



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:56 PM UTC

PDB ID : 9FJG / pdb_00009fjg
Title : Two PLK1 PBD proteins bound to CENP-U(58-114) phosphorylated at Thr98
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Deposited on : 2024-05-31
Resolution : 2.00 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

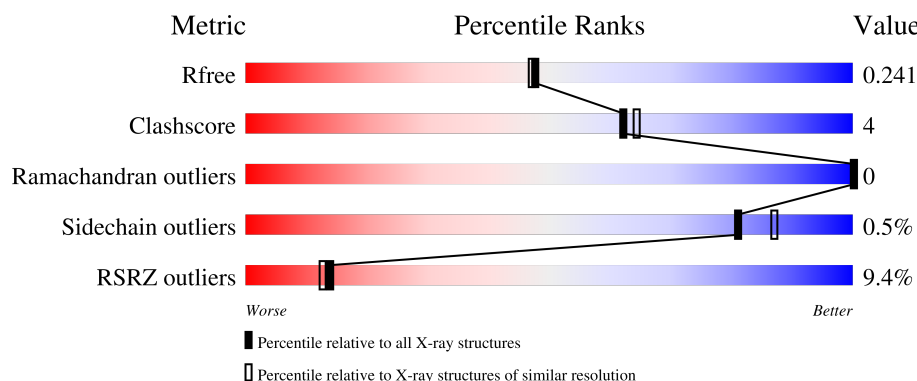
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	261	<div> <div>5%</div> <div>78%</div> <div>7%</div> <div>15%</div> </div>
1	B	261	<div> <div>11%</div> <div>75%</div> <div>11%</div> <div>15%</div> </div>
2	C	59	<div> <div>8%</div> <div>53%</div> <div>5%</div> <div>41%</div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8064 atoms, of which 3954 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 Serine/threonine-protein kinase PLK1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	223	Total	C	H	N	O	S	0	4	0
			3656	1166	1820	314	344	12			
1	B	223	Total	C	H	N	O	S	0	3	0
			3645	1162	1815	314	342	12			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	343	GLY	-	expression tag	UNP P53350
A	344	SER	-	expression tag	UNP P53350
B	343	GLY	-	expression tag	UNP P53350
B	344	SER	-	expression tag	UNP P53350

- Molecule 2 is a protein called Centromere protein U.

Mol	Chain	Residues	Atoms							ZeroOcc	AltConf	Trace
2	C	35	Total	C	H	N	O	P	S	0	0	0
			513	170	240	40	61	1	1			

There are 2 discrepancies between the modelled and reference sequences:

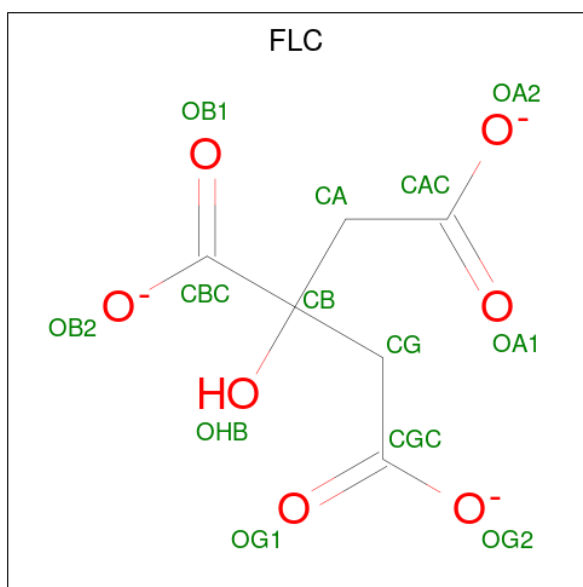
Chain	Residue	Modelled	Actual	Comment	Reference
C	56	GLY	-	expression tag	UNP Q71F23
C	57	SER	-	expression tag	UNP Q71F23

- Molecule 3 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: C₈H₁₈O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			31	8	18	5		
3	A	1	Total	C	H	O	0	0
			31	8	18	5		
3	B	1	Total	C	H	O	0	0
			31	8	18	5		

- Molecule 4 is CITRATE ANION (CCD ID: FLC) (formula: $C_6H_5O_7$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			18	6	5	7		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			17	4	10	3		
5	A	1	Total	C	H	O	0	0
			17	4	10	3		

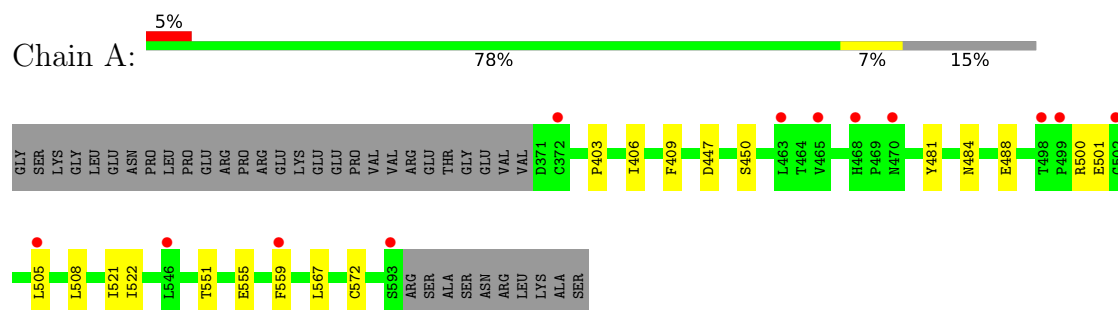
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	57	Total	O	0	0
			57	57		
6	B	37	Total	O	0	0
			37	37		
6	C	11	Total	O	0	0
			11	11		

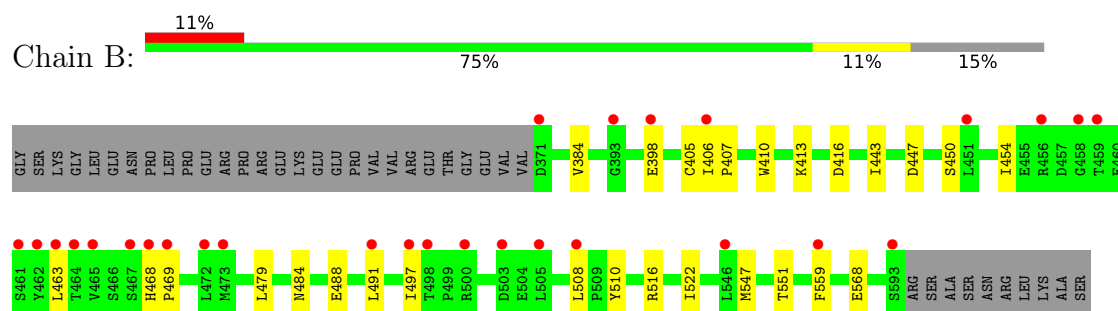
3 Residue-property plots

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.

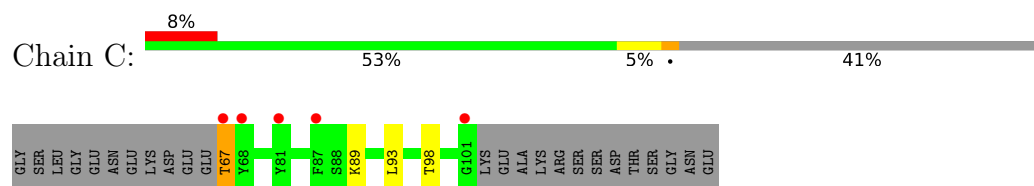
- Molecule 1: Serine/threonine-protein kinase PLK1



- Molecule 1: Serine/threonine-protein kinase PLK1



- Molecule 2: Centromere protein U



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	84.67Å 135.40Å 60.36Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.05 – 2.00 45.05 – 2.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (45.05-2.00) 100.0 (45.05-2.00)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.53 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.211 , 0.242 0.211 , 0.241	Depositor DCC
R_{free} test set	2384 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	45.7	Xtriage
Anisotropy	0.296	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 43.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8064	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.09% 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: PEG, TPO, PG4, FLC

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	0.20	0/1884	0.39	0/2546
1	B	0.18	0/1875	0.34	0/2534
2	C	0.19	0/270	0.38	0/366
All	All	0.19	0/4029	0.37	0/5446

There are no bond length outliers.

There are no bond angle outliers.

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	1836	1820	1821	12	0
1	B	1830	1815	1815	20	0
2	C	273	240	239	2	0
3	A	26	36	36	0	0
3	B	13	18	18	0	0
4	A	13	5	5	0	0
5	A	14	20	20	0	0
6	A	57	0	0	0	0
6	B	37	0	0	1	0
6	C	11	0	0	0	0
All	All	4110	3954	3954	33	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 4.

All (33) 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:447:ASP:OD2	1:B:450:SER:OG	2.05	0.71
1:A:551:THR:HG21	1:A:559[A]:PHE:CZ	2.30	0.66
1:A:484:ASN:O	1:A:488:GLU:HG3	1.98	0.64
1:B:410:TRP:HH2	1:B:497:ILE:HG21	1.63	0.63
1:B:497:ILE:HD11	1:B:559[B]:PHE:CD1	2.38	0.59
2:C:89:LYS:O	2:C:93:LEU:HD23	2.03	0.58
1:B:454:ILE:N	1:B:454:ILE:HD12	2.19	0.58
1:A:403:PRO:O	1:A:406:ILE:HG12	2.05	0.57
1:B:384:VAL:HA	1:B:568:GLU:HG2	1.89	0.54
1:B:413:LYS:NZ	6:B:801:HOH:O	2.42	0.54
1:B:398:GLU:H	1:B:398:GLU:CD	2.15	0.53
1:B:406:ILE:HD12	1:B:407:PRO:HD2	1.90	0.53
1:A:567:LEU:HD22	1:A:572:CYS:HB3	1.90	0.52
1:B:405:CYS:SG	1:B:547:MET:HE2	2.51	0.50
1:A:522:ILE:N	1:A:522:ILE:HD12	2.27	0.50
1:B:410:TRP:CH2	1:B:497:ILE:HG21	2.46	0.49
1:B:468:HIS:O	1:B:468:HIS:ND1	2.44	0.48
1:B:551:THR:HG21	1:B:559[B]:PHE:CE2	2.49	0.48
1:B:479:LEU:C	1:B:479:LEU:HD23	2.40	0.47
1:B:522:ILE:HD12	1:B:522:ILE:N	2.32	0.45
1:A:500:ARG:HG3	1:A:501:GLU:N	2.32	0.44
1:B:497:ILE:HD11	1:B:559[B]:PHE:CG	2.52	0.44
1:B:463:LEU:CD1	1:B:469:PRO:HG2	2.48	0.43
1:A:409:PHE:CE1	1:A:508:LEU:HD12	2.53	0.43
1:B:443:ILE:HD11	1:B:510:TYR:HB3	2.01	0.43
1:A:481:TYR:CD2	2:C:67:THR:HA	2.54	0.43
1:A:447:ASP:OD2	1:A:450:SER:OG	2.35	0.43
1:B:416:ASP:OD2	1:B:516:ARG:NH2	2.52	0.43
1:B:484:ASN:O	1:B:488:GLU:HG2	2.19	0.43
1:B:443:ILE:HG21	1:B:508:LEU:HD23	2.01	0.42
1:A:555:GLU:H	1:A:555:GLU:CD	2.28	0.42
1:A:521:ILE:C	1:A:522:ILE:HD12	2.45	0.41
1:A:505:LEU:C	1:A:505:LEU:HD12	2.46	0.41

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	225/261 (86%)	222 (99%)	3 (1%)	0	100	100
1	B	224/261 (86%)	217 (97%)	7 (3%)	0	100	100
2	C	32/59 (54%)	30 (94%)	2 (6%)	0	100	100
All	All	481/581 (83%)	469 (98%)	12 (2%)	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	206/235 (88%)	206 (100%)	0	100	100
1	B	205/235 (87%)	204 (100%)	1 (0%)	81	87
2	C	30/50 (60%)	29 (97%)	1 (3%)	33	34
All	All	441/520 (85%)	439 (100%)	2 (0%)	81	87

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

Mol	Chain	Res	Type
1	B	491	LEU
2	C	67	THR

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	452	GLN
1	A	524	HIS
1	B	373	HIS
1	B	430	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](#)

1 non-standard protein/DNA/RNA residue is 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	TPO	C	98	2	8,10,11	2.46	1 (12%)	10,14,16	1.27	1 (10%)

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	TPO	C	98	2	-	1/9/11/13	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	98	TPO	P-OG1	6.72	1.71	1.59

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	98	TPO	OG1-P-O1P	-2.17	101.61	109.33

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	98	TPO	O-C-CA-CB

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 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	$\# Z > 2$
5	PEG	A	705	-	6,6,6	0.27	0	5,5,5	0.28	0
4	FLC	A	702	-	12,12,12	1.05	0	17,17,17	1.05	1 (5%)
3	PG4	B	701	-	12,12,12	0.28	0	11,11,11	0.28	0
5	PEG	A	704	-	6,6,6	0.27	0	5,5,5	0.29	0
3	PG4	A	701	-	12,12,12	0.29	0	11,11,11	0.15	0
3	PG4	A	703	-	12,12,12	0.29	0	11,11,11	0.24	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	PEG	A	705	-	-	1/4/4/4	-
4	FLC	A	702	-	-	6/16/16/16	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PG4	B	701	-	-	3/10/10/10	-
5	PEG	A	704	-	-	2/4/4/4	-
3	PG4	A	701	-	-	7/10/10/10	-
3	PG4	A	703	-	-	4/10/10/10	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	702	FLC	OA1-CAC-CA	-2.07	117.08	122.95

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	702	FLC	CAC-CA-CB-CBC
3	A	703	PG4	O3-C5-C6-O4
4	A	702	FLC	CAC-CA-CB-CG
3	A	701	PG4	O4-C7-C8-O5
3	A	703	PG4	O4-C7-C8-O5
3	A	703	PG4	O2-C3-C4-O3
3	B	701	PG4	O3-C5-C6-O4
5	A	704	PEG	O1-C1-C2-O2
4	A	702	FLC	CAC-CA-CB-OHB
3	A	701	PG4	C4-C3-O2-C2
5	A	705	PEG	C1-C2-O2-C3
5	A	704	PEG	C4-C3-O2-C2
3	A	703	PG4	O1-C1-C2-O2
3	A	701	PG4	O1-C1-C2-O2
4	A	702	FLC	CBC-CB-CG-CGC
3	A	701	PG4	C3-C4-O3-C5
3	A	701	PG4	C8-C7-O4-C6
3	B	701	PG4	O1-C1-C2-O2
3	B	701	PG4	O2-C3-C4-O3
4	A	702	FLC	OHB-CB-CG-CGC
3	A	701	PG4	O2-C3-C4-O3
4	A	702	FLC	CA-CB-CG-CGC
3	A	701	PG4	O3-C5-C6-O4

There are no ring outliers.

No monomer is involved in short contacts.

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	223/261 (85%)	0.29	12 (5%) 31 30	26, 49, 88, 146	4 (1%)
1	B	223/261 (85%)	0.67	28 (12%) 8 7	29, 63, 111, 137	3 (1%)
2	C	34/59 (57%)	1.18	5 (14%) 6 5	45, 70, 119, 160	0
All	All	480/581 (82%)	0.53	45 (9%) 14 13	26, 56, 110, 160	7 (1%)

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	67	THR	7.5
1	B	559[A]	PHE	4.9
2	C	68	TYR	4.3
1	A	559[A]	PHE	3.9
1	A	505	LEU	3.4
2	C	101	GLY	3.3
1	B	458	GLY	3.2
1	B	463	LEU	3.1
1	A	499	PRO	3.1
1	B	498	THR	3.0
1	B	456	ARG	2.9
1	B	465	VAL	2.8
1	B	472	LEU	2.7
1	B	461	SER	2.7
1	B	469	PRO	2.7
1	B	467	SER	2.7
1	B	451	LEU	2.6
1	B	508	LEU	2.6
1	B	593	SER	2.6
1	B	393	GLY	2.5
1	B	371	ASP	2.5
1	B	503	ASP	2.5
1	A	546	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	459	THR	2.4
1	B	473	MET	2.4
1	A	468	HIS	2.4
1	A	463	LEU	2.3
1	B	464	THR	2.3
1	A	502	GLY	2.3
1	A	470	ASN	2.3
1	B	497	ILE	2.2
1	B	462	TYR	2.2
2	C	87	PHE	2.1
1	B	505	LEU	2.1
1	B	491	LEU	2.1
1	B	546	LEU	2.1
1	A	372	CYS	2.1
1	B	468	HIS	2.1
1	A	465	VAL	2.1
1	A	593	SER	2.1
1	B	398	GLU	2.0
2	C	81	TYR	2.0
1	B	406	ILE	2.0
1	B	500	ARG	2.0
1	A	498	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	TPO	C	98	11/12	0.96	0.07	42,49,61,61	0

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
5	PEG	A	705	7/7	0.59	0.28	63,79,95,95	0
3	PG4	A	703	13/13	0.72	0.24	65,89,110,116	0
4	FLC	A	702	13/13	0.79	0.13	70,96,119,132	0
3	PG4	A	701	13/13	0.79	0.14	76,92,107,107	0
5	PEG	A	704	7/7	0.81	0.15	76,91,103,103	0
3	PG4	B	701	13/13	0.82	0.19	65,82,98,103	0

6.5 Other polymers [i](#)

There are no such residues in this entry.