



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 05:12 PM EDT

PDB ID : 3GJT / pdb_00003gjt
Title : Caspase-3 Binds Diverse P4 Residues in Peptides
Authors : Fang, B.; Fu, G.; Agniswamy, J.; Harrison, R.W.; Weber, I.T.
Deposited on : 2009-03-09
Resolution : 2.20 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:

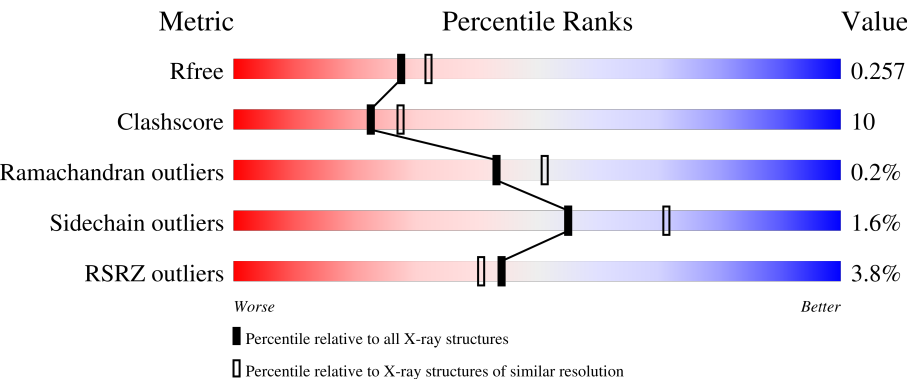
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	147	5% 68% 26% • •
1	C	147	5% 73% 20% • 5%
2	B	108	% 73% 9% • • 16%
2	D	108	% 65% 20% • 14%
3	E	5	60% 40%

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Mol	Chain	Length	Quality of chain
3	F	5	60% 40%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3987 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 Caspase-3 subunit p17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	141	Total	C	N	O	S	0	1	0
			1130	698	205	218	9			
1	C	140	Total	C	N	O	S	0	1	0
			1122	694	204	215	9			

- Molecule 2 is a protein called Caspase-3 subunit p12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	91	Total	C	N	O	S	0	0	0
			757	499	119	134	5			
2	D	93	Total	C	N	O	S	0	0	0
			777	511	125	136	5			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	278	HIS	-	expression tag	UNP P42574
B	279	HIS	-	expression tag	UNP P42574
B	280	HIS	-	expression tag	UNP P42574
B	281	HIS	-	expression tag	UNP P42574
B	282	HIS	-	expression tag	UNP P42574
B	283	HIS	-	expression tag	UNP P42574
D	278	HIS	-	expression tag	UNP P42574
D	279	HIS	-	expression tag	UNP P42574
D	280	HIS	-	expression tag	UNP P42574
D	281	HIS	-	expression tag	UNP P42574
D	282	HIS	-	expression tag	UNP P42574
D	283	HIS	-	expression tag	UNP P42574

- Molecule 3 is a protein called peptide inhibitor.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	E	5	Total	C	N	O	0	0	0
			35	22	4	9			
3	F	5	Total	C	N	O	0	0	0
			35	22	4	9			

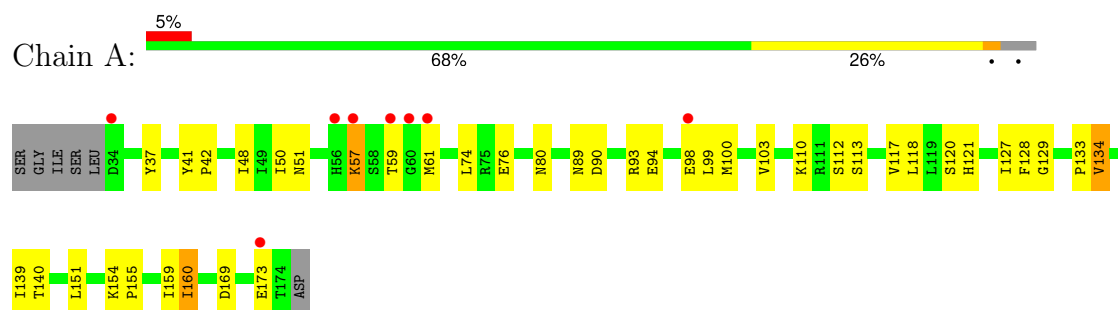
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	37	Total	O	0	0
			37	37		
4	B	25	Total	O	0	0
			25	25		
4	C	41	Total	O	0	0
			41	41		
4	D	24	Total	O	0	0
			24	24		
4	E	2	Total	O	0	0
			2	2		
4	F	2	Total	O	0	0
			2	2		

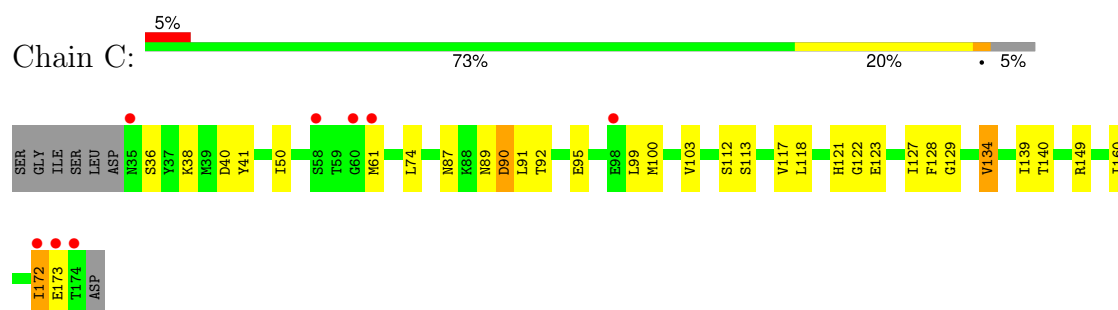
3 Residue-property plots [i](#)

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.

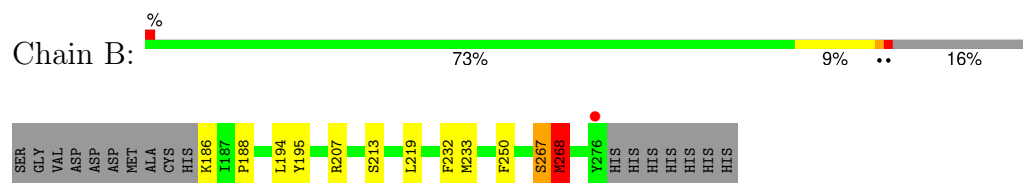
- Molecule 1: Caspase-3 subunit p17



- Molecule 1: Caspase-3 subunit p17



- Molecule 2: Caspase-3 subunit p12



Chain E:  60% 40%



- Molecule 3: peptide inhibitor

Chain F:  60% 40%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	68.19Å 88.34Å 96.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 2.20 10.00 – 2.20	Depositor EDS
% Data completeness (in resolution range)	(Not available) (10.00-2.20) 95.0 (10.00-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	8.35 (at 2.20Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.244 , 0.288 0.217 , 0.257	Depositor DCC
R_{free} test set	1488 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	22.2	Xtriage
Anisotropy	0.727	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.45 , 54.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3987	wwPDB-VP
Average B, all atoms (Å ²)	25.0	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 48.80 % 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 8.1717e-05. 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ACE

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	0.40	0/1146	0.83	4/1535 (0.3%)
1	C	0.43	0/1138	0.88	4/1524 (0.3%)
2	B	0.47	0/780	0.89	3/1053 (0.3%)
2	D	0.43	0/802	0.87	3/1083 (0.3%)
3	E	1.76	1/33 (3.0%)	1.10	0/45
3	F	1.56	1/33 (3.0%)	1.23	1/45 (2.2%)
All	All	0.48	2/3932 (0.1%)	0.87	15/5285 (0.3%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	5	ASP	C-O	9.90	1.43	1.23
3	F	10	ASP	C-O	8.58	1.40	1.23

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	267	SER	N-CA-C	6.41	119.39	109.07
2	B	267	SER	N-CA-C	6.28	118.65	108.41
1	C	129	GLY	N-CA-C	-6.26	103.00	112.89
1	A	160	ILE	N-CA-C	6.14	117.04	107.28
1	A	129	GLY	N-CA-C	-5.80	103.73	112.89
2	D	232	PHE	N-CA-C	5.80	118.07	111.11
1	A	113	SER	N-CA-C	5.76	115.84	108.24
2	B	268	MET	N-CA-C	-5.65	104.80	112.26
2	D	230	LEU	N-CA-C	5.59	119.09	110.42
1	C	113	SER	N-CA-C	5.58	115.61	108.24
1	A	128	PHE	N-CA-C	5.43	118.48	109.46
3	F	10	ASP	CA-C-O	-5.36	111.69	120.80
1	C	160	ILE	N-CA-C	5.15	115.48	107.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	149	ARG	N-CA-C	5.15	116.89	111.28
2	B	232	PHE	N-CA-C	5.11	117.51	111.33

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	A	1130	0	1119	38	0
1	C	1122	0	1115	23	0
2	B	757	0	740	10	0
2	D	777	0	754	18	0
3	E	35	0	31	3	0
3	F	35	0	31	1	0
4	A	37	0	0	0	0
4	B	25	0	0	2	0
4	C	41	0	0	0	0
4	D	24	0	0	2	0
4	E	2	0	0	0	0
4	F	2	0	0	0	0
All	All	3987	0	3790	80	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 10.

All (80) 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:A:57:LYS:HD3	1:A:57:LYS:H	1.37	0.89
2:B:250:PHE:H	3:E:2:ILE:HD13	1.38	0.87
1:C:172:ILE:C	1:C:172:ILE:HD13	2.04	0.82
1:C:100:MET:HG3	1:C:139:ILE:HG23	1.64	0.80
1:C:172:ILE:HD13	1:C:173:GLU:N	2.01	0.76
2:D:241:ARG:HD3	4:D:5158:HOH:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:THR:HG22	1:A:61:MET:HG2	1.70	0.73
2:D:249:SER:HB2	3:F:7:ILE:HG21	1.76	0.68
1:A:99:LEU:HG	1:A:100:MET:HE2	1.75	0.68
2:B:186:LYS:N	4:B:5132:HOH:O	2.27	0.66
1:C:50:ILE:HD11	1:C:100:MET:CE	2.27	0.64
2:B:268:MET:HE2	4:B:5135:HOH:O	1.97	0.64
1:A:99:LEU:O	1:A:103:VAL:HG23	1.99	0.62
1:A:93:ARG:HH21	1:A:133:PRO:HD2	1.65	0.61
1:C:122:GLY:HA2	1:C:128:PHE:HD2	1.66	0.59
1:A:61:MET:HB3	1:A:121[A]:HIS:CE1	2.37	0.59
1:C:50:ILE:HD11	1:C:100:MET:HE3	1.85	0.59
1:C:127:ILE:CG2	1:C:134:VAL:HG13	2.33	0.59
1:A:93:ARG:NH2	1:A:133:PRO:HD2	2.18	0.59
1:C:127:ILE:HG23	1:C:134:VAL:HG13	1.85	0.58
1:C:74:LEU:HD13	1:C:117:VAL:HG11	1.87	0.56
1:C:140:THR:HG21	2:D:195:TYR:HE2	1.71	0.56
1:A:140:THR:HG21	2:B:195:TYR:HE2	1.71	0.55
1:C:172:ILE:C	1:C:172:ILE:CD1	2.76	0.55
1:A:100:MET:HG3	1:A:139:ILE:HG23	1.89	0.55
1:A:93:ARG:HH21	1:A:133:PRO:CD	2.20	0.54
1:A:127:ILE:HG22	1:A:134:VAL:HG13	1.88	0.54
1:A:151:LEU:HA	1:A:154:LYS:HD2	1.90	0.54
1:C:36:SER:HA	2:D:271:LYS:HB3	1.90	0.54
1:A:93:ARG:HG3	1:A:94:GLU:N	2.22	0.53
1:A:94:GLU:O	1:A:98:GLU:HG3	2.08	0.53
1:A:48:ILE:HG21	1:A:100:MET:HE1	1.90	0.53
2:D:240:ASN:OD1	2:D:263:PRO:HB2	2.09	0.53
2:B:207:ARG:HA	2:B:213:SER:HA	1.90	0.53
1:C:41:TYR:HB2	1:C:112:SER:OG	2.09	0.52
1:A:51:ASN:HD22	1:A:89:ASN:ND2	2.08	0.52
2:D:268:MET:HE2	4:D:5153:HOH:O	2.10	0.51
2:D:207:ARG:HA	2:D:213:SER:HA	1.91	0.51
1:A:41:TYR:HB2	1:A:112:SER:OG	2.11	0.51
1:A:74:LEU:HD13	1:A:117:VAL:HG11	1.91	0.51
1:A:127:ILE:CG2	1:A:134:VAL:HG13	2.40	0.51
1:A:160:ILE:HD12	1:A:160:ILE:N	2.27	0.49
1:A:51:ASN:HD22	1:A:89:ASN:HD22	1.60	0.49
1:C:40:ASP:HA	2:D:277:HIS:NE2	2.27	0.49
1:C:92:THR:OG1	1:C:95:GLU:HG3	2.12	0.49
1:A:169:ASP:OD1	2:D:189:VAL:HG22	2.13	0.49
1:C:122:GLY:HA2	1:C:128:PHE:CD2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:228:ASP:OD1	2:D:229:LYS:HG3	2.13	0.49
2:D:244:ALA:HB2	2:D:262:ILE:CD1	2.42	0.49
1:A:61:MET:HB3	1:A:121[A]:HIS:ND1	2.28	0.47
1:A:76:GLU:O	1:A:80:ASN:ND2	2.48	0.47
1:A:50:ILE:HD11	1:A:100:MET:HE3	1.96	0.46
1:C:61:MET:SD	1:C:121[B]:HIS:CD2	3.09	0.46
2:B:233:MET:HE3	2:D:233:MET:HE2	1.98	0.45
1:A:93:ARG:HG3	1:A:94:GLU:H	1.82	0.45
1:C:99:LEU:O	1:C:103:VAL:HG23	2.16	0.45
1:A:37:TYR:CD1	1:A:155:PRO:HD3	2.52	0.45
1:C:50:ILE:HD12	1:C:118:LEU:CD2	2.46	0.45
1:A:42:PRO:HG2	1:A:110:LYS:HG3	1.99	0.44
1:C:50:ILE:HG23	1:C:91:LEU:HD12	1.98	0.44
1:A:94:GLU:H	1:A:94:GLU:CD	2.25	0.43
2:D:222:MET:HA	2:D:222:MET:HE2	1.99	0.43
1:A:159:ILE:HD13	2:B:219:LEU:HD21	2.00	0.43
2:D:244:ALA:HB2	2:D:262:ILE:HD13	2.00	0.43
2:D:194:LEU:C	2:D:194:LEU:HD13	2.44	0.43
2:B:194:LEU:CD2	2:B:267:SER:HB2	2.49	0.42
1:A:89:ASN:O	1:A:90:ASP:C	2.61	0.42
3:E:2:ILE:HD12	3:E:2:ILE:N	2.35	0.42
1:C:89:ASN:O	1:C:90:ASP:C	2.62	0.42
2:B:188:PRO:HG3	2:D:260:LYS:HB3	2.01	0.41
1:A:93:ARG:HG3	1:A:94:GLU:CD	2.45	0.41
1:A:61:MET:HE2	1:A:121[A]:HIS:CD2	2.56	0.41
2:B:250:PHE:N	3:E:2:ILE:HD13	2.20	0.41
1:C:38:LYS:HD3	1:C:41:TYR:CE1	2.56	0.41
1:A:50:ILE:HD12	1:A:118:LEU:CD2	2.50	0.40
1:A:61:MET:HE3	1:A:121[A]:HIS:CE1	2.57	0.40
1:A:169:ASP:CG	2:D:189:VAL:HG22	2.46	0.40
1:A:173:GLU:HA	2:D:186:LYS:HG2	2.02	0.40
1:A:120:SER:OG	1:A:121[A]:HIS:N	2.54	0.40
1:C:123:GLU:HG3	1:C:128:PHE:HE2	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	140/147 (95%)	136 (97%)	4 (3%)	0	100	100
1	C	139/147 (95%)	135 (97%)	3 (2%)	1 (1%)	18	19
2	B	89/108 (82%)	85 (96%)	4 (4%)	0	100	100
2	D	91/108 (84%)	89 (98%)	2 (2%)	0	100	100
3	E	3/5 (60%)	3 (100%)	0	0	100	100
3	F	3/5 (60%)	3 (100%)	0	0	100	100
All	All	465/520 (89%)	451 (97%)	13 (3%)	1 (0%)	43	51

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	90	ASP

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	128/132 (97%)	126 (98%)	2 (2%)	55	71
1	C	127/132 (96%)	124 (98%)	3 (2%)	43	58
2	B	81/96 (84%)	80 (99%)	1 (1%)	63	78
2	D	83/96 (86%)	82 (99%)	1 (1%)	63	78
3	E	4/4 (100%)	4 (100%)	0	100	100
3	F	4/4 (100%)	4 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	427/464 (92%)	420 (98%)	7 (2%)	55 71

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	57	LYS
1	A	134	VAL
2	B	268	MET
1	C	87	ASN
1	C	134	VAL
1	C	172	ILE
2	D	268	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	89	ASN
1	C	73	ASN
1	C	89	ASN
2	D	185	HIS
2	D	217	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](#)

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(Å²)	Q<0.9
1	A	141/147 (95%)	-0.04	8 (5%)	29	26	11, 26, 45, 65	1 (0%)
1	C	140/147 (95%)	-0.05	8 (5%)	29	26	10, 25, 47, 59	1 (0%)
2	B	91/108 (84%)	-0.47	1 (1%)	78	76	12, 19, 34, 60	0
2	D	93/108 (86%)	-0.46	1 (1%)	78	76	12, 19, 35, 69	0
3	E	4/5 (80%)	0.02	0	100	100	30, 31, 34, 42	0
3	F	4/5 (80%)	0.05	0	100	100	28, 31, 37, 40	0
All	All	473/520 (90%)	-0.21	18 (3%)	44	41	10, 23, 42, 69	2 (0%)

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	276	TYR	4.9
1	C	60	GLY	4.8
1	C	174	THR	4.3
1	A	60	GLY	3.3
1	A	57	LYS	2.8
1	A	34	ASP	2.7
1	C	61	MET	2.7
1	A	61	MET	2.6
1	C	98	GLU	2.6
1	A	173	GLU	2.4
1	A	98	GLU	2.4
2	D	277	HIS	2.3
1	C	173	GLU	2.3
1	A	56	HIS	2.2
1	A	59	THR	2.2
1	C	58	SER	2.2
1	C	35	ASN	2.0
1	C	172	ILE	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.