



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2024 – 07:31 PM EDT

PDB ID : 3MGN
Title : D-Peptide inhibitor PIE71 in complex with IQN17
Authors : Hill, C.P.; Whitby, F.G.; Kay, M.; Francis, N.
Deposited on : 2010-04-07
Resolution : 1.40 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
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
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

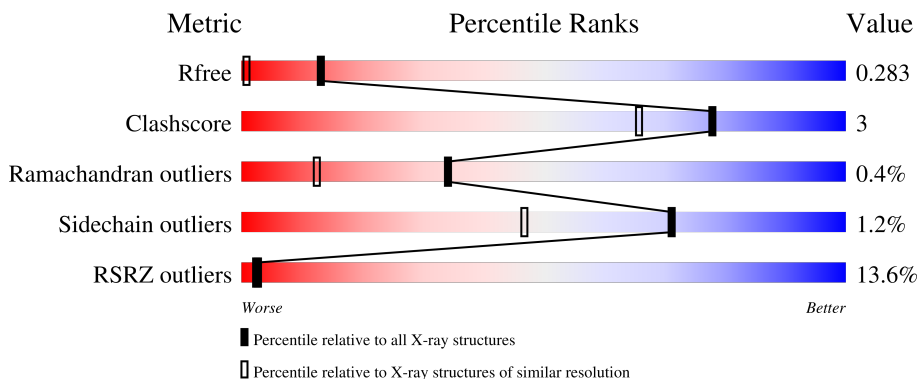
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.40 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	1714 (1.40-1.40)
Clashscore	141614	1812 (1.40-1.40)
Ramachandran outliers	138981	1763 (1.40-1.40)
Sidechain outliers	138945	1762 (1.40-1.40)
RSRZ outliers	127900	1674 (1.40-1.40)

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	A	47	
1	B	47	
1	C	47	
1	D	47	
1	E	47	

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Mol	Chain	Length	Quality of chain
1	F	47	<p>45% 94% 6%</p>
2	G	17	<p>76% 6% 18%</p>
2	H	17	<p>88% 12%</p>
2	I	17	<p>76% 24%</p>
2	J	17	<p>71% 29%</p>
2	K	17	<p>82% 12% 6%</p>
2	L	17	<p>82% 18%</p>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3427 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 IQN17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	47	Total 384	C 245	N 70	O 68	S 1	0	0	1
1	B	47	Total 403	C 257	N 75	O 70	S 1	0	2	1
1	C	47	Total 392	C 251	N 71	O 69	S 1	0	1	1
1	D	47	Total 393	C 250	N 72	O 70	S 1	0	1	1
1	E	47	Total 392	C 250	N 71	O 69	S 2	0	1	1
1	F	47	Total 384	C 245	N 70	O 68	S 1	0	0	1

- Molecule 2 is a protein called D-PEPTIDE INHIBITOR PIE71.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	G	14	Total 117	C 79	N 19	O 17	S 2	0	0	1
2	H	15	Total 121	C 81	N 20	O 18	S 2	0	0	1
2	I	13	Total 106	C 70	N 18	O 16	S 2	0	0	1
2	J	12	Total 99	C 65	N 17	O 15	S 2	0	0	1
2	K	16	Total 130	C 87	N 22	O 19	S 2	0	0	1
2	L	14	Total 117	C 79	N 19	O 17	S 2	0	0	1

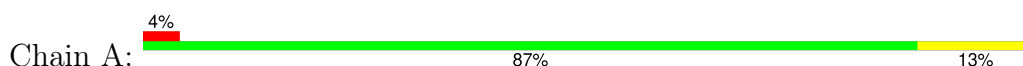
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	63	Total O 63 63	0	0
3	B	68	Total O 68 68	0	0
3	C	46	Total O 46 46	0	0
3	D	52	Total O 52 52	0	0
3	E	33	Total O 33 33	0	0
3	F	26	Total O 26 26	0	0
3	G	6	Total O 6 6	0	0
3	H	25	Total O 25 25	0	0
3	I	10	Total O 10 10	0	0
3	J	6	Total O 6 6	0	0
3	K	15	Total O 15 15	0	0
3	L	39	Total O 39 39	0	0

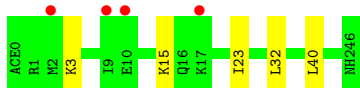
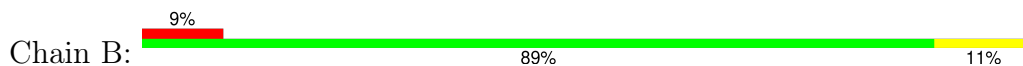
3 Residue-property plots [i](#)

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.

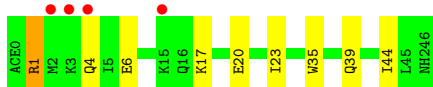
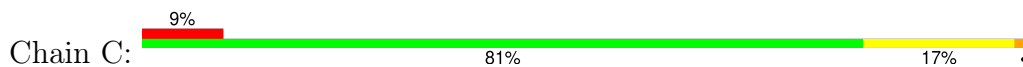
- Molecule 1: IQN17



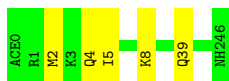
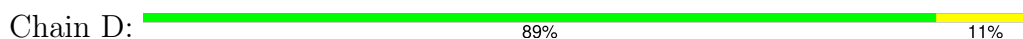
- Molecule 1: IQN17



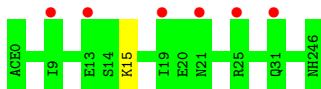
- Molecule 1: IQN17



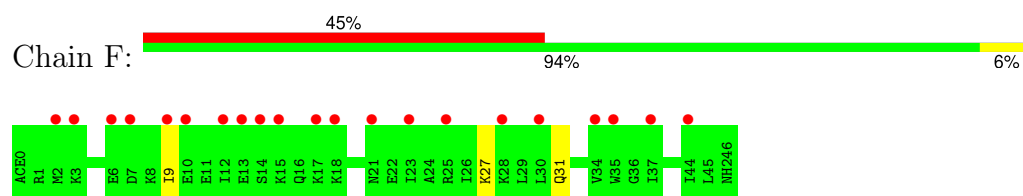
- Molecule 1: IQN17



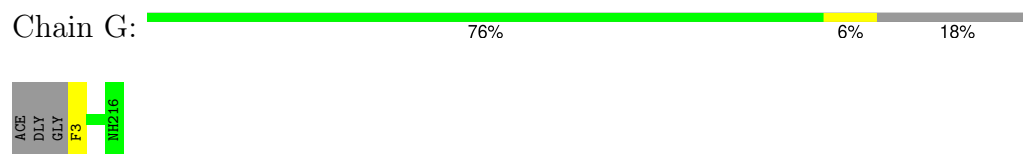
- Molecule 1: IQN17



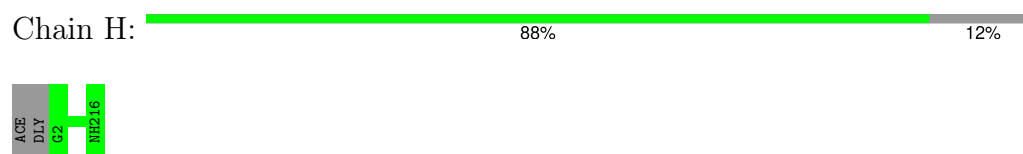
- Molecule 1: IQN17



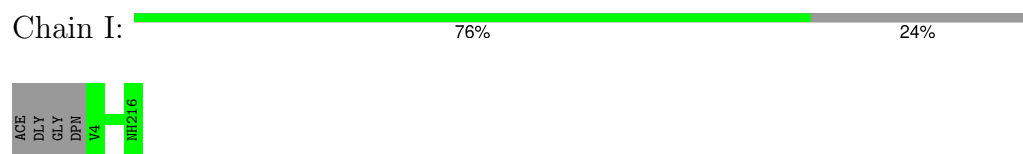
- Molecule 2: D-PEPTIDE INHIBITOR PIE71



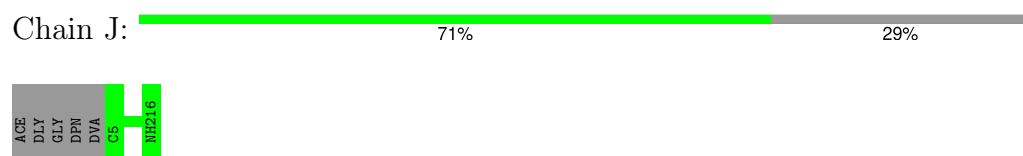
- Molecule 2: D-PEPTIDE INHIBITOR PIE71



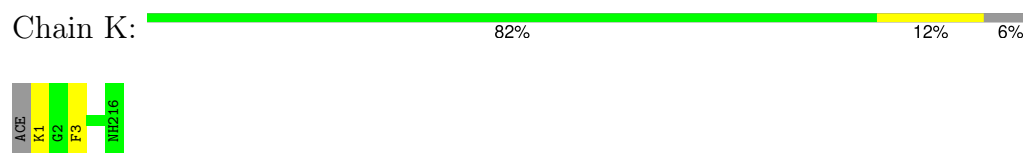
- Molecule 2: D-PEPTIDE INHIBITOR PIE71



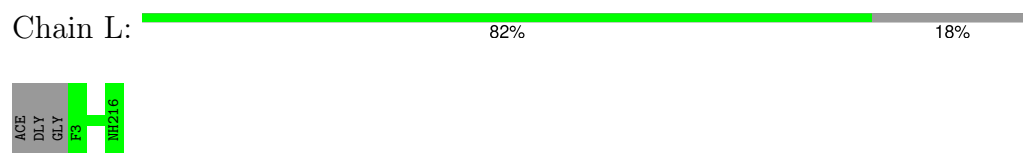
- Molecule 2: D-PEPTIDE INHIBITOR PIE71



- Molecule 2: D-PEPTIDE INHIBITOR PIE71



- Molecule 2: D-PEPTIDE INHIBITOR PIE71



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	51.92Å 30.79Å 132.80Å 90.00° 91.69° 90.00°	Depositor
Resolution (Å)	27.94 – 1.40 27.59 – 1.40	Depositor EDS
% Data completeness (in resolution range)	98.2 (27.94-1.40) 98.2 (27.59-1.40)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.08 (at 1.40Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.261 , 0.288 0.257 , 0.283	Depositor DCC
R_{free} test set	1654 reflections (2.01%)	wwPDB-VP
Wilson B-factor (Å ²)	17.1	Xtrriage
Anisotropy	0.043	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 48.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.022 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3427	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.41% 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: DGL, DTR, DAS, ACE, DCY, DAR, NH2, DLY, DLE, DVA, DPR, DPN

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	0/382	0.55	0/506
1	B	0.46	0/401	0.57	0/531
1	C	0.50	0/390	0.57	0/517
1	D	0.34	0/391	0.46	0/518
1	E	0.36	0/390	0.45	0/516
1	F	0.31	0/382	0.43	0/506
2	H	1.39	0/3	0.21	0/2
2	K	0.98	0/3	0.39	0/2
All	All	0.42	0/2342	0.51	0/3098

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
2	G	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	G	3	DPN	Peptide,Mainchain

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	384	0	428	8	0
1	B	403	0	450	6	0
1	C	392	0	438	7	0
1	D	393	0	435	4	0
1	E	392	0	436	0	0
1	F	384	0	428	2	0
2	G	117	0	98	0	0
2	H	121	0	99	0	0
2	I	106	0	90	0	0
2	J	99	0	83	0	0
2	K	130	0	113	2	0
2	L	117	0	99	0	0
3	A	63	0	0	1	1
3	B	68	0	0	0	2
3	C	46	0	0	0	0
3	D	52	0	0	1	0
3	E	33	0	0	1	2
3	F	26	0	0	0	0
3	G	6	0	0	0	0
3	H	25	0	0	0	1
3	I	10	0	0	0	0
3	J	6	0	0	0	0
3	K	15	0	0	0	0
3	L	39	0	0	0	0
All	All	3427	0	3197	18	3

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 3.

All (18) 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:19:ILE:HD13	3:A:156:HOH:O	1.81	0.80
1:A:44:ILE:HD11	1:C:44[B]:ILE:HD11	1.69	0.74
1:D:8:LYS:HD3	1:F:9:ILE:HG21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2:MET:HB2	3:E:126:HOH:O	1.98	0.63
1:D:39:GLN:HG3	3:D:108:HOH:O	1.97	0.63
1:A:44:ILE:HD11	1:C:44[B]:ILE:CD1	2.32	0.59
1:D:4[A]:GLN:HG3	1:D:5:ILE:N	2.21	0.55
1:A:15:LYS:HD3	1:C:20:GLU:OE1	2.11	0.51
1:B:32:LEU:HD11	2:K:1:DLY:HE3	1.96	0.48
1:B:32:LEU:HD23	2:K:3:DPN:HZ	1.96	0.47
1:B:23[B]:ILE:HD11	1:C:23:ILE:HD11	1.97	0.45
1:A:5:ILE:HD11	1:C:6:GLU:HG3	1.99	0.45
1:F:27:LYS:O	1:F:31:GLN:HG2	2.19	0.43
1:B:3:LYS:HG2	1:C:1:ARG:HH22	1.82	0.43
1:C:35:TRP:O	1:C:39:GLN:HG2	2.20	0.41
1:A:20:GLU:OE2	1:B:15:LYS:HE2	2.20	0.41
1:A:44:ILE:HD12	1:B:40:LEU:HD22	2.02	0.41
1:A:22:GLU:OE1	1:A:22:GLU:HA	2.20	0.41

All (3) 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)
3:B:166:HOH:O	3:E:126:HOH:O[2_645]	1.40	0.80
3:B:162:HOH:O	3:H:109:HOH:O[1_565]	2.04	0.16
3:A:162:HOH:O	3:E:126:HOH:O[2_645]	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	45/47 (96%)	45 (100%)	0	0	100	100
1	B	47/47 (100%)	47 (100%)	0	0	100	100
1	C	46/47 (98%)	45 (98%)	0	1 (2%)	6	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	46/47 (98%)	46 (100%)	0	0	100	100
1	E	46/47 (98%)	46 (100%)	0	0	100	100
1	F	45/47 (96%)	45 (100%)	0	0	100	100
All	All	275/282 (98%)	274 (100%)	0	1 (0%)	34	12

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	1	ARG

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	42/42 (100%)	42 (100%)	0	100	100
1	B	44/42 (105%)	44 (100%)	0	100	100
1	C	43/42 (102%)	41 (95%)	2 (5%)	26	4
1	D	43/42 (102%)	43 (100%)	0	100	100
1	E	43/42 (102%)	42 (98%)	1 (2%)	50	18
1	F	42/42 (100%)	42 (100%)	0	100	100
All	All	257/252 (102%)	254 (99%)	3 (1%)	71	47

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	4	GLN
1	C	17	LYS
1	E	15	LYS

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

Mol	Chain	Res	Type
1	A	39	GLN
1	C	4	GLN
1	C	16	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](#)

76 non-standard protein/DNA/RNA residues are modelled in this entry.

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.

5.5 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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	K	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	1:DLY	C	2:GLY	N	2.99

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	45/47 (95%)	0.64	2 (4%) 34 34	8, 22, 40, 42	0
1	B	45/47 (95%)	0.89	4 (8%) 9 8	8, 21, 51, 53	0
1	C	45/47 (95%)	0.77	4 (8%) 9 8	9, 20, 46, 47	0
1	D	45/47 (95%)	0.85	0 100 100	22, 31, 37, 39	0
1	E	45/47 (95%)	1.13	6 (13%) 3 2	26, 33, 43, 44	0
1	F	45/47 (95%)	1.70	21 (46%) 0 0	24, 39, 46, 46	0
2	G	0/17	-	-	-	-
2	H	1/17 (5%)	0.14	0 100 100	25, 25, 25, 25	0
2	I	0/17	-	-	-	-
2	J	0/17	-	-	-	-
2	K	1/17 (5%)	0.58	0 100 100	21, 21, 21, 21	0
2	L	0/17	-	-	-	-
All	All	272/384 (70%)	0.99	37 (13%) 3 2	8, 32, 46, 53	0

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	3	LYS	5.4
1	B	9	ILE	4.0
1	C	4	GLN	3.7
1	F	23	ILE	3.7
1	F	7	ASP	3.6
1	F	9	ILE	3.4
1	E	9	ILE	3.1
1	E	31	GLN	3.0
1	B	2	MET	3.0
1	F	17	LYS	2.8
1	A	5	ILE	2.6
1	F	14	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	E	19	ILE	2.6
1	F	15	LYS	2.5
1	F	35	TRP	2.5
1	E	21	ASN	2.4
1	F	25	ARG	2.4
1	F	6	GLU	2.4
1	B	10	GLU	2.3
1	F	21	ASN	2.3
1	F	2	MET	2.3
1	C	2	MET	2.3
1	E	13	GLU	2.3
1	F	10	GLU	2.3
1	A	4	GLN	2.3
1	F	34	VAL	2.3
1	E	25	ARG	2.2
1	F	28	LYS	2.2
1	B	17	LYS	2.2
1	F	12	ILE	2.1
1	F	44	ILE	2.1
1	F	18	LYS	2.1
1	F	37	ILE	2.1
1	C	3	LYS	2.1
1	C	15	LYS	2.1
1	F	30	LEU	2.1
1	F	13	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	DAR	G	10	11/12	0.50	0.31	46,46,50,50	0
2	DCY	G	5	6/7	0.52	0.23	49,49,49,49	0
2	DVA	G	4	7/8	0.59	0.19	49,49,49,50	0
2	DCY	J	13	6/7	0.63	0.12	42,43,43,45	0
2	DPR	G	7	7/8	0.65	0.35	47,48,48,48	0
2	DPN	G	3	11/12	0.66	0.16	49,49,50,50	0
2	DGL	G	8	9/10	0.66	0.26	46,46,47,47	0
2	DTR	J	9	14/15	0.67	0.14	37,38,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	DPN	L	3	11/12	0.68	0.22	30,32,33,33	0
2	DCY	G	13	6/7	0.68	0.17	47,48,48,48	0
2	DLY	K	1	9/10	0.68	0.21	34,35,36,36	0
2	DPR	G	6	7/8	0.71	0.14	48,48,48,48	0
2	DLE	J	15	8/9	0.72	0.22	44,44,45,45	0
2	DPR	J	6	7/8	0.73	0.13	42,42,42,42	0
2	DAS	J	14	8/9	0.74	0.20	44,44,46,46	0
2	DCY	J	5	6/7	0.74	0.15	42,42,42,43	0
2	DCY	I	5	6/7	0.77	0.13	33,34,35,35	0
2	DAR	J	10	11/12	0.77	0.22	39,40,44,44	0
2	DPR	J	7	7/8	0.77	0.13	41,41,41,42	0
2	DCY	K	13	6/7	0.78	0.13	18,21,22,25	0
2	DVA	I	4	7/8	0.79	0.18	35,35,35,36	0
2	DGL	J	8	9/10	0.79	0.10	40,40,42,42	0
2	DTR	J	11	14/15	0.80	0.14	37,38,39,39	0
2	DLE	J	12	8/9	0.82	0.15	39,40,40,41	0
2	DLE	I	15	8/9	0.82	0.12	35,36,36,36	0
2	DTR	G	9	14/15	0.82	0.15	39,41,45,46	0
2	DLE	G	15	8/9	0.83	0.16	48,48,48,48	0
2	DTR	G	11	14/15	0.85	0.11	45,45,46,46	0
2	DAS	I	14	8/9	0.85	0.09	32,34,35,36	0
2	DLE	K	15	8/9	0.85	0.12	22,25,26,27	0
2	DLE	G	12	8/9	0.86	0.16	45,46,46,46	0
2	DCY	H	13	6/7	0.86	0.11	14,16,17,21	0
2	DAS	G	14	8/9	0.87	0.09	48,48,49,49	0
2	DAR	K	10	11/12	0.88	0.14	16,19,32,33	0
2	DVA	K	4	7/8	0.89	0.12	20,22,24,24	0
2	DPR	I	7	7/8	0.89	0.11	29,30,30,30	0
2	DGL	I	8	9/10	0.89	0.10	25,27,28,29	0
2	DCY	K	5	6/7	0.90	0.10	18,20,21,22	0
2	DGL	K	8	9/10	0.90	0.10	15,16,24,25	0
2	DCY	I	13	6/7	0.91	0.08	29,31,32,32	0
2	DAS	H	14	8/9	0.91	0.08	17,20,23,23	0
2	DAR	H	10	11/12	0.91	0.11	11,13,17,18	0
2	DAR	I	10	11/12	0.91	0.09	26,28,38,38	0
2	DTR	I	11	14/15	0.92	0.09	23,24,26,26	0
2	DLE	I	12	8/9	0.92	0.12	26,26,27,28	0
2	DCY	L	13	6/7	0.93	0.09	12,13,14,19	0
2	DPN	K	3	11/12	0.93	0.07	19,20,22,22	0
2	DPR	I	6	7/8	0.93	0.12	30,31,32,32	0
2	DVA	L	4	7/8	0.93	0.10	23,24,25,25	0
2	DGL	L	8	9/10	0.93	0.09	13,15,23,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	DAS	K	14	8/9	0.93	0.07	21,23,28,28	0
2	DPR	K	6	7/8	0.93	0.09	16,18,19,21	0
2	DLE	H	15	8/9	0.93	0.08	22,23,25,26	0
2	DTR	I	9	14/15	0.93	0.10	21,24,26,26	0
2	DGL	H	8	9/10	0.93	0.11	12,13,21,24	0
2	DTR	K	9	14/15	0.93	0.09	9,14,15,16	0
2	DLE	L	15	8/9	0.93	0.12	13,15,16,17	0
2	DPR	K	7	7/8	0.94	0.11	15,15,16,17	0
2	DPR	L	7	7/8	0.94	0.14	16,16,17,19	0
2	DLE	L	12	8/9	0.94	0.13	10,11,11,12	0
2	DPR	L	6	7/8	0.94	0.10	15,16,18,18	0
2	DTR	K	11	14/15	0.95	0.09	11,14,17,17	0
2	DAS	L	14	8/9	0.95	0.09	13,14,15,16	0
2	DAR	L	10	11/12	0.95	0.09	12,15,18,20	0
2	DPR	H	6	7/8	0.95	0.11	14,15,15,16	0
2	DTR	L	11	14/15	0.96	0.10	10,12,13,13	0
2	DTR	H	11	14/15	0.96	0.10	12,13,14,14	0
2	DLE	H	12	8/9	0.96	0.10	12,14,14,15	0
2	DVA	H	4	7/8	0.96	0.09	15,16,18,18	0
2	DTR	L	9	14/15	0.96	0.10	11,12,13,14	0
2	DPN	H	3	11/12	0.96	0.07	18,19,21,21	0
2	DLE	K	12	8/9	0.97	0.12	12,15,16,16	0
2	DPR	H	7	7/8	0.97	0.13	13,14,15,15	0
2	DCY	L	5	6/7	0.97	0.07	19,20,20,21	0
2	DCY	H	5	6/7	0.97	0.09	15,15,17,17	0
2	DTR	H	9	14/15	0.97	0.09	10,11,12,13	0

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.