



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 04:13 PM EDT

PDB ID : 6HJL
Title : Affimer:BclxL
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Deposited on : 2018-09-04
Resolution : 2.20 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
Xtriage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

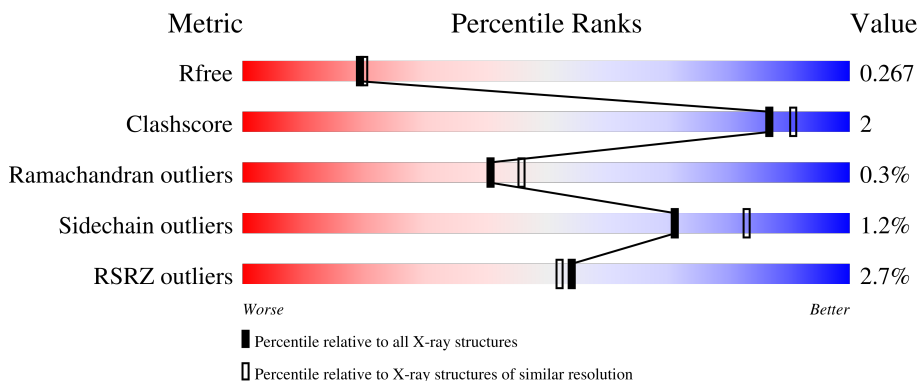
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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.



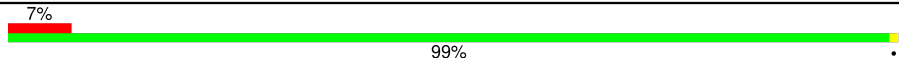
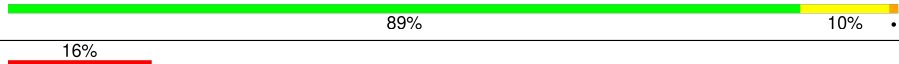
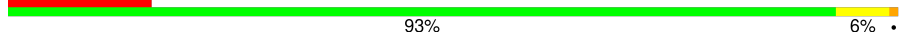
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	140	92% 8%
2	B	138	93% 7% .
2	E	138	94% 5% .
2	F	138	2% 96% . .
3	C	90	2% 96% . .

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Mol	Chain	Length	Quality of chain
3	D	90	 <p>7% 99% 10%</p>
3	H	90	 <p>16% 89% 10%</p>
4	G	88	 <p>16% 93% 6%</p>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 7707 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 Bcl-2-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	140	1125	720	188	213	4	0	0	0

There are 25 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	2	SER	-	expression tag	UNP Q07817
A	3	GLN	-	expression tag	UNP Q07817
A	4	SER	-	expression tag	UNP Q07817
A	5	ASN	-	expression tag	UNP Q07817
A	6	ARG	-	expression tag	UNP Q07817
A	7	GLU	-	expression tag	UNP Q07817
A	8	LEU	-	expression tag	UNP Q07817
A	9	VAL	-	expression tag	UNP Q07817
A	10	VAL	-	expression tag	UNP Q07817
A	11	ASP	-	expression tag	UNP Q07817
A	12	PHE	-	expression tag	UNP Q07817
A	13	LEU	-	expression tag	UNP Q07817
A	14	SER	-	expression tag	UNP Q07817
A	15	TYR	-	expression tag	UNP Q07817
A	16	LYS	-	expression tag	UNP Q07817
A	17	LEU	-	expression tag	UNP Q07817
A	18	SER	-	expression tag	UNP Q07817
A	19	GLN	-	expression tag	UNP Q07817
A	20	LYS	-	expression tag	UNP Q07817
A	21	GLY	-	expression tag	UNP Q07817
A	22	TYR	-	expression tag	UNP Q07817
A	23	SER	-	expression tag	UNP Q07817
A	24	TRP	-	expression tag	UNP Q07817
A	25	SER	-	expression tag	UNP Q07817
A	26	GLN	-	expression tag	UNP Q07817

- Molecule 2 is a protein called Bcl-2-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	138	1120	717	189	211	3	0	0	0
2	E	137	1107	711	184	208	4	0	0	0
2	F	137	1092	704	178	206	4	0	0	0

There are 75 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	2	SER	-	expression tag	UNP Q07817
B	3	GLN	-	expression tag	UNP Q07817
B	4	SER	-	expression tag	UNP Q07817
B	5	ASN	-	expression tag	UNP Q07817
B	6	ARG	-	expression tag	UNP Q07817
B	7	GLU	-	expression tag	UNP Q07817
B	8	LEU	-	expression tag	UNP Q07817
B	9	VAL	-	expression tag	UNP Q07817
B	10	VAL	-	expression tag	UNP Q07817
B	11	ASP	-	expression tag	UNP Q07817
B	12	PHE	-	expression tag	UNP Q07817
B	13	LEU	-	expression tag	UNP Q07817
B	14	SER	-	expression tag	UNP Q07817
B	15	TYR	-	expression tag	UNP Q07817
B	16	LYS	-	expression tag	UNP Q07817
B	17	LEU	-	expression tag	UNP Q07817
B	18	SER	-	expression tag	UNP Q07817
B	19	GLN	-	expression tag	UNP Q07817
B	20	LYS	-	expression tag	UNP Q07817
B	21	GLY	-	expression tag	UNP Q07817
B	22	TYR	-	expression tag	UNP Q07817
B	23	SER	-	expression tag	UNP Q07817
B	24	TRP	-	expression tag	UNP Q07817
B	25	SER	-	expression tag	UNP Q07817
B	26	GLN	-	expression tag	UNP Q07817
E	2	SER	-	expression tag	UNP Q07817
E	3	GLN	-	expression tag	UNP Q07817
E	4	SER	-	expression tag	UNP Q07817
E	5	ASN	-	expression tag	UNP Q07817
E	6	ARG	-	expression tag	UNP Q07817
E	7	GLU	-	expression tag	UNP Q07817
E	8	LEU	-	expression tag	UNP Q07817
E	9	VAL	-	expression tag	UNP Q07817

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Chain	Residue	Modelled	Actual	Comment	Reference
E	10	VAL	-	expression tag	UNP Q07817
E	11	ASP	-	expression tag	UNP Q07817
E	12	PHE	-	expression tag	UNP Q07817
E	13	LEU	-	expression tag	UNP Q07817
E	14	SER	-	expression tag	UNP Q07817
E	15	TYR	-	expression tag	UNP Q07817
E	16	LYS	-	expression tag	UNP Q07817
E	17	LEU	-	expression tag	UNP Q07817
E	18	SER	-	expression tag	UNP Q07817
E	19	GLN	-	expression tag	UNP Q07817
E	20	LYS	-	expression tag	UNP Q07817
E	21	GLY	-	expression tag	UNP Q07817
E	22	TYR	-	expression tag	UNP Q07817
E	23	SER	-	expression tag	UNP Q07817
E	24	TRP	-	expression tag	UNP Q07817
E	25	SER	-	expression tag	UNP Q07817
E	26	GLN	-	expression tag	UNP Q07817
F	2	SER	-	expression tag	UNP Q07817
F	3	GLN	-	expression tag	UNP Q07817
F	4	SER	-	expression tag	UNP Q07817
F	5	ASN	-	expression tag	UNP Q07817
F	6	ARG	-	expression tag	UNP Q07817
F	7	GLU	-	expression tag	UNP Q07817
F	8	LEU	-	expression tag	UNP Q07817
F	9	VAL	-	expression tag	UNP Q07817
F	10	VAL	-	expression tag	UNP Q07817
F	11	ASP	-	expression tag	UNP Q07817
F	12	PHE	-	expression tag	UNP Q07817
F	13	LEU	-	expression tag	UNP Q07817
F	14	SER	-	expression tag	UNP Q07817
F	15	TYR	-	expression tag	UNP Q07817
F	16	LYS	-	expression tag	UNP Q07817
F	17	LEU	-	expression tag	UNP Q07817
F	18	SER	-	expression tag	UNP Q07817
F	19	GLN	-	expression tag	UNP Q07817
F	20	LYS	-	expression tag	UNP Q07817
F	21	GLY	-	expression tag	UNP Q07817
F	22	TYR	-	expression tag	UNP Q07817
F	23	SER	-	expression tag	UNP Q07817
F	24	TRP	-	expression tag	UNP Q07817
F	25	SER	-	expression tag	UNP Q07817
F	26	GLN	-	expression tag	UNP Q07817

- Molecule 3 is a protein called Affimer ADB13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	90	Total	C	N	O	S	0	0	0
			754	494	122	136	2			
3	D	90	Total	C	N	O	S	0	0	0
			754	494	122	136	2			
3	H	90	Total	C	N	O	S	0	0	0
			754	494	122	136	2			

- Molecule 4 is a protein called Affimer ADB13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	G	88	Total	C	N	O	S	0	0	0
			741	487	119	133	2			

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	44	Total	O	0	0
			44	44		
5	B	59	Total	O	0	0
			59	59		
5	C	11	Total	O	0	0
			11	11		
5	D	15	Total	O	0	0
			15	15		
5	E	56	Total	O	0	0
			56	56		
5	F	16	Total	O	0	0
			16	16		
5	H	19	Total	O	0	0
			19	19		
5	G	40	Total	O	0	0
			40	40		

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: Bcl-2-like protein 1

Chain A:  92% 8%



- Molecule 2: Bcl-2-like protein 1

Chain B:  93% 7%



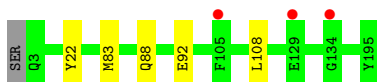
- Molecule 2: Bcl-2-like protein 1

Chain E:  94% 5%



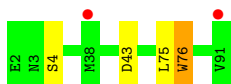
- Molecule 2: Bcl-2-like protein 1

Chain F:  96% 2%



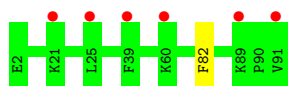
- Molecule 3: Affimer ADB13

Chain C:  96% 2%

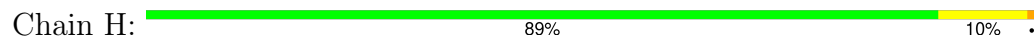


- Molecule 3: Affimer ADB13

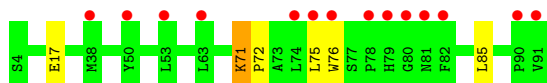
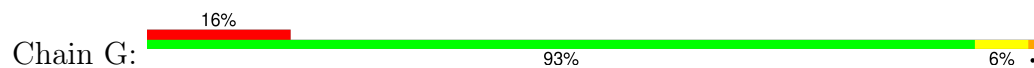
Chain D:  99% 7%



- Molecule 3: Affimer ADB13



- Molecule 4: Affimer ADB13



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	68.27Å 87.29Å 112.18Å 90.00° 96.18° 90.00°	Depositor
Resolution (Å)	55.76 – 2.20 55.76 – 2.20	Depositor EDS
% Data completeness (in resolution range)	98.0 (55.76-2.20) 98.0 (55.76-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 2.20Å)	Xtrriage
Refinement program	REFMAC 5.8.0189	Depositor
R, R_{free}	0.215 , 0.267 0.222 , 0.267	Depositor DCC
R_{free} test set	3227 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	46.1	Xtrriage
Anisotropy	0.133	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 41.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7707	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.07% 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](#)

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	0.80	0/1153	0.81	0/1563
2	B	0.89	0/1148	0.83	0/1556
2	E	0.80	0/1135	0.78	0/1539
2	F	0.72	0/1120	0.73	0/1521
3	C	0.69	0/774	0.78	0/1043
3	D	0.68	0/774	0.70	0/1043
3	H	0.72	0/774	0.77	0/1043
4	G	0.55	0/761	0.68	0/1025
All	All	0.75	0/7639	0.77	0/10333

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 [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	1125	0	1060	10	0
2	B	1120	0	1061	7	0
2	E	1107	0	1046	6	0
2	F	1092	0	1022	5	0
3	C	754	0	746	5	0
3	D	754	0	746	1	0
3	H	754	0	746	5	0
4	G	741	0	738	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	44	0	0	0	0
5	B	59	0	0	1	0
5	C	11	0	0	0	0
5	D	15	0	0	0	0
5	E	56	0	0	0	0
5	F	16	0	0	0	0
5	G	40	0	0	0	0
5	H	19	0	0	1	0
All	All	7707	0	7165	30	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 2.

All (30) 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:108:LEU:HD13	3:C:75:LEU:HD11	1.47	0.92
3:H:24:ALA:C	3:H:25:LEU:HD12	1.93	0.88
1:A:26:GLN:NE2	1:A:189:ASP:OD1	2.24	0.71
3:H:24:ALA:O	3:H:25:LEU:HD12	1.89	0.71
2:E:113:HIS:ND1	2:E:153:GLU:OE1	2.34	0.60
1:A:13:LEU:HD13	2:B:151:CYS:SG	2.43	0.58
2:B:136:ASN:OD1	2:B:139:ARG:HG3	2.06	0.56
2:F:108:LEU:HD13	4:G:75:LEU:HD11	1.88	0.55
2:B:114:ILE:HD11	2:B:150:LEU:HD13	1.90	0.54
1:A:136:ASN:HB2	3:C:43:ASP:OD2	2.09	0.52
2:F:88:GLN:NE2	2:F:92:GLU:OE2	2.42	0.51
2:E:155:VAL:HG11	2:F:22:TYR:CG	2.46	0.51
1:A:108:LEU:CD1	3:C:75:LEU:HD11	2.29	0.51
1:A:127:VAL:HG23	1:A:173:TYR:CE1	2.47	0.50
2:E:4:SER:HB2	2:F:83:MET:CE	2.44	0.48
4:G:17:GLU:HB3	4:G:85:LEU:HD22	1.96	0.48
2:E:4:SER:HB2	2:F:83:MET:HE1	1.97	0.47
2:B:104:ALA:HB2	3:D:82:PHE:CE2	2.50	0.46
2:E:10:VAL:HG13	2:E:24:TRP:CE2	2.50	0.46
4:G:71:LYS:HA	4:G:72:PRO:HD3	1.74	0.45
4:G:71:LYS:CB	4:G:72:PRO:CD	2.95	0.44
2:E:104:ALA:HB2	3:H:82:PHE:CE2	2.52	0.44
3:H:21:LYS:NZ	5:H:101:HOH:O	2.42	0.43
2:B:116:PRO:O	2:B:165:ARG:NH2	2.51	0.43
1:A:108:LEU:HD13	3:C:75:LEU:CD1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:SER:HB2	2:B:83:MET:CE	2.50	0.42
3:H:30:ARG:NH1	3:H:54:GLU:OE1	2.53	0.41
1:A:108:LEU:HB2	3:C:75:LEU:HD11	2.03	0.41
2:B:20:LYS:NZ	5:B:204:HOH:O	2.46	0.41
1:A:98:GLU:HG2	1:A:105:PHE:CE2	2.56	0.41

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	138/140 (99%)	135 (98%)	3 (2%)	0	100	100
2	B	136/138 (99%)	132 (97%)	4 (3%)	0	100	100
2	E	135/138 (98%)	134 (99%)	1 (1%)	0	100	100
2	F	135/138 (98%)	129 (96%)	6 (4%)	0	100	100
3	C	88/90 (98%)	80 (91%)	6 (7%)	2 (2%)	6	3
3	D	88/90 (98%)	84 (96%)	4 (4%)	0	100	100
3	H	88/90 (98%)	82 (93%)	6 (7%)	0	100	100
4	G	86/88 (98%)	80 (93%)	5 (6%)	1 (1%)	13	10
All	All	894/912 (98%)	856 (96%)	35 (4%)	3 (0%)	41	46

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	76	TRP
4	G	76	TRP
3	C	4	SER

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	117/119 (98%)	116 (99%)	1 (1%)	78	88
2	B	117/118 (99%)	116 (99%)	1 (1%)	78	88
2	E	115/118 (98%)	115 (100%)	0	100	100
2	F	112/118 (95%)	112 (100%)	0	100	100
3	C	79/80 (99%)	78 (99%)	1 (1%)	69	81
3	D	79/80 (99%)	79 (100%)	0	100	100
3	H	79/80 (99%)	74 (94%)	5 (6%)	18	20
4	G	78/78 (100%)	77 (99%)	1 (1%)	69	81
All	All	776/791 (98%)	767 (99%)	9 (1%)	71	83

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	90	LEU
2	B	165	ARG
3	C	76	TRP
3	H	30	ARG
3	H	35	LYS
3	H	37	GLN
3	H	40	SER
3	H	89	LYS
4	G	71	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 [i](#)

There are no ligands in this entry.

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	140/140 (100%)	-0.05	0 100 100	34, 52, 79, 100	0
2	B	138/138 (100%)	-0.18	0 100 100	31, 46, 75, 95	0
2	E	137/138 (99%)	0.10	0 100 100	32, 52, 83, 100	0
2	F	137/138 (99%)	0.06	3 (2%) 62 59	40, 80, 112, 125	0
3	C	90/90 (100%)	-0.02	2 (2%) 62 59	50, 72, 107, 138	0
3	D	90/90 (100%)	0.28	6 (6%) 17 16	38, 77, 116, 124	0
3	H	90/90 (100%)	-0.15	0 100 100	38, 63, 95, 110	0
4	G	88/88 (100%)	0.93	14 (15%) 1 1	79, 112, 138, 143	0
All	All	910/912 (99%)	0.09	25 (2%) 54 52	31, 63, 119, 143	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	G	81	ASN	5.9
4	G	80	GLY	5.7
4	G	91	VAL	3.8
3	D	91	VAL	3.6
4	G	79	HIS	3.5
2	F	134	GLY	3.4
3	C	38	MET	3.1
3	D	39	PHE	2.8
4	G	74	LEU	2.8
4	G	82	PHE	2.7
3	D	60	LYS	2.7
2	F	105	PHE	2.7
4	G	75	LEU	2.7
3	C	91	VAL	2.6
4	G	78	PRO	2.5
2	F	129	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
4	G	38	MET	2.4
4	G	90	PRO	2.4
3	D	25	LEU	2.3
4	G	76	TRP	2.3
4	G	53	LEU	2.2
4	G	50	TYR	2.2
3	D	21	LYS	2.2
3	D	89	LYS	2.1
4	G	63	LEU	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 [\(i\)](#)

There are no ligands in this entry.

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.