



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 15, 2018 – 08:15 PM EST

PDB ID : 4A62
Title : ParM from R1 plasmid in complex with peptide from C-terminus of ParR
Authors : Gayathri, P.; Lowe, J.
Deposited on : 2011-10-31
Resolution : 2.20 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030736
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030736

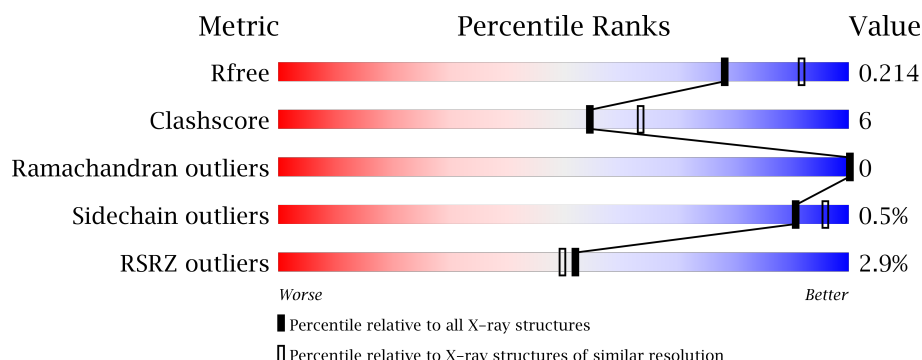
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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}	100719	4002 (2.20-2.20)
Clashscore	112137	4730 (2.20-2.20)
Ramachandran outliers	110173	4656 (2.20-2.20)
Sidechain outliers	110143	4657 (2.20-2.20)
RSRZ outliers	101464	4033 (2.20-2.20)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	320	<div> <div>3%</div> <div>87%</div> <div>13%</div> </div>
1	B	320	<div> <div>3%</div> <div>85%</div> <div>15%</div> </div>
2	C	17	<div> <div>71%</div> <div>6%</div> <div>24%</div> </div>
2	D	17	<div> <div>53%</div> <div>24%</div> <div>24%</div> </div>

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	MG	B	501	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5660 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 PLASMID SEGREGATION PROTEIN PARM.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	320	Total	C	N	O	S	0	1	0
			2517	1585	425	499	8			
1	B	320	Total	C	N	O	S	0	0	0
			2508	1580	422	498	8			

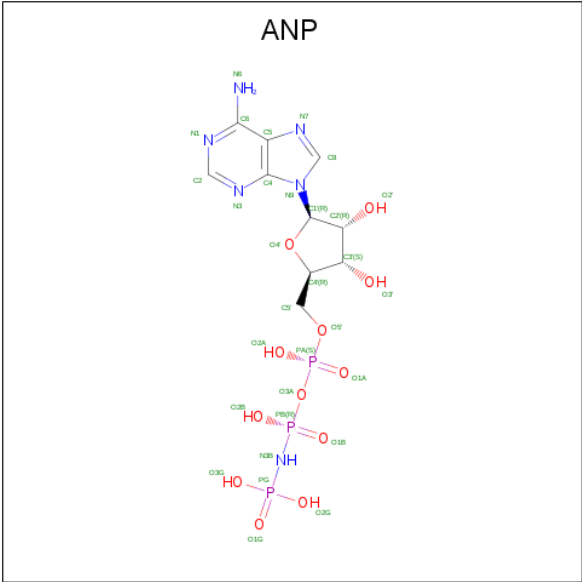
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	163	ALA	LEU	engineered mutation	UNP P11904
B	163	ALA	LEU	engineered mutation	UNP P11904

- Molecule 2 is a protein called PROTEIN STBB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	13	Total	C	N	O	S	0	0	0
			89	53	15	20	1			
2	D	13	Total	C	N	O	S	0	0	0
			97	58	16	22	1			

- Molecule 3 is PHOSPHOAMINOPHOSPHONIC ACID-ADENYLATE ESTER (three-letter code: ANP) (formula: C₁₀H₁₇N₆O₁₂P₃).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			31	10	6	12	3		
3	B	1	Total	C	N	O	P	0	0
			31	10	6	12	3		

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Mg	0	0
			1	1		
4	A	1	Total	Mg	0	0
			1	1		

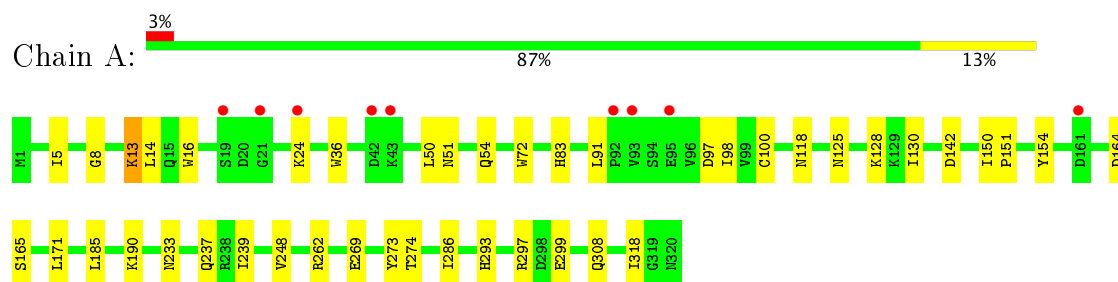
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	208	Total	O	0	0
			208	208		
5	B	170	Total	O	0	0
			170	170		
5	C	4	Total	O	0	0
			4	4		
5	D	3	Total	O	0	0
			3	3		

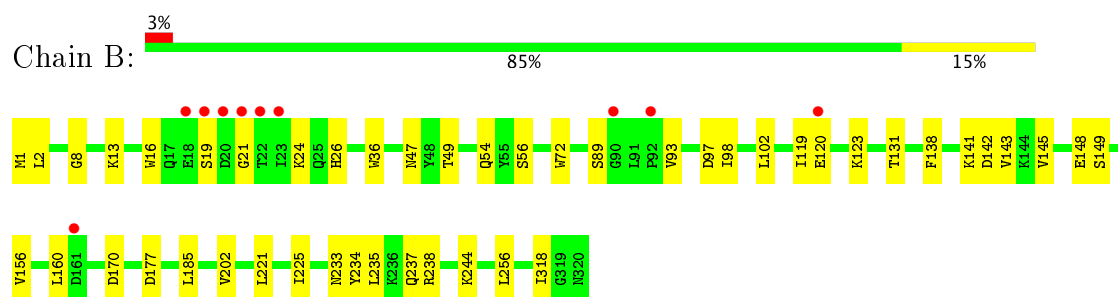
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA 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.

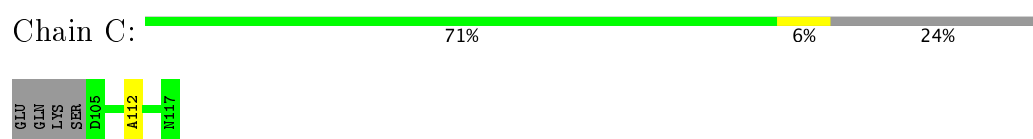
- Molecule 1: PLASMID SEGREGATION PROTEIN PARM



- Molecule 1: PLASMID SEGREGATION PROTEIN PARM



- Molecule 2: PROTEIN STBB



- Molecule 2: PROTEIN STBB



4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	146.85Å 146.85Å 171.32Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	32.62 – 2.20 32.62 – 2.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (32.62-2.20) 100.0 (32.62-2.20)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.69 (at 2.20Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.201 , 0.269 0.198 , 0.214	Depositor DCC
R_{free} test set	1792 reflections (4.96%)	DCC
Wilson B-factor (Å ²)	31.6	Xtriage
Anisotropy	0.195	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 53.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.026 for -2/3*h-1/3*k+2/3*l,-1/3*h-2/3*k-2/3*l,2/3*h-2/3*k+1/3*l 0.013 for -h,1/3*h-1/3*k+2/3*l,2/3*h+4/3*k+1/3*l 0.015 for -1/3*h+1/3*k-2/3*l,-k,-4/3*h-2/3*k+1/3*l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5660	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.19% 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: MG, ANP

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	0.36	0/2561	0.51	0/3467
1	B	0.36	0/2549	0.50	0/3452
2	C	0.28	0/88	0.40	0/119
2	D	0.23	0/96	0.42	0/128
All	All	0.36	0/5294	0.50	0/7166

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 [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	2517	0	2509	27	0
1	B	2508	0	2493	34	0
2	C	89	0	72	2	0
2	D	97	0	87	3	0
3	A	31	0	13	0	0
3	B	31	0	13	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	208	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	170	0	0	2	0
5	C	4	0	0	0	0
5	D	3	0	0	1	0
All	All	5660	0	5187	63	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 6.

All (63) 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:119:ILE:O	1:B:123:LYS:HG3	1.94	0.67
1:A:5:ILE:HG12	1:A:14:LEU:CD2	2.27	0.63
2:D:107:GLU:OE2	5:D:2002:HOH:O	2.16	0.62
1:A:185:LEU:CD2	2:C:112:ALA:HA	2.30	0.61
1:B:123:LYS:HA	1:B:143:VAL:HG11	1.83	0.60
1:B:26:HIS:CD2	1:B:89:SER:HA	2.37	0.59
1:A:233:ASN:O	1:A:237:GLN:HG2	2.04	0.58
1:B:233:ASN:O	1:B:237:GLN:HG2	2.04	0.57
1:B:98:ILE:HD12	1:B:98:ILE:O	2.05	0.57
1:B:123:LYS:HE3	1:B:143:VAL:O	2.05	0.56
1:B:318:ILE:HD13	2:D:112:ALA:HB1	1.86	0.56
1:B:148:GLU:O	1:B:149:SER:HB3	2.07	0.54
1:A:185:LEU:O	1:A:185:LEU:HG	2.08	0.52
1:B:234:TYR:CE2	1:B:238:ARG:HD3	2.44	0.52
1:A:5:ILE:O	1:A:100:CYS:HA	2.10	0.52
1:B:1:MET:HG2	1:B:2:LEU:N	2.24	0.52
1:B:120:GLU:HB2	5:B:2069:HOH:O	2.09	0.52
1:B:97:ASP:CG	1:B:142:ASP:HB3	2.30	0.52
1:B:36:TRP:NE1	1:B:54:GLN:HB2	2.25	0.52
1:A:297:ARG:NH1	1:A:299:GLU:OE1	2.43	0.51
1:A:165:SER:OG	1:A:273:TYR:HA	2.11	0.51
1:A:125:ASN:OD1	1:A:128:LYS:NZ	2.32	0.50
1:B:1:MET:CG	1:B:2:LEU:N	2.75	0.50
1:A:5:ILE:HD12	1:A:98:ILE:HB	1.94	0.49
1:A:239:ILE:HD13	1:A:248:VAL:HG21	1.94	0.48
1:B:93:VAL:HA	1:B:138:PHE:CZ	2.48	0.48
1:B:156:VAL:O	1:B:160:LEU:HD13	2.13	0.48
1:B:244:LYS:NZ	5:B:2106:HOH:O	2.46	0.48
2:D:105:ASP:N	2:D:108:THR:HG1	2.12	0.48
1:B:170:ASP:HB3	1:B:177:ASP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:TRP:NE1	1:A:91:LEU:HD21	2.30	0.47
1:A:97:ASP:OD1	1:A:142:ASP:HB3	2.15	0.47
1:B:49:THR:HB	1:B:131:THR:HB	1.97	0.47
1:B:36:TRP:CD1	1:B:54:GLN:HB2	2.50	0.46
1:A:190:LYS:NZ	1:A:269:GLU:O	2.49	0.46
1:B:98:ILE:HD11	1:B:143:VAL:HG22	1.97	0.46
1:B:225:ILE:HG23	1:B:235:LEU:HD22	1.96	0.46
1:A:118:ASN:ND2	5:A:2069:HOH:O	2.47	0.46
1:B:221:LEU:HB3	1:B:238:ARG:HH22	1.80	0.46
1:B:98:ILE:HD12	1:B:98:ILE:C	2.36	0.46
1:A:150:ILE:HB	1:A:151:PRO:HD3	1.98	0.45
1:A:36:TRP:CD1	1:A:54:GLN:HB3	2.51	0.45
1:A:50:LEU:HD23	1:A:51:ASN:HB2	1.98	0.45
1:B:141:LYS:HE2	1:B:141:LYS:HA	1.99	0.45
1:B:8:GLY:O	1:B:72:TRP:CH2	2.69	0.44
1:B:47:ASN:OD1	1:B:56:SER:HB3	2.18	0.44
1:A:262:ARG:HD2	5:A:2167:HOH:O	2.17	0.44
1:A:154:TYR:CD1	1:A:318:ILE:HG12	2.53	0.43
1:A:83:HIS:CD2	1:A:130:ILE:HG21	2.54	0.43
1:A:164:ASP:HB3	1:A:274:THR:OG1	2.19	0.43
1:B:123:LYS:CE	1:B:143:VAL:O	2.66	0.43
1:B:16:TRP:CE2	1:B:24:LYS:HB2	2.54	0.43
1:B:1:MET:CG	1:B:2:LEU:H	2.32	0.42
1:A:16:TRP:CE2	1:A:24:LYS:HB2	2.55	0.42
1:A:8:GLY:O	1:A:72:TRP:CH2	2.73	0.42
1:B:202:VAL:HG21	1:B:256:LEU:HD23	2.02	0.41
1:B:102:LEU:HD12	1:B:145:VAL:HG11	2.03	0.41
1:B:156:VAL:O	1:B:160:LEU:CD1	2.69	0.41
1:A:293:HIS:ND1	5:A:2188:HOH:O	2.37	0.41
1:A:171:LEU:HD22	1:A:286:ILE:HD13	2.03	0.40
1:B:19:SER:C	1:B:21:GLY:H	2.25	0.40
1:A:185:LEU:HD23	2:C:112:ALA:N	2.36	0.40
1:A:13:LYS:HD3	1:A:308:GLN:HG2	2.02	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	319/320 (100%)	306 (96%)	13 (4%)	0	100	100
1	B	318/320 (99%)	300 (94%)	18 (6%)	0	100	100
2	C	11/17 (65%)	11 (100%)	0	0	100	100
2	D	11/17 (65%)	10 (91%)	1 (9%)	0	100	100
All	All	659/674 (98%)	627 (95%)	32 (5%)	0	100	100

There are no Ramachandran outliers to report.

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	284/283 (100%)	283 (100%)	1 (0%)	93	97
1	B	282/283 (100%)	280 (99%)	2 (1%)	87	93
2	C	8/16 (50%)	8 (100%)	0	100	100
2	D	10/16 (62%)	10 (100%)	0	100	100
All	All	584/598 (98%)	581 (100%)	3 (0%)	91	96

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

Mol	Chain	Res	Type
1	A	13	LYS
1	B	13	LYS
1	B	185	LEU

Some 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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	ANP	A	500	4	29,33,33	2.00	8 (27%)	28,52,52	2.08	5 (17%)
3	ANP	B	500	4	29,33,33	1.83	8 (27%)	28,52,52	2.27	6 (21%)

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	ANP	A	500	4	-	0/13/38/38	0/3/3/3
3	ANP	B	500	4	-	1/13/38/38	0/3/3/3

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	500	ANP	PG-O2G	-2.13	1.50	1.56
3	A	500	ANP	PG-O2G	-2.08	1.51	1.56
3	A	500	ANP	PG-O3G	-2.05	1.51	1.56
3	B	500	ANP	C2-N3	2.13	1.35	1.32
3	B	500	ANP	O4'-C1'	2.25	1.44	1.41
3	A	500	ANP	PB-O3A	2.46	1.62	1.59
3	B	500	ANP	PB-O1B	2.50	1.48	1.46
3	A	500	ANP	PB-O1B	2.77	1.49	1.46
3	B	500	ANP	C5-C4	2.89	1.47	1.40
3	A	500	ANP	C5-C4	3.20	1.47	1.40
3	B	500	ANP	PB-N3B	3.98	1.73	1.63
3	B	500	ANP	PG-N3B	4.10	1.74	1.63
3	B	500	ANP	PG-O1G	4.48	1.51	1.46
3	A	500	ANP	PB-N3B	4.70	1.75	1.63
3	A	500	ANP	PG-N3B	4.71	1.75	1.63
3	A	500	ANP	PG-O1G	4.86	1.51	1.46

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	500	ANP	N3-C2-N1	-6.90	122.84	128.86
3	B	500	ANP	O1G-PG-N3B	-6.88	101.50	111.79
3	B	500	ANP	N3-C2-N1	-6.23	123.43	128.86
3	A	500	ANP	O1G-PG-N3B	-5.37	103.76	111.79
3	B	500	ANP	C4-C5-N7	-2.98	106.53	109.41
3	A	500	ANP	C4-C5-N7	-2.20	107.28	109.41
3	B	500	ANP	PA-O3A-PB	-2.12	124.89	132.38
3	A	500	ANP	C2-N1-C6	2.07	122.39	118.77
3	B	500	ANP	O1B-PB-N3B	2.25	115.15	111.79
3	A	500	ANP	O2B-PB-O1B	2.46	114.99	109.87
3	B	500	ANP	O2B-PB-O1B	3.45	117.04	109.87

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	500	ANP	O1G-PG-N3B-PB

There are no ring outliers.

No monomer is involved in short contacts.

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	320/320 (100%)	-0.15	9 (2%) 53 51	18, 36, 57, 71	0
1	B	320/320 (100%)	-0.05	10 (3%) 49 47	17, 38, 61, 75	0
2	C	13/17 (76%)	0.17	0 100 100	46, 51, 61, 72	0
2	D	13/17 (76%)	0.47	0 100 100	53, 59, 69, 75	0
All	All	666/674 (98%)	-0.08	19 (2%) 52 50	17, 38, 61, 75	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	22	THR	6.7
1	B	21	GLY	6.7
1	A	19	SER	4.9
1	B	19	SER	4.5
1	B	92	PRO	4.1
1	A	21	GLY	3.5
1	A	42	ASP	3.2
1	B	90	GLY	2.9
1	B	18	GLU	2.8
1	B	20	ASP	2.8
1	B	23	ILE	2.8
1	B	120	GLU	2.4
1	A	43	LYS	2.4
1	A	24	LYS	2.4
1	A	95	GLU	2.3
1	A	93	VAL	2.3
1	B	161	ASP	2.2
1	A	161	ASP	2.1
1	A	92	PRO	2.1

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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
4	MG	B	501	1/1	0.96	0.23	2.99	26,26,26,26	0
4	MG	A	501	1/1	0.98	0.21	1.65	23,23,23,23	0
3	ANP	A	500	31/31	0.99	0.10	-0.66	17,25,35,40	0
3	ANP	B	500	31/31	0.98	0.11	-0.69	15,24,34,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.