

Full wwPDB X-ray Structure Validation Report (i)

Mar 18, 2024 – 10:21 AM JST

PDB ID	:	5XD6
Title	:	CARK1 phosphorylates ABA receptors
Authors	:	Zhang, L.; Lou, Z.
Deposited on		
Resolution	:	1.90 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 (i) 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 (1)) were used in the production of this report:

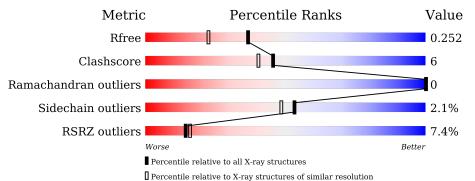
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 1.90 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 <=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	А	305	<mark>6%</mark> 79%	12%	·	8%
1	В	305	8%	13%	·	8%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 4772 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.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	282	Total	С	Ν	0	S	0	0	0
			2181	1385	387	403	6	0		0
1	D	202	Total	С	Ν	0	S	0	0	0
	D	282	2164	1377	379	402	6	0	U	U

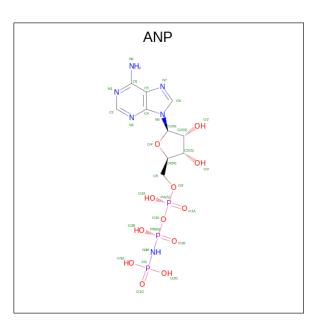
• Molecule 1 is a protein called Protein kinase superfamily protein.

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	46	HIS	-	expression tag	UNP Q9LUT0
А	47	HIS	-	expression tag	UNP Q9LUT0
А	48	HIS	-	expression tag	UNP Q9LUT0
А	49	HIS	-	expression tag	UNP Q9LUT0
В	46	HIS	-	expression tag	UNP Q9LUT0
В	47	HIS	-	expression tag	UNP Q9LUT0
В	48	HIS	-	expression tag	UNP Q9LUT0
В	49	HIS	_	expression tag	UNP Q9LUT0

• Molecule 2 is PHOSPHOAMINOPHOSPHONIC ACID-ADENYLATE ESTER (three-letter code: ANP) (formula: $C_{10}H_{17}N_6O_{12}P_3$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
0	2 A	1	Total	С	Ν	Ο	Р	0	0	
		1	31	10	6	12	3	0	0	
0	D	1	Total	С	Ν	Ο	Р	0	0	
	D	1	31	10	6	12	3	0	U	

• Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Mg 1 1	0	0
3	В	1	Total Mg 1 1	0	0

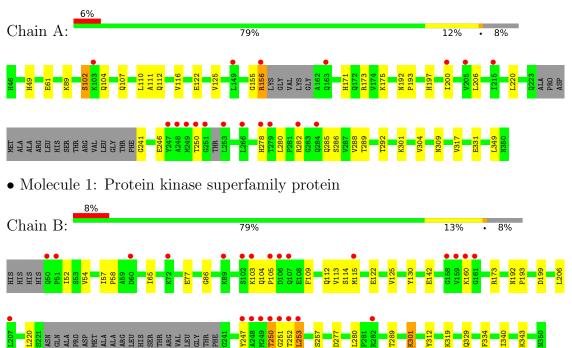
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	224	Total O 224 224	0	0
4	В	139	Total O 139 139	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: Protein kinase superfamily protein



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	69.72Å 46.66Å 110.51Å	Deperitor
a, b, c, α , β , γ	90.00° 105.77° 90.00°	Depositor
Resolution (Å)	29.75 - 1.90	Depositor
Resolution (A)	29.76 - 1.90	EDS
% Data completeness	98.0 (29.75-1.90)	Depositor
(in resolution range)	98.0 (29.76-1.90)	EDS
R _{merge}	0.06	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.10 (at 1.89 \text{\AA})$	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
P. P.	0.217 , 0.251	Depositor
R, R_{free}	0.219 , 0.252	DCC
R_{free} test set	2702 reflections (5.05%)	wwPDB-VP
Wilson B-factor $(Å^2)$	32.7	Xtriage
Anisotropy	0.411	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 39.8	EDS
L-test for twinning ²	$< L > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.017 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4772	wwPDB-VP
Average B, all atoms $(Å^2)$	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.18% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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		
	Chain	RMSZ # 2		RMSZ	# Z > 5	
1	А	0.48	0/2227	0.62	1/3020~(0.0%)	
1	В	0.41	0/2208	0.60	2/2995~(0.1%)	
All	All	0.44	0/4435	0.61	3/6015~(0.0%)	

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	В	173	ARG	NE-CZ-NH1	7.24	123.92	120.30
1	В	173	ARG	NE-CZ-NH2	-7.08	116.76	120.30
1	А	173	ARG	NE-CZ-NH2	-5.59	117.50	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	А	2181	0	2188	30	1
1	В	2164	0	2196	26	0
2	А	31	0	13	0	0
2	В	31	0	13	1	0
3	А	1	0	0	0	0
3	В	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	А	224	0	0	18	1
4	В	139	0	0	3	0
All	All	4772	0	4410	56	1

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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 (56) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	$distance (\text{\AA})$	overlap (Å)
1:A:155:GLY:O	1:A:156:ARG:HB2	1.73	0.88
1:A:107:GLN:O	4:A:1101:HOH:O	1.92	0.87
1:A:280:LEU:O	4:A:1102:HOH:O	1.99	0.80
1:A:241:GLY:N	4:A:1105:HOH:O	2.17	0.77
1:A:285:GLN:NE2	4:A:1102:HOH:O	2.17	0.77
4:A:1126:HOH:O	1:B:343:LYS:HD3	1.87	0.75
1:B:125:VAL:HG21	1:B:206:LEU:HD12	1.70	0.74
1:A:278:HIS:O	4:A:1102:HOH:O	2.04	0.74
1:A:292:THR:HG21	4:A:1283:HOH:O	1.98	0.63
1:B:329:GLN:NE2	4:B:1101:HOH:O	2.25	0.63
1:B:125:VAL:HG13	1:B:142:GLU:HB3	1.81	0.62
1:A:309:ASN:OD1	4:A:1103:HOH:O	2.16	0.62
1:B:277:ASP:HB3	1:B:280:LEU:HD12	1.81	0.61
1:A:102:SER:O	4:A:1104:HOH:O	2.16	0.59
1:B:289:THR:HG21	4:B:1206:HOH:O	2.03	0.58
1:A:107:GLN:HG2	4:A:1287:HOH:O	2.07	0.54
1:A:289:THR:HG22	4:A:1298:HOH:O	2.09	0.53
1:B:115:MET:HG2	4:B:1193:HOH:O	2.07	0.53
1:A:49:HIS:CE1	4:A:1101:HOH:O	2.63	0.52
1:A:104:GLN:OE1	4:A:1106:HOH:O	2.19	0.52
1:A:246:GLU:O	1:A:250:THR:HG22	2.10	0.51
1:A:197:HIS:HB3	1:A:200:ILE:HD11	1.94	0.50
1:B:52:ILE:HG22	1:B:54:VAL:H	1.76	0.50
1:B:104:GLN:HG3	1:B:105:PRO:HD2	1.94	0.50
1:A:288:VAL:O	1:A:292:THR:HG23	2.11	0.50
1:B:112:GLN:NE2	1:B:220:LEU:O	2.46	0.49
1:A:112:GLN:O	1:A:116:VAL:HG23	2.14	0.48
1:B:301:LYS:HE2	1:B:312:TYR:OH	2.13	0.48
1:A:61:GLU:HG3	1:A:89:LYS:HE2	1.96	0.47
1:B:253:LEU:HD13	1:B:257:SER:HB2	1.95	0.47
1:B:65:ILE:CG2	1:B:86:GLY:HA3	2.45	0.46

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	1.0	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:A:197:HIS:HB3	1:A:200:ILE:CD1	2.46	0.46
1:A:304:VAL:HG11	1:A:317:VAL:HG11	1.97	0.45
1:A:112:GLN:HB3	1:A:220:LEU:HD13	1.99	0.44
1:A:171:HIS:HD2	4:A:1254:HOH:O	2.00	0.44
1:B:199:ASP:OD2	2:B:1000:ANP:O3G	2.35	0.44
1:A:111:ALA:N	4:A:1101:HOH:O	2.50	0.44
1:B:122:GLU:CD	1:B:122:GLU:H	2.20	0.44
1:B:52:ILE:HG21	1:B:130:TYR:CE2	2.54	0.42
1:B:57:ILE:HA	1:B:58:PRO:HD2	1.86	0.42
1:A:155:GLY:O	1:A:156:ARG:CB	2.55	0.42
1:B:329:GLN:HG2	1:B:334:PHE:HB2	2.02	0.42
1:A:122:GLU:HG3	4:A:1192:HOH:O	2.19	0.42
1:B:109:PHE:O	1:B:113:VAL:HG23	2.20	0.42
1:A:125:VAL:HG21	1:A:206:LEU:HD12	2.00	0.42
1:B:192:ASN:HA	1:B:193:PRO:HA	1.85	0.41
1:B:319:LYS:HD3	1:B:319:LYS:HA	1.87	0.41
1:A:110:LEU:HB2	4:A:1101:HOH:O	2.19	0.41
1:A:331:GLU:HG3	4:A:1110:HOH:O	2.21	0.41
1:B:340:ILE:HD13	1:B:340:ILE:HA	1.85	0.41
1:A:192:ASN:HA	1:A:193:PRO:HA	1.85	0.41
1:B:52:ILE:HG13	1:B:114:SER:HB3	2.04	0.40
1:B:250:THR:C	1:B:252:THR:H	2.25	0.40
1:A:175:LYS:HA	1:A:349:LEU:HD21	2.03	0.40
1:B:160:LYS:HE2	1:B:160:LYS:HB3	1.97	0.40
1:B:250:THR:OG1	1:B:251:GLY:N	2.54	0.40

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All (1) 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)
1:A:301:LYS:NZ	4:A:1102:HOH:O[2_455]	2.14	0.06

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.



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	ntiles
1	А	274/305~(90%)	272~(99%)	2(1%)	0	100	100
1	В	278/305~(91%)	272 (98%)	6(2%)	0	100	100
All	All	552/610~(90%)	544 (99%)	8 (1%)	0	100	100

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

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	А	234/251~(93%)	230~(98%)	4 (2%)	60 57
1	В	232/251~(92%)	226~(97%)	6 (3%)	46 39
All	All	466/502~(93%)	456 (98%)	10 (2%)	53 48

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	102	SER
1	А	156	ARG
1	А	282	ARG
1	А	286	SER
1	В	77	GLU
1	В	103	LYS
1	В	247	TYR
1	В	250	THR
1	В	253	LEU
1	В	301	LYS

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such side chains are listed below:



Mol	Chain	Res	Type
1	В	104	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 monosaccharides 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	Bo	ond leng	\mathbf{ths}	В	ond ang	les
IVIOI	туре	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
2	ANP	А	1000	3	29,33,33	2.16	5 (17%)	$31,\!52,\!52$	0.95	2 (6%)
2	ANP	В	1000	3	29,33,33	1.60	3 (10%)	31,52,52	1.08	2 (6%)

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	ANP	А	1000	3	-	2/14/38/38	0/3/3/3
2	ANP	В	1000	3	-	1/14/38/38	0/3/3/3

All (8) bond length outliers are listed below:



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Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
2	А	1000	ANP	PG-01G	8.01	1.58	1.46
2	В	1000	ANP	PB-O1B	6.43	1.56	1.46
2	А	1000	ANP	PB-O1B	5.83	1.55	1.46
2	А	1000	ANP	PG-O3G	-2.75	1.49	1.56
2	А	1000	ANP	PB-O2B	-2.70	1.49	1.56
2	В	1000	ANP	PG-N3B	2.48	1.69	1.63
2	А	1000	ANP	PG-N3B	2.48	1.69	1.63
2	В	1000	ANP	PB-O2B	-2.41	1.50	1.56

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	А	1000	ANP	O2G-PG-O1G	-2.74	106.56	113.45
2	В	1000	ANP	O1G-PG-N3B	2.71	115.75	111.77
2	В	1000	ANP	C5-C6-N6	2.58	124.28	120.35
2	А	1000	ANP	C5-C6-N6	2.15	123.62	120.35

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	1000	ANP	PB-N3B-PG-O1G
2	А	1000	ANP	PG-N3B-PB-O1B
2	В	1000	ANP	PG-N3B-PB-O1B

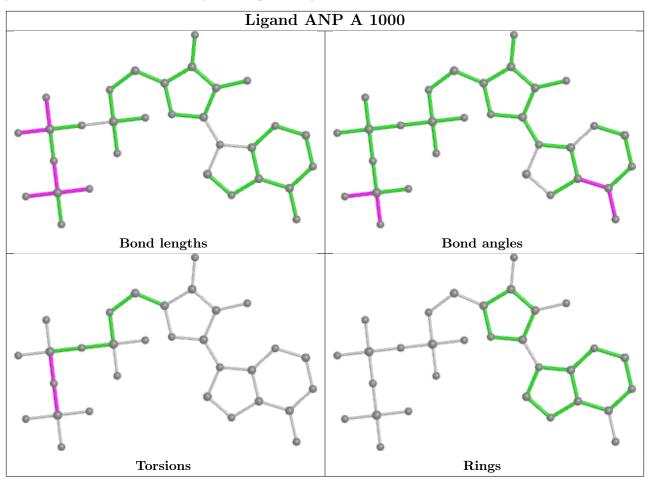
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	1000	ANP	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient

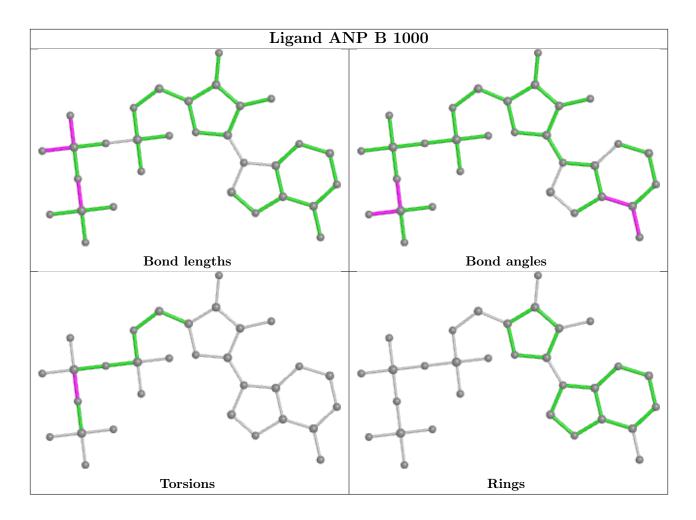




equivalents in the CSD to analyse the geometry.







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, 95^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2		$OWAB(Å^2)$	Q<0.9	
1	А	282/305~(92%)	0.28	18 (6%)	19	22	19, 29, 53, 98	0
1	В	282/305~(92%)	0.46	24 (8%)	10	12	22, 34, 71, 101	0
All	All	564/610~(92%)	0.37	42 (7%)	14	16	19, 32, 66, 101	0

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	251	GLY	7.0
1	В	252	THR	6.9
1	В	247	TYR	6.4
1	А	248	ALA	6.3
1	В	253	LEU	5.7
1	А	247	TYR	5.6
1	В	160	LYS	5.3
1	А	253	LEU	4.7
1	А	249	MET	4.6
1	В	251	GLY	4.6
1	В	103	LYS	4.5
1	В	248	ALA	4.3
1	В	249	MET	4.2
1	В	107	GLN	4.1
1	В	158	GLY	4.0
1	В	159	VAL	3.9
1	В	282	ARG	3.8
1	А	279	THR	3.7
1	А	250	THR	3.6
1	В	250	THR	3.4
1	А	156	ARG	3.2
1	А	103	LYS	3.2
1	А	282	ARG	3.1
1	A	215	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
1	В	161	GLY	2.8
1	В	51	PRO	2.7
1	В	102	SER	2.6
1	В	106	ASP	2.6
1	В	89	LYS	2.6
1	В	72	LYS	2.5
1	А	205	VAL	2.4
1	А	163	GLN	2.3
1	А	278	HIS	2.3
1	В	50	GLN	2.2
1	А	284	GLN	2.2
1	В	105	PRO	2.2
1	В	115	MET	2.2
1	А	149	LEU	2.1
1	А	266	LEU	2.1
1	В	60	ASP	2.1
1	А	200	ILE	2.1
1	В	207	LEU	2.0

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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.

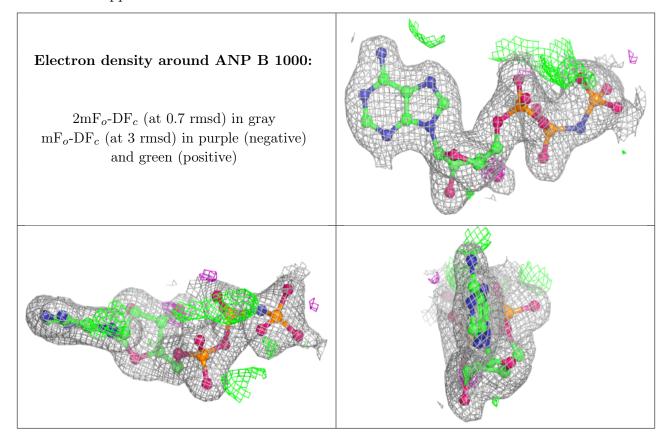
6.4 Ligands (i)

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, 95^{th} 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.

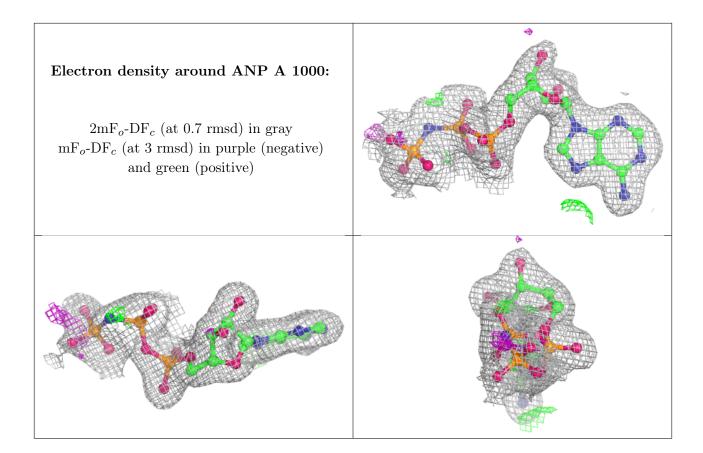
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	MG	В	1001	1/1	0.72	0.11	32,32,32,32	0
2	ANP	В	1000	31/31	0.95	0.09	23,30,43,45	0
2	ANP	А	1000	31/31	0.95	0.11	20,28,36,42	0
3	MG	А	1001	1/1	0.97	0.05	26,26,26,26	0



The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.







6.5 Other polymers (i)

There are no such residues in this entry.

