



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 24, 2024 – 09:19 PM EDT

PDB ID : 6CEZ
Title : Crystal Structure of Rabbit Anti-HIV-1 gp120 V2 Fab 16C2 in complex with V2 peptide ConB
Authors : Kong, X.; Pan, R.
Deposited on : 2018-02-13
Resolution : 2.40 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)	:	1.13
EDS	:	2.37.1
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)	:	2.37.1

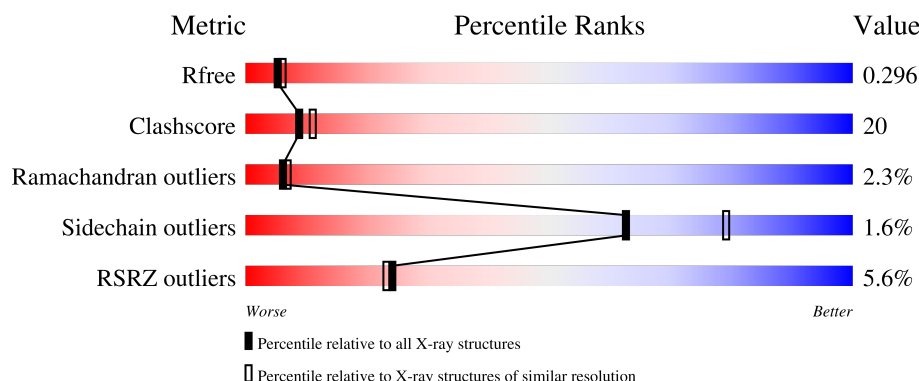
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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	L	213	<div> <div>2%</div> <div>67%</div> <div>31%</div> <div>.</div> </div>
2	H	225	<div> <div>8%</div> <div>64%</div> <div>32%</div> <div>..</div> </div>
3	P	15	<div> <div>7%</div> <div>53%</div> <div>40%</div> <div>7%</div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3353 atoms, of which 1 is hydrogen 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 Light chain of Fab fragment of rabbit anti-HIV1 gp120 V2 mAb 16C2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	L	212	Total	C	N	O	S	0	0	0
			1563	976	256	324	7			

- Molecule 2 is a protein called Heavy chain of Fab fragment of rabbit anti-HIV1 gp120 V2 mAb 16C2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	222	Total	C	N	O	S	0	0	0
			1616	1014	269	323	10			

- Molecule 3 is a protein called HIV-1 gp120 V2 Peptide Con B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	P	14	Total	C	H	N	O	0	0	0
			128	85	1	21	21			

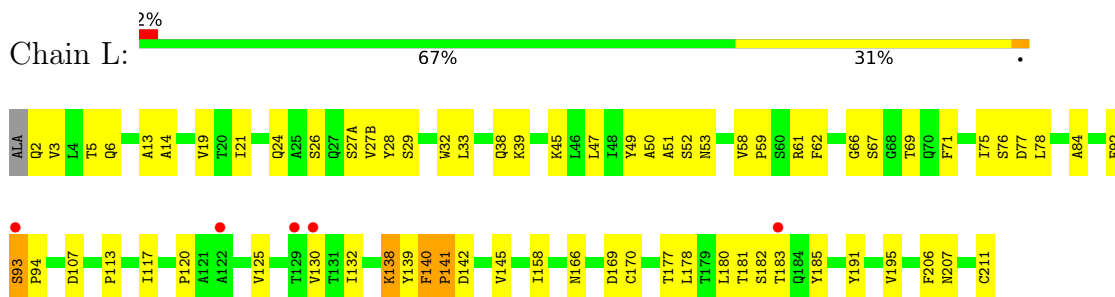
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	26	Total	O	0	0
			26	26		
4	H	19	Total	O	0	0
			19	19		
4	P	1	Total	O	0	0
			1	1		

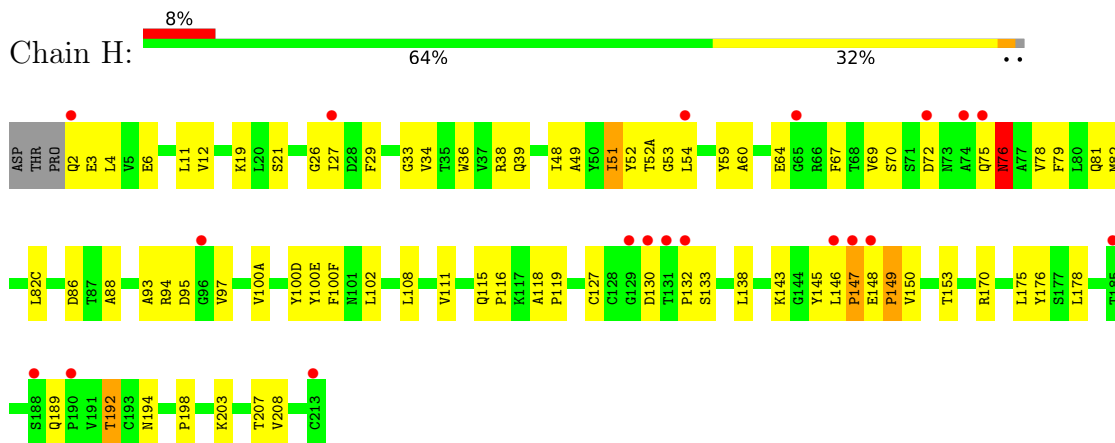
3 Residue-property plots

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: Light chain of Fab fragment of rabbit anti-HIV1 gp120 V2 mAb 16C2



- Molecule 2: Heavy chain of Fab fragment of rabbit anti-HIV1 gp120 V2 mAb 16C2



- Molecule 3: HIV-1 gp120 V2 Peptide Con B



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	64.14Å 41.47Å 79.89Å 90.00° 91.68° 90.00°	Depositor
Resolution (Å)	39.93 – 2.40 39.93 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.8 (39.93-2.40) 92.4 (39.93-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.23 (at 2.39Å)	Xtriage
Refinement program	PHENIX (1.13_2998: ???)	Depositor
R, R_{free}	0.237 , 0.296 0.237 , 0.296	Depositor DCC
R_{free} test set	845 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	43.6	Xtriage
Anisotropy	0.565	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.045 for h,-k,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3353	wwPDB-VP
Average B, all atoms (Å ²)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.96% 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

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	L	0.25	0/1599	0.45	0/2197
2	H	0.25	0/1654	0.44	0/2265
3	P	0.23	0/129	0.30	0/170
All	All	0.25	0/3382	0.45	0/4632

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

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	L	1563	0	1480	62	0
2	H	1616	0	1566	67	0
3	P	127	1	132	4	0
4	H	19	0	0	4	0
4	L	26	0	0	4	0
4	P	1	0	0	0	0
All	All	3352	1	3178	132	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 20.

All (132) 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:H:146:LEU:HB3	2:H:147:PRO:HD2	1.44	0.98
1:L:93:SER:HB2	1:L:94:PRO:HD3	1.54	0.90
3:P:166:ARG:HB2	3:P:171:LYS:HE2	1.66	0.76
1:L:2:GLN:N	1:L:2:GLN:OE1	2.21	0.74
1:L:138:LYS:NZ	4:L:303:HOH:O	2.21	0.74
1:L:2:GLN:HE21	1:L:92:PHE:HB2	1.51	0.74
1:L:113:PRO:HB3	1:L:139:TYR:HB3	1.68	0.73
1:L:140:PHE:HB3	1:L:141:PRO:CD	2.18	0.73
1:L:93:SER:HB2	1:L:94:PRO:CD	2.19	0.73
2:H:146:LEU:CB	2:H:147:PRO:HD2	2.19	0.72
1:L:140:PHE:HB3	1:L:141:PRO:HD2	1.72	0.72
1:L:19:VAL:HG22	1:L:75:ILE:HB	1.72	0.71
2:H:203:LYS:NZ	4:H:303:HOH:O	2.23	0.71
1:L:52:SER:OG	4:L:301:HOH:O	2.09	0.70
2:H:148:GLU:O	2:H:150:VAL:HG13	1.91	0.70
2:H:118:ALA:O	4:H:301:HOH:O	2.10	0.70
1:L:107:ASP:HA	1:L:140:PHE:CZ	2.28	0.69
2:H:72:ASP:HB3	2:H:79:PHE:HE2	1.59	0.67
2:H:33:GLY:N	2:H:95:ASP:OD1	2.28	0.66
2:H:82:MET:HB3	2:H:82(C):LEU:HD21	1.77	0.66
1:L:130:VAL:HG11	1:L:185:TYR:HB2	1.79	0.65
2:H:146:LEU:HD13	2:H:175:LEU:HD23	1.79	0.64
2:H:127:CYS:HB3	2:H:130:ASP:OD1	1.98	0.63
2:H:29:PHE:HB3	2:H:52(A):THR:HG21	1.80	0.63
1:L:120:PRO:HB3	1:L:130:VAL:HG23	1.80	0.62
1:L:181:THR:HG22	1:L:183:THR:H	1.65	0.61
2:H:52:TYR:CE2	2:H:53:GLY:HA3	2.35	0.60
3:P:166:ARG:HA	3:P:170:GLN:OE1	2.02	0.60
2:H:70:SER:O	2:H:78:VAL:HG13	2.02	0.59
2:H:146:LEU:HB3	2:H:147:PRO:CD	2.28	0.59
2:H:149:PRO:O	2:H:198:PRO:HD2	2.03	0.58
1:L:117:ILE:O	4:L:302:HOH:O	2.17	0.58
1:L:61:ARG:HB3	1:L:76:SER:O	2.03	0.58
2:H:170:ARG:HB2	2:H:176:TYR:CE1	2.38	0.58
2:H:51:ILE:HD13	2:H:52:TYR:N	2.18	0.58
1:L:140:PHE:CD1	1:L:141:PRO:HD3	2.40	0.57
2:H:189:GLN:N	2:H:189:GLN:OE1	2.34	0.57
1:L:2:GLN:HE21	1:L:92:PHE:CB	2.18	0.56
2:H:93:ALA:HB1	2:H:100(F):PHE:HB3	1.86	0.56
2:H:34:VAL:HG21	2:H:78:VAL:HG21	1.87	0.56
1:L:2:GLN:HG2	1:L:92:PHE:CG	2.40	0.56
1:L:6:GLN:HE21	1:L:21:ILE:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:180:LEU:HD11	1:L:185:TYR:HB2	1.86	0.56
2:H:11:LEU:HD23	2:H:116:PRO:HG3	1.88	0.55
3:P:167:ASP:OD1	3:P:170:GLN:HG3	2.07	0.55
2:H:76:ASN:ND2	2:H:76:ASN:O	2.40	0.55
2:H:192:THR:HG23	2:H:207:THR:HA	1.88	0.55
1:L:140:PHE:CB	1:L:141:PRO:CD	2.85	0.54
1:L:49:TYR:HB2	2:H:100(E):TYR:CE1	2.43	0.54
1:L:140:PHE:O	1:L:141:PRO:C	2.46	0.54
1:L:93:SER:CB	1:L:94:PRO:HD3	2.33	0.54
2:H:146:LEU:CB	2:H:147:PRO:CD	2.86	0.53
1:L:92:PHE:O	1:L:94:PRO:HD2	2.08	0.53
1:L:113:PRO:HB3	1:L:139:TYR:CB	2.39	0.53
1:L:120:PRO:CB	1:L:130:VAL:HG23	2.39	0.53
2:H:70:SER:HB2	2:H:79:PHE:HB2	1.91	0.53
2:H:53:GLY:C	2:H:54:LEU:HD22	2.29	0.53
1:L:39:LYS:HG2	1:L:84:ALA:HB2	1.90	0.53
2:H:36:TRP:HB3	2:H:48:ILE:HD11	1.91	0.52
2:H:11:LEU:HB2	2:H:147:PRO:HG3	1.91	0.52
2:H:138:LEU:HB3	2:H:208:VAL:HG11	1.91	0.52
2:H:29:PHE:CD2	2:H:78:VAL:HG23	2.45	0.51
1:L:125:VAL:HG13	1:L:182:SER:HB3	1.92	0.51
2:H:48:ILE:O	2:H:60:ALA:N	2.40	0.51
2:H:48:ILE:HG13	2:H:49:ALA:N	2.26	0.51
1:L:28:TYR:HD1	1:L:93:SER:HG	1.58	0.50
1:L:13:ALA:HB3	1:L:78:LEU:CD2	2.42	0.50
1:L:93:SER:CB	1:L:94:PRO:CD	2.89	0.50
1:L:27(B):VAL:HA	1:L:92:PHE:CD1	2.47	0.50
2:H:115:GLN:HG3	4:H:309:HOH:O	2.11	0.49
2:H:48:ILE:HG13	2:H:49:ALA:H	1.77	0.49
2:H:39:GLN:C	2:H:88:ALA:HB1	2.33	0.49
1:L:139:TYR:HD2	1:L:140:PHE:O	1.95	0.49
1:L:50:ALA:O	1:L:51:ALA:HB3	2.12	0.48
2:H:38:ARG:NH1	2:H:86:ASP:HA	2.28	0.48
2:H:108:LEU:HD13	2:H:149:PRO:HD3	1.95	0.48
2:H:100(A):VAL:HG13	2:H:100(D):TYR:CE2	2.48	0.48
2:H:19:LYS:HB2	2:H:81:GLN:OE1	2.13	0.48
1:L:92:PHE:O	1:L:93:SER:HB2	2.14	0.47
2:H:145:TYR:HE1	2:H:148:GLU:HA	1.79	0.47
1:L:107:ASP:HA	1:L:140:PHE:HZ	1.75	0.47
1:L:27(A):SER:HA	1:L:69:THR:HG22	1.97	0.47
1:L:145:VAL:HG22	1:L:195:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:14:ALA:HA	1:L:107:ASP:HB2	1.96	0.47
1:L:66:GLY:O	1:L:67:SER:OG	2.26	0.47
1:L:27(B):VAL:HG12	1:L:92:PHE:CE1	2.50	0.46
1:L:33:LEU:HG	1:L:71:PHE:CE2	2.50	0.46
2:H:143:LYS:O	4:H:302:HOH:O	2.20	0.46
2:H:148:GLU:O	2:H:149:PRO:C	2.53	0.46
1:L:158:ILE:HG12	1:L:178:LEU:HD13	1.97	0.46
1:L:166:ASN:HB3	1:L:169:ASP:OD1	2.16	0.46
2:H:12:VAL:CG1	2:H:111:VAL:HG22	2.46	0.46
2:H:51:ILE:HB	2:H:69:VAL:HG21	1.97	0.46
2:H:6:GLU:HA	2:H:21:SER:O	2.16	0.45
2:H:59:TYR:OH	2:H:69:VAL:HG12	2.17	0.45
2:H:93:ALA:CB	2:H:100(F):PHE:HB3	2.47	0.45
2:H:100(A):VAL:HG13	2:H:100(D):TYR:CD2	2.52	0.45
1:L:185:TYR:O	1:L:191:TYR:OH	2.32	0.45
2:H:192:THR:HG23	2:H:207:THR:CA	2.47	0.45
1:L:117:ILE:HD13	1:L:206:PHE:HD2	1.82	0.45
2:H:72:ASP:HB3	2:H:79:PHE:CE2	2.46	0.44
2:H:153:THR:OG1	2:H:194:ASN:HB2	2.17	0.44
1:L:50:ALA:HB3	1:L:53:ASN:OD1	2.17	0.44
1:L:132:ILE:O	1:L:177:THR:HA	2.17	0.44
2:H:29:PHE:HE1	2:H:94:ARG:HD2	1.82	0.44
1:L:45:LYS:NZ	4:L:309:HOH:O	2.48	0.44
1:L:38:GLN:O	1:L:84:ALA:HB1	2.17	0.44
1:L:169:ASP:O	1:L:170:CYS:HB2	2.17	0.43
2:H:2:GLN:N	2:H:26:GLY:HA3	2.33	0.43
2:H:119:PRO:HB3	2:H:145:TYR:HB3	2.00	0.43
1:L:3:VAL:O	1:L:26:SER:N	2.45	0.43
2:H:67:PHE:CD1	2:H:82:MET:HA	2.53	0.43
2:H:178:LEU:C	2:H:178:LEU:HD12	2.39	0.42
2:H:148:GLU:O	2:H:150:VAL:N	2.53	0.42
2:H:146:LEU:O	2:H:147:PRO:C	2.57	0.42
1:L:58:VAL:HG13	1:L:59:PRO:HD2	2.00	0.42
3:P:174:ALA:O	3:P:178:LYS:N	2.53	0.42
1:L:2:GLN:HG2	1:L:92:PHE:CD2	2.54	0.42
2:H:6:GLU:OE1	2:H:6:GLU:N	2.53	0.42
2:H:93:ALA:HA	2:H:102:LEU:O	2.20	0.42
2:H:59:TYR:CZ	2:H:69:VAL:HG12	2.55	0.41
2:H:27:ILE:C	2:H:27:ILE:HD12	2.40	0.41
2:H:3:GLU:O	2:H:4:LEU:HD23	2.21	0.41
2:H:64:GLU:HA	2:H:64:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:76:ASN:N	2:H:76:ASN:HD22	2.19	0.41
1:L:47:LEU:HD21	1:L:62:PHE:CE1	2.55	0.41
1:L:5:THR:N	1:L:24:GLN:O	2.54	0.41
1:L:61:ARG:HD2	1:L:77:ASP:O	2.21	0.41
1:L:49:TYR:O	1:L:53:ASN:HB2	2.20	0.40
2:H:94:ARG:HH11	2:H:97:VAL:HG22	1.86	0.40
1:L:120:PRO:HG3	1:L:130:VAL:HG21	2.03	0.40
1:L:29:SER:HG	1:L:32:TRP:HD1	1.69	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	L	210/213 (99%)	194 (92%)	11 (5%)	5 (2%)	6	6
2	H	220/225 (98%)	196 (89%)	19 (9%)	5 (2%)	6	7
3	P	12/15 (80%)	9 (75%)	3 (25%)	0	100	100
All	All	442/453 (98%)	399 (90%)	33 (8%)	10 (2%)	6	7

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	L	93	SER
1	L	140	PHE
2	H	147	PRO
2	H	149	PRO
2	H	76	ASN
1	L	138	LYS
1	L	141	PRO
1	L	142	ASP
2	H	132	PRO

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Mol	Chain	Res	Type
2	H	133	SER

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	L	175/175 (100%)	173 (99%)	2 (1%)	73	87
2	H	183/186 (98%)	179 (98%)	4 (2%)	52	71
3	P	13/14 (93%)	13 (100%)	0	100	100
All	All	371/375 (99%)	365 (98%)	6 (2%)	62	79

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	207	ASN
1	L	211	CYS
2	H	51	ILE
2	H	75	GLN
2	H	76	ASN
2	H	192	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	2	GLN
2	H	76	ASN

5.3.3 RNA ⓘ

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 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

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	L	212/213 (99%)	0.34	5 (2%) 59 57	33, 48, 74, 82	0
2	H	222/225 (98%)	0.76	19 (8%) 10 9	37, 59, 85, 94	0
3	P	14/15 (93%)	0.98	1 (7%) 16 14	64, 71, 81, 83	0
All	All	448/453 (98%)	0.57	25 (5%) 24 23	33, 55, 79, 94	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	75	GLN	9.2
2	H	131	THR	5.9
2	H	213	CYS	5.2
2	H	188	SER	4.2
2	H	65	GLY	3.7
1	L	183	THR	3.4
1	L	93	SER	3.3
2	H	190	PRO	3.3
2	H	147	PRO	3.0
1	L	130	VAL	2.9
2	H	74	ALA	2.8
2	H	72	ASP	2.7
2	H	96	GLY	2.6
2	H	54	LEU	2.5
2	H	130	ASP	2.4
2	H	146	LEU	2.3
2	H	148	GLU	2.3
3	P	179	LEU	2.3
2	H	27	ILE	2.3
2	H	129	GLY	2.2
2	H	185	THR	2.2
2	H	2	GLN	2.1
1	L	122	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
2	H	132	PRO	2.1
1	L	129	THR	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.