

Full wwPDB X-ray Structure Validation Report (i)

Oct 13, 2024 – 06:04 am BST

PDB ID : 5O26

Title : Crystal structure of WNK3 kinase domain in a diphosphorylated state and in

complex with AMP-PNP/Mg2+

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Deposited on : 2017-05-19

Resolution : 2.38 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:

 $Mol Probity \quad : \quad 4.02b\text{--}467$

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 3.0

buster-report : 1.1.7 (2018)

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

CCP4 : 9.0.003 (Gargrove)

 $Density-Fitness \quad : \quad 1.0.11$

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

Validation Pipeline (wwPDB-VP) : 2.39

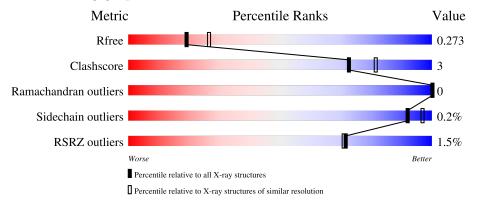


1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 2.38 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	164625	6699 (2.40-2.36)
Clashscore	180529	7414 (2.40-2.36)
Ramachandran outliers	177936	7337 (2.40-2.36)
Sidechain outliers	177891	7338 (2.40-2.36)
RSRZ outliers	164620	6699 (2.40-2.36)

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	A	284	87%	9%	-
1	В	284	85%	9%	6%



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4489 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 Serine/threonine-protein kinase WNK3.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace			
1	A	273	Total 2143	C 1362		_			0	0	0
1	В	267	Total 2111	C 1342		_	P 2	D	0	1	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	131	SER	-	expression tag	UNP Q9BYP7
A	132	MET	-	expression tag	UNP Q9BYP7
В	131	SER	-	expression tag	UNP Q9BYP7
В	132	MET	-	expression tag	UNP Q9BYP7

• Molecule 2 is PHOSPHOAMINOPHOSPHONIC ACID-ADENYLATE ESTER (three-letter code: ANP) (formula: C₁₀H₁₇N₆O₁₂P₃).

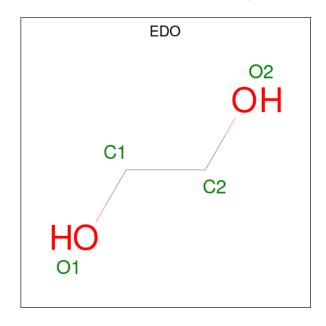


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf			
2	Λ	1	Total	С	N	О	Р	0	0	
2	A	1	31	10	6	12	3	U		
9	D	1	Total	С	N	О	Р	0	0	
	Б	1	31	10	6	12	3	U	U	

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	2	Total Mg 2 2	0	0
3	В	2	Total Mg 2 2	0	0

 \bullet Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



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

• Molecule 5 is water.

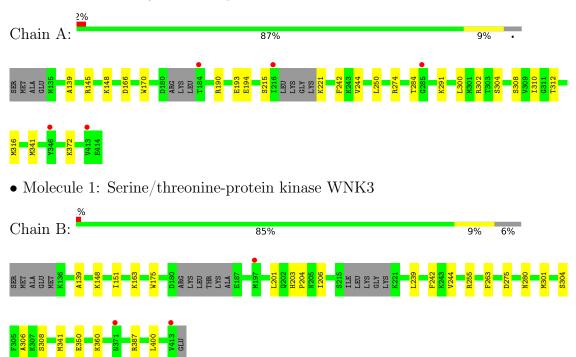
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	83	Total O 83 83	0	0
5	В	82	Total O 82 82	0	0



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: Serine/threonine-protein kinase WNK3





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	36.16Å 56.40Å 71.24Å	Depositor
a, b, c, α , β , γ	79.79° 80.73° 90.00°	Depositor
Resolution (Å)	47.66 - 2.38	Depositor
rtesolution (A)	47.66 - 2.38	EDS
% Data completeness	98.0 (47.66-2.38)	Depositor
(in resolution range)	98.0 (47.66-2.38)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.44 (at 2.37Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
P. P.	0.228 , 0.278	Depositor
R, R_{free}	0.227 , 0.273	DCC
R_{free} test set	1108 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	21.0	Xtriage
Anisotropy	0.713	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 37.8	EDS
L-test for twinning ²	$ < L > = 0.47, < L^2> = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	4489	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.56% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ 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: ANP, EDO, MG, SEP

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.24	0/2165	0.42	0/2924	
1	В	0.24	0/2132	0.42	0/2878	
All	All	0.24	0/4297	0.42	0/5802	

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	2143	0	2069	13	0
1	В	2111	0	2058	12	0
2	A	31	0	13	1	0
2	В	31	0	13	0	0
3	A	2	0	0	0	0
3	В	2	0	0	0	0
4	A	4	0	6	1	0
5	A	83	0	0	1	0
5	В	82	0	0	0	0
All	All	4489	0	4159	26	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 (26) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1		${f distance}({ m \AA})$	$overlap(ext{Å})$
1:B:239:LEU:HD11	1:B:341:MET:HA	1.72	0.72
1:B:203:HIS:HB3	1:B:206:ILE:HG22	1.83	0.61
1:A:190:ARG:NH2	1:A:300:LEU:O	2.36	0.58
1:A:194:GLU:HA	1:A:300:LEU:HD11	1.85	0.57
1:A:250:LEU:HG	1:A:341:MET:HE2	1.86	0.57
1:A:284:THR:HG21	1:A:291:LYS:HG3	1.87	0.55
1:B:151:ILE:HB	1:B:163:LYS:HB2	1.89	0.54
1:A:215:SER:O	1:A:221:LYS:N	2.42	0.53
2:A:501:ANP:O3G	2:A:501:ANP:O2B	2.26	0.53
1:A:139:ALA:HB3	1:A:148:LYS:HB3	1.92	0.52
1:B:350:GLU:OE1	1:B:360:LYS:NZ	2.42	0.52
1:A:193:GLU:HB2	1:A:302:ARG:HH22	1.77	0.50
1:B:139:ALA:HB3	1:B:148:LYS:HB3	1.94	0.50
1:A:274:ARG:NH2	1:A:310:ILE:HD11	2.27	0.49
1:B:148:LYS:HB2	1:B:175:TRP:CD2	2.48	0.48
1:A:242:PHE:O	1:A:244:VAL:N	2.45	0.47
1:B:255:ARG:NH2	1:B:400:LEU:O	2.47	0.47
1:A:145:ARG:HB2	4:A:504:EDO:H21	1.97	0.47
1:B:275:ASP:O	1:B:280:ASN:ND2	2.49	0.46
1:A:166:ASP:O	1:A:170:TRP:N	2.42	0.46
1:A:312:THR:O	1:A:316:MET:HG3	2.15	0.45
1:B:301:MET:HE1	1:B:306:ALA:HB2	1.97	0.45
1:B:203:HIS:CD2	1:B:204:PRO:HD2	2.53	0.44
1:B:201:LEU:HD13	1:B:263:PHE:HE2	1.84	0.43
1:A:372:LYS:NZ	5:A:611:HOH:O	2.47	0.43
1:B:242:PHE:C	1:B:244:VAL:H	2.22	0.42

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	Perce	ntiles
1	A	265/284~(93%)	253 (96%)	12 (4%)	0	100	100
1	В	260/284~(92%)	250 (96%)	10 (4%)	0	100	100
All	All	525/568~(92%)	503 (96%)	22 (4%)	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	Perc	entiles
1	A	225/248 (91%)	225 (100%)	0	100	100
1	В	224/248 (90%)	223 (100%)	1 (0%)	89	95
All	All	449/496 (90%)	448 (100%)	1 (0%)	92	97

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	387	ARG

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)

4 non-standard protein/DNA/RNA residues 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	Tuno	Chain	Res	Link	В	ond leng	gths	В	ond ang	gles
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
1	SEP	В	304	1	8,9,10	1.56	1 (12%)	8,12,14	1.52	2 (25%)
1	SEP	В	308	1	8,9,10	1.53	1 (12%)	8,12,14	1.51	2 (25%)
1	SEP	A	308	1	8,9,10	1.54	1 (12%)	8,12,14	1.64	2 (25%)
1	SEP	A	304	1	8,9,10	1.56	1 (12%)	8,12,14	1.85	2 (25%)

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
1	SEP	В	304	1	-	1/5/8/10	-
1	SEP	В	308	1	-	1/5/8/10	-
1	SEP	A	308	1	-	3/5/8/10	-
1	SEP	A	304	1	-	0/5/8/10	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
1	A	304	SEP	P-O1P	3.39	1.61	1.50
1	В	304	SEP	P-O1P	3.38	1.61	1.50
1	A	308	SEP	P-O1P	3.35	1.61	1.50
1	В	308	SEP	P-O1P	3.31	1.61	1.50

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}(^{o})$
1	A	304	SEP	P-OG-CB	-3.59	108.40	118.30
1	A	304	SEP	OG-CB-CA	3.34	111.39	108.14
1	В	304	SEP	P-OG-CB	-3.05	109.89	118.30
1	A	308	SEP	OG-CB-CA	3.00	111.06	108.14
1	A	308	SEP	P-OG-CB	-2.99	110.06	118.30
1	В	308	SEP	OG-CB-CA	2.74	110.82	108.14
1	В	308	SEP	P-OG-CB	-2.62	111.07	118.30
1	В	304	SEP	OG-CB-CA	2.44	110.52	108.14



There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	308	SEP	CB-OG-P-O1P
1	A	308	SEP	CB-OG-P-O2P
1	A	308	SEP	CB-OG-P-O3P
1	В	308	SEP	CB-OG-P-O1P
1	В	304	SEP	CB-OG-P-O2P

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)

Of 7 ligands modelled in this entry, 4 are monoatomic - leaving 3 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	Trmo	Chain	Res	Link	Bond lengths			В	Bond angles	
MIOI	Type	Chain		LillK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EDO	A	504	-	3,3,3	0.47	0	2,2,2	0.34	0
2	ANP	A	501	3	29,33,33	1.14	4 (13%)	31,52,52	1.09	2 (6%)
2	ANP	В	501	3	29,33,33	2.15	7 (24%)	31,52,52	1.13	3 (9%)

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	\mathbf{Type}	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	A	504	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ANP	A	501	3	-	2/14/38/38	0/3/3/3
2	ANP	В	501	3	-	4/14/38/38	0/3/3/3

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\mathring{A}})$	$\operatorname{Ideal}(\text{\AA})$
2	В	501	ANP	PG-O1G	7.46	1.58	1.46
2	В	501	ANP	PB-O1B	6.25	1.56	1.46
2	В	501	ANP	PG-N3B	2.70	1.70	1.63
2	В	501	ANP	PB-O2B	-2.60	1.49	1.56
2	В	501	ANP	PG-O2G	-2.54	1.49	1.56
2	A	501	ANP	PG-N3B	2.51	1.69	1.63
2	A	501	ANP	PG-O1G	2.39	1.49	1.46
2	A	501	ANP	PB-O1B	2.37	1.49	1.46
2	A	501	ANP	PB-O3A	-2.35	1.56	1.59
2	В	501	ANP	PB-N3B	2.16	1.69	1.63
2	В	501	ANP	PB-O3A	-2.06	1.56	1.59

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	501	ANP	PB-O3A-PA	-3.86	119.02	132.62
2	A	501	ANP	PB-O3A-PA	-3.58	120.00	132.62
2	В	501	ANP	C5-C6-N6	2.35	123.92	120.35
2	A	501	ANP	C5-C6-N6	2.28	123.81	120.35
2	В	501	ANP	O1G-PG-N3B	-2.03	108.78	111.77

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	ANP	PB-N3B-PG-O1G
2	A	501	ANP	PG-N3B-PB-O1B
2	В	501	ANP	PB-N3B-PG-O1G
2	В	501	ANP	O4'-C4'-C5'-O5'
4	A	504	EDO	O1-C1-C2-O2
2	В	501	ANP	C4'-C5'-O5'-PA
2	В	501	ANP	PB-O3A-PA-O2A

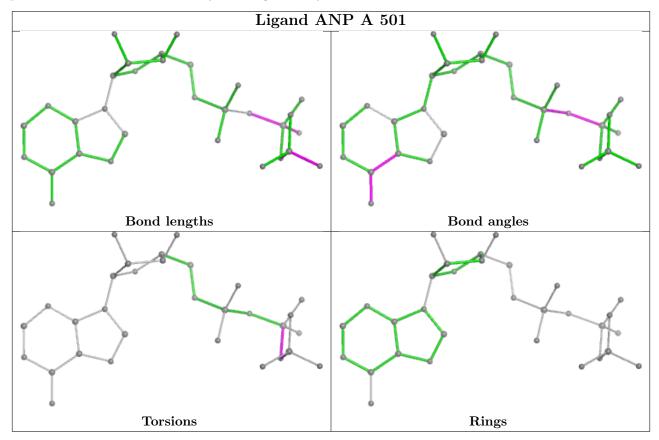
There are no ring outliers.

2 monomers are involved in 2 short contacts:

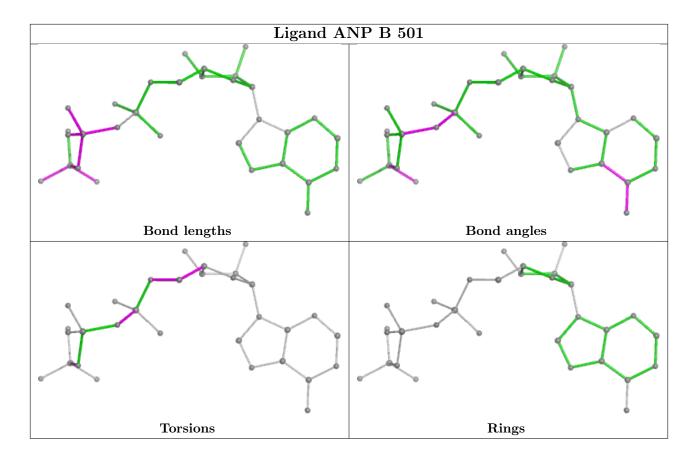


Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	504	EDO	1	0
2	A	501	ANP	1	0

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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	271/284 (95%)	0.39	5 (1%) 67 66	11, 19, 32, 43	0
1	В	265/284 (93%)	0.37	3 (1%) 77 77	10, 20, 31, 37	1 (0%)
All	All	536/568 (94%)	0.38	8 (1%) 71 71	10, 19, 32, 43	1 (0%)

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	184	THR	2.8
1	A	346	TYR	2.7
1	A	216	ILE	2.6
1	В	413	VAL	2.6
1	A	285	GLY	2.5
1	A	413	VAL	2.4
1	В	371	ASN	2.2
1	В	197	MET	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, 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
1	SEP	В	304	10/11	0.79	0.12	31,35,44,55	0
1	SEP	A	304	10/11	0.82	0.14	27,34,50,54	0
1	SEP	A	308	10/11	0.93	0.08	16,18,28,29	0
1	SEP	В	308	10/11	0.96	0.08	13,15,21,28	0



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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
4	EDO	A	504	4/4	0.84	0.12	24,26,28,28	0
3	MG	В	503	1/1	0.87	0.12	17,17,17,17	0
3	MG	A	503	1/1	0.89	0.06	21,21,21,21	0
2	ANP	В	501	31/31	0.96	0.08	10,14,20,21	0
2	ANP	A	501	31/31	0.96	0.08	15,18,22,26	0
3	MG	A	502	1/1	0.97	0.06	11,11,11,11	0
3	MG	В	502	1/1	0.97	0.09	15,15,15,15	0

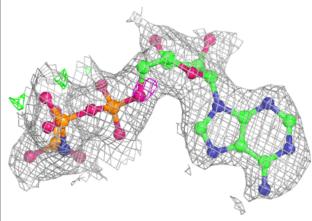
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

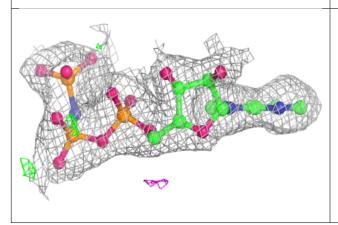


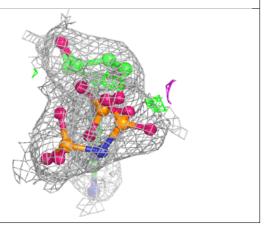
Electron density around ANP B 501: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

Electron density around ANP A 501:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${
m mF}_o ext{-}{
m DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)









6.5 Other polymers (i)

There are no such residues in this entry.

