



Full wwPDB X-ray Structure Validation Report ⓘ

May 4, 2019 – 01:34 AM EDT

PDB ID : 1E7D
Title : Endonuclease VII (ENDOVII) Ffrom Phage T4
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Deposited on : 2000-08-28
Resolution : 2.80 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 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 : rb-20031633
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20031633

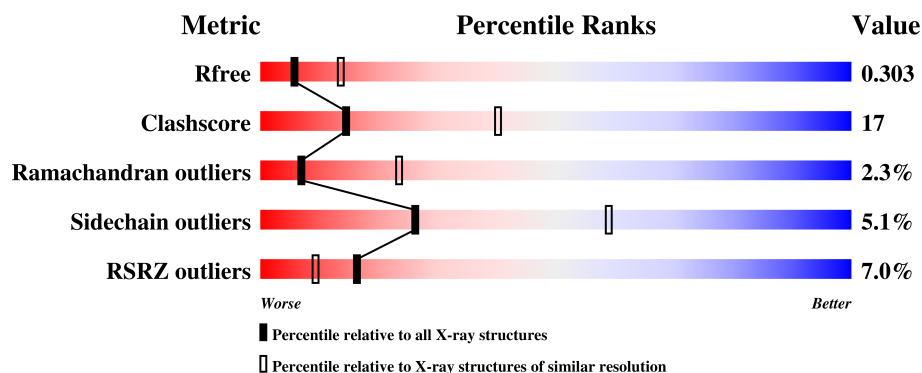
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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}	111664	2792 (2.80-2.80)
Clashscore	122126	3209 (2.80-2.80)
Ramachandran outliers	120053	3158 (2.80-2.80)
Sidechain outliers	120020	3160 (2.80-2.80)
RSRZ outliers	108989	2726 (2.80-2.80)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	157	<div> <div>2%</div> <div>58%</div> <div>35%</div> <div>6%</div> </div>
1	B	157	<div> <div>12%</div> <div>62%</div> <div>31%</div> <div>6%</div> </div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 2581 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 RECOMBINATION ENDONUCLEASE VII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	157	Total	C	N	O	S	11	0	0
			1272	796	227	240	9			
1	B	157	Total	C	N	O	S	12	0	0
			1272	796	227	240	9			

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Zn	0	0
			1	1		
2	A	1	Total	Zn	0	0
			1	1		

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Ca	0	0
			1	1		
3	A	1	Total	Ca	0	0
			1	1		

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	2	Total	Cl	0	0
			2	2		
4	A	1	Total	Cl	0	0
			1	1		

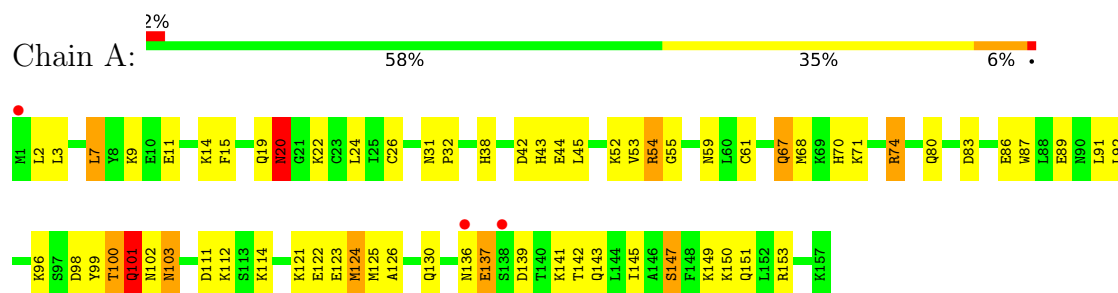
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	16	Total 16	O 16	0	0
5	B	14	Total 14	O 14	0	0

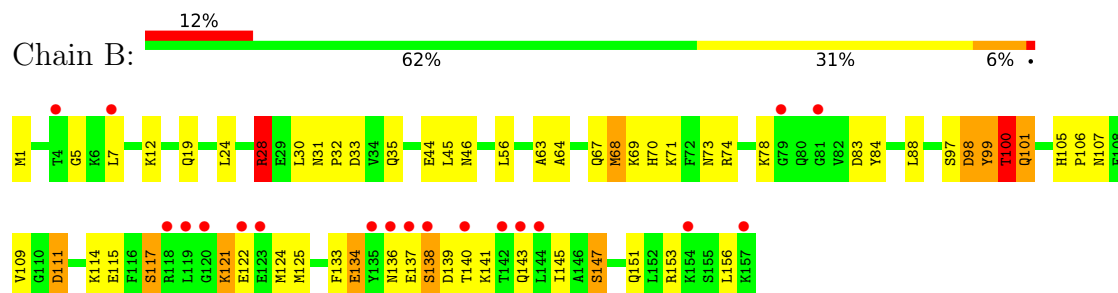
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: RECOMBINATION ENDONUCLEASE VII



• Molecule 1: RECOMBINATION ENDONUCLEASE VII



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.90Å 37.40Å 74.00Å 90.00° 108.20° 90.00°	Depositor
Resolution (Å)	10.00 – 2.80 27.02 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.8 (10.00-2.80) 99.8 (27.02-2.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.81 (at 2.80Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.245 , 0.315 0.231 , 0.303	Depositor DCC
R_{free} test set	413 reflections (5.12%)	wwPDB-VP
Wilson B-factor (Å ²)	30.2	Xtriage
Anisotropy	0.073	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 60.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	2581	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.27% 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: ZN, CA, 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	0.87	4/1293 (0.3%)	1.41	12/1725 (0.7%)
1	B	0.77	0/1293	1.24	14/1725 (0.8%)
All	All	0.82	4/2586 (0.2%)	1.33	26/3450 (0.8%)

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	A	0	6
1	B	0	3
All	All	0	9

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	150	LYS	CD-CE	-9.82	1.26	1.51
1	A	7	LEU	CB-CG	9.17	1.79	1.52
1	A	54	ARG	CD-NE	-7.37	1.33	1.46
1	A	9	LYS	CG-CD	-5.58	1.33	1.52

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	54	ARG	CD-NE-CZ	31.06	167.09	123.60
1	A	124	MET	CA-CB-CG	10.66	131.43	113.30
1	B	28	ARG	NE-CZ-NH1	-9.04	115.78	120.30
1	B	121	LYS	CB-CG-CD	-8.99	88.21	111.60
1	A	54	ARG	CG-CD-NE	8.97	130.63	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	54	ARG	NE-CZ-NH2	8.21	124.40	120.30
1	B	28	ARG	NE-CZ-NH2	7.72	124.16	120.30
1	A	42	ASP	CB-CG-OD1	7.49	125.05	118.30
1	B	98	ASP	CA-C-N	7.48	133.66	117.20
1	B	74	ARG	CD-NE-CZ	7.22	133.71	123.60
1	A	80	GLN	CA-CB-CG	7.16	129.15	113.40
1	B	98	ASP	O-C-N	-6.49	112.32	122.70
1	B	134	GLU	CA-CB-CG	6.28	127.22	113.40
1	A	150	LYS	CD-CE-NZ	6.14	125.82	111.70
1	A	9	LYS	CB-CG-CD	5.83	126.76	111.60
1	B	98	ASP	CB-CG-OD2	5.66	123.40	118.30
1	B	100	THR	C-N-CA	5.55	135.58	121.70
1	A	9	LYS	CG-CD-CE	-5.48	95.45	111.90
1	B	134	GLU	CB-CG-CD	5.45	128.91	114.20
1	A	20	ASN	CA-CB-CG	5.42	125.33	113.40
1	B	68	MET	CA-CB-CG	5.41	122.49	113.30
1	B	74	ARG	NE-CZ-NH1	5.14	122.87	120.30
1	B	133	PHE	CA-C-N	5.12	128.45	117.20
1	A	42	ASP	CA-CB-CG	5.05	124.51	113.40
1	B	68	MET	CG-SD-CE	5.03	108.25	100.20
1	A	89	GLU	CA-CB-CG	5.02	124.44	113.40

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	100	THR	Mainchain
1	A	101	GLN	Mainchain
1	A	124	MET	Mainchain
1	A	137	GLU	Mainchain
1	A	147	SER	Mainchain
1	A	20	ASN	Mainchain
1	B	28	ARG	Mainchain
1	B	44	GLU	Mainchain
1	B	97	SER	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	1272	0	1265	45	0
1	B	1272	0	1265	54	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	1	0	0	1	0
4	B	2	0	0	1	0
5	A	16	0	0	0	0
5	B	14	0	0	1	0
All	All	2581	0	2530	83	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 17.

All (83) 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:B:19:GLN:HG2	1:B:24:LEU:HD21	1.51	0.93
1:A:3:LEU:HB2	1:B:106:PRO:HD3	1.69	0.74
1:B:139:ASP:HA	1:B:143:GLN:OE1	1.87	0.74
1:A:71:LYS:HG3	1:B:67:GLN:HB3	1.68	0.74
1:B:137:GLU:O	1:B:139:ASP:N	2.23	0.72
1:B:30:LEU:HD13	1:B:56:LEU:HD23	1.71	0.72
1:A:102:ASN:O	1:A:103:ASN:HB2	1.89	0.71
1:B:147:SER:O	1:B:151:GLN:HG2	1.90	0.71
1:A:67:GLN:NE2	1:A:67:GLN:HA	2.07	0.69
1:B:109:VAL:HG21	1:B:153:ARG:HG2	1.72	0.69
1:B:33:ASP:OD1	5:B:2005:HOH:O	2.15	0.64
1:A:70:HIS:O	1:A:74:ARG:HG2	1.97	0.64
1:A:52:LYS:NZ	1:B:100:THR:O	2.30	0.64
1:A:100:THR:O	1:A:101:GLN:HB2	1.98	0.62
1:B:137:GLU:C	1:B:139:ASP:H	2.04	0.60
1:A:67:GLN:HB3	1:B:71:LYS:HG3	1.82	0.60
1:B:137:GLU:C	1:B:139:ASP:N	2.55	0.60
1:A:2:LEU:HD22	1:B:156:LEU:HB2	1.85	0.58
1:A:20:ASN:O	1:A:22:LYS:HG2	2.03	0.58
1:A:19:GLN:HG2	1:A:24:LEU:HD13	1.84	0.58
1:A:111:ASP:HB3	1:B:45:LEU:HD21	1.85	0.58
1:A:130:GLN:HA	1:A:130:GLN:HE21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:LEU:HD13	1:B:88:LEU:HB3	1.87	0.56
1:A:136:ASN:HB2	1:A:139:ASP:OD1	2.06	0.56
1:B:69:LYS:HD3	1:B:84:TYR:CE2	2.41	0.56
1:A:122:GLU:OE2	1:A:123:GLU:HG3	2.07	0.53
1:A:99:TYR:O	1:A:102:ASN:HB2	2.09	0.53
1:B:117:SER:HB3	1:B:145:ILE:HD13	1.91	0.52
1:A:45:LEU:HD13	1:B:115:GLU:HB2	1.91	0.52
1:B:136:ASN:O	1:B:139:ASP:CG	2.47	0.52
1:B:12:LYS:NZ	4:B:1161:CL:CL	2.80	0.51
1:A:125:MET:HE3	1:A:137:GLU:HA	1.93	0.51
1:A:126:ALA:O	1:A:130:GLN:HG2	2.10	0.51
1:A:3:LEU:O	1:B:106:PRO:HG3	2.11	0.50
1:B:63:ALA:O	1:B:67:GLN:HG2	2.12	0.50
1:A:141:LYS:O	1:A:145:ILE:HG13	2.12	0.49
1:A:71:LYS:HE2	1:B:71:LYS:HE2	1.94	0.49
1:A:83:ASP:OD2	1:A:86:GLU:HB2	2.13	0.48
1:A:68:MET:HG2	1:B:68:MET:SD	2.53	0.48
1:A:31:ASN:OD1	1:A:32:PRO:HD2	2.12	0.48
1:B:12:LYS:HD3	1:B:35:GLN:OE1	2.13	0.48
1:B:69:LYS:HZ3	1:B:78:LYS:NZ	2.11	0.48
1:A:114:LYS:HD3	1:A:114:LYS:HA	1.76	0.47
1:A:15:PHE:CD2	1:A:55:GLY:HA2	2.49	0.47
1:B:121:LYS:O	1:B:125:MET:HG3	2.15	0.47
1:B:139:ASP:HB3	1:B:143:GLN:HB2	1.95	0.47
1:A:149:LYS:HE3	1:A:153:ARG:NH2	2.29	0.47
1:A:38:HIS:HA	4:A:1160:CL:CL	2.52	0.46
1:B:124:MET:CE	1:B:141:LYS:HG3	2.46	0.46
1:A:103:ASN:OD1	1:B:1:MET:N	2.46	0.46
1:A:3:LEU:HD11	1:A:53:VAL:HG21	1.97	0.46
1:B:122:GLU:HA	1:B:125:MET:HE2	1.98	0.46
1:A:130:GLN:HA	1:A:130:GLN:NE2	2.32	0.45
1:A:139:ASP:HA	1:A:143:GLN:NE2	2.31	0.45
1:B:101:GLN:HG3	1:B:101:GLN:H	1.15	0.45
1:B:117:SER:HB3	1:B:145:ILE:CD1	2.46	0.45
1:A:15:PHE:CE2	1:A:55:GLY:HA2	2.51	0.45
1:A:112:LYS:NZ	1:B:46:ASN:OD1	2.50	0.45
1:B:69:LYS:NZ	1:B:78:LYS:HZ1	2.15	0.45
1:B:69:LYS:NZ	1:B:78:LYS:NZ	2.65	0.44
1:B:98:ASP:O	1:B:100:THR:N	2.50	0.44
1:A:147:SER:OG	1:A:151:GLN:NE2	2.50	0.44
1:B:122:GLU:HA	1:B:125:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:VAL:HG11	1:B:153:ARG:HE	1.83	0.44
1:B:31:ASN:HA	1:B:32:PRO:HD2	1.76	0.44
1:A:11:GLU:OE1	1:A:14:LYS:HE3	2.18	0.43
1:A:71:LYS:HG3	1:B:67:GLN:CB	2.44	0.43
1:A:87:TRP:CZ3	1:A:91:LEU:HD22	2.53	0.43
1:B:109:VAL:HG11	1:B:153:ARG:HG3	2.01	0.43
1:B:1:MET:CE	1:B:7:LEU:HD22	2.49	0.42
1:B:114:LYS:HA	1:B:117:SER:OG	2.20	0.42
1:A:92:LEU:HG	1:A:96:LYS:HE2	2.01	0.42
1:B:137:GLU:O	1:B:138:SER:C	2.56	0.42
1:B:140:THR:O	1:B:141:LYS:C	2.58	0.42
1:A:54:ARG:HD3	1:B:99:TYR:CZ	2.55	0.41
1:A:26:CYS:HB3	1:A:61:CYS:SG	2.60	0.41
1:B:105:HIS:HA	1:B:106:PRO:HD3	1.90	0.41
1:B:64:ALA:O	1:B:68:MET:HG2	2.20	0.41
1:B:70:HIS:O	1:B:73:ASN:HB2	2.20	0.41
1:A:71:LYS:HE2	1:B:71:LYS:CE	2.51	0.41
1:A:38:HIS:CD2	1:A:59:ASN:HA	2.56	0.41
1:B:140:THR:H	1:B:143:GLN:HG3	1.85	0.41
1:B:107:ASN:O	1:B:111:ASP:OD1	2.39	0.41

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	155/157 (99%)	148 (96%)	4 (3%)	3 (2%)	9	28
1	B	155/157 (99%)	142 (92%)	9 (6%)	4 (3%)	6	20
All	All	310/314 (99%)	290 (94%)	13 (4%)	7 (2%)	7	23

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	99	TYR
1	B	138	SER
1	B	5	GLY
1	B	134	GLU
1	A	101	GLN
1	A	44	GLU
1	A	103	ASN

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	138/138 (100%)	131 (95%)	7 (5%)	26	59
1	B	138/138 (100%)	131 (95%)	7 (5%)	26	59
All	All	276/276 (100%)	262 (95%)	14 (5%)	26	59

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	LEU
1	A	43	HIS
1	A	67	GLN
1	A	74	ARG
1	A	98	ASP
1	A	121	LYS
1	A	142	THR
1	B	28	ARG
1	B	83	ASP
1	B	100	THR
1	B	101	GLN
1	B	111	ASP
1	B	117	SER
1	B	147	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	90	ASN
1	A	130	GLN
1	A	151	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 7 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	157/157 (100%)	0.09	3 (1%) 66 59	11, 28, 78, 80	4 (2%)
1	B	157/157 (100%)	0.40	19 (12%) 4 2	11, 30, 80, 80	18 (11%)
All	All	314/314 (100%)	0.24	22 (7%) 16 9	11, 30, 80, 80	22 (7%)

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	138	SER	7.0
1	B	135	TYR	4.4
1	B	142	THR	4.3
1	B	137	GLU	4.0
1	B	119	LEU	3.8
1	B	138	SER	3.5
1	B	157	LYS	3.5
1	B	4	THR	3.3
1	B	79	GLY	2.9
1	B	144	LEU	2.8
1	B	136	ASN	2.8
1	B	140	THR	2.7
1	B	123	GLU	2.6
1	A	1	MET	2.6
1	B	143	GLN	2.6
1	B	81	GLY	2.6
1	B	7	LEU	2.5
1	B	120	GLY	2.4
1	B	122	GLU	2.3
1	B	118	ARG	2.2
1	A	136	ASN	2.0
1	B	154	LYS	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 carbohydrates 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(\AA^2)	Q<0.9
4	CL	A	1160	1/1	0.81	0.13	37,37,37,37	0
3	CA	A	1159	1/1	0.87	0.12	30,30,30,30	0
4	CL	B	1160	1/1	0.91	0.20	34,34,34,34	0
3	CA	B	1159	1/1	0.95	0.24	29,29,29,29	0
4	CL	B	1161	1/1	0.97	0.17	45,45,45,45	0
2	ZN	A	1158	1/1	0.98	0.04	23,23,23,23	0
2	ZN	B	1158	1/1	0.99	0.05	21,21,21,21	0

6.5 Other polymers [i](#)

There are no such residues in this entry.