



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:56 PM UTC

PDB ID : 5PXB / pdb_00005pxb
Title : PanDDA analysis group deposition – Crystal Structure of SP100 after initial refinement with no ligand modelled (structure 35)
Authors : Pearce, N.M.; Krojer, T.; Talon, R.; Bradley, A.R.; Fairhead, M.; Sethi, R.; Wright, N.; MacLean, E.; Collins, P.; Brandao-Neto, J.; Douangamath, A.; Renjie, Z.; Dias, A.; Ng, J.; Brennan, P.E.; Cox, O.; Bountra, C.; Arrowsmith, C.H.; Edwards, A.; von Delft, F.
Deposited on : 2017-02-08
Resolution : 1.46 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)

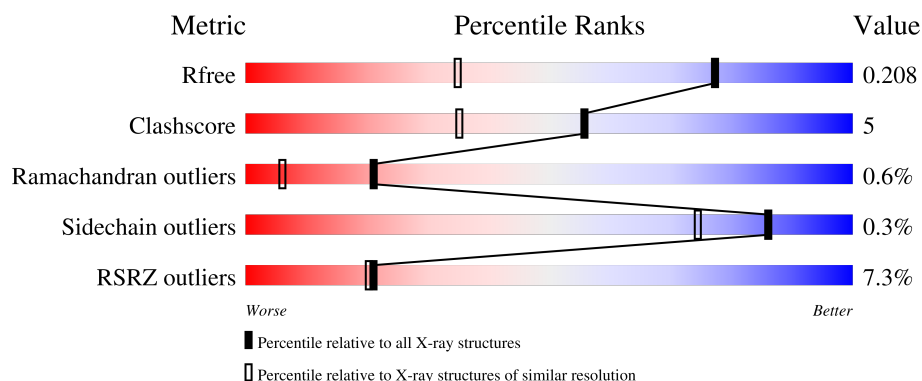
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.46 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	1756 (1.46-1.46)
Clashscore	190562	1795 (1.46-1.46)
Ramachandran outliers	187476	1776 (1.46-1.46)
Sidechain outliers	187428	1776 (1.46-1.46)
RSRZ outliers	180081	1756 (1.46-1.46)

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	4% 82% 17% .
1	B	180	10% 76% 21% ..

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.

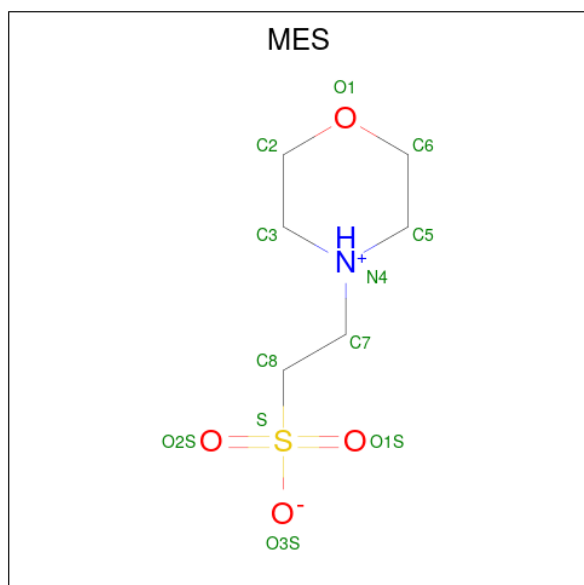
- Molecule 1 is a protein called Nuclear autoantigen Sp-100.

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		

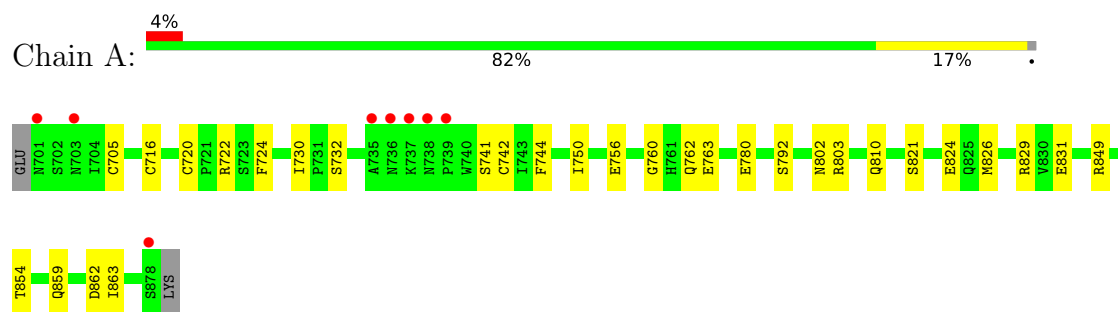
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	314	Total	O	0	3
			314	314		
5	B	265	Total	O	0	0
			265	265		

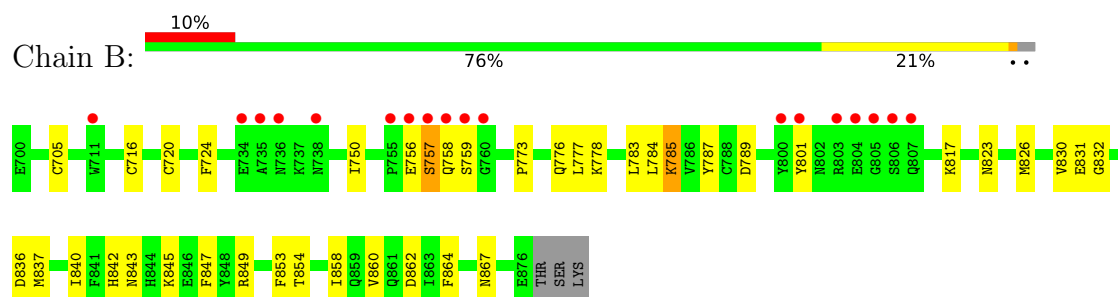
3 Residue-property plots [i](#)

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	127.74Å 45.34Å 83.28Å 90.00° 102.32° 90.00°	Depositor
Resolution (Å)	28.41 – 1.46 28.41 – 1.46	Depositor EDS
% Data completeness (in resolution range)	97.2 (28.41-1.46) 97.4 (28.41-1.46)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 1.46Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.174 , 0.201 0.183 , 0.208	Depositor DCC
R_{free} test set	4100 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	18.6	Xtriage
Anisotropy	0.016	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 42.6	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)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.71% 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: ZN, MES, EDO

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	1.61	15/1603 (0.9%)	1.35	7/2154 (0.3%)
1	B	1.74	22/1538 (1.4%)	1.40	12/2071 (0.6%)
All	All	1.68	37/3141 (1.2%)	1.38	19/4225 (0.4%)

All (37) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	864	PHE	N-CA	8.67	1.56	1.46
1	B	801	TYR	CA-C	8.11	1.57	1.52
1	B	837	MET	N-CA	7.17	1.55	1.46
1	B	830	VAL	N-CA	6.98	1.54	1.46
1	B	789	ASP	CA-C	-6.92	1.43	1.52
1	B	724	PHE	CA-C	-6.69	1.44	1.52
1	A	730	ILE	CA-C	6.64	1.59	1.52
1	B	858	ILE	CA-CB	6.22	1.62	1.54
1	B	823	ASN	CG-ND2	-6.18	1.20	1.33
1	A	760	GLY	C-O	6.17	1.30	1.23
1	A	741	SER	CA-C	6.10	1.59	1.52
1	A	831	GLU	CA-C	6.07	1.60	1.52
1	B	847	PHE	N-CA	-5.83	1.38	1.46
1	A	720	CYS	C-O	-5.83	1.18	1.24
1	B	845	LYS	N-CA	5.77	1.53	1.46
1	B	785	LYS	CA-C	-5.72	1.45	1.52
1	A	863	ILE	CA-CB	5.70	1.61	1.54
1	A	724	PHE	CA-C	-5.69	1.45	1.52
1	B	783	LEU	CA-C	5.68	1.60	1.52
1	A	763	GLU	N-CA	5.67	1.53	1.46
1	A	859	GLN	N-CA	-5.62	1.39	1.46
1	A	705	CYS	N-CA	5.56	1.53	1.46
1	B	843	ASN	N-CA	-5.54	1.39	1.46
1	B	777	LEU	C-O	5.51	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	742	CYS	CB-SG	-5.39	1.63	1.81
1	B	860	VAL	C-O	-5.35	1.17	1.24
1	A	744	PHE	N-CA	-5.35	1.39	1.46
1	B	705	CYS	N-CA	5.32	1.52	1.46
1	B	784	LEU	N-CA	5.30	1.52	1.46
1	B	867	ASN	C-O	-5.30	1.17	1.24
1	B	853	PHE	N-CA	5.22	1.53	1.46
1	B	864	PHE	CA-CB	-5.20	1.45	1.53
1	A	716	CYS	N-CA	-5.19	1.39	1.46
1	A	722	ARG	CZ-NH2	-5.17	1.26	1.33
1	B	720	CYS	C-N	5.16	1.38	1.33
1	A	732	SER	N-CA	5.15	1.52	1.46
1	B	832	GLY	CA-C	5.08	1.57	1.52

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	831	GLU	N-CA-C	6.55	119.26	111.33
1	B	840	ILE	O-C-N	6.41	128.35	121.94
1	A	730	ILE	O-C-N	6.36	128.35	121.10
1	B	778	LYS	O-C-N	-6.13	115.62	122.12
1	B	832	GLY	O-C-N	6.07	128.08	122.19
1	B	785	LYS	O-C-N	-6.00	115.77	122.12
1	B	836	ASP	O-C-N	5.73	128.68	122.15
1	B	776	GLN	O-C-N	5.55	127.79	122.07
1	A	780	GLU	CA-C-N	5.54	128.15	120.29
1	A	780	GLU	C-N-CA	5.54	128.15	120.29
1	A	742	CYS	CA-CB-SG	5.38	126.77	114.40
1	B	778	LYS	CA-C-O	5.36	126.23	120.55
1	A	724	PHE	N-CA-C	5.31	117.84	108.75
1	A	792	SER	N-CA-C	5.28	118.82	112.38
1	B	867	ASN	O-C-N	5.26	128.75	122.27
1	B	756	GLU	N-CA-C	-5.23	99.25	108.20
1	B	787	TYR	CA-C-O	-5.21	114.21	120.10
1	B	789	ASP	O-C-N	-5.21	116.94	123.04
1	A	750	ILE	CB-CA-C	-5.03	105.53	111.97

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	1536	0	1496	12	0
1	B	1480	0	1414	12	0
2	A	3	0	0	0	0
2	B	2	0	0	0	0
3	A	12	0	12	3	0
4	A	4	0	6	3	0
4	B	4	0	6	0	0
5	A	314	0	0	12	0
5	B	265	0	0	8	2
All	All	3620	0	2934	28	2

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 (28) 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	1.68	1.25
1:A:829[A]:ARG:NH1	5:A:1002:HOH:O	1.93	0.94
1:A:803[B]:ARG:NH1	5:A:1003:HOH:O	2.01	0.92
3:A:904:MES:H81	5:A:1221:HOH:O	1.74	0.86
1:A:756:GLU:HG3	5:A:1100:HOH:O	1.77	0.84
1:B:826[B]:MET:HE2	5:B:1204:HOH:O	1.78	0.83
1:A:824:GLU:OE1	1:A:826[B]:MET:HE2	1.83	0.77
1:B:826[B]:MET:SD	5:B:1009:HOH:O	2.51	0.68
1:A:862[A]:ASP:OD1	5:A:1004:HOH:O	2.13	0.66
5:A:1001:HOH:O	1:B:773:PRO:HG2	1.95	0.65
1:B:750:ILE:HD11	5:B:1002:HOH:O	1.97	0.63
1:B:849:ARG:O	1:B:854[B]:THR:HG21	2.00	0.62
1:B:757:SER:O	1:B:759:SER:N	2.32	0.57
1:A:762:GLN:NE2	5:A:1006:HOH:O	2.39	0.55
1:A:802:ASN:O	3:A:904:MES:H32	2.06	0.55
1:B:757:SER:C	1:B:759:SER:N	2.69	0.50
4:A:905:EDO:C2	5:A:1046:HOH:O	2.60	0.50
1:B:785:LYS:HE3	5:B:1227:HOH:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:905:EDO:H21	5:A:1046:HOH:O	2.12	0.50
1:A:803[A]:ARG:NE	3:A:904:MES:O1S	2.32	0.49
1:B:817:LYS:NZ	5:B:1008:HOH:O	2.46	0.48
1:B:842:HIS:ND1	5:B:1006:HOH:O	2.35	0.48
1:A:849:ARG:O	1:A:854[B]:THR:HG21	2.15	0.47
1:B:854[A]:THR:HG21	5:B:1015:HOH:O	2.17	0.44
4:A:905:EDO:H11	5:A:1240:HOH:O	2.19	0.42
1:B:716[A]:CYS:SG	5:B:1143:HOH:O	2.61	0.42
1:A:810:GLN:NE2	5:A:1018:HOH:O	2.53	0.41
1:A:821:SER:HA	1:A:826[B]:MET:HE3	2.02	0.40

All (2) 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:1025:HOH:O	5:B:1025:HOH:O[2_556]	1.60	0.60
5:B:1226:HOH:O	5:B:1226:HOH:O[2_555]	1.68	0.52

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	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%)	163 (99%)	2 (1%)	63	33
All	All	343/342 (100%)	341 (99%)	2 (1%)	86	58

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	862[A]	ASP
1	B	862[B]	ASP

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	758	GLN
1	A	761	HIS
1	A	816	ASN
1	B	701	ASN
1	B	875	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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
4	EDO	A	905	-	3,3,3	0.49	0	2,2,2	0.28	0
4	EDO	B	903	-	3,3,3	0.78	0	2,2,2	0.63	0
3	MES	A	904	-	12,12,12	0.73	0	15,16,16	2.77	6 (40%)

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
4	EDO	A	905	-	-	1/1/1/1	-
4	EDO	B	903	-	-	0/1/1/1	-
3	MES	A	904	-	-	2/6/14/14	0/1/1/1

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	904	MES	C5-N4-C3	6.60	123.05	108.84
3	A	904	MES	C6-O1-C2	4.31	123.80	109.88
3	A	904	MES	C6-C5-N4	3.90	116.04	110.12
3	A	904	MES	C2-C3-N4	3.72	115.78	110.12
3	A	904	MES	C7-N4-C3	3.49	120.55	111.24
3	A	904	MES	C8-C7-N4	2.18	120.60	112.36

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	904	MES	C8-C7-N4-C3

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Mol	Chain	Res	Type	Atoms
4	A	905	EDO	O1-C1-C2-O2
3	A	904	MES	C8-C7-N4-C5

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	905	EDO	3	0
3	A	904	MES	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%)	0.12	8 (4%) 38 41	11, 20, 49, 94	10 (5%)
1	B	177/180 (98%)	0.41	18 (10%) 12 12	12, 22, 74, 130	7 (3%)
All	All	355/360 (98%)	0.27	26 (7%) 21 20	11, 22, 66, 130	17 (4%)

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	735	ALA	5.1
1	B	806	SER	4.4
1	B	711	TRP	4.2
1	B	800	TYR	4.2
1	B	757	SER	4.2
1	B	759	SER	4.1
1	B	804	GLU	3.9
1	B	758	GLN	3.4
1	B	803	ARG	3.4
1	B	760	GLY	3.2
1	B	756	GLU	3.2
1	A	878	SER	3.1
1	B	807	GLN	3.0
1	B	801	TYR	3.0
1	A	736	ASN	3.0
1	A	738	ASN	2.9
1	B	805	GLY	2.9
1	A	739	PRO	2.8
1	B	735	ALA	2.7
1	A	737	LYS	2.5
1	B	738	ASN	2.5
1	A	701	ASN	2.4
1	A	703	ASN	2.3
1	B	755	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	736	ASN	2.1
1	B	734	GLU	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](#)

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	0.47	0.20	81,81,81,81	1
4	EDO	A	905	4/4	0.80	0.14	44,53,58,66	0
2	ZN	A	902	1/1	0.93	0.07	27,27,27,27	0
3	MES	A	904	12/12	0.96	0.10	15,19,23,23	12
2	ZN	A	901	1/1	0.96	0.05	21,21,21,21	0
4	EDO	B	903	4/4	0.96	0.07	29,29,30,30	0
2	ZN	B	902	1/1	0.98	0.04	21,21,21,21	0
2	ZN	B	901	1/1	0.98	0.03	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.