



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 08:40 PM UTC

PDB ID : 5PWU / pdb_00005pwu
Title : PanDDA analysis group deposition – Crystal Structure of SP100 after initial refinement with no ligand modelled (structure 18)
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Deposited on : 2017-02-08
Resolution : 1.44 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)

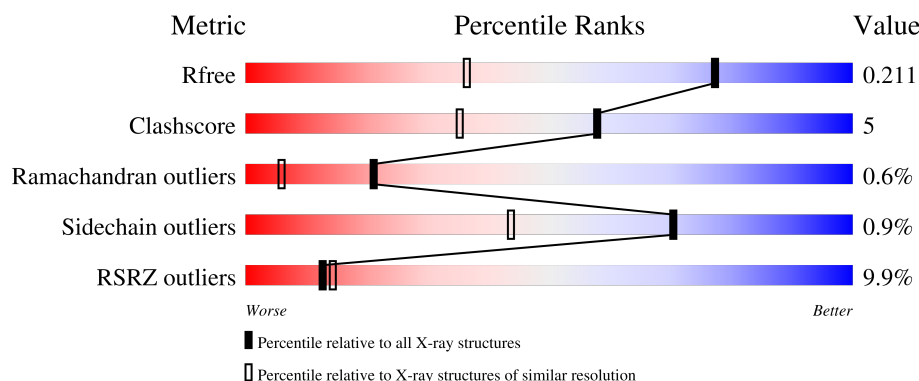
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.44 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	3234 (1.46-1.42)
Clashscore	190562	3289 (1.46-1.42)
Ramachandran outliers	187476	3248 (1.46-1.42)
Sidechain outliers	187428	3248 (1.46-1.42)
RSRZ outliers	180081	3234 (1.46-1.42)

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	180	7% 82% 16% ..
1	B	180	12% 74% 23% ..

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3620 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 Nuclear autoantigen Sp-100.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	178	Total	C	N	O	S	0	10	0
			1536	971	268	278	19			
1	B	177	Total	C	N	O	S	0	7	0
			1480	940	258	263	19			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	Zn	0	0
			3	3		
2	B	2	Total	Zn	0	0
			2	2		

- Molecule 3 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: C₆H₁₃NO₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

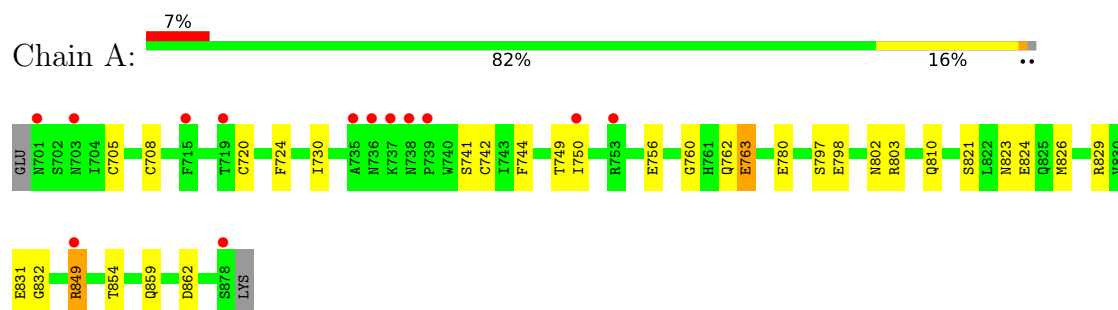
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	311	Total	O	0	3
			311	311		
5	B	268	Total	O	0	0
			268	268		

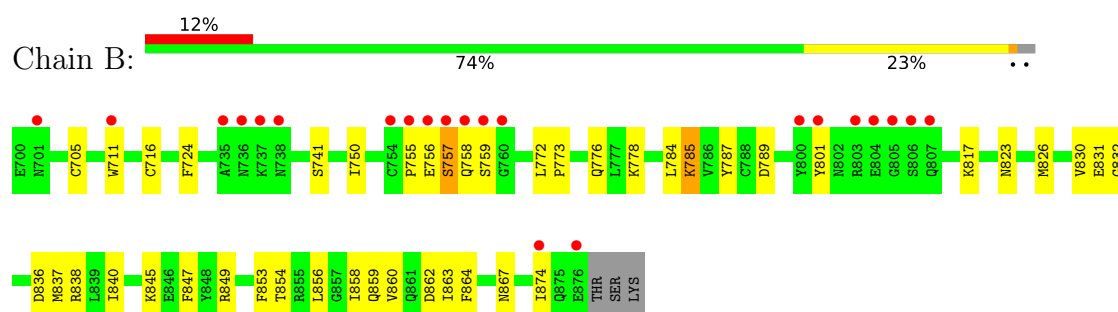
3 Residue-property plots [i](#)

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: Nuclear autoantigen Sp-100



• Molecule 1: Nuclear autoantigen Sp-100



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	127.69Å 45.34Å 83.36Å 90.00° 102.35° 90.00°	Depositor
Resolution (Å)	36.67 – 1.44 36.67 – 1.44	Depositor EDS
% Data completeness (in resolution range)	97.8 (36.67-1.44) 97.8 (36.67-1.44)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.26 (at 1.44Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.175 , 0.203 0.184 , 0.211	Depositor DCC
R_{free} test set	4255 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	18.4	Xtriage
Anisotropy	0.034	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 41.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3620	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.19% 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: MES, EDO, ZN

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	1.67	17/1603 (1.1%)	1.42	10/2154 (0.5%)
1	B	1.80	26/1538 (1.7%)	1.43	14/2071 (0.7%)
All	All	1.73	43/3141 (1.4%)	1.43	24/4225 (0.6%)

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
1	B	0	1

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	724	PHE	CA-C	-8.15	1.42	1.52
1	B	801	TYR	CA-C	7.51	1.56	1.52
1	B	864	PHE	N-CA	7.29	1.55	1.46
1	A	742	CYS	CB-SG	-7.26	1.57	1.81
1	A	720	CYS	C-O	-7.26	1.17	1.24
1	B	860	VAL	C-O	-6.99	1.15	1.24
1	B	772	LEU	CA-C	6.84	1.61	1.53
1	A	705	CYS	N-CA	6.73	1.54	1.46
1	B	845	LYS	N-CA	6.72	1.54	1.46
1	A	730	ILE	CA-C	6.63	1.59	1.52
1	B	823	ASN	CG-ND2	-6.60	1.19	1.33
1	B	789	ASP	CA-C	-6.50	1.44	1.52
1	A	859	GLN	N-CA	-6.48	1.38	1.46
1	B	840	ILE	CA-C	6.44	1.60	1.52
1	B	724	PHE	C-O	6.25	1.31	1.23
1	B	837	MET	N-CA	6.18	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	744	PHE	N-CA	-6.10	1.39	1.46
1	B	778	LYS	CA-C	-6.10	1.44	1.52
1	B	858	ILE	CA-CB	6.04	1.62	1.54
1	A	741	SER	CA-C	6.02	1.59	1.52
1	B	705	CYS	N-CA	5.99	1.53	1.46
1	A	760	GLY	C-O	5.82	1.29	1.23
1	A	708	CYS	N-CA	5.79	1.53	1.46
1	B	853	PHE	N-CA	5.79	1.53	1.46
1	B	859	GLN	CA-C	5.76	1.60	1.52
1	B	847	PHE	N-CA	-5.76	1.38	1.46
1	B	832	GLY	CA-C	5.74	1.58	1.52
1	A	742	CYS	N-CA	5.71	1.53	1.45
1	B	836	ASP	CA-C	5.71	1.60	1.52
1	B	864	PHE	CA-CB	-5.65	1.44	1.53
1	A	763	GLU	CD-OE1	-5.58	1.14	1.25
1	B	837	MET	CA-CB	-5.57	1.44	1.53
1	B	830	VAL	N-CA	5.46	1.53	1.46
1	B	823	ASN	N-CA	5.37	1.52	1.46
1	A	831	GLU	CA-C	5.17	1.59	1.52
1	A	832	GLY	C-O	5.17	1.30	1.23
1	B	784	LEU	N-CA	5.17	1.52	1.46
1	B	741	SER	C-O	5.16	1.30	1.24
1	B	838	ARG	CZ-NH2	-5.14	1.26	1.33
1	A	797	SER	CB-OG	-5.14	1.31	1.42
1	A	763	GLU	N-CA	5.13	1.52	1.46
1	A	823	ASN	C-O	5.04	1.30	1.24
1	A	749	THR	N-CA	5.02	1.52	1.46

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	831	GLU	N-CA-C	6.87	119.64	111.33
1	B	789	ASP	O-C-N	-6.76	115.14	123.04
1	B	836	ASP	O-C-N	6.57	129.64	122.15
1	A	849	ARG	CB-CA-C	-6.38	108.55	117.23
1	B	785	LYS	O-C-N	-6.22	115.53	122.12
1	B	832	GLY	O-C-N	6.20	128.14	122.19
1	B	756	GLU	N-CA-C	-5.87	98.17	108.20
1	A	742	CYS	CA-CB-SG	5.72	127.56	114.40
1	B	863	ILE	O-C-N	5.66	127.45	121.91
1	B	787	TYR	CA-C-O	-5.56	113.81	120.10
1	A	724	PHE	N-CA-C	5.52	118.19	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	724	PHE	O-C-N	-5.43	117.06	123.41
1	A	730	ILE	O-C-N	5.30	127.14	121.10
1	B	840	ILE	O-C-N	5.30	127.24	121.94
1	B	778	LYS	O-C-N	-5.20	116.61	122.12
1	A	798	GLU	CA-C-N	5.16	125.36	120.31
1	A	798	GLU	C-N-CA	5.16	125.36	120.31
1	A	780	GLU	CA-C-N	5.11	127.39	120.44
1	A	780	GLU	O-C-N	-5.11	116.70	122.12
1	A	780	GLU	C-N-CA	5.11	127.39	120.44
1	A	750	ILE	CB-CA-C	-5.09	105.45	111.97
1	B	867	ASN	O-C-N	5.05	128.49	122.27
1	B	776	GLN	O-C-N	5.04	127.27	122.07
1	B	856	LEU	O-C-N	5.02	127.44	122.12

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	755	PRO	Peptide

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	1536	0	1496	12	0
1	B	1480	0	1414	11	0
2	A	3	0	0	0	0
2	B	2	0	0	0	0
3	A	12	0	12	2	0
4	A	4	0	6	3	0
4	B	4	0	6	1	0
5	A	311	0	0	11	2
5	B	268	0	0	8	4
All	All	3620	0	2934	27	5

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 5.

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)
1:A:803[A]:ARG:NH2	5:A:1001:HOH:O	1.66	1.24
1:A:803[B]:ARG:NH1	5:A:1003:HOH:O	1.86	1.08
1:A:829[A]:ARG:NH1	5:A:1002:HOH:O	1.85	1.08
3:A:904:MES:H81	5:A:1225:HOH:O	1.65	0.96
1:B:826[B]:MET:HE2	5:B:1197:HOH:O	1.72	0.89
1:A:756:GLU:HG3	5:A:1089:HOH:O	1.77	0.82
1:B:750:ILE:HD11	5:B:1001:HOH:O	1.86	0.74
1:B:826[B]:MET:SD	5:B:1015:HOH:O	2.46	0.72
1:A:862[A]:ASP:OD1	5:A:1004:HOH:O	2.07	0.71
1:A:824:GLU:OE1	1:A:826[B]:MET:HE2	1.91	0.69
5:A:1001:HOH:O	1:B:773:PRO:HG2	1.93	0.68
4:B:903:EDO:O2	5:B:1001:HOH:O	2.09	0.68
1:B:716[A]:CYS:SG	5:B:1156:HOH:O	2.53	0.66
1:B:849:ARG:O	1:B:854[B]:THR:HG21	1.98	0.63
1:B:757:SER:O	1:B:759:SER:N	2.35	0.59
1:A:802:ASN:O	3:A:904:MES:H32	2.02	0.58
4:A:905:EDO:H21	5:A:1054:HOH:O	2.04	0.57
1:B:817:LYS:NZ	5:B:1006:HOH:O	2.39	0.55
4:A:905:EDO:C2	5:A:1054:HOH:O	2.57	0.53
1:A:762:GLN:NE2	5:A:1008:HOH:O	2.43	0.51
1:B:757:SER:C	1:B:759:SER:N	2.70	0.49
1:B:785:LYS:HE3	5:B:1223:HOH:O	2.12	0.48
1:B:854[A]:THR:HG21	5:B:1007:HOH:O	2.13	0.47
1:A:810:GLN:NE2	5:A:1009:HOH:O	2.48	0.46
1:A:849:ARG:O	1:A:854[B]:THR:HG21	2.17	0.44
1:A:763:GLU:OE2	4:A:905:EDO:O1	2.34	0.44
1:A:821:SER:HA	1:A:826[B]:MET:HE3	2.01	0.42

All (5) 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)
5:B:1224:HOH:O	5:B:1224:HOH:O[2_555]	1.60	0.60
5:A:1103:HOH:O	5:A:1240:HOH:O[1_545]	1.88	0.32
5:B:1020:HOH:O	5:B:1020:HOH:O[2_556]	1.91	0.29
5:A:1161:HOH:O	5:B:1018:HOH:O[3_545]	2.13	0.07
5:B:1041:HOH:O	5:B:1156:HOH:O[2_556]	2.17	0.03

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	186/180 (103%)	182 (98%)	4 (2%)	0	100	100
1	B	182/180 (101%)	173 (95%)	7 (4%)	2 (1%)	11	2
All	All	368/360 (102%)	355 (96%)	11 (3%)	2 (0%)	21	7

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	757	SER
1	B	758	GLN

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	178/171 (104%)	178 (100%)	0	100	100
1	B	165/171 (96%)	161 (98%)	4 (2%)	43	11
All	All	343/342 (100%)	339 (99%)	4 (1%)	70	32

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	711	TRP
1	B	862[A]	ASP
1	B	862[B]	ASP
1	B	874	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	758	GLN
1	A	761	HIS
1	A	816	ASN
1	B	701	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 5 are monoatomic - leaving 3 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	$\# Z > 2$
3	MES	A	904	-	12,12,12	0.67	0	15,16,16	2.84	5 (33%)
4	EDO	B	903	-	3,3,3	0.74	0	2,2,2	0.59	0
4	EDO	A	905	-	3,3,3	0.55	0	2,2,2	0.09	0

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
3	MES	A	904	-	-	1/6/14/14	0/1/1/1
4	EDO	B	903	-	-	0/1/1/1	-
4	EDO	A	905	-	-	1/1/1/1	-

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	904	MES	C5-N4-C3	7.01	123.95	108.84
3	A	904	MES	C7-N4-C3	4.76	123.94	111.24
3	A	904	MES	C6-C5-N4	4.07	116.31	110.12
3	A	904	MES	C6-O1-C2	3.58	121.45	109.88
3	A	904	MES	C2-C3-N4	3.56	115.54	110.12

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	904	MES	C8-C7-N4-C3
4	A	905	EDO	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	904	MES	2	0
4	B	903	EDO	1	0
4	A	905	EDO	3	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	178/180 (98%)	0.24	13 (7%) 21 22	11, 20, 49, 97	10 (5%)
1	B	177/180 (98%)	0.49	22 (12%) 8 10	11, 22, 76, 128	7 (3%)
All	All	355/360 (98%)	0.37	35 (9%) 13 14	11, 21, 65, 128	17 (4%)

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	735	ALA	5.8
1	B	757	SER	4.3
1	B	711	TRP	4.2
1	B	800	TYR	4.2
1	B	756	GLU	3.9
1	B	758	GLN	3.9
1	A	736	ASN	3.7
1	B	759	SER	3.6
1	B	806	SER	3.6
1	A	738	ASN	3.3
1	A	878	SER	3.2
1	B	760	GLY	3.2
1	B	804	GLU	3.0
1	A	739	PRO	2.9
1	B	735	ALA	2.9
1	B	803	ARG	2.8
1	A	737	LYS	2.8
1	B	738	ASN	2.8
1	B	807	GLN	2.6
1	A	703	ASN	2.6
1	B	805	GLY	2.5
1	B	876	GLU	2.5
1	B	737	LYS	2.5
1	B	801	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	701	ASN	2.4
1	A	750	ILE	2.4
1	B	736	ASN	2.4
1	B	755	PRO	2.3
1	A	849	ARG	2.3
1	B	754	CYS	2.3
1	A	719	THR	2.3
1	A	701	ASN	2.3
1	B	874	ILE	2.2
1	A	715	PHE	2.1
1	A	753	ARG	2.1

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](#)

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	ZN	A	903	1/1	0.45	0.18	95,95,95,95	1
4	EDO	A	905	4/4	0.79	0.16	43,52,56,65	0
2	ZN	A	902	1/1	0.93	0.07	27,27,27,27	0
4	EDO	B	903	4/4	0.96	0.07	27,28,29,30	0
2	ZN	A	901	1/1	0.97	0.05	21,21,21,21	0
3	MES	A	904	12/12	0.97	0.08	15,20,22,22	12
2	ZN	B	902	1/1	0.98	0.04	21,21,21,21	0
2	ZN	B	901	1/1	0.98	0.04	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.