WORLDWIDE wwPDB PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 28, 2023 – 04:52 AM EDT

PDB ID	:	3KAW
Title	:	Crystal Structure of PA2107 PROTEIN from Pseudomonas aeruginosa, Northeast Structural Genomics Consortium Target PaR198
Authors	:	Forouhar, F.; Neely, H.; Seetharaman, J.; Janjua, J.; Xiao, R.; Maglaqui, M.; Wang, D.; Everett, J.K.; Nair, R.; Acton, T.B.; Rost, B.; Montelione, G.T.; Tong, L.; Hunt, J.F.; Northeast Structural Genomics Consortium (NESG)
Deposited on	:	2009-10-19
Resolution	:	2.40 Å(reported)

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

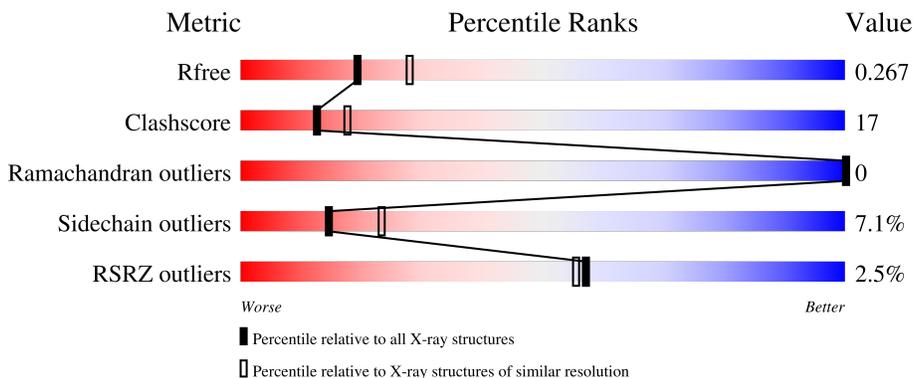|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 2.40 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	Percentile Ranks	Value
Rfree		0.267
Clashscore		17
Ramachandran outliers		0
Sidechain outliers		7.1%
RSRZ outliers		2.5%

Worse .... *Better*

▌ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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 of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. 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% 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	140	% 50% 19% • 29%
1	B	140	48% 21% • 29%
1	C	140	2% 49% 21% • 28%
1	D	140	% 48% 22% • 29%

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Mol	Chain	Length	Quality of chain
1	E	140	% 46% 24% • 29%
1	F	140	5% 39% 31% • 28%
1	G	140	2% 45% 26% • 29%
1	H	140	2% 44% 26% • 29%

2   Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 6300 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 uncharacterized protein PA2107.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	99	Total	C	N	O	S	0	0	0
			759	457	150	140	12			
1	B	100	Total	C	N	O	S	0	0	0
			768	462	152	142	12			
1	C	101	Total	C	N	O	S	0	0	0
			775	467	153	143	12			
1	D	100	Total	C	N	O	S	0	0	0
			768	462	152	142	12			
1	E	100	Total	C	N	O	S	0	0	0
			768	462	152	142	12			
1	F	101	Total	C	N	O	S	0	0	0
			775	467	153	143	12			
1	G	100	Total	C	N	O	S	0	0	0
			768	462	152	142	12			
1	H	99	Total	C	N	O	S	0	0	0
			759	457	150	140	12			

There are 64 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	133	LEU	-	expression tag	UNP Q9I208
A	134	GLU	-	expression tag	UNP Q9I208
A	135	HIS	-	expression tag	UNP Q9I208
A	136	HIS	-	expression tag	UNP Q9I208
A	137	HIS	-	expression tag	UNP Q9I208
A	138	HIS	-	expression tag	UNP Q9I208
A	139	HIS	-	expression tag	UNP Q9I208
A	140	HIS	-	expression tag	UNP Q9I208
B	133	LEU	-	expression tag	UNP Q9I208
B	134	GLU	-	expression tag	UNP Q9I208
B	135	HIS	-	expression tag	UNP Q9I208
B	136	HIS	-	expression tag	UNP Q9I208
B	137	HIS	-	expression tag	UNP Q9I208

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Chain	Residue	Modelled	Actual	Comment	Reference
B	138	HIS	-	expression tag	UNP Q9I208
B	139	HIS	-	expression tag	UNP Q9I208
B	140	HIS	-	expression tag	UNP Q9I208
C	133	LEU	-	expression tag	UNP Q9I208
C	134	GLU	-	expression tag	UNP Q9I208
C	135	HIS	-	expression tag	UNP Q9I208
C	136	HIS	-	expression tag	UNP Q9I208
C	137	HIS	-	expression tag	UNP Q9I208
C	138	HIS	-	expression tag	UNP Q9I208
C	139	HIS	-	expression tag	UNP Q9I208
C	140	HIS	-	expression tag	UNP Q9I208
D	133	LEU	-	expression tag	UNP Q9I208
D	134	GLU	-	expression tag	UNP Q9I208
D	135	HIS	-	expression tag	UNP Q9I208
D	136	HIS	-	expression tag	UNP Q9I208
D	137	HIS	-	expression tag	UNP Q9I208
D	138	HIS	-	expression tag	UNP Q9I208
D	139	HIS	-	expression tag	UNP Q9I208
D	140	HIS	-	expression tag	UNP Q9I208
E	133	LEU	-	expression tag	UNP Q9I208
E	134	GLU	-	expression tag	UNP Q9I208
E	135	HIS	-	expression tag	UNP Q9I208
E	136	HIS	-	expression tag	UNP Q9I208
E	137	HIS	-	expression tag	UNP Q9I208
E	138	HIS	-	expression tag	UNP Q9I208
E	139	HIS	-	expression tag	UNP Q9I208
E	140	HIS	-	expression tag	UNP Q9I208
F	133	LEU	-	expression tag	UNP Q9I208
F	134	GLU	-	expression tag	UNP Q9I208
F	135	HIS	-	expression tag	UNP Q9I208
F	136	HIS	-	expression tag	UNP Q9I208
F	137	HIS	-	expression tag	UNP Q9I208
F	138	HIS	-	expression tag	UNP Q9I208
F	139	HIS	-	expression tag	UNP Q9I208
F	140	HIS	-	expression tag	UNP Q9I208
G	133	LEU	-	expression tag	UNP Q9I208
G	134	GLU	-	expression tag	UNP Q9I208
G	135	HIS	-	expression tag	UNP Q9I208
G	136	HIS	-	expression tag	UNP Q9I208
G	137	HIS	-	expression tag	UNP Q9I208
G	138	HIS	-	expression tag	UNP Q9I208
G	139	HIS	-	expression tag	UNP Q9I208

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Chain	Residue	Modelled	Actual	Comment	Reference
G	140	HIS	-	expression tag	UNP Q9I208
H	133	LEU	-	expression tag	UNP Q9I208
H	134	GLU	-	expression tag	UNP Q9I208
H	135	HIS	-	expression tag	UNP Q9I208
H	136	HIS	-	expression tag	UNP Q9I208
H	137	HIS	-	expression tag	UNP Q9I208
H	138	HIS	-	expression tag	UNP Q9I208
H	139	HIS	-	expression tag	UNP Q9I208
H	140	HIS	-	expression tag	UNP Q9I208

- Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O_4S).
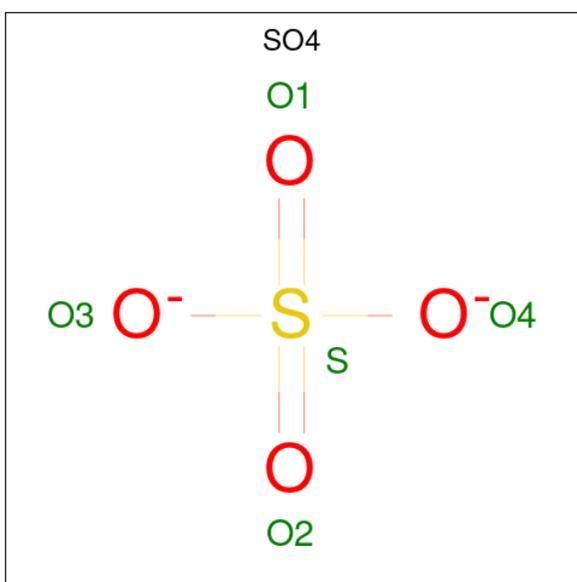
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	S	0	0
			5	4	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	23	Total	O	0	0
			23	23		
3	B	20	Total	O	0	0
			20	20		
3	C	25	Total	O	0	0
			25	25		
3	D	22	Total	O	0	0
			22	22		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	22	Total 22	O 22	0	0
3	F	19	Total 19	O 19	0	0
3	G	12	Total 12	O 12	0	0
3	H	12	Total 12	O 12	0	0

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-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. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: uncharacterized protein PA2107

Chain A:

• Molecule 1: uncharacterized protein PA2107

Chain B:

• Molecule 1: uncharacterized protein PA2107

Chain C:

• Molecule 1: uncharacterized protein PA2107

Chain D:

Y97 A98 L99 A100 C101 A102 E103 R104 C105 D106 G107 D108 R113 E114 A118 E124 R127 P128 L129 L130 PRO ALA LEU GLU HIS HIS HIS HIS HIS

• Molecule 1: uncharacterized protein PA2107

Chain E:

46% 24% • 29%

MET THR ARG ALA ILE ASN ASP PRO GLY ASN GLU ASP GLY SER LEU LEU GLU THR ASP ALA ASP ALA LEU LEU GLY GLY ALA ALA Q31 R38 L39 I45 E49 L52 R60 Q64 H65 D68 D71 L72 L75 A76 L79 L80 E81 R82 R83

A87 P88 A89 A90 C91 E92 L93 L99 A100 R104 G107 D108 E112 R113 A116 R120 R121 E124 A125 C126 R127 P128 L129 L130 PRO ALA LEU GLU HIS HIS HIS HIS HIS

• Molecule 1: uncharacterized protein PA2107

Chain F:

5% 39% 31% • 28%

MET THR ARG ALA ILE ASN ASP PRO GLY ASN GLU ASP GLY SER LEU LEU GLU THR ASP ALA ASP ALA LEU LEU GLY GLY ALA ALA Q31 A32 E35 R38 L39 A40 C44 I45 E49 R50 A53 L54 C55 T56 E57 S58 S59 R60 E61 Q64 H65 L72

L75 A76 A77 L78 L79 L80 E81 R82 A87 P88 A89 A90 A102 E103 R104 G107 D108 E109 P110 L111 E112 R113 E114 C115 A116 G117 A118 C119 R120 R121 F122 C126 R127 P128 L129 L130 P131 ALA LEU GLU HIS HIS HIS HIS HIS

• Molecule 1: uncharacterized protein PA2107

Chain G:

2% 45% 26% • 29%

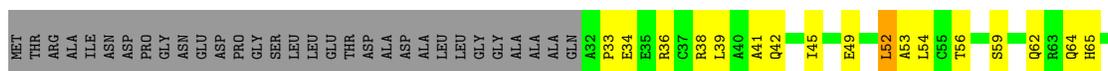MET THR ARG ALA ILE ASN ASP PRO GLY ASN GLU ASP GLY SER LEU LEU GLU THR ASP ALA ASP ALA LEU LEU GLY GLY ALA ALA Q31 A32 P33 E34 E35 R36 C37 R38 L39 R50 Y51 L52 C55 T56 E57 R60 H65 L72 L75 L79 L80 A87

P88 E92 R96 Y97 A98 L99 A100 C101 A102 E103 R104 C105 D106 G107 D108 L111 E112 R113 A116 C119 R120 R121 F122 V123 E124 A125 L129 L130 PRO ALA LEU GLU HIS HIS HIS HIS HIS

• Molecule 1: uncharacterized protein PA2107

Chain H:

2% 44% 26% • 29%

MET THR ARG ALA ILE ASN ASP PRO GLY ASN GLU ASP GLY SER LEU LEU GLU THR ASP ALA ASP ALA LEU LEU GLY GLY ALA ALA GLN A32 P33 E34 E35 R36 C37 R38 L39 A40 A41 Q42 I45 E49 L52 A53 L54 C55 T56 S59 Q62 R63 Q64 H65

D71 L72 C73 R74 L75 A76 A77 L80 E81 R82 R83 A87 P88 L99 A100 E103 R104 L111 C119 R120 V123 E124 R127 P128 L129 L130 PRO ALA LEU GLU HIS HIS HIS HIS HIS

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	66.70Å 50.40Å 162.30Å 90.00° 101.55° 90.00°	Depositor
Resolution (Å)	20.00 – 2.40 28.30 – 2.40	Depositor EDS
% Data completeness (in resolution range)	83.1 (20.00-2.40) 95.0 (28.30-2.40)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.06	Depositor
$< I/\sigma(I) >$ [1]	3.73 (at 2.39Å)	Xtriage
Refinement program	CNS 1.2 & XtalView, REFMAC	Depositor
R, R_{free}	0.200 , 0.260 0.214 , 0.267	Depositor DCC
R_{free} test set	3806 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å^2)	29.1	Xtriage
Anisotropy	0.328	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 56.2	EDS
L-test for twinning[2]	$< \lvert L \rvert > = 0.75$, $< L^2 > = 0.65$	Xtriage
Estimated twinning fraction	0.018 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	6300	wwPDB-VP
Average B, all atoms (Å^2)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.11% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< \lvert L \rvert >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: SO4

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	0.36	0/769	0.56	0/1037
1	B	0.35	0/778	0.54	0/1049
1	C	0.34	0/786	0.53	0/1061
1	D	0.37	0/778	0.51	0/1049
1	E	0.35	0/778	0.51	0/1049
1	F	0.32	0/786	0.52	0/1061
1	G	0.30	0/778	0.46	0/1049
1	H	0.35	0/769	0.49	0/1037
All	All	0.34	0/6222	0.52	0/8392

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 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	759	0	744	22	0
1	B	768	0	752	22	0
1	C	775	0	759	29	0
1	D	768	0	752	24	0
1	E	768	0	752	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	775	0	759	30	0
1	G	768	0	752	35	0
1	H	759	0	744	30	0
2	A	5	0	0	0	0
3	A	23	0	0	3	0
3	B	20	0	0	2	0
3	C	25	0	0	1	0
3	D	22	0	0	0	0
3	E	22	0	0	2	0
3	F	19	0	0	0	0
3	G	12	0	0	1	0
3	H	12	0	0	0	0
All	All	6300	0	6014	203	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 17.

The worst 5 of 203 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:G:60:ARG:H	1:G:60:ARG:HE	1.12	0.92
1:E:38:ARG:HD2	1:E:81:GLU:HG3	1.59	0.83
1:G:80:LEU:HD12	1:G:87:ALA:HB1	1.62	0.82
1:C:75:LEU:HD11	1:D:72:LEU:HD12	1.64	0.80
1:A:77:ALA:O	1:A:81:GLU:HG3	1.83	0.79

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 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 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	97/140 (69%)	96 (99%)	1 (1%)	0	100	100
1	B	98/140 (70%)	98 (100%)	0	0	100	100
1	C	99/140 (71%)	99 (100%)	0	0	100	100
1	D	98/140 (70%)	94 (96%)	4 (4%)	0	100	100
1	E	98/140 (70%)	97 (99%)	1 (1%)	0	100	100
1	F	99/140 (71%)	99 (100%)	0	0	100	100
1	G	98/140 (70%)	96 (98%)	2 (2%)	0	100	100
1	H	97/140 (69%)	92 (95%)	5 (5%)	0	100	100
All	All	784/1120 (70%)	771 (98%)	13 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	75/105 (71%)	69 (92%)	6 (8%)	12	18
1	B	76/105 (72%)	69 (91%)	7 (9%)	9	13
1	C	77/105 (73%)	73 (95%)	4 (5%)	23	38
1	D	76/105 (72%)	68 (90%)	8 (10%)	7	9
1	E	76/105 (72%)	71 (93%)	5 (7%)	16	26
1	F	77/105 (73%)	71 (92%)	6 (8%)	12	19
1	G	76/105 (72%)	74 (97%)	2 (3%)	46	66
1	H	75/105 (71%)	70 (93%)	5 (7%)	16	26
All	All	608/840 (72%)	565 (93%)	43 (7%)	14	23

5 of 43 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	83	ARG
1	F	111	LEU

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Mol	Chain	Res	Type
1	E	124	GLU
1	F	64	GLN
1	G	121	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
1	F	31	GLN
1	F	42	GLN
1	H	42	GLN
1	F	64	GLN
1	C	64	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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

1 ligand is 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	SO4	A	201	-	4,4,4	0.29	0	6,6,6	0.05	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	99/140 (70%)	-0.13	1 (1%)	82	80	21, 31, 58, 67	0
1	B	100/140 (71%)	-0.23	0	100	100	20, 33, 55, 59	0
1	C	101/140 (72%)	-0.08	3 (2%)	50	49	17, 33, 64, 77	0
1	D	100/140 (71%)	-0.14	1 (1%)	82	80	21, 32, 61, 71	0
1	E	100/140 (71%)	-0.12	2 (2%)	65	63	17, 33, 58, 72	0
1	F	101/140 (72%)	0.14	7 (6%)	16	15	22, 39, 67, 73	0
1	G	100/140 (71%)	0.14	3 (3%)	50	49	25, 46, 74, 88	0
1	H	99/140 (70%)	0.14	3 (3%)	50	49	28, 40, 66, 75	0
All	All	800/1120 (71%)	-0.04	20 (2%)	57	55	17, 37, 66, 88	0

The worst 5 of 20 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	57	GLU	4.2
1	A	130	LEU	3.5
1	H	129	LEU	3.1
1	H	83	ARG	3.1
1	F	130	LEU	3.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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(Å^2)	Q<0.9
2	SO4	A	201	5/5	0.96	0.16	58,65,70,72	0

6.5 Other polymers ⓘ

There are no such residues in this entry.