



Full wwPDB X-ray Structure Validation Report ⓘ

May 7, 2026 – 08:16 AM EDT

PDB ID : 4YK0 / pdb_00004yk0
Title : Crystal structure of the CBP bromodomain in complex with CPI098
Authors : Bellon, S.F.; Jayaram, H.
Deposited on : 2015-03-03
Resolution : 1.65 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

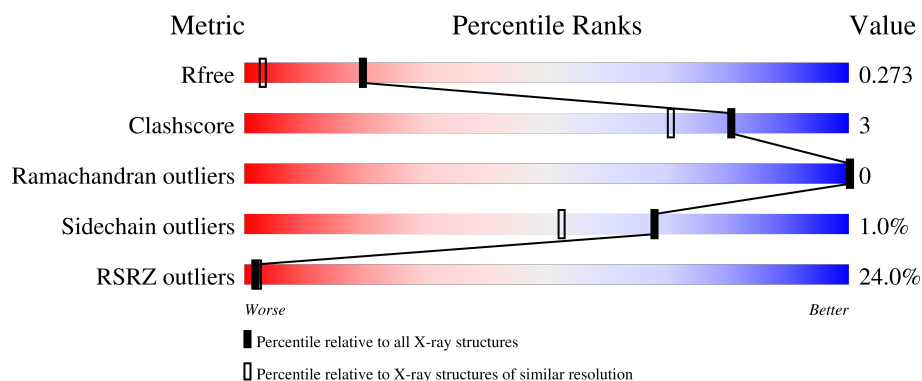
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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	2563 (1.66-1.66)
Clashscore	190562	2662 (1.66-1.66)
Ramachandran outliers	187476	2621 (1.66-1.66)
Sidechain outliers	187428	2621 (1.66-1.66)
RSRZ outliers	180081	2564 (1.66-1.66)

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	114	12% 88% 11% .
1	B	114	14% 92% 7% .
1	C	114	36% 83% 13% .
1	D	114	25% 73% 7% 20%

2 Entry composition [i](#)

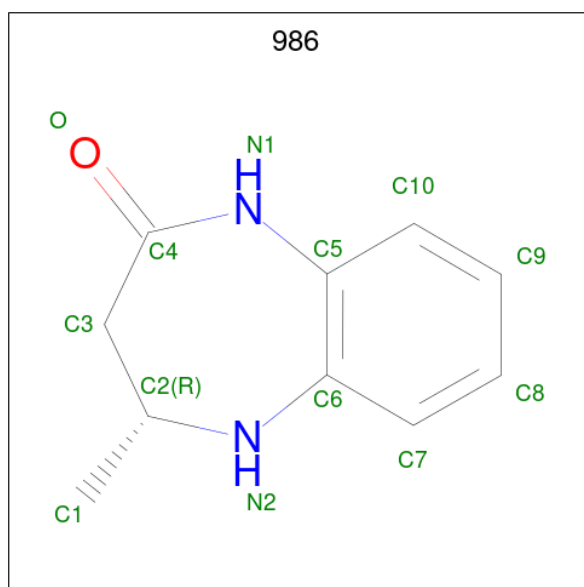
There are 4 unique types of molecules in this entry. The entry contains 3866 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 CREB-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	113	Total	C	N	O	S	0	0	0
			947	616	152	174	5			
1	B	113	Total	C	N	O	S	0	0	0
			941	612	151	173	5			
1	C	99	Total	C	N	O	S	0	0	0
			822	537	134	147	4			
1	D	91	Total	C	N	O	S	0	0	0
			757	496	121	136	4			

- Molecule 2 is (4R)-4-methyl-1,3,4,5-tetrahydro-2H-1,5-benzodiazepin-2-one (CCD ID: 986) (formula: C₁₀H₁₂N₂O).



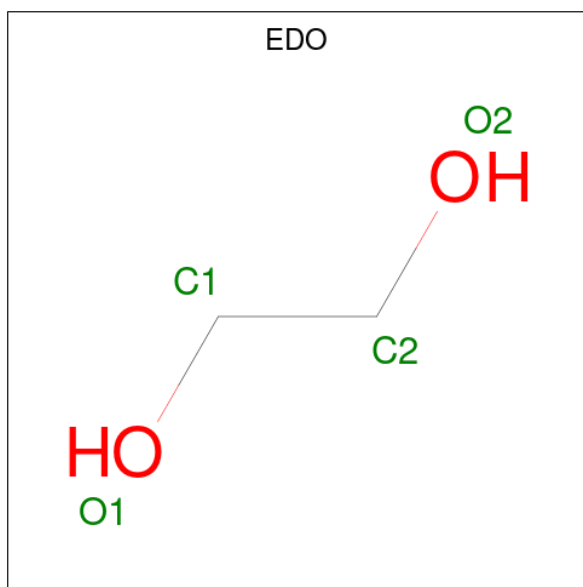
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			13	10	2	1		
2	B	1	Total	C	N	O	0	0
			13	10	2	1		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	C	1	Total	C	N	O	0	0
			13	10	2	1		
2	D	1	Total	C	N	O	0	0
			13	10	2	1		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

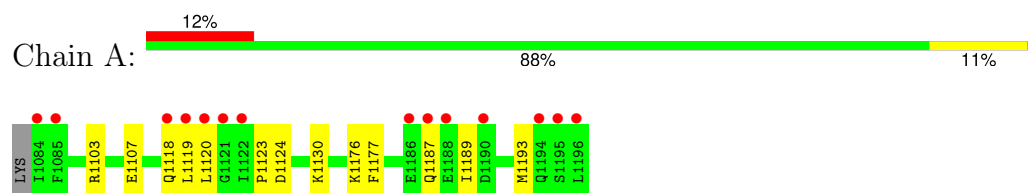
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	105	Total	O	0	0
			105	105		
4	B	100	Total	O	0	0
			100	100		
4	C	63	Total	O	0	0
			63	63		
4	D	75	Total	O	0	0
			75	75		

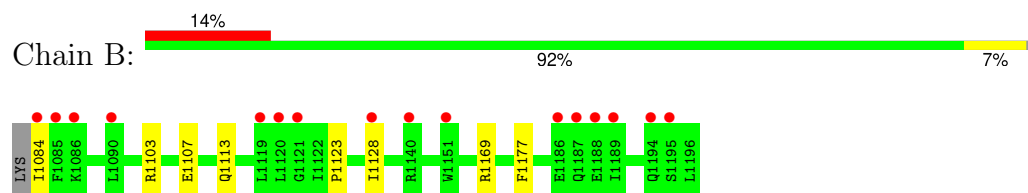
3 Residue-property plots [i](#)

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.

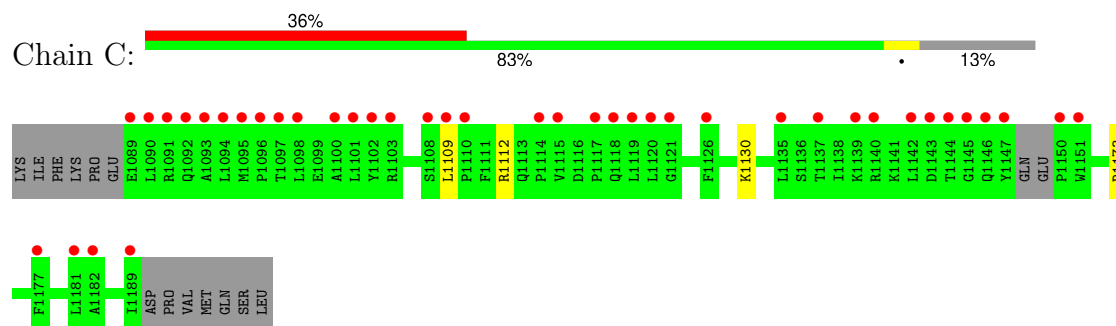
- Molecule 1: CREB-binding protein



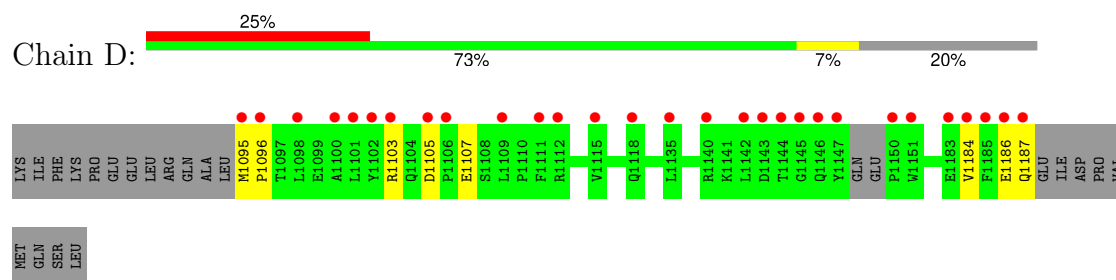
- Molecule 1: CREB-binding protein



- Molecule 1: CREB-binding protein



- Molecule 1: CREB-binding protein



4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	122.70Å 122.70Å 81.17Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	64.50 – 1.65 64.50 – 1.65	Depositor EDS
% Data completeness (in resolution range)	99.8 (64.50-1.65) 99.8 (64.50-1.65)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.17 (at 1.65Å)	Xtriage
Refinement program	REFMAC 5.8.0069	Depositor
R, R_{free}	0.244 , 0.269 0.253 , 0.273	Depositor DCC
R_{free} test set	2655 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	14.7	Xtriage
Anisotropy	0.009	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 37.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.026 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3866	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 93.74 % 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 4.4595e-09. 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 986, 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	1.03	0/974	1.02	1/1325 (0.1%)
1	B	1.03	0/968	1.02	2/1318 (0.2%)
1	C	0.93	0/845	0.97	0/1148
1	D	0.93	0/780	0.95	0/1061
All	All	0.99	0/3567	0.99	3/4852 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1123	PRO	N-CA-C	7.23	123.24	113.84
1	A	1103	ARG	NE-CZ-NH2	6.61	125.15	119.20
1	B	1103	ARG	NE-CZ-NH2	5.30	123.97	119.20

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	947	0	924	9	0
1	B	941	0	914	4	0
1	C	822	0	802	2	0
1	D	757	0	732	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	13	0	0	0	0
2	B	13	0	0	0	0
2	C	13	0	0	0	0
2	D	13	0	0	0	0
3	A	4	0	6	2	0
4	A	105	0	0	2	0
4	B	100	0	0	0	0
4	C	63	0	0	0	0
4	D	75	0	0	1	0
All	All	3866	0	3378	18	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 3.

All (18) 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:1176:LYS:NZ	4:A:1301:HOH:O	2.10	0.80
1:A:1123:PRO:HG2	3:A:1202:EDO:H12	1.75	0.69
1:D:1107:GLU:OE2	4:D:1301:HOH:O	2.11	0.68
4:A:1381:HOH:O	1:B:1128:ILE:HD11	1.99	0.63
1:A:1120:LEU:HD21	1:D:1105:ASP:OD2	2.04	0.57
1:C:1109:LEU:HD13	1:C:1112:ARG:HD2	1.91	0.52
1:D:1184:VAL:O	1:D:1187:GLN:HG3	2.10	0.52
1:A:1124:ASP:CG	3:A:1202:EDO:H11	2.38	0.48
1:A:1119:LEU:HD22	1:D:1103:ARG:HA	1.98	0.45
1:A:1176:LYS:HB3	1:B:1169:ARG:HD2	1.99	0.44
1:B:1113:GLN:CD	1:B:1113:GLN:N	2.76	0.44
1:A:1107:GLU:HA	1:A:1177:PHE:CD2	2.54	0.42
1:A:1118:GLN:O	1:A:1119:LEU:C	2.63	0.42
1:A:1189:ILE:HG13	1:A:1193:MET:HG2	2.02	0.41
1:B:1107:GLU:HA	1:B:1177:PHE:CD2	2.56	0.41
1:D:1095:MET:N	1:D:1096:PRO:HD2	2.36	0.40
1:D:1186:GLU:O	1:D:1187:GLN:HB2	2.22	0.40
1:C:1130:LYS:HA	1:C:1130:LYS:HD3	1.82	0.40

There are no symmetry-related clashes.

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	111/114 (97%)	111 (100%)	0	0	100	100
1	B	111/114 (97%)	111 (100%)	0	0	100	100
1	C	95/114 (83%)	95 (100%)	0	0	100	100
1	D	87/114 (76%)	87 (100%)	0	0	100	100
All	All	404/456 (89%)	404 (100%)	0	0	100	100

There are no Ramachandran outliers to report.

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	105/108 (97%)	103 (98%)	2 (2%)	50	28
1	B	104/108 (96%)	103 (99%)	1 (1%)	68	52
1	C	89/108 (82%)	88 (99%)	1 (1%)	65	48
1	D	83/108 (77%)	83 (100%)	0	100	100
All	All	381/432 (88%)	377 (99%)	4 (1%)	68	52

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

Mol	Chain	Res	Type
1	A	1130	LYS
1	A	1187	GLN

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Mol	Chain	Res	Type
1	B	1084	ILE
1	C	1173	ARG

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

Mol	Chain	Res	Type
1	A	1146	GLN
1	B	1187	GLN
1	C	1104	GLN

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](#)

5 ligands 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	986	C	1201	-	13,14,14	1.95	4 (30%)	15,19,19	2.79	4 (26%)
2	986	B	1201	-	13,14,14	1.85	2 (15%)	15,19,19	1.42	3 (20%)
2	986	A	1201	-	13,14,14	2.18	2 (15%)	15,19,19	2.29	4 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	A	1202	-	3,3,3	1.57	1 (33%)	2,2,2	1.90	1 (50%)
2	986	D	1201	-	13,14,14	2.43	5 (38%)	15,19,19	2.12	4 (26%)

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	986	C	1201	-	-	-	0/2/2/2
2	986	B	1201	-	-	-	0/2/2/2
2	986	A	1201	-	-	-	0/2/2/2
3	EDO	A	1202	-	-	0/1/1/1	-
2	986	D	1201	-	-	-	0/2/2/2

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1201	986	C5-N1	-6.49	1.33	1.42
2	D	1201	986	C5-N1	-4.73	1.36	1.42
2	B	1201	986	C5-N1	-4.49	1.36	1.42
2	C	1201	986	C5-N1	-4.33	1.36	1.42
2	D	1201	986	C6-N2	-4.07	1.32	1.40
2	B	1201	986	C4-N1	-3.96	1.31	1.35
2	D	1201	986	C3-C4	-3.72	1.46	1.51
2	C	1201	986	C6-N2	-2.91	1.34	1.40
2	D	1201	986	C9-C10	2.88	1.43	1.38
3	A	1202	EDO	O1-C1	2.67	1.55	1.42
2	C	1201	986	C4-N1	-2.66	1.32	1.35
2	A	1201	986	C4-N1	-2.49	1.33	1.35
2	D	1201	986	C4-N1	-2.42	1.33	1.35
2	C	1201	986	C9-C10	2.27	1.42	1.38

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1201	986	C3-C4-N1	9.54	123.08	116.63
2	D	1201	986	C3-C4-N1	5.94	120.65	116.63
2	A	1201	986	C3-C4-N1	5.71	120.49	116.63
2	A	1201	986	C5-C6-N2	3.99	127.41	121.50
2	A	1201	986	C7-C6-N2	-3.29	113.25	119.20
2	B	1201	986	C5-C6-N2	3.18	126.20	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	1201	986	C10-C5-C6	2.81	122.69	119.38
2	D	1201	986	C9-C8-C7	2.75	123.63	120.24
2	D	1201	986	C8-C9-C10	-2.75	116.85	120.24
2	A	1201	986	C10-C5-C6	2.73	122.59	119.38
2	B	1201	986	C7-C6-N2	-2.56	114.57	119.20
2	B	1201	986	C10-C5-C6	2.54	122.37	119.38
3	A	1202	EDO	O1-C1-C2	2.47	131.21	112.39
2	C	1201	986	C10-C5-C6	2.27	122.04	119.38
2	C	1201	986	O-C4-C3	-2.12	117.76	121.05
2	C	1201	986	O-C4-N1	-2.10	119.05	121.10

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1202	EDO	2	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	113/114 (99%)	0.66	14 (12%) 8 9	8, 14, 36, 41	0
1	B	113/114 (99%)	0.67	16 (14%) 6 6	8, 17, 32, 39	0
1	C	99/114 (86%)	1.79	41 (41%) 0 0	13, 25, 41, 44	0
1	D	91/114 (79%)	1.57	29 (31%) 1 1	12, 21, 33, 42	0
All	All	416/456 (91%)	1.13	100 (24%) 2 2	8, 20, 36, 44	0

All (100) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1120	LEU	5.2
1	D	1144	THR	5.0
1	A	1084	ILE	5.0
1	A	1118	GLN	4.9
1	C	1119	LEU	4.8
1	D	1145	GLY	4.7
1	C	1090	LEU	4.4
1	C	1118	GLN	4.4
1	D	1095	MET	4.4
1	C	1100	ALA	4.3
1	C	1093	ALA	4.1
1	A	1119	LEU	4.0
1	D	1147	TYR	3.9
1	C	1145	GLY	3.9
1	C	1146	GLN	3.9
1	B	1187	GLN	3.9
1	C	1109	LEU	3.8
1	C	1096	PRO	3.8
1	D	1098	LEU	3.8
1	D	1151	TRP	3.6
1	C	1094	LEU	3.5

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Mol	Chain	Res	Type	RSRZ
1	D	1142	LEU	3.5
1	D	1105	ASP	3.4
1	D	1143	ASP	3.4
1	C	1144	THR	3.4
1	D	1187	GLN	3.4
1	A	1121	GLY	3.3
1	A	1085	PHE	3.3
1	C	1151	TRP	3.3
1	D	1102	TYR	3.2
1	B	1084	ILE	3.2
1	C	1189	ILE	3.2
1	C	1097	THR	3.2
1	C	1147	TYR	3.2
1	A	1187	GLN	3.2
1	D	1100	ALA	3.2
1	C	1098	LEU	3.1
1	A	1188	GLU	3.1
1	A	1186	GLU	3.1
1	C	1102	TYR	3.0
1	D	1096	PRO	3.0
1	C	1115	VAL	2.9
1	C	1114	PRO	2.9
1	C	1120	LEU	2.9
1	A	1122	ILE	2.9
1	C	1150	PRO	2.9
1	A	1194	GLN	2.8
1	C	1089	GLU	2.8
1	D	1101	LEU	2.8
1	D	1186	GLU	2.8
1	C	1091	ARG	2.8
1	D	1118	GLN	2.8
1	C	1121	GLY	2.8
1	A	1195	SER	2.8
1	B	1195	SER	2.8
1	B	1151	TRP	2.7
1	C	1110	PRO	2.7
1	A	1190	ASP	2.7
1	D	1146	GLN	2.7
1	C	1117	PRO	2.7
1	D	1183	GLU	2.7
1	A	1196	LEU	2.7
1	B	1119	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	1186	GLU	2.6
1	D	1150	PRO	2.6
1	C	1143	ASP	2.6
1	D	1106	PRO	2.6
1	D	1112	ARG	2.6
1	B	1085	PHE	2.5
1	D	1115	VAL	2.5
1	C	1137	THR	2.5
1	D	1184	VAL	2.5
1	C	1095	MET	2.5
1	B	1188	GLU	2.5
1	B	1090	LEU	2.5
1	D	1109	LEU	2.4
1	B	1189	ILE	2.4
1	D	1103	ARG	2.3
1	B	1121	GLY	2.3
1	C	1181	LEU	2.3
1	D	1135	LEU	2.3
1	C	1126	PHE	2.3
1	B	1128	ILE	2.3
1	C	1135	LEU	2.3
1	C	1177	PHE	2.3
1	D	1185	PHE	2.3
1	D	1140	ARG	2.2
1	C	1182	ALA	2.2
1	C	1101	LEU	2.2
1	C	1142	LEU	2.2
1	B	1086	LYS	2.2
1	B	1194	GLN	2.1
1	C	1092	GLN	2.1
1	C	1103	ARG	2.1
1	B	1120	LEU	2.1
1	C	1139	LYS	2.1
1	C	1108	SER	2.1
1	D	1111	PHE	2.1
1	B	1140	ARG	2.0
1	C	1140	ARG	2.0

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

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($\text{\AA}^2$)	Q<0.9
3	EDO	A	1202	4/4	0.75	0.19	14,16,20,22	0
2	986	D	1201	13/13	0.92	0.07	15,17,18,19	0
2	986	C	1201	13/13	0.92	0.08	16,19,22,22	0
2	986	A	1201	13/13	0.95	0.08	11,17,21,22	0
2	986	B	1201	13/13	0.96	0.06	9,13,15,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.