



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 09:25 PM UTC

PDB ID : 6FGB / pdb_00006fgb
Title : Human FcRn extra-cellular domain complexed with Fab fragment of Rozanolixizumab
Authors : Sarkar, K.; Ceska, T.; Meier, C.
Deposited on : 2018-01-10
Resolution : 2.90 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

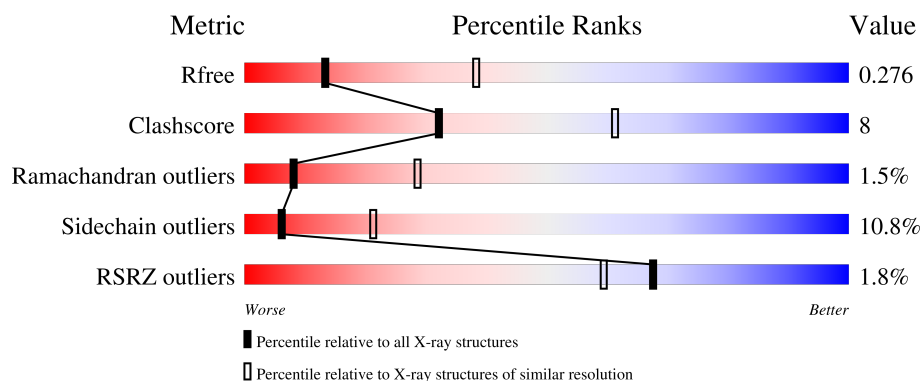
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)

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	342	3% 59% 16% • 23%
2	B	99	78% 19% •
3	L	219	3% 72% 25% •
4	H	228	3% 70% 21% • 5%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 6141 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 IgG receptor FcRn large subunit p51.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	265	Total	C	N	O	S	0	0	0
			2015	1291	338	378	8			

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	99	Total	C	N	O	S	0	0	0
			811	517	137	154	3			

- Molecule 3 is a protein called 1519.g57- Light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	L	219	Total	C	N	O	S	0	0	0
			1672	1051	279	336	6			

- Molecule 4 is a protein called 1519.g57- Heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	H	217	Total	C	N	O	S	0	0	0
			1612	1023	269	314	6			

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Cl	0	0
			1	1		
5	L	1	Total	Cl	0	0
			1	1		

- Molecule 6 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	1	Total	Na	0	0
			1	1		
6	H	1	Total	Na	0	0
			1	1		

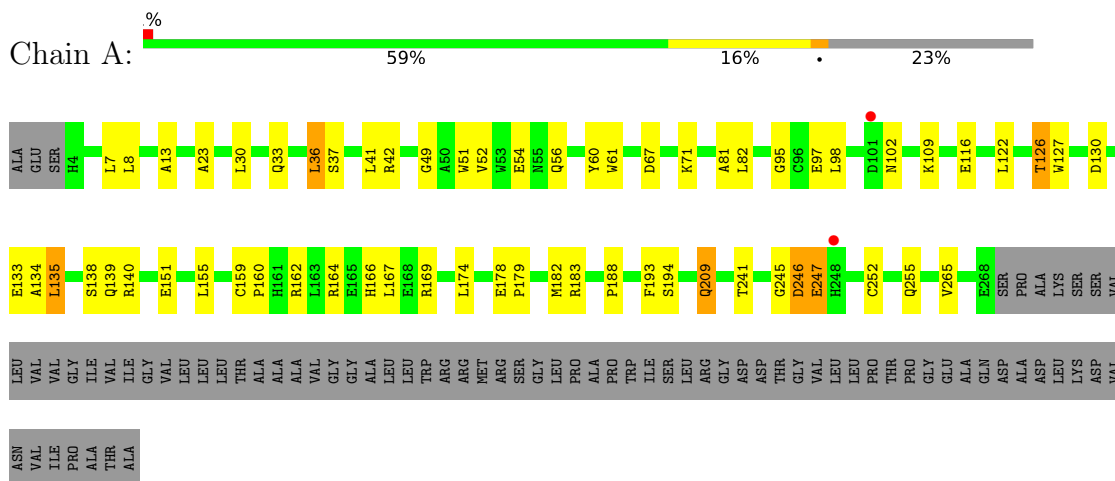
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	5	Total	O	0	0
			5	5		
7	B	9	Total	O	0	0
			9	9		
7	L	7	Total	O	0	0
			7	7		
7	H	6	Total	O	0	0
			6	6		

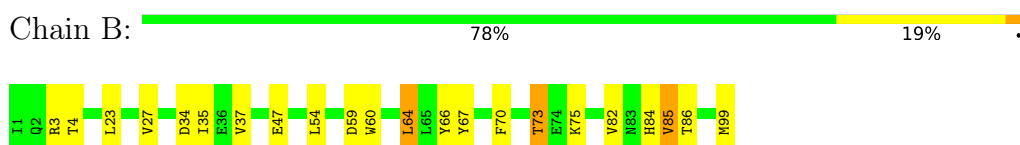
3 Residue-property plots [i](#)

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.

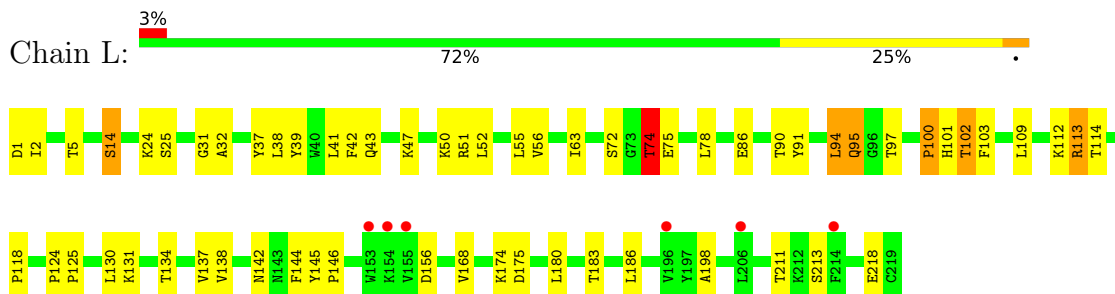
- Molecule 1: IgG receptor FcRn large subunit p51



- Molecule 2: Beta-2-microglobulin

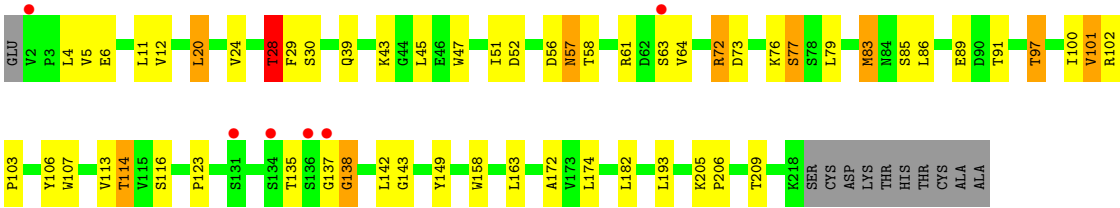


- Molecule 3: 1519.g57- Light chain



- Molecule 4: 1519.g57- Heavy chain





4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	150.10Å 150.10Å 89.15Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 2.90 30.00 – 2.90	Depositor EDS
% Data completeness (in resolution range)	99.9 (30.00-2.90) 99.7 (30.00-2.90)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.03 (at 2.90Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.232 , 0.284 0.228 , 0.276	Depositor DCC
R_{free} test set	1320 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	56.7	Xtriage
Anisotropy	0.061	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 16.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.032 for -h,-k,l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	6141	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.01% 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: NA, 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	0.61	0/2079	0.89	3/2837 (0.1%)
2	B	0.54	0/834	0.82	0/1132
3	L	0.55	0/1709	0.87	2/2319 (0.1%)
4	H	0.58	0/1652	0.89	3/2257 (0.1%)
All	All	0.58	0/6274	0.88	8/8545 (0.1%)

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
3	L	0	1

There are no bond length outliers.

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	H	63	SER	N-CA-C	-6.78	102.08	112.99
1	A	246	ASP	CA-C-N	5.59	131.75	121.70
1	A	246	ASP	C-N-CA	5.59	131.75	121.70
3	L	142	ASN	N-CA-C	5.17	117.39	109.07
1	A	193	PHE	N-CA-C	5.15	117.21	109.23
3	L	74	THR	N-CA-C	-5.09	106.63	114.16
4	H	28	THR	CA-C-N	5.05	127.76	120.38
4	H	28	THR	C-N-CA	5.05	127.76	120.38

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	L	100	PRO	Peptide

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	2015	0	1843	34	0
2	B	811	0	757	10	0
3	L	1672	0	1625	28	0
4	H	1612	0	1566	26	0
5	A	1	0	0	0	0
5	L	1	0	0	0	0
6	A	1	0	0	0	0
6	H	1	0	0	0	0
7	A	5	0	0	0	0
7	B	9	0	0	2	0
7	H	6	0	0	0	0
7	L	7	0	0	2	0
All	All	6141	0	5791	95	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 (95) 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)
3:L:24:LYS:HE2	3:L:74:THR:HG22	1.31	1.07
1:A:246:ASP:N	1:A:247:GLU:HB2	1.73	1.01
4:H:97:THR:HG22	4:H:106:TYR:O	1.66	0.95
3:L:37:TYR:HB2	3:L:97:THR:HG22	1.59	0.83
2:B:4:THR:HG22	2:B:86:THR:HB	1.60	0.82
4:H:20:LEU:HD22	4:H:83:MET:HE2	1.63	0.81
1:A:122:LEU:HB2	4:H:28:THR:HG21	1.63	0.80
3:L:100:PRO:HA	3:L:101:HIS:HB2	1.65	0.78
3:L:43:GLN:NE2	7:L:401:HOH:O	2.18	0.77
1:A:102:ASN:OD1	1:A:164:ARG:NH1	2.17	0.77
4:H:91:THR:HG23	4:H:114:THR:HA	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:52:LEU:HD23	3:L:63:ILE:HD12	1.72	0.71
1:A:82:LEU:HD11	1:A:133:GLU:HB2	1.73	0.69
3:L:38:LEU:O	3:L:55:LEU:O	2.11	0.69
1:A:36:LEU:HD12	1:A:61:TRP:HZ3	1.58	0.68
1:A:134:ALA:O	1:A:138:SER:HB2	1.93	0.68
1:A:81:ALA:HB2	1:A:140:ARG:HG2	1.77	0.66
1:A:36:LEU:HD12	1:A:61:TRP:CZ3	2.32	0.64
1:A:245:GLY:C	1:A:247:GLU:HB2	2.21	0.63
3:L:24:LYS:HE2	3:L:74:THR:CG2	2.17	0.62
1:A:130:ASP:OD1	4:H:102:ARG:HD3	2.00	0.61
1:A:159:CYS:HB3	1:A:160:PRO:HD3	1.84	0.60
3:L:198:ALA:HB2	3:L:213:SER:HB3	1.84	0.60
4:H:123:PRO:HB3	4:H:149:TYR:HB3	1.84	0.60
1:A:109:LYS:HE3	1:A:116:GLU:OE2	2.02	0.58
2:B:4:THR:HG22	2:B:86:THR:CB	2.32	0.56
3:L:94:LEU:HG	3:L:103:PHE:CE2	2.41	0.56
3:L:41:LEU:HD23	3:L:51:ARG:HA	1.89	0.55
1:A:82:LEU:HD11	1:A:133:GLU:CB	2.37	0.54
4:H:101:VAL:O	4:H:101:VAL:HG13	2.06	0.54
4:H:97:THR:CG2	4:H:106:TYR:O	2.50	0.54
3:L:134:THR:HB	3:L:186:LEU:O	2.08	0.53
1:A:151:GLU:O	1:A:155:LEU:HD12	2.09	0.52
4:H:172:ALA:HB2	4:H:182:LEU:HD23	1.90	0.52
2:B:34:ASP:O	2:B:84:HIS:HD2	1.92	0.52
3:L:138:VAL:HG22	3:L:183:THR:HG23	1.92	0.52
4:H:20:LEU:HD22	4:H:83:MET:CE	2.38	0.52
1:A:135:LEU:O	1:A:139:GLN:HG2	2.10	0.52
7:L:402:HOH:O	4:H:47:TRP:HB3	2.11	0.51
1:A:60:TYR:HH	1:A:166:HIS:HE2	1.49	0.50
4:H:137:GLY:O	4:H:138:GLY:O	2.28	0.50
3:L:25:SER:O	3:L:74:THR:HG23	2.12	0.50
3:L:86:GLU:H	3:L:86:GLU:CD	2.20	0.49
1:A:246:ASP:CA	1:A:247:GLU:HB2	2.43	0.49
2:B:4:THR:HG23	7:B:102:HOH:O	2.13	0.48
2:B:37:VAL:HG22	2:B:82:VAL:HG22	1.95	0.48
3:L:86:GLU:OE2	3:L:86:GLU:N	2.47	0.47
1:A:126:THR:HG23	1:A:127:TRP:O	2.15	0.47
1:A:246:ASP:O	1:A:246:ASP:CG	2.57	0.47
1:A:33:GLN:HE21	1:A:51:TRP:HE1	1.61	0.47
4:H:97:THR:HG21	4:H:107:TRP:CE2	2.50	0.46
4:H:47:TRP:O	4:H:61:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:83:MET:HE1	4:H:113:VAL:HG21	1.97	0.46
1:A:49:GLY:O	1:A:52:VAL:HG23	2.15	0.46
3:L:168:VAL:HG22	3:L:180:LEU:HD12	1.98	0.46
1:A:33:GLN:HE21	1:A:51:TRP:NE1	2.13	0.46
1:A:54:GLU:OE1	1:A:56:GLN:NE2	2.49	0.46
4:H:39:GLN:HB2	4:H:45:LEU:HD23	1.98	0.46
3:L:52:LEU:HD11	3:L:91:TYR:HE2	1.80	0.45
1:A:209:GLN:HG3	1:A:255:GLN:HB2	1.98	0.44
3:L:39:TYR:OH	4:H:103:PRO:HG2	2.18	0.44
3:L:118:PRO:HB3	3:L:144:PHE:CD2	2.52	0.44
4:H:172:ALA:HA	4:H:182:LEU:HB3	2.00	0.44
2:B:23:LEU:O	2:B:67:TYR:HA	2.18	0.44
2:B:64:LEU:HD13	2:B:66:TYR:CE1	2.53	0.44
4:H:52:ASP:CG	4:H:57:ASN:HB2	2.43	0.44
1:A:67:ASP:OD2	1:A:162:ARG:NH2	2.51	0.43
3:L:113:ARG:HD3	3:L:114:THR:O	2.18	0.43
3:L:95:GLN:NE2	3:L:102:THR:H	2.17	0.43
3:L:175:ASP:OD2	3:L:175:ASP:C	2.62	0.43
1:A:182:MET:O	1:A:183:ARG:NE	2.47	0.43
1:A:188:PRO:HA	1:A:194:SER:HA	2.00	0.43
4:H:76:LYS:O	4:H:77:SER:C	2.60	0.43
3:L:42:PHE:HA	3:L:90:THR:O	2.19	0.43
1:A:82:LEU:CD1	1:A:133:GLU:HB2	2.44	0.43
3:L:95:GLN:HE21	3:L:95:GLN:HB3	1.64	0.43
4:H:51:ILE:HG13	4:H:58:THR:HG22	2.01	0.42
2:B:3:ARG:NH1	7:B:101:HOH:O	2.51	0.42
2:B:73:THR:HG22	2:B:75:LYS:H	1.85	0.42
4:H:143:GLY:HA2	4:H:158:TRP:CH2	2.54	0.42
2:B:59:ASP:O	2:B:60:TRP:HB2	2.19	0.42
1:A:102:ASN:CG	1:A:164:ARG:HH12	2.23	0.42
3:L:1:ASP:O	3:L:1:ASP:CG	2.63	0.42
1:A:178:GLU:HA	1:A:179:PRO:HD3	1.86	0.41
4:H:29:PHE:HB3	4:H:77:SER:HB2	2.03	0.41
4:H:51:ILE:HG21	4:H:72:ARG:HG2	2.01	0.41
1:A:209:GLN:H	1:A:209:GLN:HG2	1.70	0.41
3:L:14:SER:HA	3:L:112:LYS:HG2	2.02	0.41
1:A:13:ALA:HA	1:A:23:ALA:O	2.20	0.41
3:L:145:TYR:CG	3:L:146:PRO:HA	2.55	0.41
1:A:252:CYS:HB3	1:A:265:VAL:HB	2.02	0.41
3:L:124:PRO:HA	3:L:125:PRO:HD2	1.91	0.41
4:H:24:VAL:HG21	4:H:29:PHE:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:205:LYS:N	4:H:206:PRO:CD	2.84	0.40
1:A:8:LEU:HD23	1:A:95:GLY:HA3	2.03	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	263/342 (77%)	249 (95%)	13 (5%)	1 (0%)	30	59
2	B	97/99 (98%)	92 (95%)	3 (3%)	2 (2%)	5	21
3	L	217/219 (99%)	193 (89%)	19 (9%)	5 (2%)	5	19
4	H	215/228 (94%)	192 (89%)	19 (9%)	4 (2%)	6	23
All	All	792/888 (89%)	726 (92%)	54 (7%)	12 (2%)	8	28

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	H	138	GLY
4	H	64	VAL
4	H	77	SER
1	A	247	GLU
2	B	47	GLU
3	L	156	ASP
2	B	85	VAL
3	L	31	GLY
3	L	32	ALA
4	H	193	LEU
3	L	72	SER
3	L	2	ILE

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	199/277 (72%)	183 (92%)	16 (8%)	11	34
2	B	89/94 (95%)	81 (91%)	8 (9%)	9	28
3	L	190/193 (98%)	171 (90%)	19 (10%)	7	24
4	H	178/192 (93%)	150 (84%)	28 (16%)	2	9
All	All	656/756 (87%)	585 (89%)	71 (11%)	6	21

All (71) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	LEU
1	A	30	LEU
1	A	36	LEU
1	A	37	SER
1	A	41	LEU
1	A	42	ARG
1	A	71	LYS
1	A	97	GLU
1	A	98	LEU
1	A	126	THR
1	A	135	LEU
1	A	167	LEU
1	A	169	ARG
1	A	174	LEU
1	A	209	GLN
1	A	241	THR
2	B	27	VAL
2	B	35	ILE
2	B	54	LEU
2	B	64	LEU
2	B	70	PHE
2	B	73	THR
2	B	85	VAL
2	B	99	MET

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Mol	Chain	Res	Type
3	L	5	THR
3	L	14	SER
3	L	47	LYS
3	L	50	LYS
3	L	56	VAL
3	L	74	THR
3	L	75	GLU
3	L	78	LEU
3	L	94	LEU
3	L	95	GLN
3	L	102	THR
3	L	109	LEU
3	L	113	ARG
3	L	130	LEU
3	L	131	LYS
3	L	137	VAL
3	L	174	LYS
3	L	211	THR
3	L	218	GLU
4	H	4	LEU
4	H	5	VAL
4	H	6	GLU
4	H	11	LEU
4	H	12	VAL
4	H	20	LEU
4	H	28	THR
4	H	30	SER
4	H	43	LYS
4	H	56	ASP
4	H	57	ASN
4	H	72	ARG
4	H	73	ASP
4	H	79	LEU
4	H	83	MET
4	H	85	SER
4	H	86	LEU
4	H	89	GLU
4	H	97	THR
4	H	100	ILE
4	H	101	VAL
4	H	114	THR
4	H	116	SER

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Mol	Chain	Res	Type
4	H	135	THR
4	H	142	LEU
4	H	163	LEU
4	H	174	LEU
4	H	209	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	10	HIS
1	A	33	GLN
1	A	142	GLN
1	A	209	GLN
1	A	248	HIS
3	L	101	HIS
3	L	215	ASN
4	H	175	GLN

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 4 ligands modelled in this entry, 4 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 [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	265/342 (77%)	0.07	2 (0%) 82 77	26, 44, 69, 79	1 (0%)
2	B	99/99 (100%)	-0.36	0 100 100	25, 39, 49, 53	0
3	L	219/219 (100%)	0.37	6 (2%) 56 47	36, 54, 88, 96	0
4	H	217/228 (95%)	0.22	6 (2%) 55 46	35, 54, 69, 75	0
All	All	800/888 (90%)	0.14	14 (1%) 67 59	25, 49, 77, 96	1 (0%)

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	H	136	SER	3.2
1	A	101	ASP	3.2
3	L	214	PHE	2.9
3	L	153	TRP	2.5
3	L	154	LYS	2.5
4	H	63	SER	2.5
4	H	137	GLY	2.3
4	H	134	SER	2.3
3	L	155	VAL	2.3
3	L	196	VAL	2.3
4	H	2	VAL	2.2
1	A	248	HIS	2.2
4	H	131	SER	2.2
3	L	206	LEU	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 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
5	CL	L	301	1/1	0.88	0.14	67,67,67,67	0
6	NA	H	301	1/1	0.90	0.23	58,58,58,58	0
6	NA	A	402	1/1	0.91	0.33	46,46,46,46	0
5	CL	A	401	1/1	0.96	0.06	68,68,68,68	0

6.5 Other polymers [i](#)

There are no such residues in this entry.