



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 04:50 AM UTC

PDB ID : 6LTG / pdb_00006ltg
Title : Crystal structure of the Fab fragment of murine monoclonal antibody OHV-3 against Human herpesvirus 6B
Authors : Nishimura, M.; Novita, B.D.; Kato, T.; Tjan, L.H.; Wang, B.; Wakata, A.; Poetranto, A.L.; Kawabata, A.; Tang, H.; Aoshi, T.; Mori, Y.
Deposited on : 2020-01-22
Resolution : 1.63 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

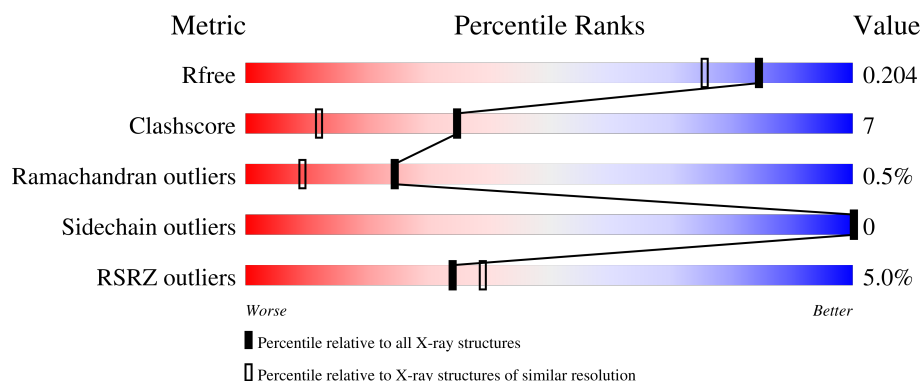
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.63 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	1141 (1.64-1.64)
Clashscore	190562	1171 (1.64-1.64)
Ramachandran outliers	187476	1151 (1.64-1.64)
Sidechain outliers	187428	1150 (1.64-1.64)
RSRZ outliers	180081	1141 (1.64-1.64)

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	221	8% 81% 17% .
1	C	221	7% 84% 14% .
2	B	217	4% 91% 8% .
2	D	217	94% 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7920 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 antibody Fab fragment H-chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	215	Total	C	N	O	S	0	0	0
			1621	1023	270	319	9			
1	C	215	Total	C	N	O	S	0	0	0
			1621	1023	270	319	9			

- Molecule 2 is a protein called antibody Fab fragment L-chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	217	Total	C	N	O	S	0	0	0
			1672	1040	284	342	6			
2	D	217	Total	C	N	O	S	0	0	0
			1672	1040	284	342	6			

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

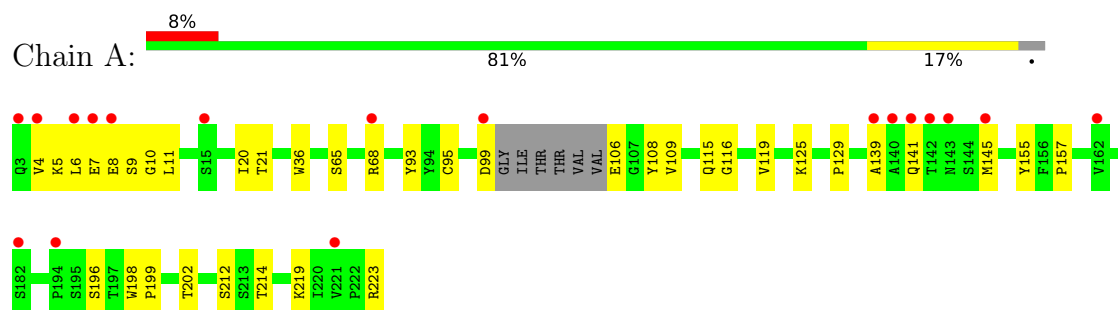
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	350	Total	O	0	0
			350	350		
4	B	321	Total	O	0	0
			321	321		
4	C	328	Total	O	0	0
			328	328		
4	D	333	Total	O	0	0
			333	333		

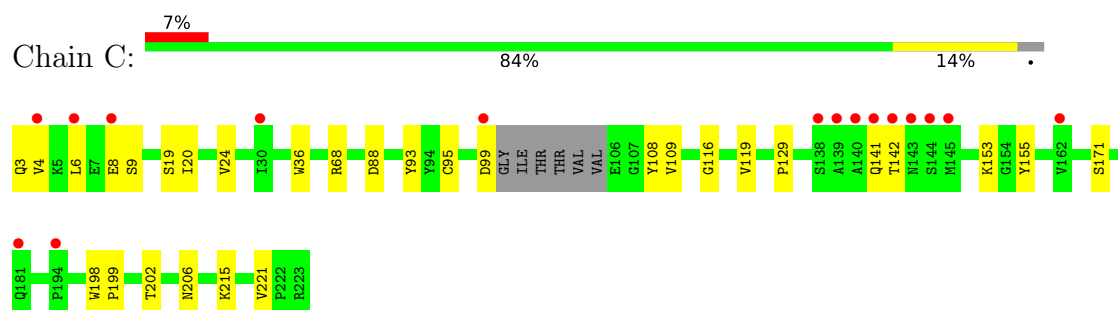
3 Residue-property plots [i](#)

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.

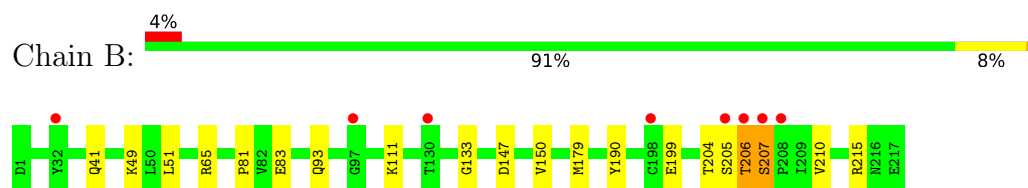
- Molecule 1: antibody Fab fragment H-chain



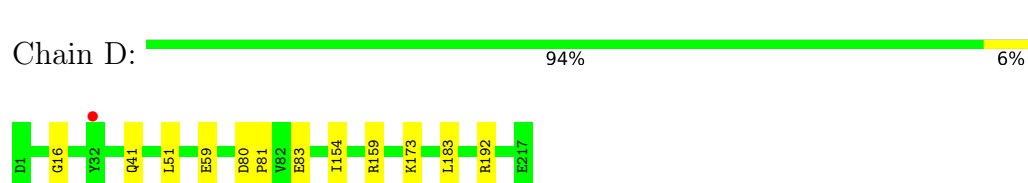
- Molecule 1: antibody Fab fragment H-chain



- Molecule 2: antibody Fab fragment L-chain



- Molecule 2: antibody Fab fragment L-chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	81.38Å 95.20Å 113.78Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.65 – 1.63 38.65 – 1.63	Depositor EDS
% Data completeness (in resolution range)	99.6 (38.65-1.63) 99.8 (38.65-1.63)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.37 (at 1.63Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.182 , 0.204 0.183 , 0.204	Depositor DCC
R_{free} test set	2000 reflections (1.81%)	wwPDB-VP
Wilson B-factor (Å ²)	19.8	Xtriage
Anisotropy	0.256	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 48.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7920	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 26.93 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.4075e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

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	0.31	0/1660	0.60	0/2267
1	C	0.29	0/1660	0.56	0/2267
2	B	0.29	0/1711	0.57	0/2328
2	D	0.25	0/1711	0.50	0/2328
All	All	0.29	0/6742	0.56	0/9190

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	1621	0	1592	35	4
1	C	1621	0	1592	33	0
2	B	1672	0	1592	19	4
2	D	1672	0	1592	11	0
3	A	1	0	0	0	0
3	D	1	0	0	0	0
4	A	350	0	0	9	9
4	B	321	0	0	10	4
4	C	328	0	0	9	8

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	333	0	0	6	3
All	All	7920	0	6368	97	16

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 7.

All (97) 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:171:SER:O	4:C:301:HOH:O	1.78	0.99
1:A:145:MET:SD	4:A:643:HOH:O	2.22	0.97
2:B:147:ASP:OD1	4:B:301:HOH:O	1.82	0.95
1:C:8:GLU:HG3	1:C:20:ILE:HG12	1.47	0.95
1:C:8:GLU:CD	1:C:9:SER:H	1.80	0.89
2:B:83:GLU:OE2	4:B:303:HOH:O	1.96	0.83
2:D:83:GLU:OE1	4:D:401:HOH:O	1.96	0.82
1:C:68:ARG:NH1	4:C:303:HOH:O	2.17	0.76
1:C:8:GLU:OE2	1:C:9:SER:OG	2.03	0.75
2:B:93:GLN:NE2	4:B:304:HOH:O	2.13	0.74
1:A:8:GLU:CD	1:A:10:GLY:H	1.96	0.73
1:A:115:GLN:NE2	4:A:403:HOH:O	2.24	0.70
1:A:8:GLU:OE2	1:A:10:GLY:N	2.25	0.70
1:C:206:ASN:HB3	1:C:215:LYS:HZ1	1.56	0.68
2:D:173:LYS:NZ	4:D:404:HOH:O	2.26	0.67
1:A:8:GLU:CD	1:A:119:VAL:HG22	2.20	0.66
2:D:159:ARG:NH2	4:D:406:HOH:O	2.28	0.65
1:C:6:LEU:HD21	1:C:95:CYS:N	2.12	0.65
1:C:215:LYS:HE3	4:C:385:HOH:O	1.97	0.64
1:A:6:LEU:HD12	1:A:6:LEU:H	1.63	0.63
1:A:202:THR:HG22	4:A:574:HOH:O	1.98	0.62
2:B:205:SER:OG	2:B:206:THR:O	2.17	0.62
2:D:41:GLN:HB2	2:D:51:LEU:HD11	1.82	0.62
1:A:4:VAL:HG13	1:A:95:CYS:SG	2.40	0.61
1:A:6:LEU:HD21	1:A:95:CYS:N	2.17	0.59
1:A:106:GLU:N	4:A:405:HOH:O	2.34	0.59
1:C:8:GLU:HG3	1:C:20:ILE:CG1	2.27	0.59
2:B:206:THR:HB	4:B:349:HOH:O	2.01	0.59
1:C:221:VAL:HG22	4:C:573:HOH:O	2.03	0.59
1:C:99:ASP:OD1	1:C:109:VAL:N	2.30	0.58
1:A:8:GLU:HB2	1:A:20:ILE:HG23	1.86	0.58
2:B:111:LYS:O	4:B:305:HOH:O	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:8:GLU:HG2	1:C:19:SER:O	2.03	0.58
2:D:154:ILE:HD11	2:D:183:LEU:HD21	1.86	0.57
1:A:6:LEU:HD22	1:A:93:TYR:O	2.04	0.57
1:A:99:ASP:OD1	1:A:109:VAL:N	2.30	0.57
2:B:150:VAL:HG23	2:B:179:MET:HE1	1.87	0.56
1:C:6:LEU:HD23	1:C:36:TRP:HZ3	1.70	0.56
1:C:6:LEU:HD22	1:C:93:TYR:O	2.05	0.56
1:C:202:THR:HG23	4:C:468:HOH:O	2.05	0.56
1:A:196:SER:HB3	4:A:408:HOH:O	2.06	0.55
1:A:7:GLU:HG2	1:A:21:THR:HB	1.88	0.55
1:A:4:VAL:CG1	1:A:95:CYS:SG	2.95	0.55
2:D:173:LYS:HE2	4:D:404:HOH:O	2.07	0.54
2:B:206:THR:OG1	4:B:302:HOH:O	2.04	0.54
1:C:4:VAL:HG13	1:C:95:CYS:SG	2.48	0.53
2:B:190:TYR:CE2	2:B:215:ARG:HD3	2.44	0.53
2:B:204:THR:O	4:B:306:HOH:O	2.18	0.53
2:B:199:GLU:HG2	2:B:210:VAL:HG22	1.91	0.53
2:B:65:ARG:HD2	2:B:81:PRO:O	2.09	0.52
1:A:129:PRO:HB3	1:A:155:TYR:HB3	1.92	0.52
2:D:173:LYS:CE	4:D:404:HOH:O	2.57	0.52
1:A:6:LEU:HD12	1:A:6:LEU:N	2.26	0.51
1:A:6:LEU:HD21	1:A:95:CYS:H	1.75	0.50
1:C:129:PRO:HB3	1:C:155:TYR:HB3	1.93	0.50
1:C:6:LEU:HD23	1:C:36:TRP:CZ3	2.45	0.50
1:C:153:LYS:NZ	4:C:306:HOH:O	2.27	0.50
2:B:206:THR:O	2:B:207:SER:C	2.54	0.50
1:A:125:LYS:NZ	4:A:409:HOH:O	2.45	0.50
1:C:8:GLU:CG	1:C:20:ILE:HG12	2.32	0.49
1:A:6:LEU:HD13	1:A:116:GLY:H	1.78	0.49
1:C:8:GLU:HB3	4:C:329:HOH:O	2.13	0.49
1:A:99:ASP:CG	1:A:108:TYR:H	2.20	0.49
1:C:3:GLN:CD	4:C:305:HOH:O	2.56	0.49
2:B:41:GLN:HB2	2:B:51:LEU:HD11	1.96	0.48
1:C:8:GLU:OE1	1:C:119:VAL:HG22	2.13	0.48
1:C:198:TRP:CD1	1:C:199:PRO:HA	2.50	0.47
1:C:4:VAL:HG22	1:C:24:VAL:HG12	1.96	0.47
2:D:59:GLU:OE1	4:D:402:HOH:O	2.20	0.47
1:A:8:GLU:CD	1:A:9:SER:N	2.72	0.47
1:A:196:SER:CB	4:A:408:HOH:O	2.63	0.46
1:A:68:ARG:HH11	1:A:68:ARG:HG2	1.80	0.46
1:C:88:ASP:OD2	4:C:304:HOH:O	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:THR:OG1	2:D:192:ARG:NH2	2.44	0.45
1:C:6:LEU:HD21	1:C:95:CYS:H	1.80	0.45
1:A:5:LYS:HB2	1:A:5:LYS:HE2	1.85	0.44
2:B:49:LYS:NZ	4:B:321:HOH:O	2.51	0.44
1:C:141:GLN:O	1:C:142:THR:HG23	2.19	0.43
1:A:198:TRP:CG	1:A:199:PRO:HA	2.53	0.43
1:A:11:LEU:HB2	1:A:157:PRO:HG3	1.99	0.43
2:B:206:THR:O	2:B:207:SER:O	2.37	0.43
1:A:212:SER:O	1:A:214:THR:HG23	2.19	0.43
1:C:206:ASN:HB3	1:C:215:LYS:NZ	2.30	0.43
1:A:8:GLU:CG	1:A:20:ILE:HG12	2.49	0.42
1:C:8:GLU:CD	1:C:9:SER:N	2.63	0.42
2:D:16:GLY:HA2	2:D:81:PRO:HB2	2.01	0.42
1:A:223:ARG:O	4:A:401:HOH:O	2.21	0.42
2:B:133:GLY:HA2	4:B:323:HOH:O	2.19	0.42
2:D:80:ASP:HA	2:D:81:PRO:HA	1.94	0.42
1:C:4:VAL:CG1	1:C:95:CYS:SG	3.08	0.41
1:A:8:GLU:HG3	1:A:20:ILE:HG12	2.02	0.41
1:C:6:LEU:HD13	1:C:116:GLY:CA	2.51	0.41
1:A:6:LEU:HD23	1:A:36:TRP:HZ3	1.86	0.41
1:C:99:ASP:CG	1:C:108:TYR:H	2.28	0.41
1:A:219:LYS:NZ	4:A:412:HOH:O	2.50	0.40
2:B:205:SER:HB3	4:B:563:HOH:O	2.21	0.40
2:B:205:SER:C	2:B:206:THR:O	2.64	0.40

All (16) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ARG:NH2	2:B:206:THR:CA[2_454]	1.59	0.61
4:A:699:HOH:O	4:B:578:HOH:O[3_445]	1.81	0.39
4:A:602:HOH:O	4:C:515:HOH:O[4_545]	1.84	0.36
4:B:543:HOH:O	4:C:549:HOH:O[3_455]	1.86	0.34
1:A:68:ARG:NH2	2:B:205:SER:O[2_454]	1.90	0.30
4:A:527:HOH:O	4:C:442:HOH:O[4_545]	1.95	0.25
4:A:657:HOH:O	4:C:564:HOH:O[4_545]	1.98	0.22
1:A:65:SER:O	2:B:206:THR:OG1[2_454]	2.03	0.17
4:A:625:HOH:O	4:C:517:HOH:O[4_545]	2.04	0.16
4:A:657:HOH:O	4:B:585:HOH:O[3_445]	2.08	0.12
4:A:676:HOH:O	4:D:638:HOH:O[4_555]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ARG:CZ	2:B:206:THR:CA[2_454]	2.09	0.11
4:C:537:HOH:O	4:D:700:HOH:O[3_345]	2.10	0.10
4:C:579:HOH:O	4:D:700:HOH:O[3_345]	2.10	0.10
4:A:617:HOH:O	4:C:526:HOH:O[4_545]	2.14	0.06
4:A:688:HOH:O	4:B:585:HOH:O[3_445]	2.15	0.05

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	211/221 (96%)	205 (97%)	4 (2%)	2 (1%)	14	2
1	C	211/221 (96%)	203 (96%)	8 (4%)	0	100	100
2	B	215/217 (99%)	206 (96%)	7 (3%)	2 (1%)	14	2
2	D	215/217 (99%)	208 (97%)	7 (3%)	0	100	100
All	All	852/876 (97%)	822 (96%)	26 (3%)	4 (0%)	24	9

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	139	ALA
1	A	141	GLN
2	B	206	THR
2	B	207	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	186/191 (97%)	186 (100%)	0	100	100
1	C	186/191 (97%)	186 (100%)	0	100	100
2	B	188/188 (100%)	188 (100%)	0	100	100
2	D	188/188 (100%)	188 (100%)	0	100	100
All	All	748/758 (99%)	748 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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	39	GLN
2	B	42	GLN
2	B	57	ASN
2	B	93	GLN
1	C	39	GLN
2	D	42	GLN
2	D	57	ASN
2	D	216	ASN

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 2 ligands modelled in this entry, 2 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	215/221 (97%)	0.18	18 (8%)	17 20	14, 20, 33, 53	0
1	C	215/221 (97%)	0.21	16 (7%)	20 23	14, 21, 33, 56	0
2	B	217/217 (100%)	0.08	8 (3%)	45 49	14, 20, 32, 42	0
2	D	217/217 (100%)	-0.04	1 (0%)	87 90	15, 21, 30, 41	0
All	All	864/876 (98%)	0.11	43 (4%)	34 39	14, 21, 32, 56	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	206	THR	8.0
1	A	140	ALA	6.8
1	C	140	ALA	5.7
1	C	8	GLU	5.6
2	B	207	SER	5.0
1	A	8	GLU	5.0
2	B	205	SER	4.6
1	C	139	ALA	4.6
1	A	139	ALA	4.5
1	A	99	ASP	4.3
2	D	32	TYR	4.1
1	A	68	ARG	3.7
1	C	142	THR	3.6
1	A	221	VAL	3.6
1	C	143	ASN	3.5
1	A	143	ASN	3.4
2	B	32	TYR	3.4
1	C	141	GLN	3.4
1	A	142	THR	3.3
1	A	141	GLN	3.1
1	A	182	SER	3.1

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Mol	Chain	Res	Type	RSRZ
1	C	4	VAL	3.0
1	A	145	MET	3.0
1	C	99	ASP	3.0
1	C	144	SER	3.0
2	B	208	PRO	3.0
1	C	6	LEU	3.0
1	A	4	VAL	2.9
1	C	194	PRO	2.9
1	A	15	SER	2.9
1	A	6	LEU	2.8
1	A	194	PRO	2.8
2	B	97	GLY	2.7
1	A	7	GLU	2.6
2	B	130	THR	2.6
2	B	198	CYS	2.4
1	C	162	VAL	2.4
1	C	138	SER	2.3
1	C	145	MET	2.3
1	C	181	GLN	2.3
1	A	3	GLN	2.1
1	C	30	ILE	2.1
1	A	162	VAL	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(Å ²)	Q<0.9
3	MG	A	301	1/1	0.99	0.10	12,12,12,12	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	MG	D	301	1/1	0.99	0.17	12,12,12,12	1

6.5 Other polymers [i](#)

There are no such residues in this entry.