



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 11:01 PM EDT

PDB ID : 6G85
Title : Structure of Cdc14 bound to CBK1 PxL motif
Authors : Mouilleron, S.; Kataria, M.; Uhlmann, F.
Deposited on : 2018-04-07
Resolution : 1.53 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 : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 2.37.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

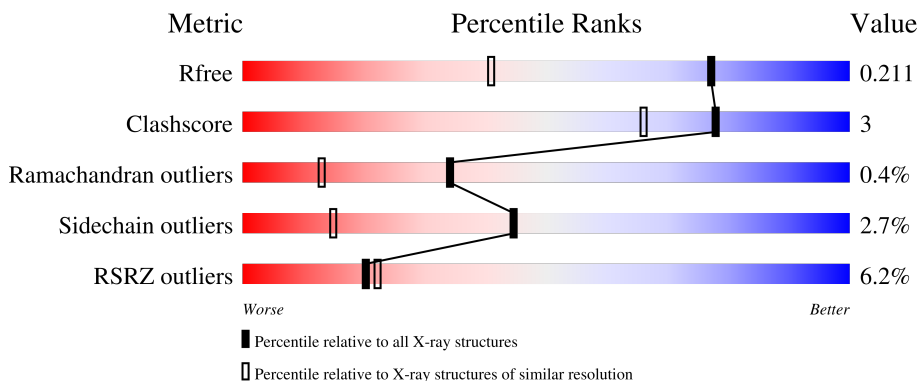
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.53 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}	130704	4009 (1.54-1.50)
Clashscore	141614	4249 (1.54-1.50)
Ramachandran outliers	138981	4148 (1.54-1.50)
Sidechain outliers	138945	4146 (1.54-1.50)
RSRZ outliers	127900	3943 (1.54-1.50)

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	374	
1	B	374	
2	C	16	
3	D	17	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 7063 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 Tyrosine-protein phosphatase CDC14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	361	3026	1966	511	537	12	0	19	0
1	B	359	2990	1941	501	536	12	0	19	0

- Molecule 2 is a protein called CBK1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	C	10	85	57	12	16	0	1	0

- Molecule 3 is a protein called CBK1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	D	15	106	72	15	19	0	0	0

- Molecule 4 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: C₆H₁₃NO₄S).



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

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



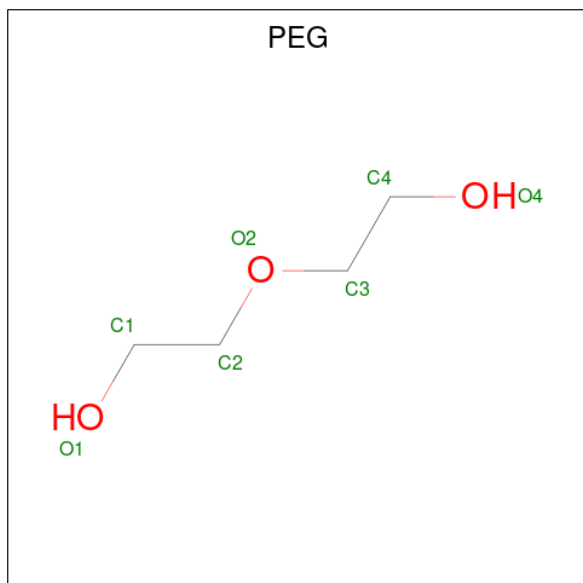
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	O			
5	A	1	Total	6	3	3	0	0

- Molecule 6 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

- Molecule 7 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	1	Total C O 7 4 3	0	0

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total Zn 1 1	0	0

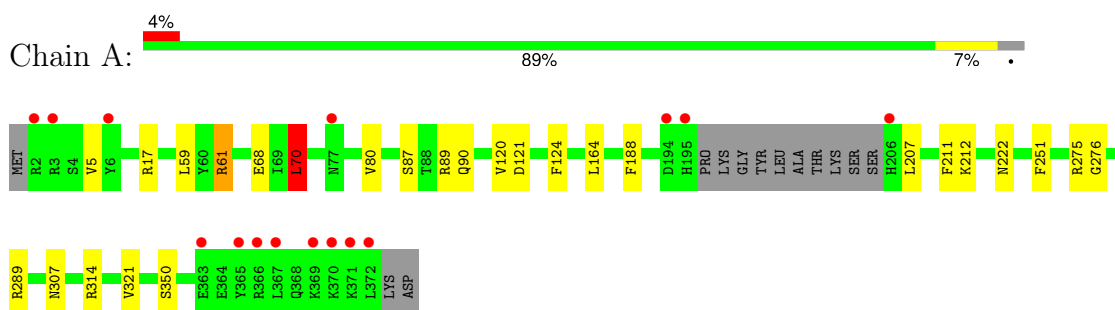
- Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	435	Total O 435 435	0	7
9	B	352	Total O 352 352	0	5
9	C	8	Total O 8 8	0	0
9	D	7	Total O 7 7	0	0

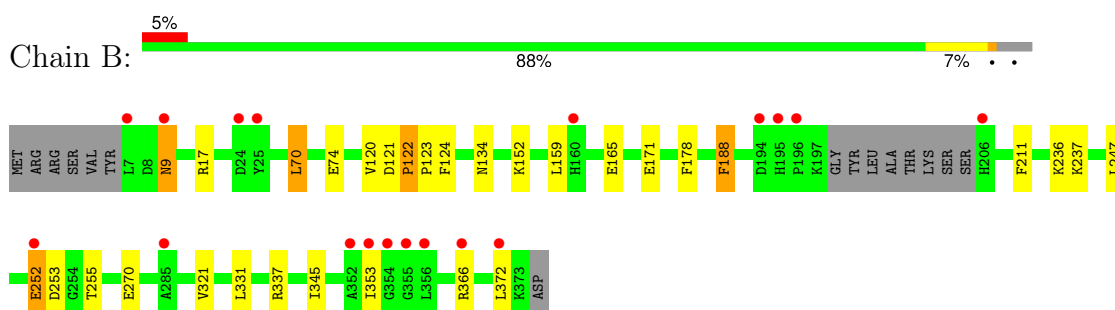
3 Residue-property plots [i](#)

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.

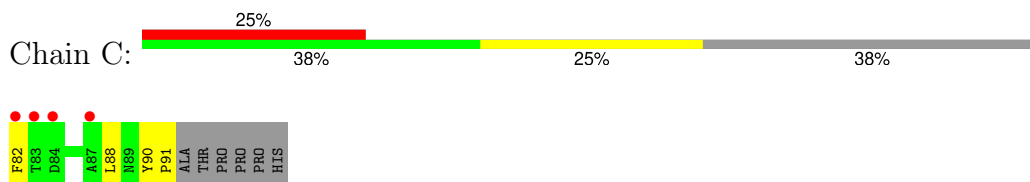
- Molecule 1: Tyrosine-protein phosphatase CDC14



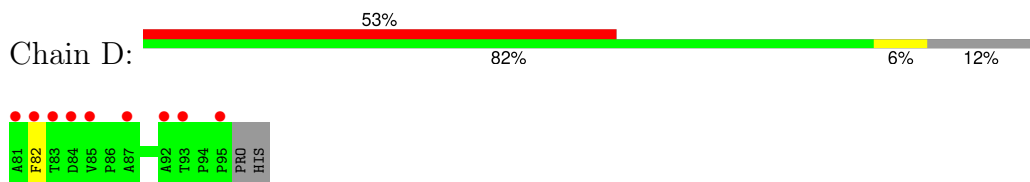
- Molecule 1: Tyrosine-protein phosphatase CDC14



- Molecule 2: CBK1



- Molecule 3: CBK1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	76.15Å 97.41Å 129.18Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	59.99 – 1.53 60.00 – 1.53	Depositor EDS
% Data completeness (in resolution range)	97.4 (59.99-1.53) 97.4 (60.00-1.53)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.19 (at 1.53Å)	Xtrriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.182 , 0.209 0.184 , 0.211	Depositor DCC
R_{free} test set	7061 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	22.6	Xtrriage
Anisotropy	0.077	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 52.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	7063	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.23% 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: GOL, EDO, ZN, PEG, MES

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	0.96	1/3168 (0.0%)	0.81	5/4298 (0.1%)
1	B	0.90	0/3129	0.80	2/4246 (0.0%)
2	C	0.53	0/91	0.62	0/126
3	D	0.57	0/111	0.65	0/156
All	All	0.92	1/6499 (0.0%)	0.80	7/8826 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	68	GLU	CG-CD	5.10	1.59	1.51

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	70	LEU	CA-CB-CG	8.48	134.81	115.30
1	B	121	ASP	CB-CG-OD1	8.47	125.92	118.30
1	A	121	ASP	CB-CG-OD2	8.14	125.63	118.30
1	A	314	ARG	NE-CZ-NH1	-6.49	117.06	120.30
1	B	70	LEU	CA-CB-CG	6.34	129.89	115.30
1	A	61[A]	ARG	NE-CZ-NH2	5.54	123.07	120.30
1	A	61[B]	ARG	NE-CZ-NH2	5.54	123.07	120.30

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	3026	0	2952	16	0
1	B	2990	0	2917	18	0
2	C	85	0	79	2	0
3	D	106	0	98	2	0
4	A	12	0	12	0	0
4	B	12	0	12	1	0
5	A	6	0	8	2	0
6	A	16	0	24	5	0
7	A	7	0	10	1	0
8	A	1	0	0	0	0
9	A	435	0	0	3	0
9	B	352	0	0	4	0
9	C	8	0	0	0	0
9	D	7	0	0	0	0
All	All	7063	0	6112	36	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 (36) 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:307:ASN:ND2	9:A:504:HOH:O	2.26	0.68
1:A:89:ARG:HB2	5:A:402:GOL:H32	1.79	0.64
1:B:9:ASN:OD1	1:B:9:ASN:N	2.31	0.63
1:B:236:LYS:NZ	9:B:501:HOH:O	2.29	0.62
1:A:90:GLN:HG2	5:A:402:GOL:H31	1.81	0.60
1:A:61[B]:ARG:CZ	1:A:164:LEU:HD21	2.35	0.56
1:A:275:ARG:HH12	7:A:407:PEG:H32	1.71	0.56
1:A:70:LEU:HD21	2:C:88:LEU:HD11	1.88	0.56
6:A:405:EDO:O2	9:A:501:HOH:O	2.18	0.55
1:A:350:SER:HB2	6:A:405:EDO:H12	1.90	0.54
1:A:251:PHE:CE1	1:A:289:ARG:HG2	2.46	0.51
1:A:61[B]:ARG:NE	1:A:164:LEU:HD21	2.28	0.49
1:A:70:LEU:HD13	1:A:80:VAL:HG21	1.96	0.48
2:C:90:TYR:CG	2:C:91:PRO:HD2	2.49	0.48
1:B:247:LEU:HD21	1:B:353:ILE:HG22	1.95	0.48
1:B:120[B]:VAL:HG11	1:B:124:PHE:CE2	2.49	0.47
1:B:252[A]:GLU:OE1	1:B:255[A]:THR:HG21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120[B]:VAL:HG11	1:A:124:PHE:CE2	2.50	0.47
1:A:17[A]:ARG:NH2	9:A:502:HOH:O	2.23	0.47
1:B:159:LEU:HD23	3:D:82:PHE:CE2	2.50	0.46
1:B:159:LEU:HB3	3:D:82:PHE:CD2	2.50	0.46
1:B:331:LEU:HD12	9:B:793:HOH:O	2.16	0.45
1:A:207:LEU:O	1:A:212:LYS:HE3	2.17	0.44
1:B:122:PRO:HA	1:B:123:PRO:HD3	1.88	0.43
1:A:5:VAL:HG13	6:A:406:EDO:H22	2.01	0.43
1:B:366:ARG:NH1	9:B:518:HOH:O	2.51	0.43
1:B:165[A]:GLU:H	1:B:165[A]:GLU:CD	2.23	0.42
1:B:337[B]:ARG:HA	1:B:337[B]:ARG:HD2	1.79	0.42
1:B:134:ASN:HB3	9:B:672:HOH:O	2.20	0.42
1:A:276:GLY:HA3	6:A:403:EDO:H21	2.03	0.41
1:B:253:ASP:OD2	4:B:401:MES:H81	2.19	0.41
1:B:270:GLU:HB3	1:B:345:ILE:HD11	2.01	0.41
1:B:247:LEU:CD1	1:B:353:ILE:HA	2.51	0.40
1:B:178:PHE:HB3	1:B:188:PHE:HB3	2.03	0.40
1:A:222:ASN:HB2	6:A:404:EDO:H12	2.03	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	376/374 (100%)	365 (97%)	10 (3%)	1 (0%)	41	18
1	B	375/374 (100%)	361 (96%)	12 (3%)	2 (0%)	29	9
2	C	9/16 (56%)	8 (89%)	1 (11%)	0	100	100
3	D	13/17 (76%)	12 (92%)	1 (8%)	0	100	100
All	All	773/781 (99%)	746 (96%)	24 (3%)	3 (0%)	34	13

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	321	VAL
1	B	372	LEU
1	B	321	VAL

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	325/325 (100%)	319 (98%)	6 (2%)	59 29
1	B	322/325 (99%)	308 (96%)	14 (4%)	29 5
2	C	10/14 (71%)	9 (90%)	1 (10%)	7 0
3	D	11/14 (79%)	11 (100%)	0	100 100
All	All	668/678 (98%)	647 (97%)	21 (3%)	44 11

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	59[A]	LEU
1	A	59[B]	LEU
1	A	70	LEU
1	A	87	SER
1	A	188	PHE
1	A	211	PHE
1	B	9	ASN
1	B	17[A]	ARG
1	B	17[B]	ARG
1	B	70	LEU
1	B	74	GLU
1	B	122	PRO
1	B	152	LYS
1	B	171[A]	GLU
1	B	171[B]	GLU
1	B	188	PHE
1	B	211	PHE
1	B	237	LYS
1	B	252[A]	GLU

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Mol	Chain	Res	Type
1	B	252[B]	GLU
2	C	82	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 9 ligands modelled in this entry, 1 is monoatomic - leaving 8 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
5	GOL	A	402	-	5,5,5	1.19	0	5,5,5	1.03	0
4	MES	B	401	-	12,12,12	1.45	2 (16%)	15,16,16	2.16	4 (26%)
6	EDO	A	405	-	3,3,3	0.40	0	2,2,2	0.12	0
6	EDO	A	403	-	3,3,3	0.39	0	2,2,2	0.47	0
4	MES	A	401	-	12,12,12	1.52	2 (16%)	15,16,16	1.53	3 (20%)
6	EDO	A	406	-	3,3,3	0.45	0	2,2,2	0.31	0
6	EDO	A	404	-	3,3,3	0.44	0	2,2,2	0.39	0
7	PEG	A	407	-	6,6,6	0.50	0	5,5,5	0.38	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
5	GOL	A	402	-	-	1/4/4/4	-
4	MES	B	401	-	-	3/6/14/14	0/1/1/1
6	EDO	A	405	-	-	0/1/1/1	-
6	EDO	A	403	-	-	0/1/1/1	-
4	MES	A	401	-	-	0/6/14/14	0/1/1/1
6	EDO	A	406	-	-	0/1/1/1	-
6	EDO	A	404	-	-	1/1/1/1	-
7	PEG	A	407	-	-	2/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	401	MES	C8-S	-3.89	1.72	1.77
4	A	401	MES	C8-S	-3.09	1.73	1.77
4	A	401	MES	O1S-S	3.05	1.53	1.45
4	B	401	MES	O1S-S	2.55	1.52	1.45

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	401	MES	C7-N4-C5	4.40	122.96	111.24
4	B	401	MES	C5-N4-C3	4.14	117.77	108.84
4	B	401	MES	C2-C3-N4	-3.91	104.18	110.12
4	A	401	MES	C5-N4-C3	3.15	115.63	108.84
4	A	401	MES	C7-N4-C5	2.74	118.54	111.24
4	B	401	MES	C7-N4-C3	2.50	117.91	111.24
4	A	401	MES	O1S-S-C8	-2.07	103.59	106.73

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	401	MES	C8-C7-N4-C5
4	B	401	MES	N4-C7-C8-S
4	B	401	MES	C8-C7-N4-C3
7	A	407	PEG	O2-C3-C4-O4
5	A	402	GOL	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
7	A	407	PEG	C1-C2-O2-C3
6	A	404	EDO	O1-C1-C2-O2

There are no ring outliers.

7 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	402	GOL	2	0
4	B	401	MES	1	0
6	A	405	EDO	2	0
6	A	403	EDO	1	0
6	A	406	EDO	1	0
6	A	404	EDO	1	0
7	A	407	PEG	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	361/374 (96%)	0.08	15 (4%) 36 40	17, 25, 51, 88	0
1	B	359/374 (95%)	0.20	18 (5%) 28 31	17, 29, 53, 101	0
2	C	10/16 (62%)	1.78	4 (40%) 0 0	31, 40, 67, 70	0
3	D	15/17 (88%)	2.29	9 (60%) 0 0	33, 43, 82, 87	0
All	All	745/781 (95%)	0.21	46 (6%) 20 22	17, 27, 54, 101	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	372	LEU	7.7
1	B	353	ILE	7.0
3	D	82	PHE	6.7
1	B	355	GLY	5.7
1	A	195	HIS	5.4
1	B	206	HIS	5.1
1	A	206	HIS	4.7
1	B	356	LEU	4.7
1	A	6	TYR	4.7
1	B	195	HIS	4.5
1	B	352	ALA	4.5
1	A	367	LEU	4.5
1	A	370	LYS	4.4
2	C	83	THR	4.4
1	B	160	HIS	4.3
2	C	82	PHE	4.0
3	D	84	ASP	3.9
3	D	95	PRO	3.4
1	A	366[A]	ARG	3.2
1	B	9	ASN	3.2
1	A	77	ASN	3.2

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Mol	Chain	Res	Type	RSRZ
3	D	93	THR	3.1
1	A	3	ARG	3.0
1	B	7	LEU	3.0
1	A	2	ARG	2.8
1	B	252[A]	GLU	2.8
2	C	84	ASP	2.8
3	D	83	THR	2.7
1	A	371	LYS	2.6
1	B	25	TYR	2.6
1	A	365	TYR	2.5
1	A	194	ASP	2.4
1	B	372	LEU	2.4
3	D	87	ALA	2.3
3	D	92	ALA	2.3
1	B	24	ASP	2.3
1	B	366	ARG	2.3
2	C	87	ALA	2.3
1	A	369	LYS	2.3
1	B	354	GLY	2.2
3	D	81	ALA	2.2
3	D	85	VAL	2.2
1	B	196	PRO	2.1
1	B	285	ALA	2.1
1	A	363	GLU	2.0
1	B	194	ASP	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 monosaccharides 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(\AA^2)	Q<0.9
6	EDO	A	406	4/4	0.62	0.29	76,77,79,80	0
6	EDO	A	405	4/4	0.74	0.31	55,56,62,68	0
6	EDO	A	403	4/4	0.81	0.31	58,62,66,70	0
6	EDO	A	404	4/4	0.81	0.21	55,60,66,69	0
5	GOL	A	402	6/6	0.82	0.20	50,55,56,62	0
7	PEG	A	407	7/7	0.86	0.30	41,60,66,67	0
4	MES	B	401	12/12	0.88	0.15	27,37,48,51	12
4	MES	A	401	12/12	0.98	0.07	22,27,36,37	0
8	ZN	A	408	1/1	0.98	0.24	58,58,58,58	0

6.5 Other polymers [i](#)

There are no such residues in this entry.