



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 12, 2024 – 09:04 PM EDT

PDB ID : 1DLE
Title : FACTOR B SERINE PROTEASE DOMAIN
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Deposited on : 1999-12-09
Resolution : 2.10 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 : 2.36.2
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) : 2.36.2

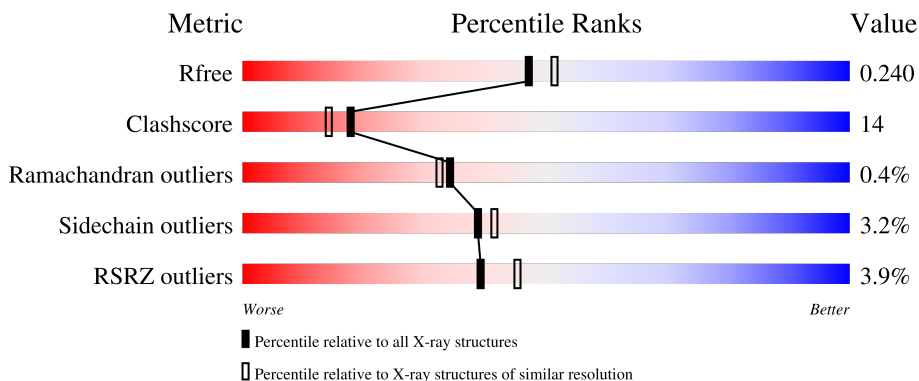
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	298	 5% 66% 27% • •
1	B	298	 2% 74% 19% • 5%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 5022 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 COMPLEMENT FACTOR B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	288	Total	C	N	O	S	0	0	0
			2268	1439	390	427	12			
1	B	282	Total	C	N	O	S	0	0	0
			2237	1424	388	413	12			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1K	ALA	-	insertion	UNP P00751
A	1J	ASP	-	insertion	UNP P00751
A	1I	PRO	-	insertion	UNP P00751
B	1K	ALA	-	insertion	UNP P00751
B	1J	ASP	-	insertion	UNP P00751
B	1I	PRO	-	insertion	UNP P00751

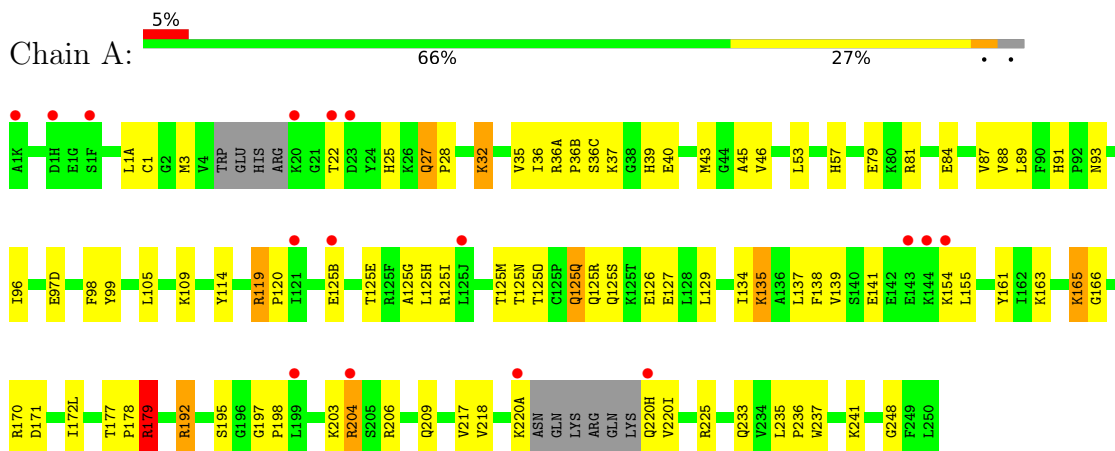
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	221	Total	O	0	0
			221	221		
2	B	296	Total	O	0	0
			296	296		

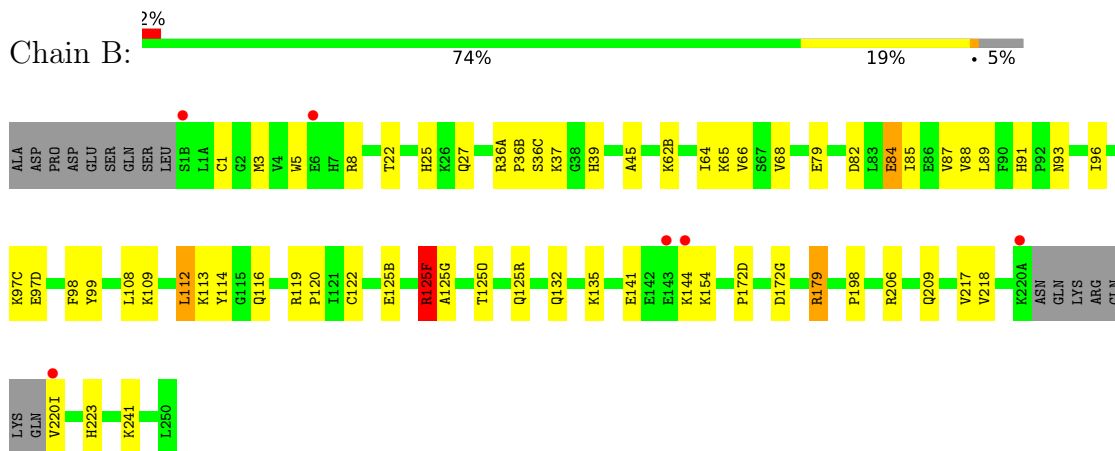
3 Residue-property plots i

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: COMPLEMENT FACTOR B



• Molecule 1: COMPLEMENT FACTOR B



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	51.64Å 74.26Å 73.26Å 90.00° 95.55° 90.00°	Depositor
Resolution (Å)	20.00 – 2.10 24.30 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.0 (20.00-2.10) 99.6 (24.30-2.10)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.88 (at 2.10Å)	Xtrriage
Refinement program	CNS, XTALVIEW	Depositor
R, R_{free}	0.209 , 0.249 0.206 , 0.240	Depositor DCC
R_{free} test set	3214 reflections (10.00%)	wwPDB-VP
Wilson B-factor (Å ²)	23.3	Xtrriage
Anisotropy	0.792	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 49.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5022	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.29% 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](#)

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	0.49	0/2316	0.72	2/3128 (0.1%)
1	B	0.56	0/2288	0.82	5/3091 (0.2%)
All	All	0.53	0/4604	0.77	7/6219 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	125(F)	ARG	NE-CZ-NH2	8.12	124.36	120.30
1	A	119	ARG	NE-CZ-NH2	7.51	124.06	120.30
1	B	8	ARG	NE-CZ-NH2	7.43	124.01	120.30
1	A	179	ARG	NE-CZ-NH2	7.36	123.98	120.30
1	B	179	ARG	NE-CZ-NH2	7.33	123.97	120.30
1	B	119	ARG	NE-CZ-NH2	7.32	123.96	120.30
1	B	3	MET	CG-SD-CE	5.84	109.55	100.20

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	2268	0	2262	75	0
1	B	2237	0	2236	52	0
2	A	221	0	0	9	0
2	B	296	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	5022	0	4498	122	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 14.

All (122) 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:45:ALA:HB2	1:B:198:PRO:HG3	1.41	1.01
1:A:84:GLU:HG2	1:A:109:LYS:HD2	1.54	0.90
1:A:135:LYS:HE2	1:A:161:TYR:OH	1.81	0.81
1:A:127:GLU:OE2	1:A:203:LYS:HE2	1.85	0.76
1:B:217:VAL:HG12	1:B:218:VAL:HG13	1.68	0.74
1:A:36:ILE:HD12	1:B:172(D):PRO:HB3	1.70	0.74
1:B:125(G):ALA:HA	1:B:206:ARG:NH1	2.06	0.69
1:A:1:CYS:HB3	2:A:550:HOH:O	1.93	0.68
1:A:84:GLU:HG2	1:A:109:LYS:CD	2.25	0.67
1:A:91:HIS:HD2	1:A:93:ASN:H	1.42	0.66
1:B:22:THR:H	1:B:25:HIS:HD2	1.42	0.66
1:A:125(G):ALA:HB2	1:A:206:ARG:NH1	2.10	0.66
1:B:91:HIS:HD2	1:B:93:ASN:H	1.43	0.66
1:B:125(O):THR:H	1:B:125(R):GLN:HE21	1.43	0.66
1:B:91:HIS:CD2	1:B:93:ASN:H	2.14	0.66
1:B:125(B):GLU:O	1:B:125(F):ARG:CG	2.45	0.65
1:A:197:GLY:HA3	2:A:344:HOH:O	1.95	0.64
1:A:217:VAL:HG12	1:A:218:VAL:HG13	1.79	0.64
1:B:125(B):GLU:O	1:B:125(F):ARG:HG3	1.97	0.63
1:A:84:GLU:CG	1:A:109:LYS:HD2	2.29	0.63
1:B:22:THR:H	1:B:25:HIS:CD2	2.19	0.61
1:A:99:TYR:CE1	1:B:36(B):PRO:HB2	2.36	0.61
1:A:125(G):ALA:HB1	1:A:206:ARG:HG3	1.83	0.59
1:B:36(A):ARG:H	1:B:39:HIS:HD2	1.51	0.58
1:A:129:LEU:HA	1:A:134:ILE:HD13	1.84	0.58
1:A:125(N):THR:HA	1:A:125(R):GLN:OE1	2.03	0.58
1:A:125(O):THR:OG1	1:A:125(R):GLN:HG3	2.04	0.58
1:A:165:LYS:NZ	2:A:742:HOH:O	2.36	0.57
1:A:220(H):GLN:N	1:A:220(H):GLN:CD	2.58	0.57
1:A:125(Q):GLN:HE22	1:A:126:GLU:HG3	1.71	0.56
1:A:125(E):THR:HG22	1:A:125(S):GLN:HE21	1.71	0.56
1:B:132:GLN:HB2	2:B:589:HOH:O	2.07	0.55
1:B:96:ILE:HA	1:B:98:PHE:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:ARG:HB2	2:A:757:HOH:O	2.05	0.55
1:A:36:ILE:CD1	1:B:172(D):PRO:HB3	2.35	0.55
1:B:144:LYS:HD3	2:B:706:HOH:O	2.07	0.54
1:B:62(B):LYS:HA	1:B:64:ILE:HD12	1.89	0.54
1:B:125(O):THR:OG1	1:B:125(R):GLN:HG3	2.07	0.54
1:B:36(C):SER:O	1:B:37:LYS:HB2	2.07	0.54
1:B:113:LYS:HB2	1:B:113:LYS:NZ	2.24	0.53
1:A:89:LEU:HD13	1:A:241:LYS:HD2	1.90	0.53
1:B:97(C):LYS:HE2	2:B:668:HOH:O	2.09	0.53
1:A:137:LEU:C	1:A:137:LEU:HD12	2.29	0.52
1:A:91:HIS:CD2	1:A:93:ASN:H	2.27	0.52
1:A:235:LEU:N	1:A:236:PRO:CD	2.73	0.52
1:B:125(B):GLU:O	1:B:125(F):ARG:HG2	2.09	0.51
1:A:22:THR:OG1	1:A:25:HIS:HD2	1.93	0.51
1:B:5:TRP:HE1	1:B:116:GLN:NE2	2.07	0.51
1:A:97(D):GLU:HB3	2:A:379:HOH:O	2.10	0.51
1:B:36(A):ARG:H	1:B:39:HIS:CD2	2.27	0.51
1:B:114:TYR:CZ	1:B:120:PRO:HD3	2.46	0.51
1:A:125(M):THR:HA	2:A:577:HOH:O	2.09	0.51
1:A:220(A):LYS:HB2	1:A:220(A):LYS:NZ	2.27	0.50
1:A:36(A):ARG:H	1:A:39:HIS:HD2	1.60	0.50
1:A:53:LEU:HD23	1:A:209:GLN:HE22	1.77	0.49
1:A:135:LYS:HE2	1:A:161:TYR:CZ	2.47	0.48
1:A:248:GLY:N	2:A:618:HOH:O	2.46	0.48
1:B:1:CYS:O	1:B:122:CYS:SG	2.72	0.47
1:A:36(B):PRO:HB2	1:B:99:TYR:CE1	2.48	0.47
1:A:114:TYR:CZ	1:A:120:PRO:HD3	2.49	0.47
1:A:27:GLN:N	1:A:28:PRO:HD3	2.29	0.47
1:A:1(A):LEU:HD21	1:A:206:ARG:HH21	1.79	0.47
1:A:79:GLU:CD	1:A:81:ARG:HH21	2.18	0.47
1:B:108:LEU:CD1	1:B:112:LEU:HD13	2.44	0.47
1:A:43:MET:HE1	1:A:139:VAL:O	2.15	0.47
1:B:84:GLU:OE2	1:B:109:LYS:HD2	2.16	0.46
1:B:89:LEU:HD13	1:B:241:LYS:HD2	1.97	0.46
1:A:32:LYS:HD3	2:A:815:HOH:O	2.15	0.46
1:A:53:LEU:HD23	1:A:209:GLN:NE2	2.31	0.46
1:A:43:MET:HE3	2:A:344:HOH:O	2.15	0.46
1:B:79:GLU:HG3	2:B:359:HOH:O	2.15	0.45
1:B:66:VAL:CG2	1:B:85:ILE:HD11	2.47	0.45
1:B:68:VAL:O	1:B:79:GLU:HB2	2.16	0.45
1:A:45:ALA:HB2	1:A:198:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220(I):VAL:O	1:B:223:HIS:HB2	2.16	0.45
1:A:96:ILE:HA	1:A:98:PHE:O	2.17	0.45
1:A:163:LYS:N	1:A:163:LYS:HD2	2.32	0.45
1:A:129:LEU:HA	1:A:134:ILE:CD1	2.47	0.45
1:B:108:LEU:HD13	1:B:112:LEU:HD13	1.98	0.45
1:A:36(C):SER:O	1:A:37:LYS:HB2	2.17	0.44
1:A:172(L):ILE:HD13	1:A:172(L):ILE:HA	1.87	0.44
1:B:125(O):THR:N	1:B:125(R):GLN:HE21	2.13	0.44
1:B:198:PRO:HB3	1:B:209:GLN:CD	2.38	0.44
1:A:154:LYS:HG2	1:A:155:LEU:N	2.31	0.44
1:A:87:VAL:HG22	1:A:88:VAL:N	2.32	0.44
1:A:220(H):GLN:HB2	1:A:220(I):VAL:H	1.61	0.44
1:B:141:GLU:HA	1:B:154:LYS:O	2.17	0.44
1:B:1:CYS:C	1:B:122:CYS:SG	2.96	0.44
1:A:137:LEU:HD12	1:A:138:PHE:N	2.33	0.44
1:A:171:ASP:HB2	1:A:225:ARG:HG3	2.00	0.44
1:A:28:PRO:HB2	1:A:119:ARG:HB3	2.00	0.43
1:A:125(H):LEU:O	1:A:125(I):ARG:HB2	2.17	0.43
1:A:125(Q):GLN:NE2	1:A:126:GLU:HG3	2.32	0.43
1:B:125(G):ALA:HA	1:B:206:ARG:HH12	1.84	0.43
1:A:27:GLN:HG2	1:A:139:VAL:HG21	2.00	0.43
1:B:97(D):GLU:OE2	1:B:97(D):GLU:HA	2.19	0.43
1:A:46:VAL:O	1:A:120:PRO:HA	2.19	0.43
1:A:32:LYS:HZ3	1:A:32:LYS:HB2	1.83	0.42
1:A:105:LEU:HG	1:A:237:TRP:CH2	2.54	0.42
1:A:135:LYS:HB2	1:A:135:LYS:HE3	1.58	0.42
1:B:22:THR:N	1:B:25:HIS:HD2	2.13	0.42
1:B:114:TYR:CE2	1:B:120:PRO:HD3	2.54	0.42
1:B:87:VAL:HG22	1:B:88:VAL:N	2.34	0.42
1:A:35:VAL:HB	1:A:40:GLU:HB2	2.01	0.42
1:A:125(G):ALA:CB	1:A:206:ARG:HG3	2.49	0.42
1:A:192:ARG:NH2	1:B:39:HIS:O	2.53	0.42
1:A:141:GLU:HB2	1:A:155:LEU:HD23	2.02	0.42
1:B:66:VAL:HG21	1:B:85:ILE:HD11	2.02	0.42
1:A:57:HIS:CE1	1:A:195:SER:HG	2.38	0.41
1:A:177:THR:O	1:A:179:ARG:N	2.53	0.41
1:B:65:LYS:HB3	1:B:82:ASP:OD2	2.20	0.41
1:A:179:ARG:HG3	1:A:233:GLN:HB3	2.02	0.41
1:B:36(A):ARG:HD3	1:B:36(C):SER:OG	2.20	0.41
1:B:125(O):THR:H	1:B:125(R):GLN:NE2	2.12	0.41
1:A:125(Q):GLN:C	1:A:125(Q):GLN:HE21	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1(A):LEU:O	1:A:119:ARG:HD3	2.21	0.41
1:A:166:GLY:O	1:A:170:ARG:HG3	2.21	0.41
1:B:206:ARG:HG3	1:B:206:ARG:HH11	1.86	0.41
1:A:1(A):LEU:HG	1:A:206:ARG:NH2	2.36	0.40
1:A:220(A):LYS:NZ	1:A:220(A):LYS:CB	2.84	0.40
1:B:62(B):LYS:HE3	2:B:764:HOH:O	2.21	0.40
1:A:114:TYR:CE2	1:A:120:PRO:HD3	2.57	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	282/298 (95%)	261 (93%)	19 (7%)	2 (1%)	22	18
1	B	278/298 (93%)	261 (94%)	17 (6%)	0	100	100
All	All	560/596 (94%)	522 (93%)	36 (6%)	2 (0%)	34	32

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	204	ARG
1	A	178	PRO

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	252/262 (96%)	243 (96%)	9 (4%)	35	36
1	B	247/262 (94%)	240 (97%)	7 (3%)	43	47
All	All	499/524 (95%)	483 (97%)	16 (3%)	39	41

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	MET
1	A	27	GLN
1	A	32	LYS
1	A	125(B)	GLU
1	A	125(Q)	GLN
1	A	135	LYS
1	A	165	LYS
1	A	179	ARG
1	A	192	ARG
1	B	27	GLN
1	B	84	GLU
1	B	112	LEU
1	B	125(F)	ARG
1	B	135	LYS
1	B	172(G)	ASP
1	B	179	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	25	HIS
1	A	27	GLN
1	A	39	HIS
1	A	91	HIS
1	A	125(Q)	GLN
1	A	243	GLN
1	B	25	HIS
1	B	39	HIS
1	B	91	HIS
1	B	97	ASN
1	B	116	GLN
1	B	125(R)	GLN
1	B	189	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 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 [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	288/298 (96%)	0.29	16 (5%) 24 29	16, 30, 49, 60	0
1	B	282/298 (94%)	-0.01	6 (2%) 63 68	12, 23, 38, 47	0
All	All	570/596 (95%)	0.14	22 (3%) 39 45	12, 26, 46, 60	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1(B)	SER	7.3
1	A	144	LYS	5.1
1	A	220(H)	GLN	4.3
1	A	204	ARG	4.0
1	B	220(A)	LYS	3.8
1	A	220(A)	LYS	3.4
1	A	22	THR	3.3
1	B	143	GLU	3.2
1	B	144	LYS	3.2
1	A	20	LYS	3.1
1	A	154	LYS	3.1
1	A	125(J)	LEU	2.8
1	A	1(F)	SER	2.8
1	A	1(K)	ALA	2.5
1	B	220(I)	VAL	2.5
1	A	143	GLU	2.5
1	A	121	ILE	2.2
1	A	1(H)	ASP	2.2
1	A	23	ASP	2.2
1	B	6	GLU	2.1
1	A	199	LEU	2.1
1	A	125(B)	GLU	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 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.