



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 06:39 PM UTC

PDB ID : 5E6J / pdb_00005e6j
Title : Structure of SARS PLpro bound to a Lys48-linked di-ubiquitin activity based probe
Authors : Lima, C.D.; Bekes, M.
Deposited on : 2015-10-09
Resolution : 2.85 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

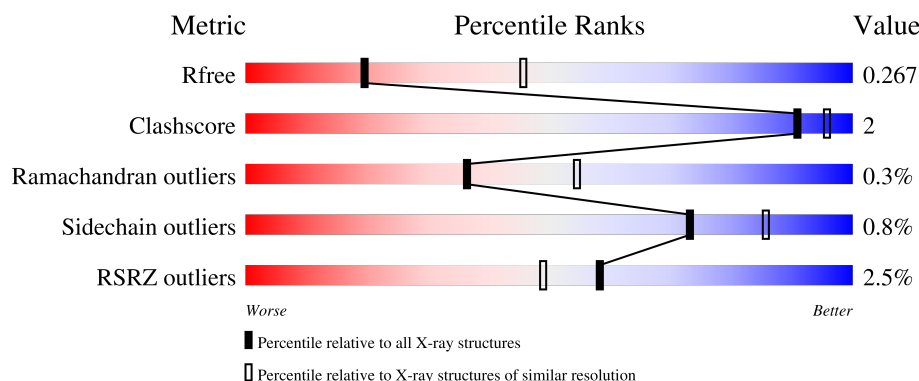
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.85 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	1407 (2.88-2.84)
Clashscore	190562	1446 (2.88-2.84)
Ramachandran outliers	187476	1406 (2.88-2.84)
Sidechain outliers	187428	1407 (2.88-2.84)
RSRZ outliers	180081	1408 (2.88-2.84)

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	325	3% 91% 6%
1	D	325	2% 91% 5%
2	B	76	99%
2	E	76	% 91% 9%
3	C	75	3% 96%

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Mol	Chain	Length	Quality of chain
3	F	75	5% 96% .

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 7366 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 Replicase polypeptide 1ab.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	317	Total	C	N	O	S	0	0	0
			2478	1573	411	477	17			
1	D	313	Total	C	N	O	S	0	0	0
			2449	1553	407	473	16			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP P0C6X7
A	318	LEU	-	expression tag	UNP P0C6X7
A	319	GLU	-	expression tag	UNP P0C6X7
A	320	HIS	-	expression tag	UNP P0C6X7
A	321	HIS	-	expression tag	UNP P0C6X7
A	322	HIS	-	expression tag	UNP P0C6X7
A	323	HIS	-	expression tag	UNP P0C6X7
A	324	HIS	-	expression tag	UNP P0C6X7
A	325	HIS	-	expression tag	UNP P0C6X7
D	1	MET	-	initiating methionine	UNP P0C6X7
D	318	LEU	-	expression tag	UNP P0C6X7
D	319	GLU	-	expression tag	UNP P0C6X7
D	320	HIS	-	expression tag	UNP P0C6X7
D	321	HIS	-	expression tag	UNP P0C6X7
D	322	HIS	-	expression tag	UNP P0C6X7
D	323	HIS	-	expression tag	UNP P0C6X7
D	324	HIS	-	expression tag	UNP P0C6X7
D	325	HIS	-	expression tag	UNP P0C6X7

- Molecule 2 is a protein called ubiquitin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	76	Total	C	N	O	S	0	0	0
			606	381	108	116	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	E	76	Total	C	N	O	S	0	0	0
			606	381	108	116	1			

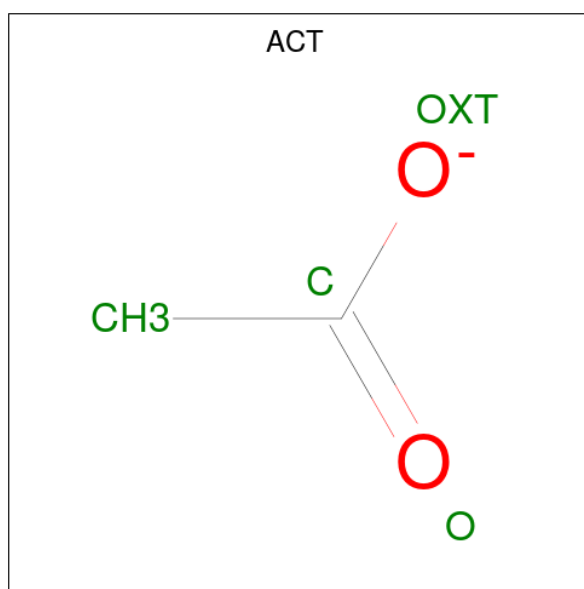
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	76	AYE	-	engineered mutation	UNP P0CG48
E	76	AYE	-	engineered mutation	UNP P0CG48

- Molecule 3 is a protein called Polyubiquitin-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	75	Total	C	N	O	S	0	0	0
			585	370	98	116	1			
3	F	75	Total	C	N	O		0	0	0
			582	368	98	116				

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is NICKEL (II) ION (CCD ID: NI) (formula: Ni).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Ni 1 1	0	0

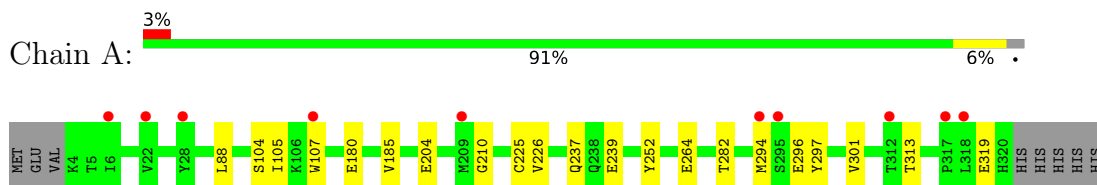
- Molecule 6 is water.

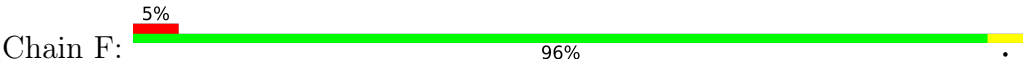
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	27	Total O 27 27	0	0
6	B	2	Total O 2 2	0	0
6	C	2	Total O 2 2	0	0
6	D	13	Total O 13 13	0	0
6	E	2	Total O 2 2	0	0
6	F	9	Total O 9 9	0	0

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: Replicase polyprotein 1ab





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	72.98Å 68.24Å 119.02Å 90.00° 103.21° 90.00°	Depositor
Resolution (Å)	49.22 – 2.85 49.22 – 2.85	Depositor EDS
% Data completeness (in resolution range)	97.5 (49.22-2.85) 97.2 (49.22-2.85)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.38 (at 2.86Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.232 , 0.264 0.237 , 0.267	Depositor DCC
R_{free} test set	1320 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	67.3	Xtriage
Anisotropy	0.449	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 38.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	7366	wwPDB-VP
Average B, all atoms (Å ²)	79.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.40% 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](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 5MW, NI, ACT, AYE

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	0.27	0/2535	0.58	0/3446
1	D	0.28	0/2504	0.57	0/3403
2	B	0.29	0/593	0.59	0/797
2	E	0.28	0/593	0.58	0/797
3	C	0.29	0/591	0.55	0/797
3	F	0.27	0/588	0.61	0/794
All	All	0.28	0/7404	0.58	0/10034

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	2478	0	2397	11	0
1	D	2449	0	2367	10	0
2	B	606	0	617	0	0
2	E	606	0	617	3	0
3	C	585	0	604	2	0
3	F	582	0	597	2	0
4	A	4	0	3	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	1	0	0	0	0
6	A	27	0	0	0	0
6	B	2	0	0	0	0
6	C	2	0	0	0	0
6	D	13	0	0	0	0
6	E	2	0	0	0	0
6	F	9	0	0	1	0
All	All	7366	0	7202	25	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 (25) 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:D:225:CYS:HB2	1:D:231:ALA:HB2	1.70	0.73
1:A:225:CYS:SG	1:A:226:VAL:N	2.65	0.68
1:D:190:CYS:CB	1:D:193:CYS:HB3	2.28	0.64
1:A:237:GLN:NE2	1:A:239:GLU:OE2	2.34	0.61
1:D:79:SER:OG	1:D:83:ARG:NH1	2.38	0.56
1:A:107:TRP:HB2	4:A:401:ACT:H2	1.86	0.56
1:A:282:THR:OG1	1:A:294:MET:O	2.24	0.56
1:D:225:CYS:HB3	1:D:229:ARG:O	2.11	0.51
1:D:191:LYS:HD3	1:D:229:ARG:HG2	1.93	0.50
1:D:180:GLU:OE2	3:F:9:THR:OG1	2.19	0.50
1:D:225:CYS:SG	1:D:226:VAL:N	2.84	0.49
1:A:180:GLU:OE2	3:C:11:LYS:NZ	2.39	0.48
1:A:185:VAL:HG22	1:A:237:GLN:HB3	1.99	0.44
1:A:104:SER:OG	1:A:105:ILE:N	2.50	0.43
2:E:55:THR:OG1	2:E:56:LEU:N	2.51	0.43
1:A:204:GLU:N	1:A:204:GLU:OE1	2.48	0.43
1:A:252:TYR:HB3	1:A:301:VAL:HG22	2.00	0.43
2:E:27:LYS:NZ	2:E:52:ASP:OD1	2.36	0.43
1:A:185:VAL:CG2	1:A:237:GLN:HB3	2.49	0.42
3:C:36:ILE:O	3:C:41:GLN:NE2	2.52	0.42
1:A:264:GLU:OE2	1:A:297:TYR:OH	2.35	0.42
1:D:254:LEU:N	1:D:297:TYR:O	2.53	0.41
3:F:2:GLN:NE2	6:F:101:HOH:O	2.53	0.41
1:D:6:ILE:HG23	1:D:22:VAL:CG1	2.51	0.40
1:D:110:ASN:HA	2:E:76:AYE:H3	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	315/325 (97%)	294 (93%)	19 (6%)	2 (1%)	21	38
1	D	311/325 (96%)	286 (92%)	24 (8%)	1 (0%)	36	54
2	B	72/76 (95%)	68 (94%)	4 (6%)	0	100	100
2	E	72/76 (95%)	67 (93%)	5 (7%)	0	100	100
3	C	73/75 (97%)	71 (97%)	2 (3%)	0	100	100
3	F	73/75 (97%)	68 (93%)	5 (7%)	0	100	100
All	All	916/952 (96%)	854 (93%)	59 (6%)	3 (0%)	36	54

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	319	GLU
1	D	193	CYS
1	A	210	GLY

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	269/282 (95%)	266 (99%)	3 (1%)	65	81
1	D	265/282 (94%)	264 (100%)	1 (0%)	84	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	67/67 (100%)	67 (100%)	0	100	100
2	E	67/67 (100%)	66 (98%)	1 (2%)	57	77
3	C	66/68 (97%)	66 (100%)	0	100	100
3	F	65/68 (96%)	64 (98%)	1 (2%)	57	77
All	All	799/834 (96%)	793 (99%)	6 (1%)	73	86

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	88	LEU
1	A	296	GLU
1	A	313	THR
1	D	188	VAL
2	E	8	LEU
3	F	70	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	ASN
1	A	90	HIS
1	A	290	HIS
3	C	68	HIS
1	D	16	ASN
1	D	187	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	5MW	B	48	3,2	13,14,15	2.77	6 (46%)	12,17,19	1.68	2 (16%)
2	5MW	E	48	3,2	13,14,15	2.70	5 (38%)	12,17,19	1.73	2 (16%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	5MW	B	48	3,2	-	2/8/10/12	0/1/1/1
2	5MW	E	48	3,2	-	6/8/10/12	0/1/1/1

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	48	5MW	C8-C1	5.59	1.60	1.50
2	B	48	5MW	N1-N3	5.24	1.40	1.32
2	E	48	5MW	N1-N3	5.19	1.40	1.32
2	E	48	5MW	C8-C1	5.18	1.59	1.50
2	E	48	5MW	C2-N2	4.29	1.41	1.34
2	B	48	5MW	C2-N2	4.26	1.41	1.34
2	E	48	5MW	N2-N3	2.59	1.39	1.34
2	B	48	5MW	N2-N3	2.52	1.38	1.34
2	E	48	5MW	C2-C1	2.07	1.40	1.36
2	B	48	5MW	C2-C1	2.05	1.39	1.36
2	B	48	5MW	C1-N1	2.02	1.39	1.36

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	48	5MW	C2-N2-N3	-3.33	107.51	110.75
2	B	48	5MW	C2-N2-N3	-3.07	107.76	110.75
2	E	48	5MW	CD-N2-N3	2.71	126.22	120.78
2	B	48	5MW	CD-N2-N3	2.51	125.82	120.78

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	E	48	5MW	N-CA-CB-CG
2	E	48	5MW	C-CA-CB-CG
2	B	48	5MW	N2-CD-CG-CB
2	E	48	5MW	N2-CD-CG-CB
2	E	48	5MW	CG-CD-N2-C2
2	E	48	5MW	CG-CD-N2-N3
2	B	48	5MW	CA-CB-CG-CD
2	E	48	5MW	CA-CB-CG-CD

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	ACT	A	401	-	3,3,3	0.82	0	3,3,3	1.34	0

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.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	401	ACT	1	0

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	317/325 (97%)	0.32	10 (3%) 50 41	38, 66, 118, 147	0
1	D	313/325 (96%)	0.40	6 (1%) 66 59	46, 77, 143, 215	0
2	B	74/76 (97%)	0.17	0 100 100	56, 76, 90, 102	0
2	E	74/76 (97%)	0.55	1 (1%) 73 67	66, 106, 132, 137	0
3	C	75/75 (100%)	0.37	2 (2%) 56 47	43, 78, 90, 97	0
3	F	75/75 (100%)	0.71	4 (5%) 32 24	49, 81, 97, 155	0
All	All	928/952 (97%)	0.39	23 (2%) 58 49	38, 77, 125, 215	0

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	189	VAL	3.3
2	E	8	LEU	3.1
3	F	74	ARG	2.7
1	A	209	MET	2.7
1	A	6	ILE	2.6
1	A	318	LEU	2.5
3	F	3	ILE	2.5
1	A	294	MET	2.5
1	A	22	VAL	2.4
1	A	295	SER	2.4
1	D	217	LEU	2.4
1	D	224	PRO	2.3
1	D	270	GLN	2.3
3	F	42	ARG	2.3
3	F	51	GLU	2.3
1	D	4	LYS	2.2
1	A	107	TRP	2.2
1	A	312	THR	2.2
3	C	59	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	317	PRO	2.2
1	A	28	TYR	2.1
3	C	52	ASP	2.1
1	D	107	TRP	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	5MW	E	48	14/15	0.86	0.12	89,93,142,202	0
2	5MW	B	48	14/15	0.90	0.10	51,65,86,89	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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(Å ²)	Q<0.9
4	ACT	A	401	4/4	0.78	0.26	71,78,79,92	0
5	NI	A	402	1/1	0.97	0.04	90,90,90,90	0

6.5 Other polymers [i](#)

There are no such residues in this entry.