



Full wwPDB X-ray Structure Validation Report ⓘ

May 15, 2020 – 03:20 am BST

PDB ID : 6BA5
Title : Potent and Selective Antitumor Activity of a T-Cell Engaging Bispecific Antibody Targeting a Membrane-Proximal Epitope of ROR1
Authors : Park, H.; Rader, C.
Deposited on : 2017-10-12
Resolution : 1.62 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 : 2.11
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) : 2.11

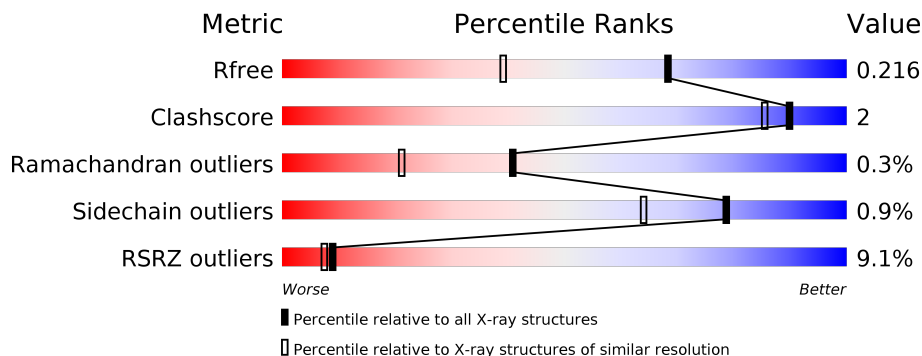
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.62 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.



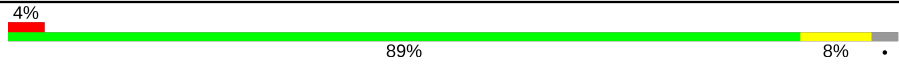
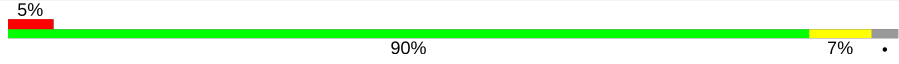
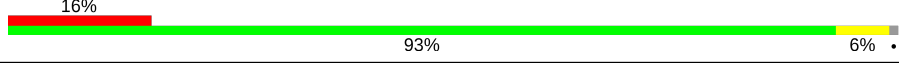
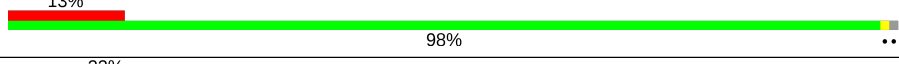
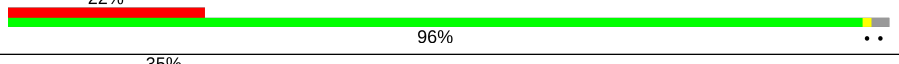
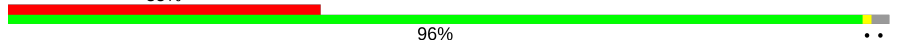
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	4693 (1.64-1.60)
Clashscore	141614	5002 (1.64-1.60)
Ramachandran outliers	138981	4888 (1.64-1.60)
Sidechain outliers	138945	4887 (1.64-1.60)
RSRZ outliers	127900	4609 (1.64-1.60)

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 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	114	2% (Poor fit) 92% (0 outliers) 5% (1 outlier) 3% (2 outliers) 0% (3+ outliers)
1	C	114	0% (Poor fit) 94% (0 outliers) 5% (1 outlier) 1% (2 outliers) 0% (3+ outliers)
1	E	114	4% (Poor fit) 92% (0 outliers) 5% (1 outlier) 1% (2 outliers) 0% (3+ outliers)
1	G	114	3% (Poor fit) 95% (0 outliers) 3% (1 outlier) 1% (2 outliers) 0% (3+ outliers)
2	B	117	9% (Poor fit) 91% (0 outliers) 6% (1 outlier) 1% (2 outliers) 0% (3+ outliers)
2	D	117	7% (Poor fit) 85% (0 outliers) 11% (1 outlier) 1% (2 outliers) 0% (3+ outliers)

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Mol	Chain	Length	Quality of chain
2	F	117	 4% 89% 8%
2	H	117	 5% 90% 7%
3	M	82	 16% 93% 6%
3	N	82	 13% 98%
3	O	82	 22% 96%
3	P	82	 35% 96%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 10620 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 Variable domain of Light Chain, antibody R11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	110	805	498	139	165	3	0	0	0
1	C	110	805	498	139	165	3	0	0	0
1	E	111	813	503	140	166	4	0	0	0
1	G	111	813	503	140	166	4	0	0	0

- Molecule 2 is a protein called Variable domain Heavy chain, antibody R11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	113	865	550	139	173	3	0	0	0
2	D	113	863	548	139	173	3	0	0	0
2	F	113	865	550	139	173	3	0	0	0
2	H	113	863	548	139	173	3	0	0	0

- Molecule 3 is a protein called Inactive tyrosine-protein kinase transmembrane receptor ROR1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	M	81	646	401	117	122	6	0	0	0
3	N	81	646	401	117	122	6	0	0	0
3	O	80	636	395	114	121	6	0	0	0
3	P	80	636	395	114	121	6	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	310	MET	-	initiating methionine	UNP Q01973
N	310	MET	-	initiating methionine	UNP Q01973
O	310	MET	-	initiating methionine	UNP Q01973
P	310	MET	-	initiating methionine	UNP Q01973

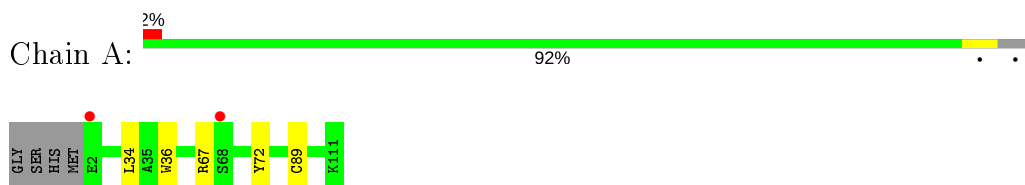
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	151	Total O 151 151	0	0
4	B	139	Total O 139 139	0	0
4	C	147	Total O 147 147	0	0
4	D	136	Total O 136 136	0	0
4	E	160	Total O 160 160	0	0
4	F	145	Total O 145 145	0	0
4	G	136	Total O 136 136	0	0
4	H	136	Total O 136 136	0	0
4	M	70	Total O 70 70	0	0
4	N	50	Total O 50 50	0	0
4	O	58	Total O 58 58	0	0
4	P	36	Total O 36 36	0	0

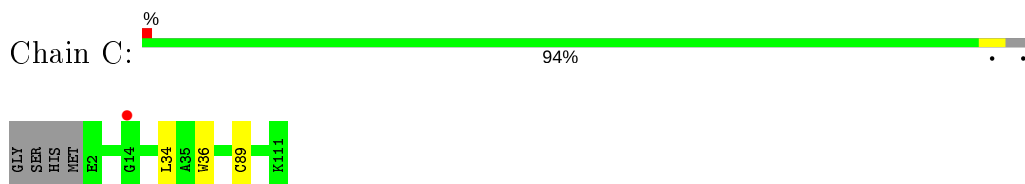
3 Residue-property plots [i](#)

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.

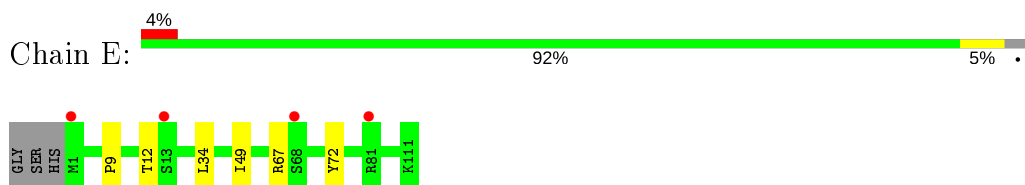
- Molecule 1: Variable domain of Light Chain, antibody R11



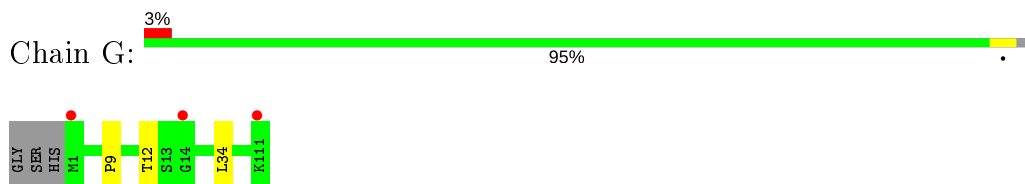
- Molecule 1: Variable domain of Light Chain, antibody R11



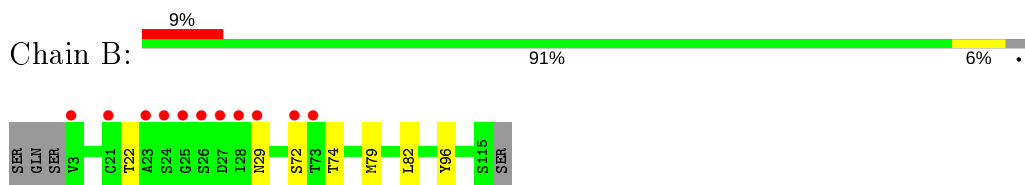
- Molecule 1: Variable domain of Light Chain, antibody R11



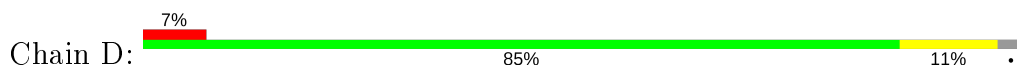
- Molecule 1: Variable domain of Light Chain, antibody R11



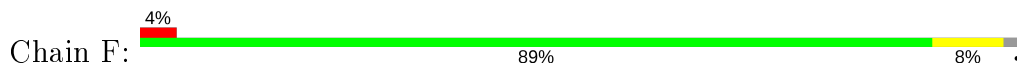
- Molecule 2: Variable domain Heavy chain, antibody R11



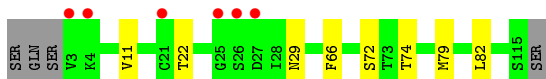
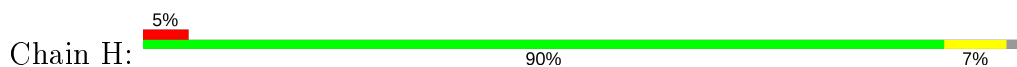
- Molecule 2: Variable domain Heavy chain, antibody R11



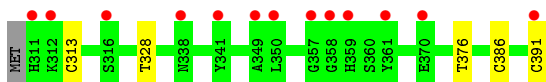
- Molecule 2: Variable domain Heavy chain, antibody R11



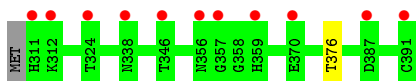
- Molecule 2: Variable domain Heavy chain, antibody R11



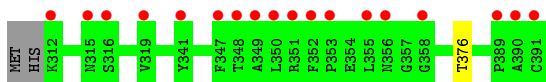
- Molecule 3: Inactive tyrosine-protein kinase transmembrane receptor ROR1



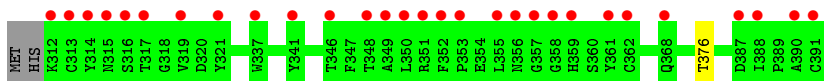
- Molecule 3: Inactive tyrosine-protein kinase transmembrane receptor ROR1



- Molecule 3: Inactive tyrosine-protein kinase transmembrane receptor ROR1



- Molecule 3: Inactive tyrosine-protein kinase transmembrane receptor ROR1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	58.02Å 73.90Å 84.12Å 89.86° 71.30° 84.49°	Depositor
Resolution (Å)	39.53 – 1.62 35.47 – 1.62	Depositor EDS
% Data completeness (in resolution range)	96.1 (39.53-1.62) 96.1 (35.47-1.62)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 1.62Å)	Xtrriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.194 , 0.214 0.198 , 0.216	Depositor DCC
R_{free} test set	3234 reflections (2.01%)	wwPDB-VP
Wilson B-factor (Å ²)	11.7	Xtrriage
Anisotropy	0.735	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 47.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.000 for -h,-k,-h+l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10620	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 58.64 % 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 1.9847e-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 [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	0.50	0/819	0.65	0/1114
1	C	0.48	0/819	0.64	0/1114
1	E	0.51	0/827	0.66	0/1124
1	G	0.48	0/827	0.64	0/1124
2	B	0.56	0/888	0.63	0/1214
2	D	0.53	0/886	0.62	0/1211
2	F	0.54	0/888	0.63	0/1214
2	H	0.52	0/886	0.63	0/1211
3	M	0.46	0/667	0.58	0/907
3	N	0.45	0/667	0.56	0/907
3	O	0.44	0/656	0.58	0/892
3	P	0.43	0/656	0.56	0/892
All	All	0.50	0/9486	0.62	0/12924

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 [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	805	0	783	2	0
1	C	805	0	783	1	0
1	E	813	0	795	3	0
1	G	813	0	795	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	865	0	822	3	0
2	D	863	0	815	8	0
2	F	865	0	822	5	0
2	H	863	0	815	4	0
3	M	646	0	587	2	0
3	N	646	0	587	0	0
3	O	636	0	580	0	0
3	P	636	0	580	0	0
4	A	151	0	0	0	0
4	B	139	0	0	0	0
4	C	147	0	0	0	0
4	D	136	0	0	1	0
4	E	160	0	0	0	0
4	F	145	0	0	0	0
4	G	136	0	0	0	0
4	H	136	0	0	0	0
4	M	70	0	0	0	0
4	N	50	0	0	0	0
4	O	58	0	0	0	0
4	P	36	0	0	0	0
All	All	10620	0	8764	27	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 2.

All (27) 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:22:THR:HG22	2:H:74:THR:HG22	1.66	0.78
2:D:22:THR:HG22	2:D:74:THR:HG22	1.67	0.76
2:F:22:THR:HG22	2:F:74:THR:HG22	1.68	0.75
2:B:22:THR:HG22	2:B:74:THR:HG22	1.69	0.74
2:D:10:LEU:HB2	2:F:20:THR:CG2	2.26	0.66
2:D:13:PRO:HD3	2:D:115:SER:HB2	1.77	0.66
3:M:313:CYS:HG	3:M:391:CYS:HG	0.65	0.62
2:B:29:ASN:HB3	2:B:72:SER:O	2.08	0.54
2:D:82:LEU:HB3	2:D:114:ILE:HG12	1.92	0.51
2:F:29:ASN:HB3	2:F:72:SER:O	2.13	0.48
2:H:66:PHE:CD2	2:H:79:MET:HG2	2.49	0.47
2:D:29:ASN:HB3	2:D:72:SER:O	2.15	0.47
1:E:67:ARG:HD2	1:E:72:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:29:ASN:HB3	2:H:72:SER:O	2.14	0.46
2:D:26:SER:HB2	4:D:291:HOH:O	2.17	0.45
2:D:79:MET:HB3	2:D:82:LEU:HD21	1.98	0.44
2:F:79:MET:HB2	2:F:82:LEU:HD21	1.99	0.44
2:D:5:GLU:HG2	2:F:92:CYS:SG	2.58	0.44
1:E:9:PRO:CG	1:E:12:THR:HG23	2.48	0.43
2:B:79:MET:HB2	2:B:82:LEU:HD21	1.99	0.43
1:A:36:TRP:CZ3	1:A:89:CYS:HB3	2.54	0.42
2:H:11:VAL:HG11	2:H:82:LEU:HD12	2.02	0.42
1:A:67:ARG:HD2	1:A:72:TYR:CE2	2.54	0.41
1:C:36:TRP:CZ3	1:C:89:CYS:HB3	2.56	0.41
1:G:9:PRO:CG	1:G:12:THR:HG23	2.51	0.41
1:E:9:PRO:HG2	1:E:12:THR:HG23	2.02	0.40
3:M:328:THR:HA	3:M:386:CYS:HA	2.04	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	108/114 (95%)	102 (94%)	6 (6%)	0	100	100
1	C	108/114 (95%)	103 (95%)	5 (5%)	0	100	100
1	E	109/114 (96%)	103 (94%)	6 (6%)	0	100	100
1	G	109/114 (96%)	105 (96%)	4 (4%)	0	100	100
2	B	111/117 (95%)	109 (98%)	1 (1%)	1 (1%)	17	4
2	D	111/117 (95%)	110 (99%)	0	1 (1%)	17	4
2	F	111/117 (95%)	110 (99%)	0	1 (1%)	17	4
2	H	111/117 (95%)	109 (98%)	2 (2%)	0	100	100
3	M	79/82 (96%)	76 (96%)	3 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	N	79/82 (96%)	77 (98%)	2 (2%)	0	100	100
3	O	78/82 (95%)	77 (99%)	1 (1%)	0	100	100
3	P	78/82 (95%)	76 (97%)	2 (3%)	0	100	100
All	All	1192/1252 (95%)	1157 (97%)	32 (3%)	3 (0%)	41	21

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	96	TYR
2	D	96	TYR
2	F	96	TYR

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	89/92 (97%)	88 (99%)	1 (1%)	73	56
1	C	89/92 (97%)	88 (99%)	1 (1%)	73	56
1	E	90/92 (98%)	88 (98%)	2 (2%)	52	25
1	G	90/92 (98%)	89 (99%)	1 (1%)	73	56
2	B	94/98 (96%)	94 (100%)	0	100	100
2	D	93/98 (95%)	93 (100%)	0	100	100
2	F	94/98 (96%)	94 (100%)	0	100	100
2	H	93/98 (95%)	93 (100%)	0	100	100
3	M	72/73 (99%)	71 (99%)	1 (1%)	67	46
3	N	72/73 (99%)	71 (99%)	1 (1%)	67	46
3	O	71/73 (97%)	70 (99%)	1 (1%)	67	46
3	P	71/73 (97%)	70 (99%)	1 (1%)	67	46
All	All	1018/1052 (97%)	1009 (99%)	9 (1%)	78	64

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	34	LEU
1	C	34	LEU
1	E	34	LEU
1	E	49	ILE
1	G	34	LEU
3	M	376	THR
3	N	376	THR
3	O	376	THR
3	P	376	THR

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

Mol	Chain	Res	Type
2	B	16	ASN
1	E	25	GLN
3	M	315	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 carbohydrates 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

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	110/114 (96%)	0.08	2 (1%) 68 67	8, 13, 28, 59	0
1	C	110/114 (96%)	0.03	1 (0%) 84 84	8, 15, 31, 68	0
1	E	111/114 (97%)	0.11	4 (3%) 42 39	8, 13, 30, 52	0
1	G	111/114 (97%)	0.02	3 (2%) 54 51	9, 15, 30, 70	0
2	B	113/117 (96%)	0.49	11 (9%) 7 6	7, 12, 43, 59	0
2	D	113/117 (96%)	0.31	8 (7%) 16 14	7, 12, 35, 48	0
2	F	113/117 (96%)	0.22	5 (4%) 34 30	7, 11, 33, 47	0
2	H	113/117 (96%)	0.26	6 (5%) 26 23	8, 14, 32, 51	0
3	M	81/82 (98%)	0.88	13 (16%) 1 1	9, 26, 52, 69	0
3	N	81/82 (98%)	0.71	11 (13%) 3 2	10, 31, 52, 79	0
3	O	80/82 (97%)	1.20	18 (22%) 0 0	9, 33, 67, 92	0
3	P	80/82 (97%)	1.84	29 (36%) 0 0	14, 40, 73, 106	0
All	All	1216/1252 (97%)	0.45	111 (9%) 9 7	7, 16, 51, 106	0

All (111) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	O	350	LEU	13.2
3	P	350	LEU	12.8
2	B	25	GLY	9.5
3	O	391	CYS	8.9
2	D	25	GLY	7.9
2	B	26	SER	7.9
3	P	391	CYS	7.4
3	P	312	LYS	6.5
3	O	312	LYS	6.5
3	P	319	VAL	6.1
2	H	3	VAL	6.1

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Mol	Chain	Res	Type	RSRZ
3	P	357	GLY	5.7
3	O	341	TYR	5.6
3	O	351	ARG	5.6
2	B	3	VAL	5.4
3	N	312	LYS	5.4
2	B	27	ASP	5.3
3	M	311	HIS	5.1
2	D	28	ILE	5.0
3	M	357	GLY	5.0
3	P	353	PRO	4.9
3	P	390	ALA	4.9
2	F	26	SER	4.8
2	B	29	ASN	4.8
3	O	356	ASN	4.8
1	E	1	MET	4.6
3	M	391	CYS	4.4
3	M	350	LEU	4.4
3	N	311	HIS	4.4
3	P	361	TYR	4.3
2	B	28	ILE	4.2
3	N	391	CYS	4.2
3	P	349	ALA	4.2
3	P	348	THR	4.2
2	F	25	GLY	4.2
3	O	348	THR	4.1
1	G	1	MET	4.0
3	P	313	CYS	4.0
3	P	358	GLY	3.9
3	P	314	TYR	3.9
2	H	25	GLY	3.8
3	P	341	TYR	3.8
3	P	388	ILE	3.8
3	P	352	PHE	3.7
3	O	353	PRO	3.7
3	P	315	ASN	3.7
2	D	26	SER	3.6
3	P	351	ARG	3.6
3	M	359	HIS	3.6
2	F	3	VAL	3.5
3	M	341	TYR	3.4
2	D	27	ASP	3.4
3	O	316	SER	3.4

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Mol	Chain	Res	Type	RSRZ
3	P	317	THR	3.4
3	M	358	GLY	3.3
3	O	319	VAL	3.3
3	N	359	HIS	3.3
3	P	359	HIS	3.3
2	B	24	SER	3.2
3	P	346	THR	3.1
1	G	111	LYS	3.1
2	B	72	SER	3.0
3	O	390	ALA	3.0
2	H	26	SER	3.0
3	M	338	ASN	2.9
2	D	3	VAL	2.9
3	O	355	LEU	2.9
3	O	315	ASN	2.8
2	F	24	SER	2.8
3	M	312	LYS	2.7
3	P	387	ASP	2.7
3	M	316	SER	2.7
3	N	357	GLY	2.7
3	O	349	ALA	2.7
3	O	352	PHE	2.7
3	P	356	ASN	2.6
3	P	321	TYR	2.6
3	P	368	GLN	2.6
3	N	370	GLU	2.6
2	D	24	SER	2.5
3	M	349	ALA	2.5
2	D	29	ASN	2.5
1	E	68	SER	2.5
3	P	355	LEU	2.5
2	F	21	CYS	2.5
2	H	4	LYS	2.4
3	P	316	SER	2.4
3	O	358	GLY	2.4
3	N	387	ASP	2.4
3	M	361	TYR	2.4
2	B	23	ALA	2.4
1	E	13	SER	2.3
2	D	21	CYS	2.3
2	B	73	THR	2.3
1	A	2	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	14	GLY	2.2
3	P	362	CYS	2.2
3	N	356	ASN	2.2
3	M	370	GLU	2.2
2	H	21	CYS	2.2
3	N	338	ASN	2.2
3	P	337	TRP	2.1
1	A	68	SER	2.1
3	N	324	THR	2.1
3	N	346	THR	2.1
3	O	347	PHE	2.0
1	E	81	ARG	2.0
2	B	21	CYS	2.0
1	G	14	GLY	2.0
2	H	27	ASP	2.0
3	O	389	PRO	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.