



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 3, 2024 – 01:41 AM EST

PDB ID : 3C22
Title : Crystal structure of the carbohydrate recognition domain of human Langerin
Authors : Thepaut, M.
Deposited on : 2008-01-24
Resolution : 1.50 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 : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

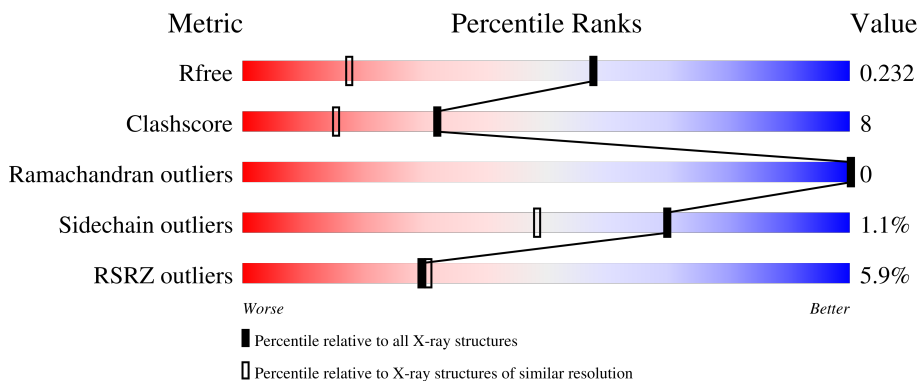
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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}	164625	3717 (1.50-1.50)
Clashscore	180529	4048 (1.50-1.50)
Ramachandran outliers	177936	3970 (1.50-1.50)
Sidechain outliers	177891	3967 (1.50-1.50)
RSRZ outliers	164620	3718 (1.50-1.50)

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	156	 3% 75% 8% 14%
1	B	156	 6% 73% 9% 12%
1	C	156	 7% 69% 15% 9%
1	D	156	 4% 70% 15% 11%

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 5340 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 C-type lectin domain family 4 member K.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	130	1100	716	178	201	5	0	8	0
1	B	128	1101	721	179	196	5	0	10	0
1	C	131	1104	721	180	198	5	0	7	0
1	D	134	1152	753	184	210	5	0	12	0

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	173	ALA	-	expression tag	UNP Q9UJ71
A	174	SER	-	expression tag	UNP Q9UJ71
A	175	TRP	-	expression tag	UNP Q9UJ71
A	176	SER	-	expression tag	UNP Q9UJ71
A	177	HIS	-	expression tag	UNP Q9UJ71
A	178	PRO	-	expression tag	UNP Q9UJ71
A	179	GLN	-	expression tag	UNP Q9UJ71
A	180	PHE	-	expression tag	UNP Q9UJ71
A	181	GLU	-	expression tag	UNP Q9UJ71
A	182	LYS	-	expression tag	UNP Q9UJ71
A	183	ILE	-	expression tag	UNP Q9UJ71
A	184	GLU	-	expression tag	UNP Q9UJ71
A	185	GLY	-	expression tag	UNP Q9UJ71
A	186	ARG	-	expression tag	UNP Q9UJ71
A	187	MET	-	expression tag	UNP Q9UJ71
B	173	ALA	-	expression tag	UNP Q9UJ71
B	174	SER	-	expression tag	UNP Q9UJ71
B	175	TRP	-	expression tag	UNP Q9UJ71
B	176	SER	-	expression tag	UNP Q9UJ71
B	177	HIS	-	expression tag	UNP Q9UJ71
B	178	PRO	-	expression tag	UNP Q9UJ71

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Chain	Residue	Modelled	Actual	Comment	Reference
B	179	GLN	-	expression tag	UNP Q9UJ71
B	180	PHE	-	expression tag	UNP Q9UJ71
B	181	GLU	-	expression tag	UNP Q9UJ71
B	182	LYS	-	expression tag	UNP Q9UJ71
B	183	ILE	-	expression tag	UNP Q9UJ71
B	184	GLU	-	expression tag	UNP Q9UJ71
B	185	GLY	-	expression tag	UNP Q9UJ71
B	186	ARG	-	expression tag	UNP Q9UJ71
B	187	MET	-	expression tag	UNP Q9UJ71
C	173	ALA	-	expression tag	UNP Q9UJ71
C	174	SER	-	expression tag	UNP Q9UJ71
C	175	TRP	-	expression tag	UNP Q9UJ71
C	176	SER	-	expression tag	UNP Q9UJ71
C	177	HIS	-	expression tag	UNP Q9UJ71
C	178	PRO	-	expression tag	UNP Q9UJ71
C	179	GLN	-	expression tag	UNP Q9UJ71
C	180	PHE	-	expression tag	UNP Q9UJ71
C	181	GLU	-	expression tag	UNP Q9UJ71
C	182	LYS	-	expression tag	UNP Q9UJ71
C	183	ILE	-	expression tag	UNP Q9UJ71
C	184	GLU	-	expression tag	UNP Q9UJ71
C	185	GLY	-	expression tag	UNP Q9UJ71
C	186	ARG	-	expression tag	UNP Q9UJ71
C	187	MET	-	expression tag	UNP Q9UJ71
D	173	ALA	-	expression tag	UNP Q9UJ71
D	174	SER	-	expression tag	UNP Q9UJ71
D	175	TRP	-	expression tag	UNP Q9UJ71
D	176	SER	-	expression tag	UNP Q9UJ71
D	177	HIS	-	expression tag	UNP Q9UJ71
D	178	PRO	-	expression tag	UNP Q9UJ71
D	179	GLN	-	expression tag	UNP Q9UJ71
D	180	PHE	-	expression tag	UNP Q9UJ71
D	181	GLU	-	expression tag	UNP Q9UJ71
D	182	LYS	-	expression tag	UNP Q9UJ71
D	183	ILE	-	expression tag	UNP Q9UJ71
D	184	GLU	-	expression tag	UNP Q9UJ71
D	185	GLY	-	expression tag	UNP Q9UJ71
D	186	ARG	-	expression tag	UNP Q9UJ71
D	187	MET	-	expression tag	UNP Q9UJ71

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

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

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	238	Total O 238 238	0	0
4	B	222	Total O 222 222	0	0
4	C	194	Total O 194 194	0	0
4	D	219	Total O 219 219	0	0

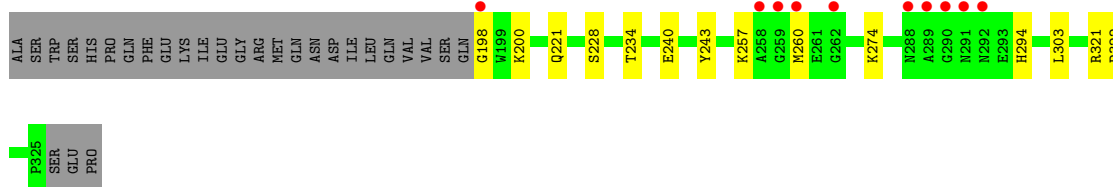
3 Residue-property plots [i](#)

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.

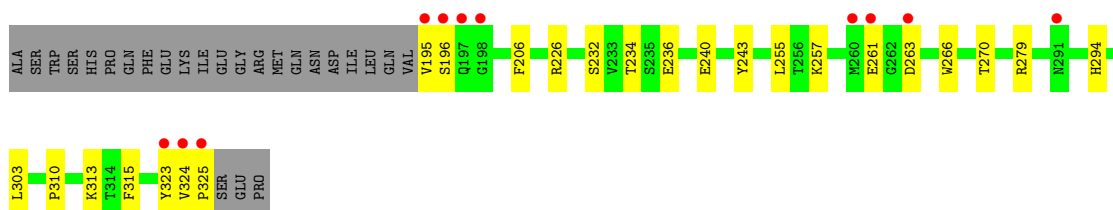
- Molecule 1: C-type lectin domain family 4 member K



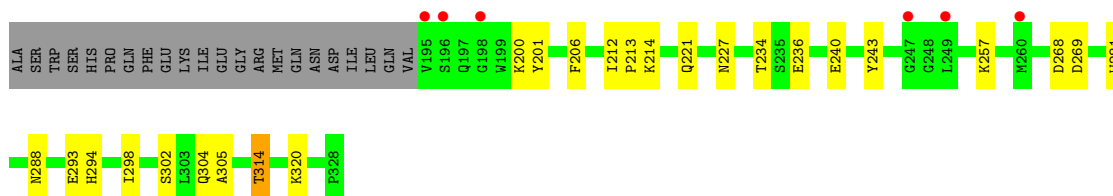
- Molecule 1: C-type lectin domain family 4 member K



- Molecule 1: C-type lectin domain family 4 member K



- Molecule 1: C-type lectin domain family 4 member K



4 Data and refinement statistics i

Property	Value	Source
Space group	P 42	Depositor
Cell constants a, b, c, α , β , γ	79.56Å 79.56Å 90.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.72 – 1.50 47.72 – 1.50	Depositor EDS
% Data completeness (in resolution range)	99.6 (47.72-1.50) 99.6 (47.72-1.50)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.54 (at 1.50Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.189 , 0.236 0.188 , 0.232	Depositor DCC
R_{free} test set	4474 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	16.7	Xtrriage
Anisotropy	0.120	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 61.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.036 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5340	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.82% 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: MG, CA

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	0.71	0/1163	0.72	0/1581
1	B	0.72	0/1170	0.73	0/1587
1	C	0.71	0/1164	0.78	1/1581 (0.1%)
1	D	0.68	0/1228	0.71	0/1670
All	All	0.70	0/4725	0.74	1/6419 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	255	LEU	CA-CB-CG	5.38	127.68	115.30

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	1100	0	1047	15	0
1	B	1101	0	1067	13	0
1	C	1104	0	1060	23	0
1	D	1152	0	1114	22	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
3	C	2	0	0	0	0
3	D	1	0	0	0	0
4	A	238	0	0	6	0
4	B	222	0	0	5	0
4	C	194	0	0	1	0
4	D	219	0	0	3	0
All	All	5340	0	4288	69	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 8.

All (69) 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:C:261:GLU:HG3	1:C:263:ASP:OD2	1.69	0.92
1:B:234:THR:HG23	4:B:474:HOH:O	1.77	0.84
1:C:240[B]:GLU:HG3	1:C:303:LEU:HD21	1.61	0.81
1:A:236[B]:GLU:HG3	1:A:279:ARG:NH1	2.04	0.72
1:C:313[B]:LYS:HD3	1:C:315:PHE:CZ	2.23	0.72
1:B:198:GLY:HA2	4:B:543:HOH:O	1.90	0.71
4:A:431:HOH:O	1:D:234[A]:THR:HG22	1.90	0.71
1:A:228:SER:HB3	1:A:321:ARG:HG3	1.73	0.70
1:C:261:GLU:HG3	1:C:263:ASP:CG	2.12	0.69
1:D:304[B]:GLN:NE2	4:D:525:HOH:O	2.25	0.67
1:C:257:LYS:NZ	1:C:294:HIS:HD2	1.95	0.65
4:A:375:HOH:O	1:D:234[A]:THR:HG21	1.96	0.63
4:A:431:HOH:O	1:D:234[A]:THR:CG2	2.45	0.63
1:C:240[B]:GLU:CG	1:C:303:LEU:HD21	2.29	0.62
1:B:294:HIS:HB2	1:D:221[B]:GLN:OE1	2.00	0.62
1:C:206:PHE:CE1	1:C:323:TYR:HD1	2.18	0.61
1:A:236[B]:GLU:CG	1:A:279:ARG:NH1	2.63	0.61
1:D:257:LYS:NZ	1:D:294:HIS:HD2	2.02	0.58
1:D:213:PRO:HB2	1:D:314:THR:HG23	1.86	0.58
1:A:294:HIS:HE1	4:A:336:HOH:O	1.88	0.57
1:A:213:PRO:HB2	1:A:314[B]:THR:CG2	2.35	0.57
1:A:257:LYS:NZ	1:A:294:HIS:HD2	2.02	0.57
1:B:274[A]:LYS:HD3	1:C:325:PRO:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:298[B]:ILE:HG13	1:D:305:ALA:HB1	1.91	0.52
1:B:221[B]:GLN:NE2	4:B:502:HOH:O	2.42	0.52
1:A:236[B]:GLU:HG3	1:A:279:ARG:HH12	1.75	0.52
1:C:195:VAL:CG1	1:C:196:SER:N	2.73	0.51
1:D:212[B]:ILE:HD11	1:D:214[B]:LYS:NZ	2.26	0.51
1:C:261:GLU:HG2	1:C:263:ASP:H	1.74	0.51
1:C:257:LYS:HZ2	1:C:294:HIS:HD2	1.59	0.49
1:D:236:GLU:O	1:D:240[B]:GLU:HG3	2.11	0.49
1:A:213:PRO:HB2	1:A:314[B]:THR:HG22	1.93	0.49
1:D:288:ASN:HA	1:D:293:GLU:HB2	1.95	0.48
1:C:310:PRO:HG2	1:C:313[A]:LYS:HE2	1.95	0.48
1:B:240[B]:GLU:HG3	1:B:303:LEU:HD21	1.95	0.48
1:C:196:SER:HB3	1:C:226[A]:ARG:NH2	2.28	0.48
1:C:196:SER:OG	4:C:771:HOH:O	2.20	0.47
1:D:302:SER:O	1:D:305:ALA:HB2	2.15	0.47
1:B:228:SER:HB3	1:B:321[A]:ARG:HB3	1.95	0.46
1:A:302:SER:O	1:A:305:ALA:HB2	2.14	0.46
1:D:320:LYS:NZ	4:D:485:HOH:O	2.48	0.46
1:B:257:LYS:HB2	1:D:221[A]:GLN:HE22	1.80	0.46
1:D:212[B]:ILE:HD11	1:D:214[B]:LYS:HZ1	1.79	0.46
1:D:200:LYS:HD2	4:D:531:HOH:O	2.15	0.46
1:B:234:THR:CG2	4:B:474:HOH:O	2.50	0.46
1:C:261:GLU:CG	1:C:263:ASP:CG	2.83	0.45
1:D:281:TRP:O	1:D:304[B]:GLN:HG3	2.17	0.45
1:C:236:GLU:OE1	1:C:279:ARG:NH2	2.48	0.45
1:B:321[A]:ARG:HA	1:B:322:PRO:HD3	1.77	0.44
1:B:260:MET:HG3	1:D:227[B]:ASN:OD1	2.18	0.43
1:D:257:LYS:HZ1	1:D:294:HIS:HD2	1.66	0.43
1:B:200[A]:LYS:HD2	4:B:438:HOH:O	2.17	0.43
1:C:206:PHE:HE1	1:C:323:TYR:HD1	1.66	0.43
1:C:310:PRO:HB2	1:C:313[A]:LYS:HG3	2.01	0.42
1:A:213:PRO:HB2	1:A:314[B]:THR:HG23	2.02	0.42
1:A:321:ARG:HD2	4:A:443:HOH:O	2.19	0.42
1:A:243:TYR:C	1:A:243:TYR:CD1	2.93	0.42
1:D:201:TYR:HB2	1:D:206:PHE:CE2	2.55	0.42
1:C:324:VAL:HA	1:C:325:PRO:HD3	1.92	0.42
1:C:240[B]:GLU:HG3	1:C:303:LEU:CD2	2.41	0.41
1:B:257:LYS:HZ2	1:B:294:HIS:HD2	1.67	0.41
1:D:212[B]:ILE:CD1	1:D:214[B]:LYS:NZ	2.83	0.41
1:A:304[B]:GLN:NE2	4:A:401:HOH:O	2.52	0.41
1:C:196:SER:HB3	1:C:226[A]:ARG:HH21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:232:SER:HA	1:C:266:TRP:CE3	2.56	0.41
1:D:268:ASP:O	1:D:269:ASP:HB2	2.20	0.41
1:C:234:THR:HG21	1:C:270:THR:HG21	2.02	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	136/156 (87%)	133 (98%)	3 (2%)	0	100	100
1	B	136/156 (87%)	130 (96%)	6 (4%)	0	100	100
1	C	136/156 (87%)	135 (99%)	1 (1%)	0	100	100
1	D	144/156 (92%)	140 (97%)	4 (3%)	0	100	100
All	All	552/624 (88%)	538 (98%)	14 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	120/136 (88%)	119 (99%)	1 (1%)	79	62
1	B	120/136 (88%)	119 (99%)	1 (1%)	79	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	120/136 (88%)	119 (99%)	1 (1%)	79	62
1	D	128/136 (94%)	126 (98%)	2 (2%)	58	32
All	All	488/544 (90%)	483 (99%)	5 (1%)	70	53

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	243	TYR
1	B	243	TYR
1	C	243	TYR
1	D	243	TYR
1	D	314	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	197	GLN
1	A	294	HIS
1	B	227	ASN
1	B	294	HIS
1	C	197	GLN
1	C	221	GLN
1	C	292	ASN
1	C	294	HIS
1	D	294	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 10 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 [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	130/156 (83%)	0.07	4 (3%) 51 55	9, 15, 25, 38	8 (6%)
1	B	128/156 (82%)	0.44	10 (7%) 20 21	10, 16, 31, 38	10 (7%)
1	C	131/156 (83%)	0.41	11 (8%) 18 18	8, 17, 32, 42	7 (5%)
1	D	134/156 (85%)	0.46	6 (4%) 39 41	7, 18, 27, 39	15 (11%)
All	All	523/624 (83%)	0.34	31 (5%) 29 30	7, 17, 30, 42	40 (7%)

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	195	VAL	6.1
1	C	324	VAL	4.5
1	B	289	ALA	3.9
1	D	260	MET	3.9
1	A	196	SER	3.6
1	C	325	PRO	3.5
1	D	247	GLY	3.3
1	B	291	ASN	3.3
1	C	263	ASP	3.2
1	C	198	GLY	3.2
1	B	260	MET	3.2
1	D	195	VAL	3.2
1	C	261	GLU	3.1
1	C	323	TYR	3.1
1	B	258	ALA	3.0
1	C	291	ASN	3.0
1	A	260	MET	3.0
1	C	260	MET	2.8
1	B	198	GLY	2.7
1	B	259	GLY	2.5
1	B	262	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	196	SER	2.5
1	B	288	ASN	2.4
1	C	197	GLN	2.4
1	B	292	ASN	2.3
1	A	197	GLN	2.3
1	D	198	GLY	2.3
1	D	196	SER	2.2
1	B	290	GLY	2.2
1	D	249	LEU	2.1
1	A	198	GLY	2.1

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(Å ²)	Q<0.9
3	MG	D	10	1/1	0.96	0.11	22,22,22,22	0
3	MG	C	8	1/1	0.98	0.08	25,25,25,25	0
3	MG	A	2	1/1	0.98	0.08	23,23,23,23	0
3	MG	B	5	1/1	0.99	0.05	22,22,22,22	0
3	MG	C	7[B]	1/1	0.99	0.02	10,10,10,10	1
3	MG	B	4[B]	1/1	1.00	0.06	13,13,13,13	1
2	CA	B	3[A]	1/1	1.00	0.07	13,13,13,13	1
2	CA	C	6[A]	1/1	1.00	0.01	14,14,14,14	1
2	CA	D	9	1/1	1.00	0.03	20,20,20,20	0
2	CA	A	1	1/1	1.00	0.02	17,17,17,17	0

6.5 Other polymers [i](#)

There are no such residues in this entry.