 6.

The worst 5 of 75 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å) |
|---------------------|-------------------|--------------------------|-------------------|
| 1:A:117[B]:THR:HG22 | 1:B:22[B]:TRP:CD1 | 1.77 | 1.19 |
| 1:A:117[B]:THR:CG2 | 1:B:22[B]:TRP:CD1 | 2.33 | 1.10 |
| 1:B:400:ARG:HG2 | 5:B:698:HOH:O | 1.49 | 1.09 |
| 1:A:117[B]:THR:HG21 | 1:B:22[B]:TRP:NE1 | 1.74 | 1.00 |
| 1:B:61:MET:HG2 | 5:B:704:HOH:O | 1.63 | 0.98 |

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 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 X-ray entries followed by that with respect to entries of similar resolution.

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 | A | 435/457 (95%) | 418 (96%) | 10 (2%) | 7 (2%) | 11 | 2 |
| 1 | B | 439/457 (96%) | 429 (98%) | 7 (2%) | 3 (1%) | 24 | 10 |
| All | All | 874/914 (96%) | 847 (97%) | 17 (2%) | 10 (1%) | 14 | 5 |

5 of 10 Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 31 | GLU |
| 1 | A | 174 | MET |
| 1 | A | 179 | THR |
| 1 | A | 176 | SER |
| 1 | A | 283 | LYS |

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 X-ray entries followed by that with respect to entries of similar resolution.

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 | A | 331/346 (96%) | 326 (98%) | 5 (2%) | 67 | 55 |
| 1 | B | 336/346 (97%) | 327 (97%) | 9 (3%) | 48 | 30 |
| All | All | 667/692 (96%) | 653 (98%) | 14 (2%) | 63 | 41 |

5 of 14 residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-------|------|
| 1 | B | 65[A] | TRP |
| 1 | B | 65[B] | TRP |
| 1 | B | 153 | TRP |
| 1 | B | 11 | GLU |
| 1 | B | 140 | ARG |

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1 | A | 88 | ASN |
| 1 | A | 238 | HIS |
| 1 | B | 88 | ASN |
| 1 | B | 209 | GLN |

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 ⓘ

6 ligands are modelled in this entry.

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).

| Mol | Type | Chain | Res | Link | Bond lengths | | | Bond angles | | |
|-----|------|-------|-----|------|--------------|------|-------------|-------------|------|-------------|
| | | | | | Counts | RMSZ | # $ Z > 2$ | Counts | RMSZ | # $ Z > 2$ |
| 2 | 2B1 | A | 501 | - | 25,28,28 | 2.47 | 7 (28%) | 27,40,40 | 1.39 | 4 (14%) |
| 3 | EDO | A | 502 | - | 3,3,3 | 0.49 | 0 | 2,2,2 | 0.30 | 0 |
| 3 | EDO | A | 503 | - | 3,3,3 | 0.43 | 0 | 2,2,2 | 0.48 | 0 |
| 2 | 2B1 | B | 501 | - | 25,28,28 | 2.81 | 8 (32%) | 27,40,40 | 1.49 | 6 (22%) |
| 3 | EDO | B | 502 | - | 3,3,3 | 0.49 | 0 | 2,2,2 | 0.37 | 0 |
| 4 | PEG | B | 503 | - | 6,6,6 | 0.41 | 0 | 5,5,5 | 0.47 | 0 |

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.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|---------|-----------|---------|
| 2 | 2B1 | A | 501 | - | - | 0/9/12/12 | 0/3/3/3 |
| 3 | EDO | A | 502 | - | - | 0/1/1/1 | 0/0/0/0 |
| 3 | EDO | A | 503 | - | - | 0/1/1/1 | 0/0/0/0 |
| 2 | 2B1 | B | 501 | - | - | 0/9/12/12 | 0/3/3/3 |
| 3 | EDO | B | 502 | - | - | 0/1/1/1 | 0/0/0/0 |
| 4 | PEG | B | 503 | - | - | 0/4/4/4 | 0/0/0/0 |

The worst 5 of 15 bond length outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) |
|-----|-------|-----|------|---------|-------|-------------|----------|
| 2 | B | 501 | 2B1 | CAV-NAN | -7.37 | 1.33 | 1.41 |
| 2 | B | 501 | 2B1 | CAK-CAW | -6.31 | 1.39 | 1.51 |
| 2 | A | 501 | 2B1 | CAV-NAN | -6.10 | 1.34 | 1.41 |
| 2 | A | 501 | 2B1 | CAK-CAW | -5.65 | 1.41 | 1.51 |
| 2 | B | 501 | 2B1 | NAN-NAM | -4.64 | 1.16 | 1.24 |

The worst 5 of 10 bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) |
|-----|-------|-----|------|-------------|-------|-------------|----------|
| 2 | A | 501 | 2B1 | CAX-CAY-SAR | -3.32 | 107.86 | 112.03 |
| 2 | B | 501 | 2B1 | CAX-CAY-SAR | -2.76 | 108.57 | 112.03 |
| 2 | B | 501 | 2B1 | CAF-CAG-CAI | -2.41 | 117.07 | 120.44 |
| 2 | B | 501 | 2B1 | CAK-CAW-CAT | -2.34 | 116.20 | 119.56 |
| 2 | B | 501 | 2B1 | CAU-CAS-NAO | -2.24 | 117.81 | 120.75 |

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 9 short contacts:

| Mol | Chain | Res | Type | Clashes | Symm-Clashes |
|-----|-------|-----|------|---------|--------------|
| 2 | A | 501 | 2B1 | 1 | 0 |
| 2 | B | 501 | 2B1 | 6 | 0 |
| 4 | B | 503 | PEG | 2 | 0 |

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

| Mol | Chain | Analysed | <RSRZ> | #RSRZ>2 | | OWAB(Å ²) | Q<0.9 |
|-----|-------|---------------|--------|---------|-------|-----------------------|--------|
| 1 | A | 428/457 (93%) | -0.22 | 12 (2%) | 53 50 | 10, 19, 38, 66 | 5 (1%) |
| 1 | B | 427/457 (93%) | -0.24 | 2 (0%) | 90 90 | 11, 20, 34, 59 | 4 (0%) |
| All | All | 855/914 (93%) | -0.23 | 14 (1%) | 72 71 | 10, 20, 36, 66 | 9 (1%) |

The worst 5 of 14 RSRZ outliers are listed below:

| Mol | Chain | Res | Type | RSRZ |
|-----|-------|-----|------|------|
| 1 | A | 32 | ALA | 5.3 |
| 1 | B | 33 | VAL | 5.2 |
| 1 | A | 177 | LEU | 4.5 |
| 1 | A | 176 | SER | 3.7 |
| 1 | A | 171 | HIS | 3.5 |

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

| Mol | Type | Chain | Res | Atoms | RSCC | RSR | B-factors(\AA^2) | Q<0.9 |
|-----|------|-------|-----|-------|------|------|-----------------------------|-------|
| 4 | PEG | B | 503 | 7/7 | 0.82 | 0.15 | 39,40,43,43 | 0 |
| 3 | EDO | B | 502 | 4/4 | 0.88 | 0.22 | 46,47,47,48 | 0 |
| 3 | EDO | A | 503 | 4/4 | 0.90 | 0.15 | 48,49,50,51 | 0 |
| 3 | EDO | A | 502 | 4/4 | 0.90 | 0.10 | 37,39,40,40 | 0 |
| 2 | 2B1 | A | 501 | 26/26 | 0.96 | 0.10 | 14,18,25,26 | 0 |
| 2 | 2B1 | B | 501 | 26/26 | 0.96 | 0.12 | 13,16,35,37 | 0 |

6.5 Other polymers [i](#)

There are no such residues in this entry.