



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2026 – 10:45 AM UTC

PDB ID : 2C6D / pdb_00002c6d
Title : Aurora A kinase activated mutant (T287D) in complex with ADPNP
Authors : Paupit, R.A.; Pannifer, A.D.; Breed, J.; McMiken, H.H.J.; Rowsell, S.; Anderson, M.
Deposited on : 2005-11-09
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

<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
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

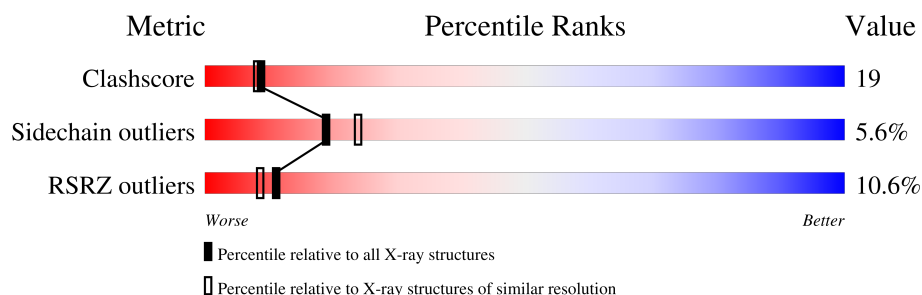
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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))
Clashscore	190562	6851 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (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 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	275	10% 63% 26% • 7%

2 Entry composition [i](#)

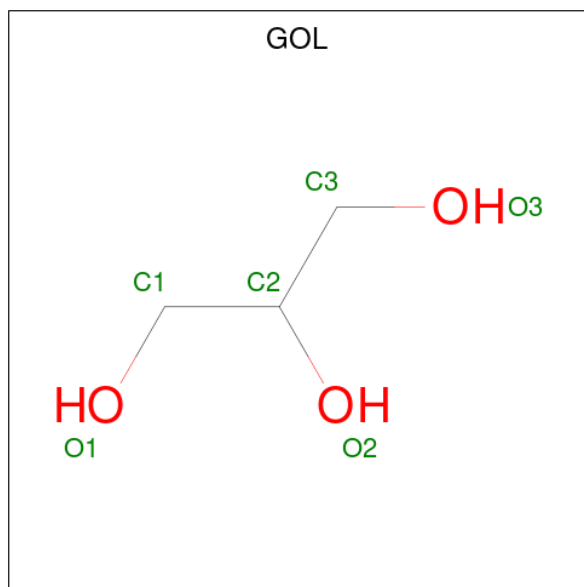
There are 5 unique types of molecules in this entry. The entry contains 2274 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 6.

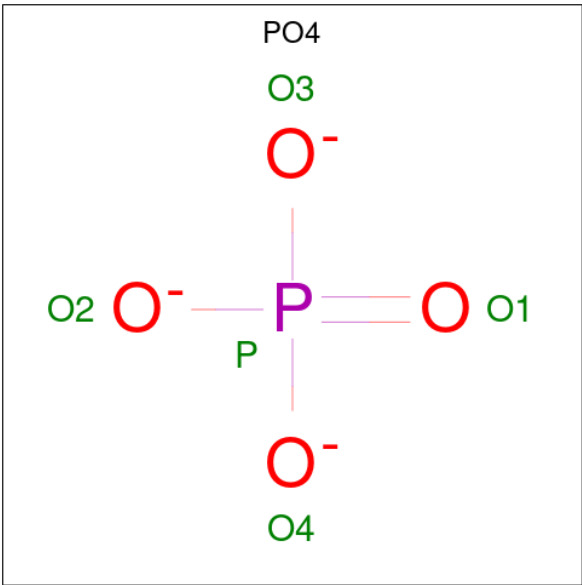
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	255	2053	1324	356	368	5	0	0	1

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



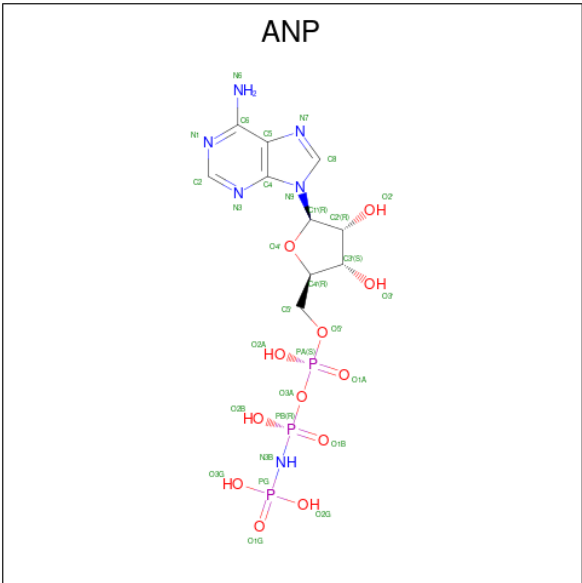
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	6	3	3	0	0

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	O	P		0	0
			5	4	1			

- Molecule 4 is PHOSPHOAMINOPHOSPHONIC ACID-ADENYLATE ESTER (CCD ID: ANP) (formula: C₁₀H₁₇N₆O₁₂P₃).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	156	Total 156	O 156	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	86.50Å 86.50Å 78.30Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	38.00 – 2.20 38.00 – 2.20	Depositor EDS
% Data completeness (in resolution range)	(Not available) (38.00-2.20) 96.6 (38.00-2.20)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.84 (at 2.20Å)	Xtriage
Refinement program	CNX 2000	Depositor
R, R_{free}	0.230 , 0.280 (Not available) , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	45.5	Xtriage
Anisotropy	0.189	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 90.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.032 for -h,-k,l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2274	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.19% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ANP, GOL, PO4

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	0.46	1/2104 (0.0%)	0.96	8/2849 (0.3%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	388	LYS	C-N	-5.66	1.25	1.34

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	148	LEU	N-CA-C	-6.65	100.64	110.48
1	A	327	PRO	N-CA-C	6.52	122.31	113.84
1	A	181	VAL	N-CA-C	-5.93	105.30	111.58
1	A	214	LEU	N-CA-C	5.37	119.46	113.02
1	A	348	PRO	N-CA-C	-5.08	103.78	111.41
1	A	213	PRO	N-CA-C	5.07	120.49	113.65
1	A	366	ASN	CA-C-N	5.03	125.06	119.32
1	A	366	ASN	C-N-CA	5.03	125.06	119.32

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	2053	0	2022	78	1
2	A	6	0	8	0	0
3	A	5	0	0	0	0
4	A	54	0	24	5	0
5	A	156	0	0	8	0
All	All	2274	0	2054	78	1

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 19.

All (78) 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:180:GLU:HA	1:A:183:ILE:HG12	1.63	0.81
1:A:352:THR:HG22	1:A:354:GLY:H	1.55	0.71
1:A:366:ASN:HB3	1:A:369:GLN:HE21	1.56	0.70
1:A:219:ARG:HE	1:A:223:LYS:NZ	1.89	0.69
1:A:340:ILE:HG22	5:A:2122:HOH:O	1.91	0.69
1:A:183:ILE:HG13	1:A:184:GLN:N	2.07	0.67
1:A:171:ALA:C	1:A:173:VAL:H	2.03	0.66
1:A:173:VAL:HG12	1:A:175:HIS:H	1.61	0.66
1:A:278:VAL:HB	4:A:1391[A]:ANP:O1A	1.96	0.66
1:A:257:LYS:HE3	1:A:259:GLU:OE2	1.96	0.66
1:A:306:ASP:HB2	5:A:2107:HOH:O	1.97	0.65
1:A:306:ASP:O	1:A:309:VAL:HG22	1.97	0.64
1:A:170:LYS:O	1:A:171:ALA:HB3	2.00	0.62
1:A:257:LYS:HE2	1:A:290:GLY:HA2	1.83	0.60
1:A:170:LYS:O	1:A:171:ALA:CB	2.49	0.60
1:A:171:ALA:O	1:A:173:VAL:N	2.30	0.60
1:A:256:ILE:HD12	1:A:261:LEU:HD21	1.84	0.60
1:A:178:ARG:NH1	1:A:179:ARG:HA	2.16	0.60
1:A:305:HIS:HD2	5:A:2106:HOH:O	1.84	0.59
1:A:341:SER:HA	5:A:2122:HOH:O	2.03	0.57
1:A:224:LEU:O	1:A:225:SER:HB2	2.04	0.57
1:A:257:LYS:CE	1:A:290:GLY:HA2	2.34	0.57
1:A:219:ARG:HE	1:A:223:LYS:HZ3	1.51	0.57
1:A:161:LYS:HD2	1:A:207:LEU:HD12	1.86	0.56
1:A:300:ILE:HD12	1:A:337:TYR:CD1	2.40	0.56
1:A:387:SER:O	1:A:388:LYS:HB2	2.05	0.56
1:A:194:ARG:HD3	1:A:196:TYR:CE2	2.42	0.55
1:A:256:ILE:HG13	1:A:256:ILE:O	2.06	0.54
1:A:171:ALA:O	1:A:173:VAL:HG23	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:366:ASN:HD22	1:A:366:ASN:C	2.16	0.53
1:A:366:ASN:CB	1:A:369:GLN:HE21	2.21	0.52
1:A:172:GLY:O	1:A:173:VAL:C	2.53	0.52
1:A:171:ALA:C	1:A:173:VAL:N	2.68	0.52
1:A:172:GLY:O	1:A:173:VAL:O	2.26	0.52
1:A:161:LYS:HG2	1:A:163:LEU:HD13	1.93	0.51
1:A:170:LYS:O	1:A:170:LYS:HG2	2.12	0.50
1:A:351:VAL:HG12	1:A:356:ARG:HG3	1.92	0.50
1:A:140:LYS:HA	1:A:145:ASN:HD22	1.76	0.50
1:A:184:GLN:HG3	5:A:2031:HOH:O	2.12	0.49
1:A:257:LYS:HD3	1:A:290:GLY:HA2	1.96	0.48
1:A:366:ASN:HB3	1:A:369:GLN:NE2	2.27	0.48
1:A:189:HIS:HE1	1:A:191:ASN:HD22	1.61	0.48
1:A:154:SER:O	1:A:155:LYS:HB2	2.13	0.47
1:A:139:GLY:HA3	4:A:1391[A]:ANP:H4'	1.96	0.47
1:A:255:ASP:HA	5:A:2108:HOH:O	2.14	0.47
1:A:366:ASN:HD22	1:A:367:PRO:N	2.11	0.46
1:A:184:GLN:NE2	1:A:274:PHE:CE1	2.78	0.46
1:A:212:ALA:O	4:A:1391[B]:ANP:H2	2.15	0.46
1:A:161:LYS:HE2	4:A:1391[B]:ANP:O2A	2.17	0.45
1:A:366:ASN:HD22	1:A:367:PRO:CD	2.29	0.45
1:A:165:LYS:O	1:A:169:GLU:HG2	2.17	0.45
1:A:179:ARG:C	1:A:181:VAL:H	2.23	0.45
1:A:256:ILE:O	1:A:256:ILE:CG1	2.64	0.45
1:A:167:GLN:NE2	1:A:167:GLN:HA	2.32	0.44
1:A:181:VAL:HG11	1:A:198:TYR:CD1	2.52	0.44
1:A:178:ARG:HG2	5:A:2019:HOH:O	2.17	0.44
1:A:178:ARG:HG3	1:A:179:ARG:N	2.32	0.44
1:A:167:GLN:HA	1:A:167:GLN:HE21	1.83	0.44
1:A:343:VAL:O	1:A:343:VAL:HG12	2.16	0.44
1:A:257:LYS:CD	1:A:290:GLY:HA2	2.48	0.43
1:A:179:ARG:C	1:A:181:VAL:N	2.77	0.43
1:A:254:ARG:O	1:A:255:ASP:CG	2.62	0.43
1:A:146:VAL:HG21	4:A:1391[A]:ANP:H5'1	2.01	0.42
1:A:150:ARG:HD2	1:A:155:LYS:O	2.20	0.42
1:A:144:GLY:HA3	1:A:162:VAL:O	2.20	0.42
1:A:150:ARG:HG2	1:A:155:LYS:HA	2.01	0.42
1:A:278:VAL:O	1:A:279:HIS:CB	2.68	0.41
1:A:220:GLU:HG2	1:A:227:PHE:CE1	2.55	0.41
1:A:150:ARG:HG3	1:A:155:LYS:C	2.46	0.41
1:A:151:GLU:O	1:A:155:LYS:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:THR:HG22	1:A:353:GLU:N	2.35	0.41
1:A:352:THR:CG2	1:A:353:GLU:N	2.84	0.41
1:A:337:TYR:O	1:A:341:SER:HB2	2.20	0.41
1:A:279:HIS:CB	5:A:2095:HOH:O	2.69	0.41
1:A:144:GLY:HA2	1:A:164:PHE:CZ	2.56	0.40
1:A:272:ALA:O	1:A:273:ASP:C	2.64	0.40
1:A:174:GLU:OE1	1:A:178:ARG:HG2	2.21	0.40
1:A:183:ILE:HG13	1:A:184:GLN:H	1.81	0.40

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:334:GLN:NE2	1:A:334:GLN:NE2[5_675]	1.91	0.29

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

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	215/244 (88%)	203 (94%)	12 (6%)	19	24

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	126	GLN
1	A	163	LEU
1	A	180	GLU

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Mol	Chain	Res	Type
1	A	187	LEU
1	A	255	ASP
1	A	256	ILE
1	A	268	GLU
1	A	273	ASP
1	A	276	TRP
1	A	278	VAL
1	A	317	LEU
1	A	341	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	145	ASN
1	A	167	GLN
1	A	175	HIS
1	A	176	GLN
1	A	184	GLN
1	A	191	ASN
1	A	253	HIS
1	A	260	ASN
1	A	305	HIS
1	A	366	ASN
1	A	369	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

4 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
4	ANP	A	1391[A]	-	28,29,33	1.74	8 (28%)	40,45,52	1.12	3 (7%)
4	ANP	A	1391[B]	-	28,29,33	2.39	7 (25%)	40,45,52	1.09	1 (2%)
2	GOL	A	1389	-	5,5,5	0.57	0	5,5,5	0.29	0
3	PO4	A	1390	-	4,4,4	1.87	1 (25%)	6,6,6	0.58	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
4	ANP	A	1391[A]	-	-	5/13/32/38	0/3/3/3
4	ANP	A	1391[B]	-	-	2/13/32/38	0/3/3/3
2	GOL	A	1389	-	-	0/4/4/4	-

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1391[B]	ANP	PB-O1B	8.50	1.59	1.46
4	A	1391[B]	ANP	PB-O2B	-4.36	1.45	1.56
4	A	1391[A]	ANP	C4-N3	4.18	1.42	1.34
4	A	1391[B]	ANP	C4-N3	4.05	1.42	1.34
4	A	1391[A]	ANP	C2-N1	3.62	1.40	1.33
4	A	1391[B]	ANP	C2-N1	3.60	1.40	1.33
4	A	1391[A]	ANP	PB-O2B	-2.79	1.49	1.56
4	A	1391[B]	ANP	C5-C4	2.61	1.43	1.39
4	A	1391[A]	ANP	C5-C4	2.54	1.43	1.39
3	A	1390	PO4	P-O4	2.41	1.61	1.54
4	A	1391[A]	ANP	PB-O3A	-2.40	1.56	1.59
4	A	1391[B]	ANP	C6-N1	2.35	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1391[A]	ANP	C6-N1	2.29	1.42	1.35
4	A	1391[A]	ANP	C2-N3	2.25	1.37	1.33
4	A	1391[A]	ANP	C1'-N9	2.19	1.52	1.46
4	A	1391[B]	ANP	C1'-N9	2.01	1.51	1.46

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1391[A]	ANP	N3-C2-N1	-2.65	124.57	128.58
4	A	1391[A]	ANP	O2B-PB-O3A	2.64	113.44	104.64
4	A	1391[B]	ANP	N3-C2-N1	-2.55	124.72	128.58
4	A	1391[A]	ANP	O4'-C4'-C3'	-2.07	101.05	105.15

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1391[A]	ANP	C5'-O5'-PA-O2A
4	A	1391[A]	ANP	C5'-O5'-PA-O3A
4	A	1391[B]	ANP	C5'-O5'-PA-O2A
4	A	1391[B]	ANP	C5'-O5'-PA-O3A
4	A	1391[A]	ANP	O4'-C4'-C5'-O5'
4	A	1391[A]	ANP	C3'-C4'-C5'-O5'
4	A	1391[A]	ANP	C5'-O5'-PA-O1A

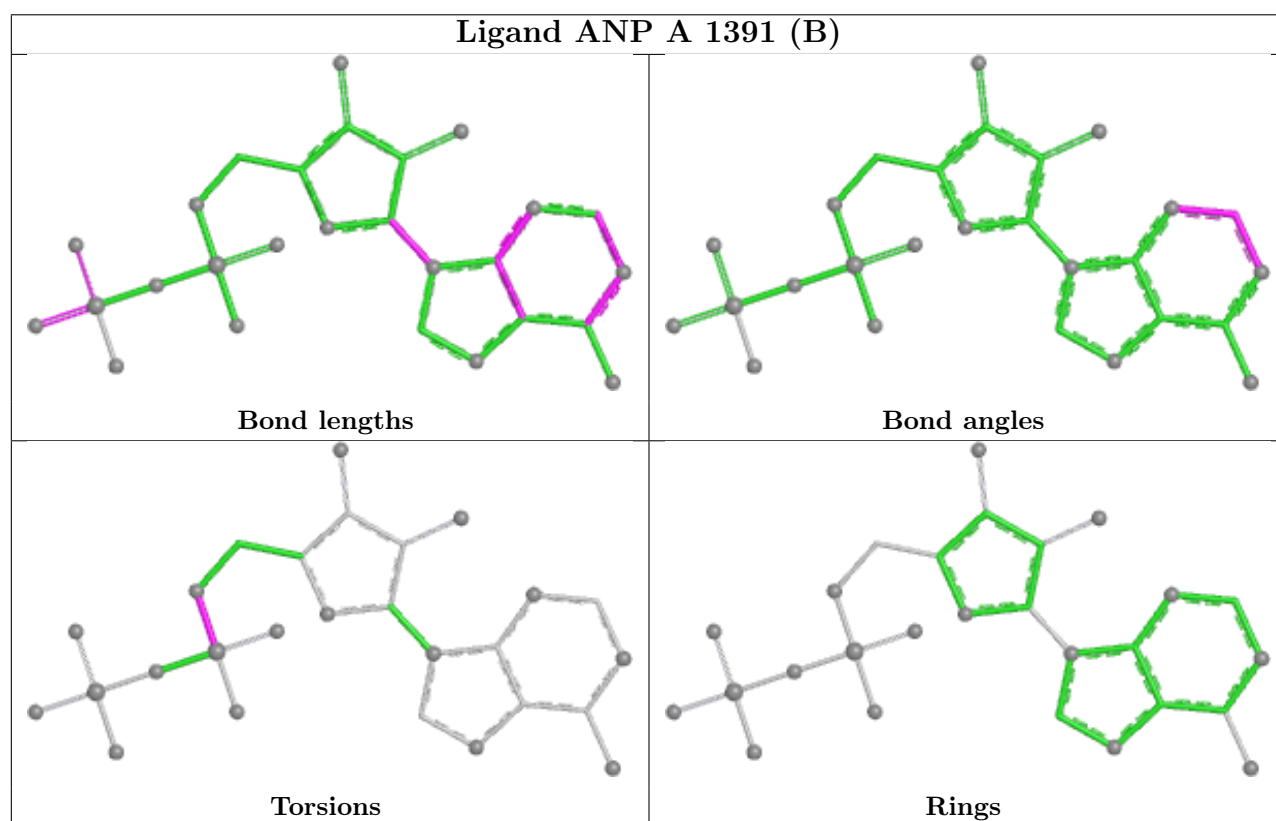
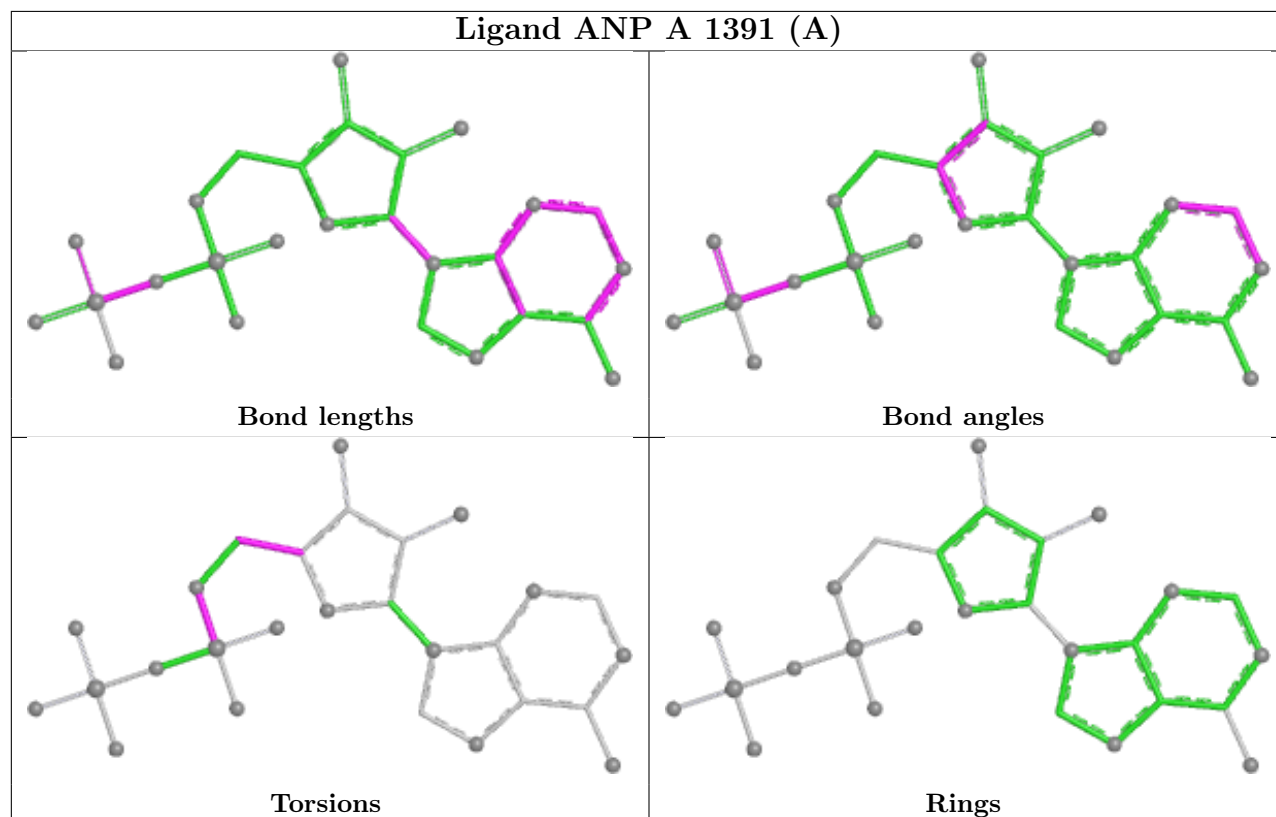
There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1391[A]	ANP	3	0
4	A	1391[B]	ANP	2	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 than 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

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	255/275 (92%)	0.68	27 (10%) 11 8	29, 45, 80, 87	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	389	PRO	9.0
1	A	177	LEU	6.6
1	A	168	LEU	4.5
1	A	276	TRP	4.3
1	A	290	GLY	3.9
1	A	171	ALA	3.6
1	A	275	GLY	3.2
1	A	279	HIS	2.8
1	A	173	VAL	2.7
1	A	179	ARG	2.7
1	A	384	ALA	2.6
1	A	181	VAL	2.6
1	A	172	GLY	2.5
1	A	250	ARG	2.5
1	A	278	VAL	2.4
1	A	180	GLU	2.4
1	A	218	TYR	2.3
1	A	256	ILE	2.2
1	A	304	MET	2.2
1	A	174	GLU	2.2
1	A	183	ILE	2.1
1	A	143	PHE	2.1
1	A	167	GLN	2.1
1	A	369	GLN	2.1
1	A	273	ASP	2.0
1	A	337	TYR	2.0
1	A	387	SER	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

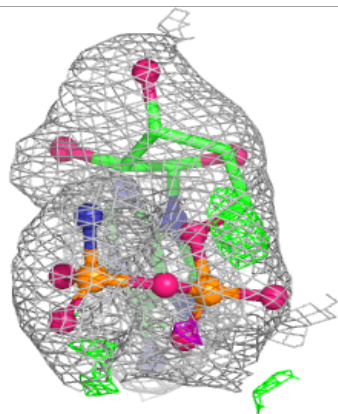
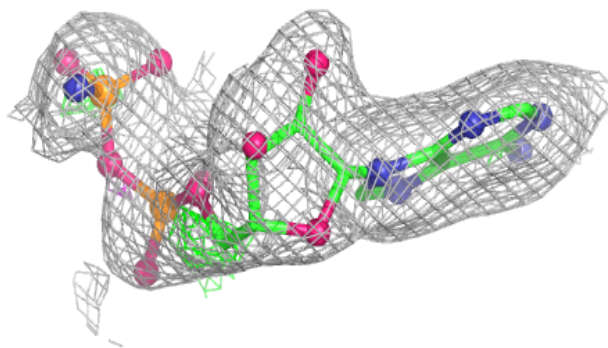
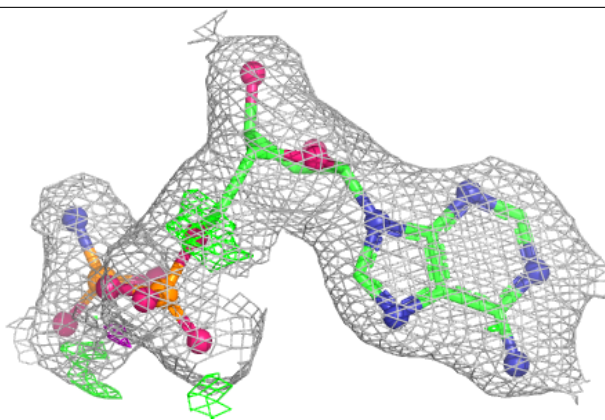
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GOL	A	1389	6/6	0.70	0.18	53,55,57,58	0
4	ANP	A	1391[A]	27/31	0.85	0.13	41,47,51,52	27
4	ANP	A	1391[B]	27/31	0.85	0.13	26,32,51,53	27
3	PO4	A	1390	5/5	0.97	0.07	52,53,54,57	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.

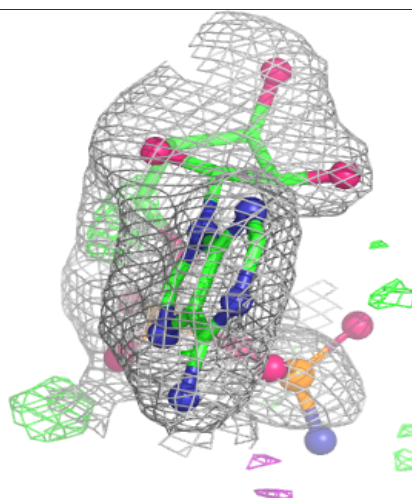
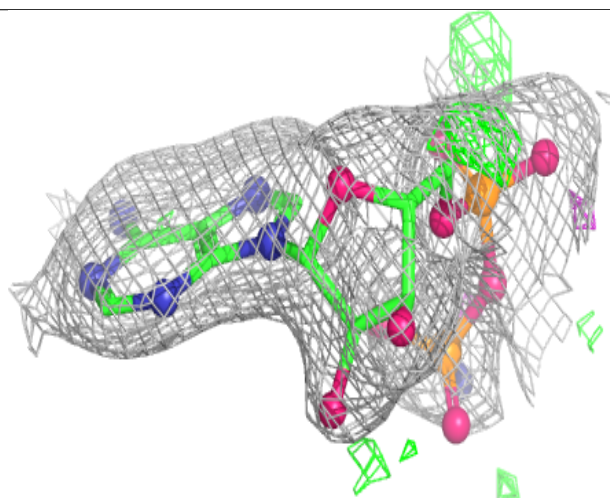
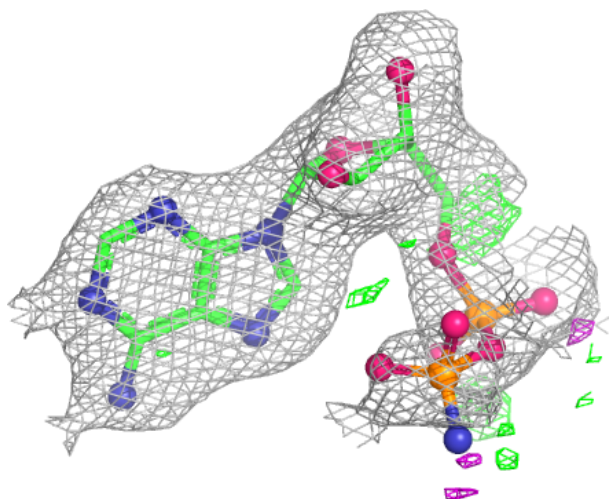
Electron density around ANP A 1391 (A):

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ANP A 1391 (B):

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.