Full wwPDB X-ray Structure Validation Report (i)

Jun 12, 2024 – 04:39 PM EDT

PDB ID	:	1JVK
Title	:	THREE-DIMENSIONAL STRUCTURE OF AN IMMUNOGLOBULIN LIGHT CHAIN DIMER ACTING AS A LETHAL AMYLOID PRECURSOR
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Deposited on	:	2001-08-30
Resolution	:	1.94 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 (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 (i)) were used in the production of this report:

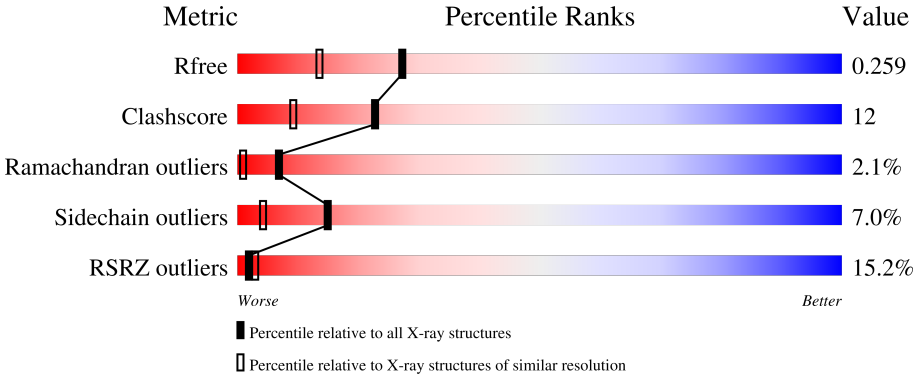
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 1.94 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	4310 (1.96-1.92)
Clashscore	141614	1023 (1.94-1.94)
Ramachandran outliers	138981	1007 (1.94-1.94)
Sidechain outliers	138945	1007 (1.94-1.94)
RSRZ outliers	127900	4250 (1.96-1.92)

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	216	10% 81% 16% • •
1	B	216	20% 68% 28% •

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 3418 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 IMMUNOGLOBULIN LAMBDA LIGHT CHAIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	216	1585	989	264	327	5	0	0	0
1	B	215	1582	987	263	328	4	0	0	0

- Molecule 2 is water.

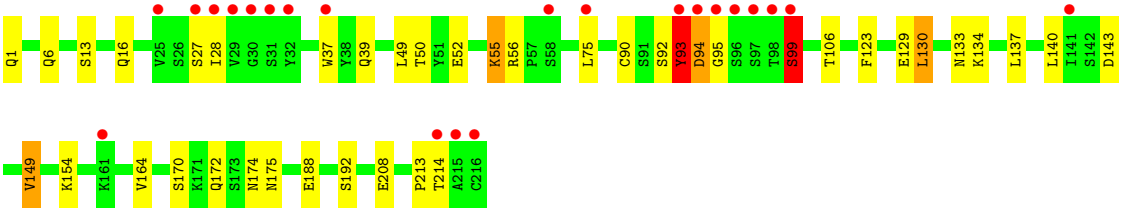
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
2	A	128	128	128	0	0
2	B	123	123	123	0	0

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.

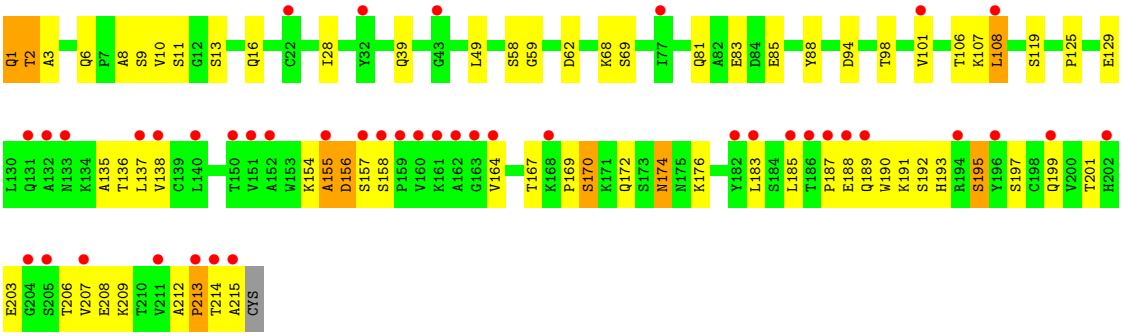
• Molecule 1: IMMUNOGLOBULIN LAMBDA LIGHT CHAIN

Chain A:



• Molecule 1: IMMUNOGLOBULIN LAMBDA LIGHT CHAIN

Chain B:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	48.28Å 83.32Å 112.59Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.80 – 1.94 19.77 – 1.94	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.80-1.94) 98.1 (19.77-1.94)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.64 (at 1.94Å)	Xtriage
Refinement program	REFMAC 5.0	Depositor
R, R_{free}	0.221 , 0.254 0.232 , 0.259	Depositor DCC
R_{free} test set	1717 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å^2)	30.2	Xtriage
Anisotropy	0.091	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 46.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	3418	wwPDB-VP
Average B, all atoms (Å^2)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.40% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

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

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	1.01	1/1614 (0.1%)	1.00	3/2203 (0.1%)
1	B	0.89	0/1611	0.95	3/2199 (0.1%)
All	All	0.95	1/3225 (0.0%)	0.98	6/4402 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	149	VAL	CB-CG2	-5.20	1.42	1.52

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	62	ASP	CB-CG-OD2	9.52	126.86	118.30
1	B	2	THR	N-CA-CB	5.83	121.38	110.30
1	A	143	ASP	CB-CG-OD1	5.82	123.54	118.30
1	A	130	LEU	CA-CB-CG	5.55	128.08	115.30
1	A	94	ASP	CB-CG-OD2	5.14	122.93	118.30
1	B	94	ASP	CB-CG-OD2	5.02	122.82	118.30

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	1585	0	1537	29	0
1	B	1582	0	1541	46	0
2	A	128	0	0	3	0
2	B	123	0	0	7	0
All	All	3418	0	3078	72	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 12.

All (72) 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:95:GLY:O	1:A:99:SER:HA	1.47	1.12
1:B:81:GLN:NE2	1:B:83:GLU:OE1	1.83	1.11
1:A:56:ARG:NH1	2:A:310:HOH:O	1.89	1.03
1:A:94:ASP:OD1	2:A:226:HOH:O	1.86	0.92
1:B:203:GLU:OE1	2:B:283:HOH:O	1.97	0.83
1:A:92:SER:O	1:A:93:TYR:HB2	1.84	0.77
1:B:201:THR:OG1	1:B:206:THR:OG1	2.05	0.75
1:B:156:ASP:OD1	1:B:193:HIS:CD2	2.40	0.74
1:B:156:ASP:OD1	1:B:193:HIS:HD2	1.73	0.71
1:B:135:ALA:HB3	1:B:185:LEU:HD12	1.73	0.69
1:A:27:SER:HA	1:A:93:TYR:CE1	2.28	0.69
1:B:85:GLU:OE2	2:B:243:HOH:O	2.10	0.68
1:B:106:THR:HG22	1:B:108:LEU:CD2	2.26	0.66
1:B:135:ALA:HB3	1:B:185:LEU:CD1	2.26	0.65
1:A:27:SER:HA	1:A:93:TYR:HE1	1.62	0.65
1:A:123:PHE:CZ	1:B:138:VAL:HG23	2.31	0.65
1:A:49:LEU:O	1:A:50:THR:CG2	2.46	0.64
1:B:1:PCA:O	2:B:278:HOH:O	2.15	0.63
1:A:93:TYR:HB3	1:A:99:SER:O	1.99	0.62
1:B:83:GLU:CD	1:B:83:GLU:H	2.02	0.62
1:B:185:LEU:HB2	1:B:189:GLN:HE21	1.66	0.61
1:A:175:ASN:ND2	2:A:299:HOH:O	2.34	0.60
1:A:55:LYS:N	1:A:55:LYS:HD3	2.17	0.60
1:B:10:VAL:HG22	1:B:108:LEU:HD22	1.84	0.59
1:A:164:VAL:O	1:A:164:VAL:HG13	2.01	0.59
1:B:10:VAL:HG23	1:B:108:LEU:HD13	1.85	0.59
1:B:13:SER:O	1:B:16:GLN:HG2	2.04	0.57
1:B:154:LYS:HB2	1:B:197:SER:HB2	1.87	0.57
1:A:137:LEU:HD12	1:A:137:LEU:N	2.20	0.57
1:A:49:LEU:O	1:A:50:THR:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:THR:HG22	1:B:108:LEU:HD22	1.87	0.56
1:A:92:SER:O	1:A:93:TYR:CB	2.54	0.55
1:B:174:ASN:ND2	1:B:176:LYS:H	2.05	0.55
1:B:170:SER:OG	1:B:172:GLN:NE2	2.41	0.53
1:A:55:LYS:N	1:A:55:LYS:CD	2.70	0.53
1:B:199:GLN:HG2	1:B:208:GLU:HG3	1.90	0.53
1:A:13:SER:H	1:A:16:GLN:NE2	2.07	0.52
1:B:214:THR:O	1:B:215:ALA:CB	2.59	0.50
1:B:8:ALA:O	1:B:107:LYS:HG2	2.12	0.50
1:A:129:GLU:OE2	1:A:134:LYS:NZ	2.34	0.49
1:A:170:SER:OG	1:A:172:GLN:OE1	2.19	0.49
1:B:10:VAL:CG2	1:B:108:LEU:HD13	2.41	0.49
1:A:123:PHE:CZ	1:B:138:VAL:CG2	2.94	0.49
1:B:88:TYR:CD1	1:B:108:LEU:HG	2.47	0.49
1:B:155:ALA:O	1:B:195:SER:O	2.30	0.48
1:A:6:GLN:NE2	1:A:106:THR:OG1	2.45	0.48
1:B:187:PRO:O	1:B:191:LYS:HG2	2.13	0.48
1:B:169:PRO:HD3	2:B:279:HOH:O	2.15	0.46
1:A:52:GLU:CG	1:B:98:THR:OG1	2.63	0.46
1:B:28:ILE:O	2:B:285:HOH:O	2.20	0.46
1:A:188:GLU:O	1:A:192:SER:HB3	2.15	0.45
1:B:125:PRO:HG3	1:B:137:LEU:HD12	1.99	0.45
1:B:135:ALA:O	1:B:185:LEU:CD1	2.65	0.44
1:B:164:VAL:HG12	1:B:183:LEU:HD13	2.00	0.44
1:A:49:LEU:C	1:A:50:THR:HG23	2.38	0.44
1:B:39:GLN:HB2	1:B:49:LEU:HD11	2.00	0.44
1:A:129:GLU:HG2	1:A:134:LYS:HG3	1.99	0.43
1:B:3:ALA:HB1	1:B:28:ILE:HD11	2.01	0.43
1:B:185:LEU:HD11	1:B:190:TRP:HB2	2.01	0.43
1:B:101:VAL:HG12	2:B:217:HOH:O	2.17	0.43
1:B:129:GLU:CD	1:B:136:THR:H	2.22	0.43
1:B:212:ALA:O	1:B:213:PRO:O	2.36	0.43
1:B:185:LEU:HD12	1:B:185:LEU:C	2.39	0.42
1:B:212:ALA:O	1:B:213:PRO:C	2.58	0.42
1:A:37:TRP:CD2	1:A:75:LEU:HB2	2.54	0.42
1:A:39:GLN:HB2	1:A:49:LEU:HD11	2.01	0.42
1:B:167:THR:HG21	2:B:263:HOH:O	2.20	0.42
1:B:174:ASN:C	1:B:174:ASN:HD22	2.23	0.41
1:A:37:TRP:CZ3	1:A:90:CYS:HB3	2.55	0.41
1:A:154:LYS:NZ	1:A:208:GLU:OE2	2.46	0.41
1:B:135:ALA:O	1:B:185:LEU:HD12	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:SER:CB	1:B:107:LYS:HG3	2.51	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	214/216 (99%)	201 (94%)	9 (4%)	4 (2%)	8 1
1	B	213/216 (99%)	200 (94%)	8 (4%)	5 (2%)	6 1
All	All	427/432 (99%)	401 (94%)	17 (4%)	9 (2%)	7 1

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	93	TYR
1	A	99	SER
1	B	58	SER
1	A	28	ILE
1	B	155	ALA
1	B	59	GLY
1	B	213	PRO
1	B	2	THR
1	A	213	PRO

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	178/180 (99%)	169 (95%)	9 (5%)	24 9
1	B	179/180 (99%)	163 (91%)	16 (9%)	9 2
All	All	357/360 (99%)	332 (93%)	25 (7%)	15 4

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	55	LYS
1	A	93	TYR
1	A	99	SER
1	A	130	LEU
1	A	133	ASN
1	A	140	LEU
1	A	149	VAL
1	A	174	ASN
1	A	214	THR
1	B	6	GLN
1	B	11	SER
1	B	68	LYS
1	B	69	SER
1	B	108	LEU
1	B	119	SER
1	B	156	ASP
1	B	157	SER
1	B	158	SER
1	B	170	SER
1	B	174	ASN
1	B	188	GLU
1	B	192	SER
1	B	195	SER
1	B	207	VAL
1	B	209	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	GLN
1	A	113	GLN

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Mol	Chain	Res	Type
1	A	133	ASN
1	A	174	ASN
1	A	175	ASN
1	B	172	GLN
1	B	174	ASN
1	B	189	GLN
1	B	193	HIS
1	B	199	GLN
1	B	202	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)

2 non-standard protein/DNA/RNA residues 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	$\#\|Z\| > 2$
1	PCA	A	1	1	7,8,9	2.11	2 (28%)	9,10,12	3.09	6 (66%)
1	PCA	B	1	1	7,8,9	3.26	2 (28%)	9,10,12	2.39	2 (22%)

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
1	PCA	A	1	1	-	0/0/11/13	0/1/1/1
1	PCA	B	1	1	-	0/0/11/13	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1	PCA	CA-N	6.46	1.54	1.46
1	B	1	PCA	CD-N	5.52	1.49	1.34
1	A	1	PCA	CD-N	4.42	1.46	1.34
1	A	1	PCA	CA-N	3.17	1.50	1.46

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1	PCA	CB-CA-C	-6.12	104.28	112.70
1	B	1	PCA	CA-N-CD	-4.84	97.02	113.58
1	A	1	PCA	OE-CD-CG	-4.41	119.07	126.76
1	B	1	PCA	OE-CD-CG	-4.07	119.67	126.76
1	A	1	PCA	CA-N-CD	-3.38	102.00	113.58
1	A	1	PCA	CB-CA-N	2.60	110.75	103.30
1	A	1	PCA	CG-CD-N	2.17	114.02	108.39
1	A	1	PCA	CB-CG-CD	-2.05	101.09	104.40

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	1	PCA	1	0

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 (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	215/216 (99%)	1.02	22 (10%)	6	10	18, 28, 56, 68	0
1	B	214/216 (99%)	1.18	43 (20%)	1	1	18, 35, 59, 69	4 (1%)
All	All	429/432 (99%)	1.10	65 (15%)	2	3	18, 30, 58, 69	4 (0%)

All (65) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	29	VAL	13.3
1	B	215	ALA	12.7
1	A	28	ILE	10.2
1	A	95	GLY	9.3
1	A	98	THR	8.5
1	A	96	SER	8.4
1	A	216	CYS	8.3
1	A	97	SER	7.9
1	A	215	ALA	6.6
1	B	185	LEU	6.5
1	B	161	LYS	6.2
1	A	94	ASP	6.2
1	B	157	SER	5.8
1	A	31	SER	5.6
1	B	214	THR	5.3
1	B	155	ALA	5.2
1	A	30	GLY	5.0
1	A	32	TYR	4.7
1	A	27	SER	4.5
1	A	214	THR	4.4
1	B	32	TYR	4.3
1	B	159	PRO	4.2
1	A	58	SER	4.0
1	B	162	ALA	4.0

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Mol	Chain	Res	Type	RSRZ
1	B	186	THR	3.9
1	A	161	LYS	3.9
1	B	188	GLU	3.4
1	B	164	VAL	3.3
1	B	43	GLY	3.2
1	B	211	VAL	3.1
1	B	204	GLY	3.1
1	B	205	SER	3.0
1	B	137	LEU	3.0
1	A	93	TYR	3.0
1	B	187	PRO	2.9
1	A	25	VAL	2.9
1	B	202	HIS	2.8
1	B	108	LEU	2.8
1	B	213	PRO	2.8
1	B	196	TYR	2.8
1	B	168	LYS	2.7
1	B	140	LEU	2.7
1	B	150	THR	2.7
1	B	207	VAL	2.6
1	B	163	GLY	2.6
1	B	158	SER	2.5
1	B	132	ALA	2.5
1	B	183	LEU	2.4
1	B	194	ARG	2.4
1	A	37	TRP	2.4
1	B	101	VAL	2.4
1	B	182	TYR	2.3
1	B	133	ASN	2.3
1	B	131	GLN	2.3
1	B	160	VAL	2.2
1	A	141	ILE	2.2
1	A	99	SER	2.2
1	B	138	VAL	2.2
1	B	151	VAL	2.2
1	B	189	GLN	2.2
1	B	199	GLN	2.1
1	B	77	ILE	2.1
1	A	75	LEU	2.0
1	B	22	CYS	2.0
1	B	152	ALA	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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(Å^2)	Q<0.9
1	PCA	B	1	8/9	0.56	0.38	42,46,46,47	0
1	PCA	A	1	8/9	0.92	0.15	29,33,35,35	0

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.