



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 13, 2023 – 04:38 pm GMT

PDB ID : 4C9Z
Title : Crystal structure of Siah1 at 1.95 Å resolution
Authors : Rimsa, V.; Eadsforth, T.C.; Hunter, W.N.
Deposited on : 2013-10-04
Resolution : 1.95 Å(reported)

This is a Full wwPDB X-ray 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

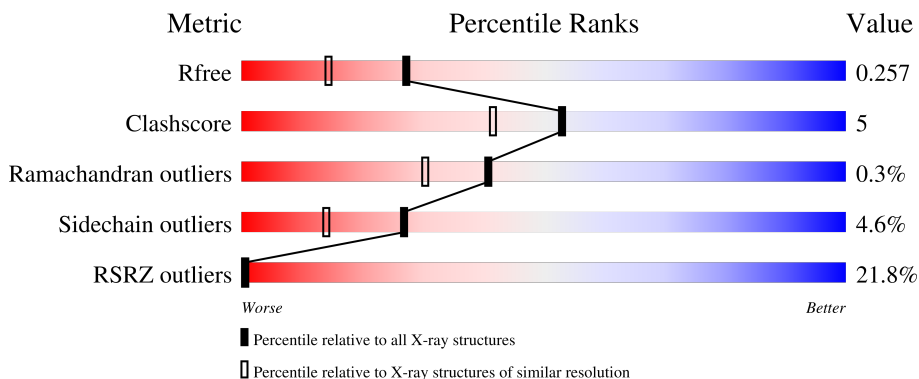
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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}	130704	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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 $\leq 5\%$. 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	195	 21% 86% 10% ...
1	B	195	 22% 86% 10% .

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 3331 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 E3 UBIQUITIN-PROTEIN LIGASE SIAH1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	193	Total	C	N	O	S	0	7	0
			1559	996	262	283	18			
1	B	188	Total	C	N	O	S	0	3	0
			1498	951	254	276	17			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	88	GLY	-	expression tag	UNP Q8IUQ4
A	89	HIS	-	expression tag	UNP Q8IUQ4
A	90	MET	-	expression tag	UNP Q8IUQ4
B	88	GLY	-	expression tag	UNP Q8IUQ4
B	89	HIS	-	expression tag	UNP Q8IUQ4
B	90	MET	-	expression tag	UNP Q8IUQ4

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
2	A	2	Total	Zn	0	0
			2	2		
2	B	2	Total	Zn	0	0
			2	2		

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Cl		
3	A	3	Total	Cl	0	0
			3	3		
3	B	1	Total	Cl	0	0
			1	1		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0
4	A	1	Total C O 6 3 3	0	0

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



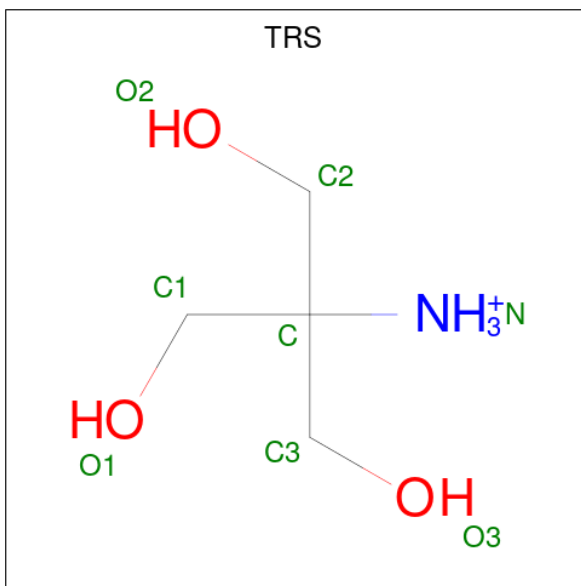
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total O S 5 4 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	O	S	0	0
			5	4	1		
5	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 6 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: C₄H₁₂NO₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	1	Total	C	N	O	0	0
			8	4	1	3		
6	B	1	Total	C	N	O	0	0
			8	4	1	3		

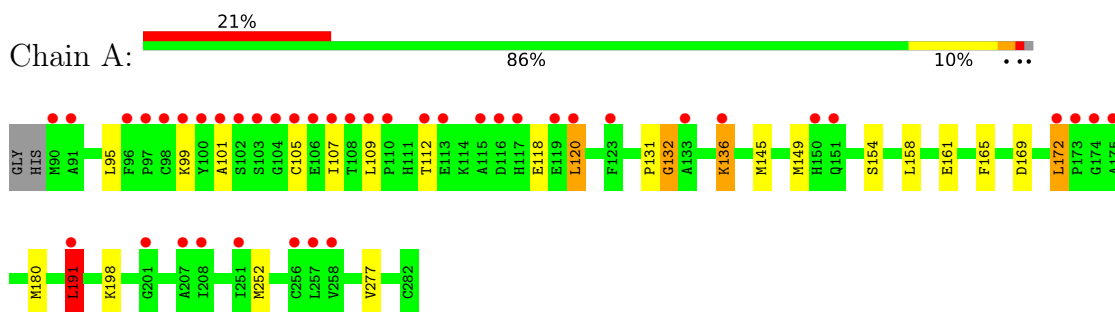
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	146	Total	O	0	0
			146	146		
7	B	71	Total	O	0	0
			71	71		

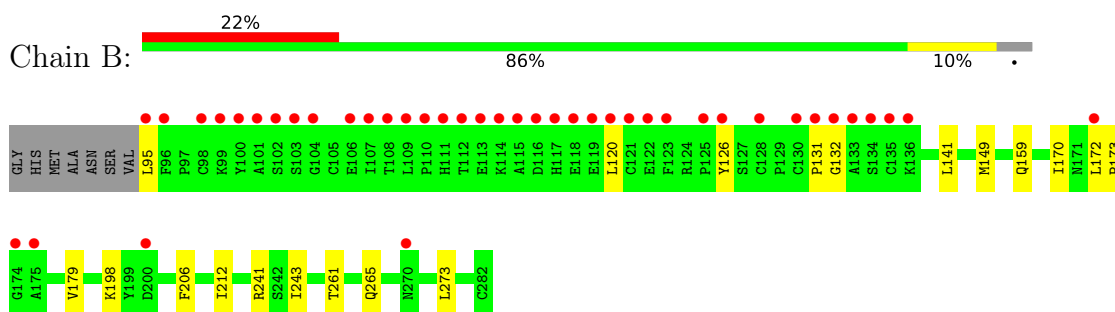
3 Residue-property plots [i](#)

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: E3 UBIQUITIN-PROTEIN LIGASE SIAH1



- Molecule 1: E3 UBIQUITIN-PROTEIN LIGASE SIAH1



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	75.14Å 104.59Å 133.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 1.95 38.22 – 1.95	Depositor EDS
% Data completeness (in resolution range)	99.3 (40.00-1.95) 99.3 (38.22-1.95)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.24 (at 1.95Å)	Xtrriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.198 , 0.239 0.222 , 0.257	Depositor DCC
R_{free} test set	1918 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	29.3	Xtrriage
Anisotropy	0.161	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 47.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3331	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.02% 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: TRS, ZN, GOL, SO4, CL

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	0.56	0/1620	0.68	3/2193 (0.1%)
1	B	0.51	0/1544	0.62	0/2089
All	All	0.53	0/3164	0.65	3/4282 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	120	LEU	CA-CB-CG	5.93	128.94	115.30
1	A	191[A]	LEU	CB-CG-CD1	5.67	120.63	111.00
1	A	191[B]	LEU	CB-CG-CD1	5.67	120.63	111.00

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	1559	0	1519	23	0
1	B	1498	0	1451	10	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	3	0	0	0	0
3	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	18	0	24	1	0
5	A	5	0	0	0	0
5	B	10	0	0	0	0
6	A	8	0	12	0	0
6	B	8	0	12	0	0
7	A	146	0	0	1	0
7	B	71	0	0	0	0
All	All	3331	0	3018	33	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 5.

All (33) 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:180:MET:CE	1:A:191[A]:LEU:HD22	1.88	1.03
1:A:165[B]:PHE:CD2	1:A:191[B]:LEU:HD23	2.00	0.97
1:A:180:MET:HE2	1:A:191[A]:LEU:HD22	1.52	0.88
1:A:165[B]:PHE:CD2	1:A:191[B]:LEU:CD2	2.59	0.85
1:A:165[B]:PHE:HD2	1:A:191[B]:LEU:CD2	1.94	0.80
1:A:180:MET:HE1	1:A:191[A]:LEU:HD22	1.64	0.78
1:A:165[B]:PHE:HD2	1:A:191[B]:LEU:HD21	1.60	0.67
1:A:161:GLU:OE1	4:A:1287:GOL:H11	1.95	0.67
1:A:169:ASP:HB3	1:A:172:LEU:HD22	1.77	0.66
1:B:212:ILE:HD13	1:B:243:ILE:HG21	1.79	0.64
1:A:180:MET:HE1	1:A:191[A]:LEU:CD2	2.30	0.59
1:A:99:LYS:HE2	1:A:118:GLU:HB3	1.84	0.58
1:A:145:MET:O	1:A:149:MET:HG2	2.11	0.51
1:B:212:ILE:CD1	1:B:243:ILE:HG21	2.39	0.51
1:A:191[A]:LEU:HD23	1:A:277:VAL:HG21	1.94	0.48
1:B:131:PRO:HD2	1:B:179[A]:VAL:HG21	1.97	0.46
1:A:136:LYS:HE2	1:A:136:LYS:H	1.81	0.45
1:B:126:TYR:CE2	1:B:141:LEU:HD13	2.52	0.45
1:A:131:PRO:HA	1:A:132:GLY:HA2	1.66	0.45
1:A:158:LEU:HG	1:A:180:MET:SD	2.57	0.45
1:A:191[A]:LEU:CD2	1:A:277:VAL:HG21	2.46	0.45
1:B:131:PRO:HA	1:B:132:GLY:HA2	1.71	0.44
1:A:101:ALA:HA	1:A:105:CYS:O	2.19	0.43
1:A:198:LYS:HE2	7:A:2069:HOH:O	2.18	0.42
1:B:261:THR:O	1:B:265:GLN:HG2	2.20	0.42
1:B:172:LEU:HA	1:B:173:PRO:HD3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:212:ILE:HD13	1:B:243:ILE:CG2	2.48	0.41
1:B:170:ILE:HD13	1:B:273:LEU:HB2	2.03	0.40
1:B:198:LYS:HD3	1:B:206:PHE:CZ	2.56	0.40

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	198/195 (102%)	189 (96%)	8 (4%)	1 (0%)	29 17
1	B	189/195 (97%)	186 (98%)	3 (2%)	0	100 100
All	All	387/390 (99%)	375 (97%)	11 (3%)	1 (0%)	41 30

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	132	GLY

5.3.2 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 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	173/167 (104%)	162 (94%)	11 (6%)	17 6
1	B	165/167 (99%)	160 (97%)	5 (3%)	41 30

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	338/334 (101%)	322 (95%)	16 (5%)	27 13

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	95	LEU
1	A	107	ILE
1	A	109	LEU
1	A	112	THR
1	A	120	LEU
1	A	136	LYS
1	A	154	SER
1	A	172	LEU
1	A	191[A]	LEU
1	A	191[B]	LEU
1	A	252	MET
1	B	95	LEU
1	B	120	LEU
1	B	149	MET
1	B	159	GLN
1	B	241	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	196	GLN
1	A	244	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

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
4	GOL	A	1287	-	5,5,5	0.38	0	5,5,5	0.54	0
5	SO4	B	1284	-	4,4,4	0.12	0	6,6,6	0.30	0
5	SO4	A	1289	-	4,4,4	0.12	0	6,6,6	0.14	0
4	GOL	A	1286	-	5,5,5	0.53	0	5,5,5	0.27	0
6	TRS	A	1290	-	7,7,7	0.66	0	9,9,9	1.40	1 (11%)
5	SO4	B	1285	-	4,4,4	0.22	0	6,6,6	0.19	0
6	TRS	B	1283	-	7,7,7	0.41	0	9,9,9	0.56	0
4	GOL	A	1288	-	5,5,5	0.42	0	5,5,5	0.33	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GOL	A	1287	-	-	2/4/4/4	-
4	GOL	A	1286	-	-	3/4/4/4	-
6	TRS	A	1290	-	-	4/9/9/9	-
6	TRS	B	1283	-	-	6/9/9/9	-
4	GOL	A	1288	-	-	0/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	1290	TRS	C3-C-C1	-2.42	103.30	110.81

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1286	GOL	C1-C2-C3-O3
6	A	1290	TRS	N-C-C1-O1
6	A	1290	TRS	N-C-C3-O3
6	B	1283	TRS	N-C-C3-O3
4	A	1286	GOL	O2-C2-C3-O3
4	A	1287	GOL	C1-C2-C3-O3
6	A	1290	TRS	C3-C-C1-O1
6	B	1283	TRS	C3-C-C2-O2
6	B	1283	TRS	C1-C-C3-O3
4	A	1287	GOL	O2-C2-C3-O3
6	B	1283	TRS	N-C-C1-O1
6	B	1283	TRS	N-C-C2-O2
6	A	1290	TRS	C2-C-C3-O3
6	B	1283	TRS	C1-C-C2-O2
4	A	1286	GOL	O1-C1-C2-C3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1287	GOL	1	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

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	193/195 (98%)	1.26	41 (21%) 0 1	14, 34, 76, 106	0
1	B	188/195 (96%)	1.25	42 (22%) 0 0	17, 39, 96, 141	0
All	All	381/390 (97%)	1.26	83 (21%) 0 0	14, 37, 85, 141	0

All (83) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	120	LEU	8.5
1	B	112	THR	8.4
1	B	107	ILE	7.0
1	A	103	SER	6.4
1	A	120	LEU	6.3
1	B	123	PHE	6.2
1	B	117	HIS	5.9
1	A	175	ALA	5.8
1	A	106	GLU	5.6
1	A	133	ALA	5.5
1	B	175	ALA	5.2
1	A	123[A]	PHE	5.1
1	B	132	GLY	5.0
1	A	102	SER	4.9
1	B	133	ALA	4.8
1	B	130	CYS	4.7
1	A	116	ASP	4.7
1	A	109	LEU	4.7
1	B	125	PRO	4.7
1	B	98	CYS	4.6
1	B	109	LEU	4.6
1	B	103	SER	4.6
1	B	111	HIS	4.6
1	A	90	MET	4.6

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Mol	Chain	Res	Type	RSRZ
1	A	174	GLY	4.5
1	B	119	GLU	4.3
1	B	100	TYR	4.2
1	A	115	ALA	4.2
1	A	97	PRO	4.1
1	A	107	ILE	4.1
1	A	112	THR	4.1
1	B	108	THR	4.1
1	B	116	ASP	4.0
1	B	115	ALA	3.9
1	B	134	SER	3.9
1	A	100	TYR	3.8
1	B	113	GLU	3.7
1	A	191[A]	LEU	3.7
1	A	119	GLU	3.6
1	A	173	PRO	3.6
1	B	110	PRO	3.5
1	A	150	HIS	3.5
1	A	117	HIS	3.5
1	B	101	ALA	3.4
1	A	108	THR	3.4
1	A	151	GLN	3.3
1	A	96	PHE	3.2
1	A	105	CYS	3.2
1	B	118	GLU	3.1
1	A	101	ALA	3.1
1	A	104	GLY	3.1
1	A	136	LYS	3.0
1	A	98	CYS	2.9
1	B	135	CYS	2.9
1	B	96	PHE	2.9
1	A	257	LEU	2.8
1	A	110	PRO	2.8
1	A	201	GLY	2.8
1	B	106	GLU	2.8
1	B	131	PRO	2.8
1	A	172	LEU	2.8
1	B	122	GLU	2.8
1	A	99	LYS	2.6
1	A	258	VAL	2.6
1	B	102	SER	2.6
1	B	121	CYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	256	CYS	2.5
1	B	128	CYS	2.5
1	B	270	ASN	2.4
1	A	113	GLU	2.4
1	B	172	LEU	2.3
1	B	95	LEU	2.3
1	B	104	GLY	2.2
1	B	136	LYS	2.2
1	B	126	TYR	2.1
1	B	174	GLY	2.1
1	A	208	ILE	2.1
1	A	251	ILE	2.1
1	A	91	ALA	2.1
1	B	114	LYS	2.1
1	B	200	ASP	2.0
1	B	99	LYS	2.0
1	A	207	ALA	2.0

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 monosaccharides 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
3	CL	A	1284	1/1	0.63	0.09	81,81,81,81	0
6	TRS	A	1290	8/8	0.83	0.23	22,28,35,36	0
6	TRS	B	1283	8/8	0.86	0.24	38,51,55,57	0
4	GOL	A	1286	6/6	0.87	0.27	41,55,61,63	0
4	GOL	A	1288	6/6	0.88	0.18	53,64,66,68	0
3	CL	A	1285	1/1	0.90	0.07	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	CL	A	1283	1/1	0.93	0.20	66,66,66,66	0
3	CL	B	1286	1/1	0.94	0.09	70,70,70,70	0
5	SO4	B	1285	5/5	0.94	0.16	43,51,58,60	0
2	ZN	A	284	1/1	0.94	0.07	53,53,53,53	0
4	GOL	A	1287	6/6	0.94	0.15	24,52,56,65	0
5	SO4	A	1289	5/5	0.96	0.19	56,62,69,71	0
2	ZN	A	283	1/1	0.96	0.04	41,41,41,41	0
2	ZN	B	284	1/1	0.97	0.17	60,60,60,60	0
5	SO4	B	1284	5/5	0.98	0.16	56,56,65,70	0
2	ZN	B	283	1/1	0.98	0.05	40,40,40,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.