



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 06:07 PM UTC

PDB ID : 5PYS / pdb_00005pys
Title : PanDDA analysis group deposition – Crystal Structure of SP100 after initial refinement with no ligand modelled (structure 88)
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Deposited on : 2017-02-08
Resolution : 2.09 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)

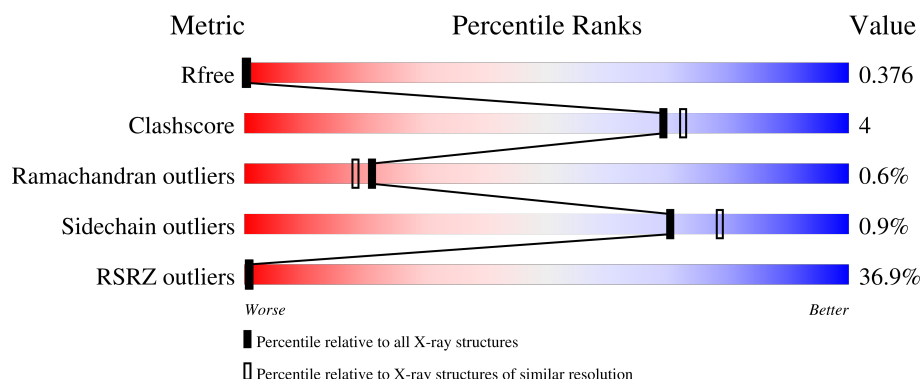
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.09 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	33% 92% 7%
1	B	180	39% 92% 6%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Validation Pipeline (wwPDB-VP) : 2.49

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	ZN	A	903	-	-	-	X

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.

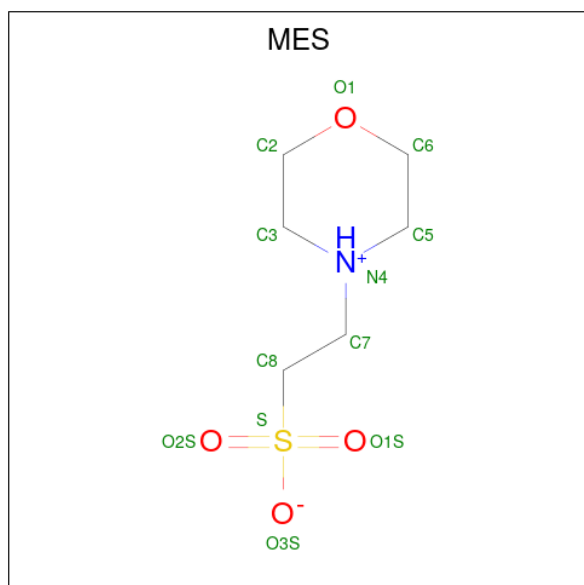
- Molecule 1 is a protein called Nuclear autoantigen Sp-100.

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).

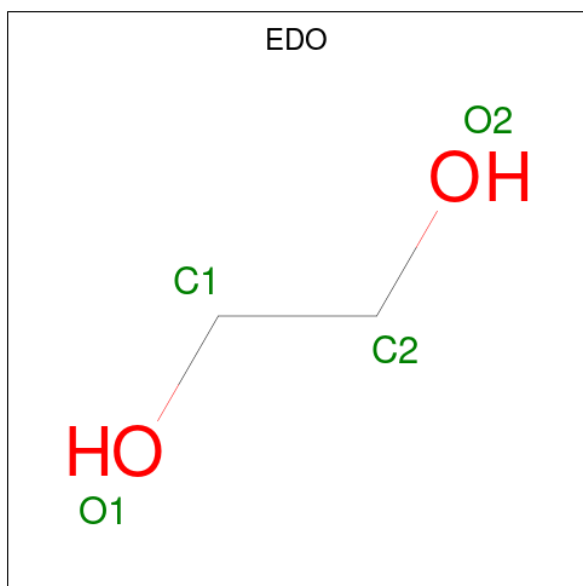
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	Zn	0	0
			3	3		
2	B	2	Total	Zn	0	0
			2	2		

- 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		

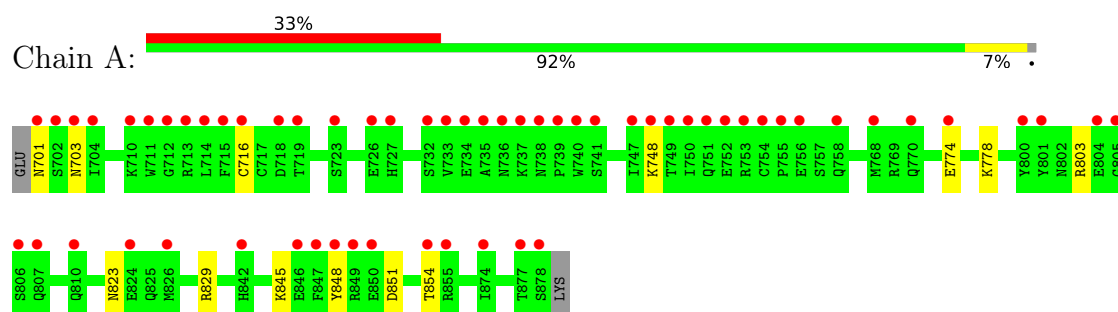
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	317	Total	O	0	3
			317	317		
5	B	262	Total	O	0	0
			262	262		

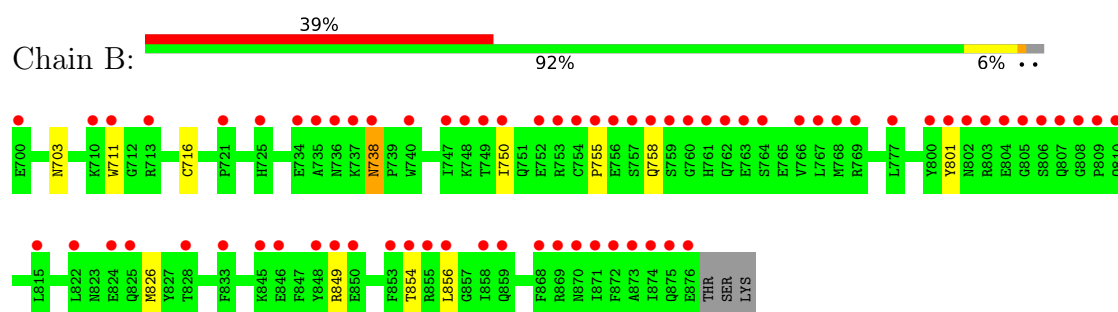
3 Residue-property plots [i](#)

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	127.62Å 45.64Å 83.75Å 90.00° 101.81° 90.00°	Depositor
Resolution (Å)	39.13 – 2.09 39.13 – 2.09	Depositor EDS
% Data completeness (in resolution range)	89.0 (39.13-2.09) 89.0 (39.13-2.09)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.59 (at 2.08Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.297 , 0.361 0.309 , 0.376	Depositor DCC
R_{free} test set	1370 reflections (4.83%)	wwPDB-VP
Wilson B-factor (Å ²)	-2.8	Xtriage
Anisotropy	105.031	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 47.9	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	0.59	EDS
Total number of atoms	3620	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.26% 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: 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	0.92	0/1603	1.00	0/2154
1	B	0.98	1/1538 (0.1%)	1.00	0/2071
All	All	0.95	1/3141 (0.0%)	1.00	0/4225

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	801	TYR	CA-C	7.81	1.56	1.52

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	1536	0	1497	10	0
1	B	1480	0	1414	8	0
2	A	3	0	0	0	0
2	B	2	0	0	0	0
3	A	12	0	13	2	0
4	A	4	0	6	0	0
4	B	4	0	6	1	0
5	A	317	0	0	8	2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	262	0	0	7	3
All	All	3620	0	2936	21	4

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 4.

All (21) 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:B:703:ASN:O	5:B:1001:HOH:O	1.78	1.01
1:A:829[A]:ARG:NH1	5:A:1001:HOH:O	2.04	0.91
4:B:903:EDO:O2	5:B:1002:HOH:O	2.04	0.76
1:A:803[B]:ARG:NH1	5:A:1003:HOH:O	2.18	0.75
1:A:803[A]:ARG:NH2	5:A:1002:HOH:O	2.08	0.72
1:B:826[B]:MET:SD	5:B:1023:HOH:O	2.49	0.69
3:A:904:MES:H81	5:A:1223:HOH:O	1.96	0.64
1:B:738:ASN:N	5:B:1009:HOH:O	2.44	0.51
1:A:774[A]:GLU:HG2	1:A:778[A]:LYS:NZ	2.28	0.48
1:B:826[B]:MET:HE2	5:B:1227:HOH:O	2.15	0.47
1:B:750:ILE:HD11	5:B:1002:HOH:O	2.14	0.46
1:A:748:LYS:HE3	5:A:1253:HOH:O	2.16	0.44
1:A:823:ASN:ND2	5:A:1009:HOH:O	2.40	0.43
1:A:803[A]:ARG:NH2	1:A:851:ASP:OD2	2.52	0.43
1:B:849:ARG:O	1:B:854[B]:THR:HG21	2.19	0.43
1:A:848:TYR:HB2	1:A:854[B]:THR:HG22	2.02	0.42
1:B:856:LEU:HD11	5:B:1046:HOH:O	2.20	0.42
3:A:904:MES:C8	5:A:1223:HOH:O	2.59	0.41
1:A:701:ASN:ND2	1:A:716:CYS:HB3	2.35	0.41
1:A:845[A]:LYS:NZ	5:A:1029:HOH:O	2.54	0.41

All (4) 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:1176:HOH:O	5:B:1176:HOH:O[2_556]	0.60	1.60
5:B:1167:HOH:O	5:B:1167:HOH:O[2_555]	1.45	0.75
5:A:1040:HOH:O	5:A:1236:HOH:O[1_545]	1.72	0.48
5:A:1088:HOH:O	5:B:1095:HOH:O[3_545]	2.16	0.04

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%)	171 (94%)	9 (5%)	2 (1%)	11	8
All	All	368/360 (102%)	353 (96%)	13 (4%)	2 (0%)	21	22

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	758	GLN
1	B	755	PRO

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%)	177 (99%)	1 (1%)	78	86
1	B	165/171 (96%)	163 (99%)	2 (1%)	63	72
All	All	343/342 (100%)	340 (99%)	3 (1%)	70	78

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

Mol	Chain	Res	Type
1	A	703	ASN
1	B	711	TRP
1	B	738	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	701	ASN
1	A	859	GLN
1	B	701	ASN
1	B	709	ASN
1	B	761	HIS
1	B	770	GLN
1	B	842	HIS
1	B	843	ASN
1	B	870	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	2.02	1 (8%)	15,16,16	2.14	2 (13%)
4	EDO	B	903	-	3,3,3	0.35	0	2,2,2	0.33	0
4	EDO	A	905	-	3,3,3	0.54	0	2,2,2	0.12	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	-	-	5/6/14/14	0/1/1/1
4	EDO	B	903	-	-	0/1/1/1	-
4	EDO	A	905	-	-	1/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	904	MES	C8-S	-6.21	1.68	1.77

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	904	MES	O2S-S-C8	6.21	116.12	106.73
3	A	904	MES	C6-C5-N4	3.71	115.76	110.12

There are no chirality outliers.

All (6) 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
3	A	904	MES	C7-C8-S-O3S
3	A	904	MES	C7-C8-S-O1S
3	A	904	MES	C7-C8-S-O2S
3	A	904	MES	C8-C7-N4-C5

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	904	MES	2	0
4	B	903	EDO	1	0

5.7 Other polymers ⓘ

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

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%)	1.93	60 (33%) 1 1	11, 26, 63, 105	10 (5%)
1	B	177/180 (98%)	2.22	71 (40%) 0 1	12, 26, 95, 145	7 (3%)
All	All	355/360 (98%)	2.07	131 (36%) 1 1	11, 26, 80, 145	17 (4%)

All (131) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	757	SER	9.5
1	B	755	PRO	8.6
1	B	738	ASN	8.3
1	A	738	ASN	7.9
1	B	805	GLY	7.9
1	B	759	SER	7.6
1	A	736	ASN	7.5
1	A	735	ALA	7.3
1	B	800	TYR	7.2
1	A	750	ILE	7.1
1	B	756	GLU	7.1
1	B	876	GLU	6.8
1	A	737	LYS	6.6
1	B	758	GLN	6.6
1	B	806	SER	6.3
1	B	735	ALA	6.1
1	B	737	LYS	6.0
1	B	711	TRP	5.8
1	A	740	TRP	5.8
1	A	739	PRO	5.8
1	B	801	TYR	5.6
1	B	803	ARG	5.6
1	A	878	SER	5.5
1	B	736	ASN	5.5

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Mol	Chain	Res	Type	RSRZ
1	A	807	GLN	5.4
1	A	753	ARG	5.3
1	B	754	CYS	5.3
1	A	752	GLU	5.0
1	B	804	GLU	5.0
1	A	758	GLN	4.9
1	B	802	ASN	4.8
1	B	807	GLN	4.8
1	A	701	ASN	4.6
1	B	760	GLY	4.5
1	B	762	GLN	4.5
1	B	700	GLU	4.4
1	A	715	PHE	4.3
1	A	801	TYR	4.3
1	B	753	ARG	4.2
1	B	761	HIS	4.2
1	A	877	THR	4.2
1	A	755	PRO	4.1
1	B	808	GLY	3.9
1	B	810	GLN	3.9
1	A	754[A]	CYS	3.9
1	A	704	ILE	3.8
1	A	748	LYS	3.7
1	A	824	GLU	3.7
1	B	875	GLN	3.7
1	A	768	MET	3.6
1	A	850	GLU	3.6
1	A	800	TYR	3.6
1	A	703	ASN	3.6
1	B	850[A]	GLU	3.6
1	A	719	THR	3.5
1	A	733	VAL	3.5
1	A	734	GLU	3.5
1	B	809	PRO	3.4
1	B	874	ILE	3.4
1	A	702	SER	3.3
1	A	716	CYS	3.3
1	A	741	SER	3.3
1	B	849	ARG	3.3
1	B	873	ALA	3.2
1	A	751	GLN	3.2
1	A	756	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	711	TRP	3.1
1	B	749	THR	3.1
1	A	849	ARG	3.1
1	A	714	LEU	3.1
1	B	848	TYR	3.0
1	A	805	GLY	3.0
1	A	810	GLN	2.9
1	A	712	GLY	2.9
1	B	858	ILE	2.9
1	B	721	PRO	2.9
1	A	804	GLU	2.9
1	A	806	SER	2.9
1	A	718	ASP	2.8
1	B	777	LEU	2.8
1	B	846	GLU	2.8
1	B	734	GLU	2.7
1	B	871	ILE	2.7
1	A	846	GLU	2.7
1	B	750	ILE	2.7
1	A	774[A]	GLU	2.6
1	B	752	GLU	2.6
1	B	713	ARG	2.6
1	B	768	MET	2.6
1	A	713	ARG	2.6
1	A	855	ARG	2.6
1	A	854[A]	THR	2.6
1	B	828	THR	2.6
1	A	847	PHE	2.5
1	B	870	ASN	2.5
1	B	859	GLN	2.5
1	A	749	THR	2.4
1	B	764[A]	SER	2.4
1	B	868	PHE	2.4
1	A	826[A]	MET	2.4
1	B	748	LYS	2.4
1	B	833	PHE	2.4
1	A	732	SER	2.4
1	B	767	LEU	2.3
1	B	845	LYS	2.3
1	B	766	VAL	2.3
1	B	854[A]	THR	2.3
1	B	740	TRP	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	874	ILE	2.3
1	B	747	ILE	2.3
1	B	825	GLN	2.3
1	B	855	ARG	2.3
1	A	842	HIS	2.3
1	A	747	ILE	2.3
1	A	770	GLN	2.2
1	B	710	LYS	2.2
1	B	769	ARG	2.2
1	B	869	ARG	2.2
1	B	824	GLU	2.2
1	A	727	HIS	2.2
1	B	856	LEU	2.2
1	A	710	LYS	2.2
1	B	853	PHE	2.1
1	A	726	GLU	2.1
1	B	763	GLU	2.1
1	A	723	SER	2.1
1	B	815	LEU	2.1
1	B	822	LEU	2.1
1	B	872	PHE	2.1
1	A	848	TYR	2.1
1	B	725	HIS	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.

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	ZN	A	903	1/1	0.18	0.51	90,90,90,90	1
3	MES	A	904	12/12	0.69	0.31	42,43,44,45	12
4	EDO	A	905	4/4	0.70	0.22	45,48,49,51	0
4	EDO	B	903	4/4	0.82	0.20	49,51,51,52	0
2	ZN	A	901	1/1	0.97	0.04	24,24,24,24	0
2	ZN	A	902	1/1	0.97	0.04	38,38,38,38	0
2	ZN	B	901	1/1	0.98	0.03	17,17,17,17	0
2	ZN	B	902	1/1	0.99	0.02	23,23,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.