



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 10:01 PM UTC

PDB ID : 4AKD / pdb_00004akd
Title : High resolution structure of Mannose Binding lectin from Champedak (CMB)
Authors : Gabrielsen, M.; Abdul-Rahman, P.S.; Othman, S.; Hashim, O.H.; Cogdell, R.J.
Deposited on : 2012-02-22
Resolution : 2.10 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 : 4-5-2 with Phenix2.0
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

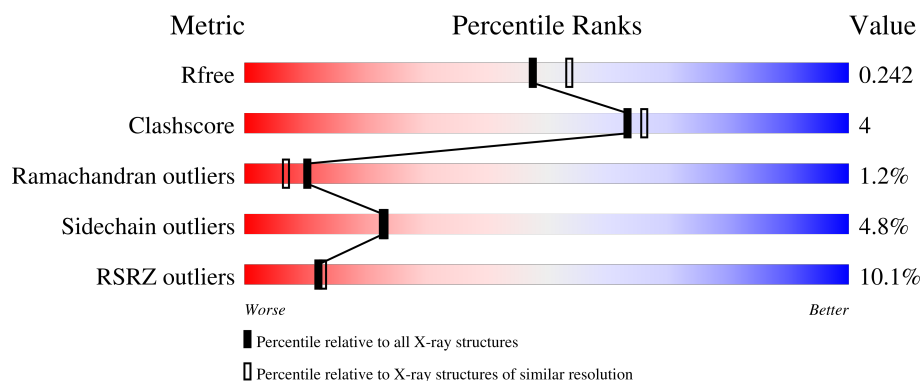
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	150	3% 88% 11% ..
1	B	150	3% 91% 7% ..
1	C	150	31% 79% 12% 5% ..
1	D	150	2% 91% 9%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4832 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 MANNOSE-SPECIFIC LECTIN KM+.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	150	Total	C	N	O	S	8	1	0
			1146	736	186	222	2			
1	B	150	Total	C	N	O	S	22	1	0
			1143	735	185	221	2			
1	C	144	Total	C	N	O	S	50	1	0
			1105	708	180	215	2			
1	D	150	Total	C	N	O	S	22	1	0
			1146	736	186	222	2			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP Q7M1T4
A	14	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	42	CYS	SER	SEE REMARK 999	UNP Q7M1T4
A	51	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	53	PRO	SER	SEE REMARK 999	UNP Q7M1T4
A	71	GLN	ARG	SEE REMARK 999	UNP Q7M1T4
A	74	GLU	ASP	SEE REMARK 999	UNP Q7M1T4
A	78	VAL	GLU	SEE REMARK 999	UNP Q7M1T4
A	85	GLY	ALA	SEE REMARK 999	UNP Q7M1T4
A	1	MET	-	expression tag	UNP Q7M1T4
A	14	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	42	CYS	SER	SEE REMARK 999	UNP Q7M1T4
A	51	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	53	PRO	SER	SEE REMARK 999	UNP Q7M1T4
A	71	GLN	ARG	SEE REMARK 999	UNP Q7M1T4
A	74	GLU	ASP	SEE REMARK 999	UNP Q7M1T4
A	78	VAL	GLU	SEE REMARK 999	UNP Q7M1T4
A	85	GLY	ALA	SEE REMARK 999	UNP Q7M1T4
A	1	MET	-	expression tag	UNP Q7M1T4
A	14	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	42	CYS	SER	SEE REMARK 999	UNP Q7M1T4

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Chain	Residue	Modelled	Actual	Comment	Reference
A	51	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	53	PRO	SER	SEE REMARK 999	UNP Q7M1T4
A	71	GLN	ARG	SEE REMARK 999	UNP Q7M1T4
A	74	GLU	ASP	SEE REMARK 999	UNP Q7M1T4
A	78	VAL	GLU	SEE REMARK 999	UNP Q7M1T4
A	85	GLY	ALA	SEE REMARK 999	UNP Q7M1T4
A	1	MET	-	expression tag	UNP Q7M1T4
A	14	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	42	CYS	SER	SEE REMARK 999	UNP Q7M1T4
A	51	SER	PRO	SEE REMARK 999	UNP Q7M1T4
A	53	PRO	SER	SEE REMARK 999	UNP Q7M1T4
A	71	GLN	ARG	SEE REMARK 999	UNP Q7M1T4
A	74	GLU	ASP	SEE REMARK 999	UNP Q7M1T4
A	78	VAL	GLU	SEE REMARK 999	UNP Q7M1T4
A	85	GLY	ALA	SEE REMARK 999	UNP Q7M1T4

- Molecule 2 is CADMIUM ION (CCD ID: CD) (formula: Cd).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Cd 1 1	0	0
2	B	3	Total Cd 3 3	0	0
2	C	3	Total Cd 3 3	0	0
2	D	1	Total Cd 1 1	0	0

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	4	Total Cl 4 4	0	0
3	C	3	Total Cl 3 3	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	81	Total O 81 81	0	0

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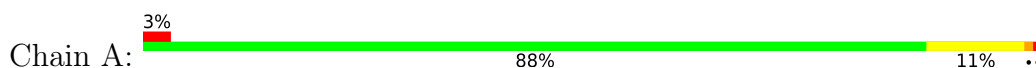
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	74	Total 74	O 74	0	0
4	C	50	Total 50	O 50	0	0
4	D	72	Total 72	O 72	0	0

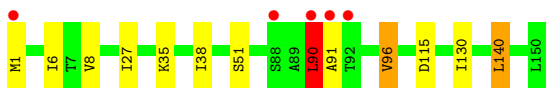
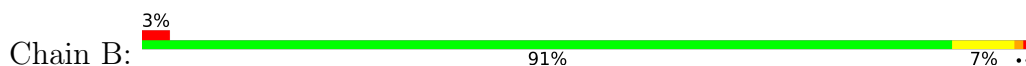
3 Residue-property plots [i](#)

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.

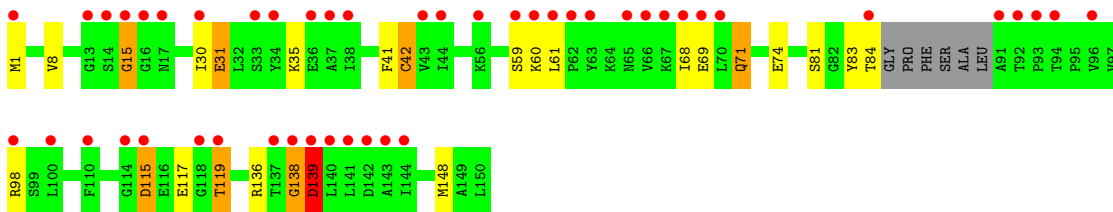
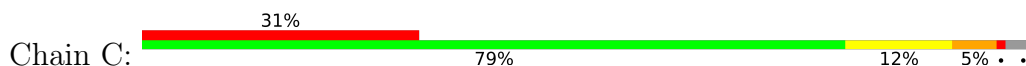
- Molecule 1: MANNOSE-SPECIFIC LECTIN KM+



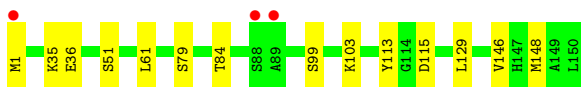
- Molecule 1: MANNOSE-SPECIFIC LECTIN KM+



- Molecule 1: MANNOSE-SPECIFIC LECTIN KM+



- Molecule 1: MANNOSE-SPECIFIC LECTIN KM+



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	76.89Å 86.22Å 95.37Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.69 – 2.10 47.69 – 2.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (47.69-2.10) 99.9 (47.69-2.10)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.86 (at 2.10Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
R, R_{free}	0.193 , 0.236 0.203 , 0.242	Depositor DCC
R_{free} test set	1885 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	33.0	Xtriage
Anisotropy	0.344	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 65.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4832	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 19.35% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CD, 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	0.83	0/1177	1.16	4/1597 (0.3%)
1	B	0.77	0/1177	1.10	3/1597 (0.2%)
1	C	1.16	2/1133 (0.2%)	2.02	5/1535 (0.3%)
1	D	0.80	0/1177	1.15	4/1597 (0.3%)
All	All	0.90	2/4664 (0.0%)	1.41	16/6326 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	139	ASP	C-N	27.13	1.56	1.33
1	C	138	GLY	C-N	11.12	1.49	1.33

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	138	GLY	O-C-N	-51.54	55.70	122.70
1	C	139	ASP	CA-C-N	-27.01	86.51	122.16
1	C	139	ASP	C-N-CA	-27.01	86.51	122.16
1	C	139	ASP	O-C-N	9.72	135.52	122.59
1	D	1	MET	CA-C-N	-7.44	112.52	122.42
1	D	1	MET	C-N-CA	-7.44	112.52	122.42
1	B	90	LEU	CA-C-N	6.14	132.75	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	90	LEU	C-N-CA	6.14	132.75	121.70
1	D	146	VAL	N-CA-C	5.67	116.90	108.46
1	D	61	LEU	N-CA-C	5.56	116.70	109.64
1	A	96	VAL	N-CA-CB	-5.34	102.48	112.36
1	A	90	LEU	CA-C-N	5.32	131.27	121.70
1	A	90	LEU	C-N-CA	5.32	131.27	121.70
1	A	122	ASN	CA-CB-CG	5.26	117.86	112.60
1	B	96	VAL	N-CA-CB	-5.05	103.95	112.44
1	C	115	ASP	N-CA-C	5.04	116.84	108.02

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	138	GLY	Peptide,Mainchain

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	1146	0	1111	13	0
1	B	1143	0	1112	9	0
1	C	1105	0	1069	16	0
1	D	1146	0	1111	6	0
2	A	1	0	0	0	0
2	B	3	0	0	0	0
2	C	3	0	0	1	0
2	D	1	0	0	0	0
3	B	4	0	0	0	0
3	C	3	0	0	1	0
4	A	81	0	0	0	0
4	B	74	0	0	0	0
4	C	50	0	0	0	0
4	D	72	0	0	0	0
All	All	4832	0	4403	35	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 4.

All (35) 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)
2:C:1151:CD:CD	3:C:1155:CL:CL	1.55	1.11
1:A:90:LEU:HB3	1:A:91:ALA:HA	1.35	1.06
1:B:90:LEU:HB3	1:B:91:ALA:HA	1.39	1.02
1:A:72:PHE:HE2	1:C:1:MET:HA	1.43	0.84
1:B:90:LEU:HB3	1:B:91:ALA:CA	2.11	0.79
1:A:90:LEU:HB3	1:A:91:ALA:CA	2.17	0.68
1:A:6:ILE:HD12	1:B:6:ILE:HD12	1.80	0.64
1:A:129:LEU:HD13	1:C:1:MET:H2	1.63	0.64
1:A:72:PHE:CE2	1:C:1:MET:HA	2.30	0.63
1:C:59:SER:CB	1:C:139:ASP:O	2.46	0.63
1:A:148:MET:HE1	1:B:8:VAL:CG1	2.29	0.62
1:C:30:ILE:HG22	1:C:68:ILE:HB	1.81	0.61
1:D:79:SER:HB3	1:D:103:LYS:HB2	1.83	0.60
1:C:59:SER:HB2	1:C:139:ASP:O	2.02	0.59
1:C:59:SER:OG	1:C:139:ASP:O	2.21	0.56
1:C:30:ILE:CG2	1:C:68:ILE:HB	2.36	0.55
1:D:36:GLU:O	1:D:115:ASP:HB2	2.07	0.54
1:C:71:GLN:O	1:C:71:GLN:HG3	2.09	0.53
1:A:129:LEU:HD13	1:C:1:MET:N	2.23	0.52
1:C:31:GLU:HG2	1:C:42:CYS:SG	2.51	0.50
1:B:27:ILE:HD11	1:B:130:ILE:HG22	1.93	0.50
1:B:1:MET:N	1:D:129:LEU:HD21	2.27	0.49
1:C:8:VAL:CG1	1:D:148:MET:HE1	2.43	0.49
1:A:75:GLU:OE2	1:A:108:ARG:HD3	2.13	0.49
1:C:83:TYR:CD2	1:C:119:THR:O	2.67	0.48
1:A:56:LYS:HB3	1:A:58:THR:HG23	1.98	0.46
1:C:15:GLY:H	1:C:136:ARG:NE	2.14	0.46
1:B:1:MET:N	1:D:129:LEU:CD2	2.80	0.44
1:A:16:GLY:O	1:A:136:ARG:NH2	2.52	0.43
1:C:30:ILE:HD11	1:C:41:PHE:CZ	2.54	0.43
1:B:38:ILE:O	1:B:140:LEU:HB2	2.19	0.43
1:C:15:GLY:H	1:C:136:ARG:HE	1.66	0.41
1:A:6:ILE:HD12	1:B:6:ILE:CD1	2.50	0.41
1:D:99:SER:HA	1:D:113:TYR:O	2.20	0.41
1:A:31:GLU:HG2	1:A:67:LYS:HG2	2.03	0.41

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	149/150 (99%)	144 (97%)	4 (3%)	1 (1%)	18	15
1	B	149/150 (99%)	139 (93%)	9 (6%)	1 (1%)	18	15
1	C	141/150 (94%)	130 (92%)	7 (5%)	4 (3%)	4	1
1	D	149/150 (99%)	144 (97%)	4 (3%)	1 (1%)	18	15
All	All	588/600 (98%)	557 (95%)	24 (4%)	7 (1%)	10	7

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	139	ASP
1	A	35	LYS
1	C	15	GLY
1	C	35	LYS
1	B	35	LYS
1	D	35	LYS
1	C	119	THR

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	122/122 (100%)	119 (98%)	3 (2%)	42	48
1	B	122/122 (100%)	117 (96%)	5 (4%)	27	29
1	C	118/122 (97%)	105 (89%)	13 (11%)	6	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	122/122 (100%)	120 (98%)	2 (2%)	55	64
All	All	484/488 (99%)	461 (95%)	23 (5%)	23	23

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	61	LEU
1	A	90	LEU
1	A	96	VAL
1	B	51	SER
1	B	90	LEU
1	B	96	VAL
1	B	115	ASP
1	B	140	LEU
1	C	31	GLU
1	C	42	CYS
1	C	60	LYS
1	C	61	LEU
1	C	69	GLU
1	C	71	GLN
1	C	74	GLU
1	C	81	SER
1	C	84	THR
1	C	98	ARG
1	C	115	ASP
1	C	117	GLU
1	C	148	MET
1	D	51	SER
1	D	84	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	4	GLN
1	A	29	GLN
1	A	65	ASN
1	B	122	ASN
1	B	127	ASN
1	C	4	GLN
1	C	127	ASN
1	D	4	GLN

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Mol	Chain	Res	Type
1	D	122	ASN
1	D	127	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 15 ligands modelled in this entry, 15 are monoatomic - leaving 0 for Mogul analysis.

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	150/150 (100%)	-0.02	5 (3%)	49	51	13, 32, 56, 70	4 (2%)
1	B	150/150 (100%)	0.16	5 (3%)	49	51	15, 39, 66, 91	7 (4%)
1	C	144/150 (96%)	1.66	47 (32%)	1	1	18, 70, 120, 140	14 (9%)
1	D	150/150 (100%)	0.09	3 (2%)	65	67	13, 36, 57, 72	7 (4%)
All	All	594/600 (99%)	0.46	60 (10%)	12	13	13, 39, 104, 140	32 (5%)

All (60) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	138	GLY	8.2
1	C	15	GLY	7.7
1	C	137	THR	7.6
1	C	141	LEU	7.3
1	A	1	MET	6.4
1	C	142	ASP	6.2
1	C	140	LEU	6.0
1	B	1	MET	5.8
1	C	91	ALA	5.3
1	C	1	MET	5.2
1	D	1	MET	5.1
1	C	139	ASP	5.1
1	C	62	PRO	5.0
1	C	119	THR	4.8
1	C	92	THR	4.7
1	A	91	ALA	4.7
1	B	91	ALA	4.6
1	C	68	ILE	4.3
1	C	65	ASN	4.2
1	C	34	TYR	4.1
1	A	92	THR	4.1

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Mol	Chain	Res	Type	RSRZ
1	C	100	LEU	4.0
1	B	90	LEU	3.9
1	C	143	ALA	3.8
1	C	37	ALA	3.7
1	C	84	THR	3.5
1	A	90	LEU	3.5
1	C	94	THR	3.5
1	D	88	SER	3.4
1	C	38	ILE	3.4
1	C	44	ILE	3.3
1	C	110	PHE	3.3
1	C	16	GLY	3.2
1	C	114	GLY	2.9
1	B	88	SER	2.9
1	C	69	GLU	2.9
1	C	17	ASN	2.9
1	C	60	LYS	2.9
1	C	59	SER	2.8
1	C	13	GLY	2.8
1	A	93	PRO	2.8
1	B	92	THR	2.6
1	C	63	TYR	2.5
1	C	67	LYS	2.5
1	C	70	LEU	2.5
1	C	98	ARG	2.5
1	C	118	GLY	2.5
1	C	115	ASP	2.4
1	C	56	LYS	2.4
1	C	93	PRO	2.4
1	C	36	GLU	2.3
1	C	30	ILE	2.3
1	C	61	LEU	2.3
1	C	66	VAL	2.2
1	C	96	VAL	2.2
1	C	144	ILE	2.1
1	C	33	SER	2.1
1	C	43	VAL	2.1
1	C	14	SER	2.1
1	D	89	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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
2	CD	A	1151	1/1	0.87	0.14	162,162,162,162	0
2	CD	C	2000	1/1	0.87	0.09	82,82,82,82	0
3	CL	B	1154	1/1	0.87	0.15	95,95,95,95	0
3	CL	C	1153	1/1	0.89	0.09	100,100,100,100	0
3	CL	C	1154	1/1	0.90	0.19	74,74,74,74	0
2	CD	B	1153	1/1	0.91	0.09	109,109,109,109	0
3	CL	C	1155	1/1	0.93	0.06	34,34,34,34	0
3	CL	B	1156	1/1	0.94	0.10	65,65,65,65	0
2	CD	C	1151	1/1	0.95	0.07	91,91,91,91	0
3	CL	B	1157	1/1	0.96	0.19	60,60,60,60	0
2	CD	C	1152	1/1	0.96	0.07	94,94,94,94	0
3	CL	B	1155	1/1	0.97	0.09	61,61,61,61	0
2	CD	D	1151	1/1	0.97	0.15	80,80,80,80	0
2	CD	B	1151	1/1	0.98	0.07	63,63,63,63	0
2	CD	B	1152	1/1	0.98	0.07	68,68,68,68	0

6.5 Other polymers [i](#)

There are no such residues in this entry.