

wwPDB X-ray Structure Validation Summary Report (i)

Apr 25, 2023 – 06:14 PM EDT

PDB ID	:	8FNY
Title	:	Nucleotide-bound structure of a functional construct of eukaryotic elongation
		factor 2 kinase.
Authors	:	Piserchio, A.; Isiorho, E.A.; Dalby, K.N.; Ghose, R.
Deposited on	:	2022-12-28
Resolution	:	2.22 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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:

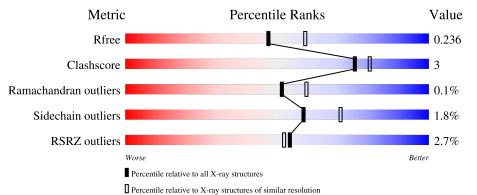
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.32.2
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.32.2

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 2.22 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	5912(2.24-2.20)
Clashscore	141614	6646 (2.24-2.20)
Ramachandran outliers	138981	6543 (2.24-2.20)
Sidechain outliers	138945	6544 (2.24-2.20)
RSRZ outliers	127900	5797 (2.24-2.20)

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 <=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	531	^{2%} 85%	8%	6%
1	С	531	3% 85%	7%	8%
2	В	148	41% 7% 52%		
2	D	148	39% 6% 55%		



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 9391 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	497	Total	С	Ν	0	Р	\mathbf{S}	0	0	0
	1 A		3949	2491	698	734	1	25			
1	C	480	Total	С	Ν	0	Р	S	0	2	0
1		489	3920	2474	693	727	1	25			

• Molecule 1 is a protein called Eukaryotic elongation factor 2 kinase.

Chain	Residue	Modelled	Actual	Comment	Reference
А	484	GLY	-	linker	UNP 000418
А	485	GLY	-	linker	UNP 000418
А	486	GLY	-	linker	UNP 000418
А	487	GLY	-	linker	UNP 000418
А	488	GLY	-	linker	UNP 000418
А	489	GLY	-	linker	UNP 000418
С	484	GLY	-	linker	UNP 000418
С	485	GLY	-	linker	UNP 000418
С	486	GLY	-	linker	UNP 000418
С	487	GLY	-	linker	UNP 000418
С	488	GLY	-	linker	UNP 000418
С	489	GLY	-	linker	UNP 000418

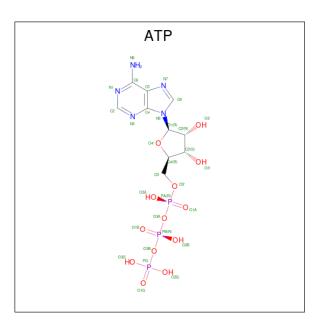
There are 12 discrepancies between the modelled and reference sequences:

• Molecule 2 is a protein called Calmodulin-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	2 B	71	Total	С	Ν	0	S	0	0	0
			562	342	93	123	4			
0	2 D	67	Total	С	Ν	0	S	0	0	0
		67	529	323	87	115	4	U	U	U

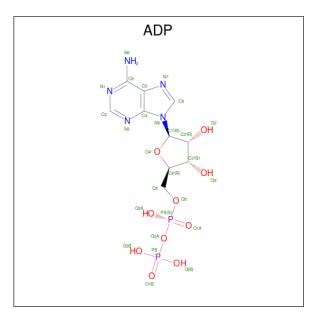
• Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
2	Λ	1	Total	С	Ν	Ο	Р	0	0	
5	D A	1	31	10	5	13	3	0	0	
9	C	1	Total	С	Ν	0	Р	0	0	
0	3 C		31	10	5	13	3	U	0	

• Molecule 4 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
4	А	1	Total 27		N 5		Р 2	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
4	С	1	Total 27	C 10	_	O 10	Р 2	0	0

• Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Zn 1 1	0	0
5	С	1	Total Zn 1 1	0	0

• Molecule 6 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mo	bl	Chain	Residues	Atoms	ZeroOcc	AltConf
6		В	2	Total Ca 2 2	0	0
6		D	2	Total Ca 2 2	0	0

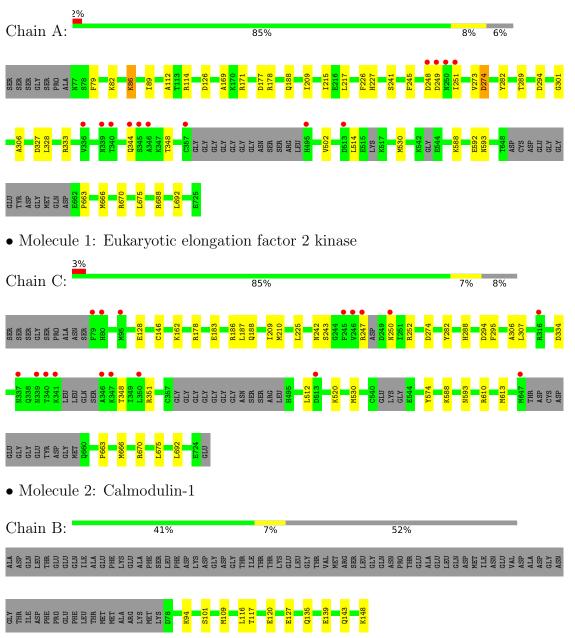
• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	138	Total O 138 138	0	0
7	В	15	Total O 15 15	0	0
7	С	144	Total O 144 144	0	0
7	D	12	Total O 12 12	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: Eukaryotic elongation factor 2 kinase

• Molecule 2: Calmodulin-1

Chain D: 39% 6% 55%



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	59.16Å 83.35Å 88.98Å	Depositor
a, b, c, α , β , γ	65.35° 90.03° 86.47°	Depositor
Resolution (Å)	37.79 - 2.22	Depositor
	80.84 - 2.22	EDS
% Data completeness	50.5(37.79-2.22)	Depositor
(in resolution range)	$50.6 \ (80.84-2.22)$	EDS
R _{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.88 (at 2.22 \text{\AA})$	Xtriage
Refinement program	ISOLDE 1.4, PHENIX 1.20.1_4487	Depositor
B B.	0.208 , 0.229	Depositor
R, R_{free}	0.217 , 0.236	DCC
R_{free} test set	1913 reflections (4.98%)	wwPDB-VP
Wilson B-factor $(Å^2)$	28.3	Xtriage
Anisotropy	0.096	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32, 33.8	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	9391	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 5.66% 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: ADP, CA, ATP, ZN, TPO

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	Bond lengths		angles
		RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.25	0/4027	0.48	0/5430
1	С	0.25	0/3998	0.47	0/5387
2	В	0.27	0/567	0.49	0/759
2	D	0.25	0/534	0.49	0/717
All	All	0.25	0/9126	0.48	0/12293

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	А	3949	0	3749	23	0
1	С	3920	0	3718	21	0
2	В	562	0	514	6	0
2	D	529	0	479	5	0
3	А	31	0	12	0	0
3	С	31	0	12	3	0
4	А	27	0	12	0	0
4	С	27	0	12	1	0
5	А	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	С	1	0	0	0	0
6	В	2	0	0	0	0
6	D	2	0	0	0	0
7	А	138	0	0	2	0
7	В	15	0	0	0	0
7	С	144	0	0	0	0
7	D	12	0	0	0	0
All	All	9391	0	8508	55	0

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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 3.

The worst 5 of 55 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:328:LEU:H	1:A:333:ARG:HH21	1.37	0.71
1:C:146:CYS:SG	3:C:801:ATP:H5'2	2.32	0.69
1:C:247:ARG:NH2	1:C:250:ASN:O	2.25	0.69
3:C:801:ATP:H8	3:C:801:ATP:H5'1	1.61	0.65
1:C:247:ARG:HH22	1:C:252:ARG:HG3	1.61	0.64

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	А	486/531~(92%)	476 (98%)	10 (2%)	0	100	100
1	С	478/531~(90%)	462 (97%)	15 (3%)	1 (0%)	47	54
2	В	69/148~(47%)	69 (100%)	0	0	100	100
2	D	65/148~(44%)	65 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	1098/1358~(81%)	1072 (98%)	25~(2%)	1 (0%)	51 60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	512	LEU

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	P	Perce	ntiles
1	А	396/437~(91%)	389~(98%)	7~(2%)		59	71
1	С	392/437~(90%)	386~(98%)	6(2%)		65	76
2	В	59/126~(47%)	57~(97%)	2(3%)		37	46
2	D	55/126~(44%)	54 (98%)	1 (2%)		59	71
All	All	902/1126~(80%)	886~(98%)	16 (2%)		59	71

5 of 16 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	С	520	LYS
1	С	351	ARG
2	В	148	LYS
1	С	334	ASP
2	В	94	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	С	710	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)

2 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).

Mal	Mol Type Chain		Res	Link	Bond lengths			Bond angles		
	туре	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
1	TPO	С	348	1	8,10,11	1.24	1 (12%)	10,14,16	1.65	1 (10%)
1	TPO	А	348	1	8,10,11	1.71	3 (37%)	10,14,16	1.55	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
1	TPO	С	348	1	-	3/9/11/13	-
1	TPO	А	348	1	-	3/9/11/13	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
1	А	348	TPO	P-O1P	3.35	1.61	1.50
1	С	348	TPO	P-OG1	2.06	1.63	1.59
1	А	348	TPO	P-OG1	2.01	1.63	1.59
1	А	348	TPO	P-O2P	2.01	1.62	1.54

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	С	348	TPO	P-OG1-CB	-4.51	109.59	123.21
1	А	348	TPO	P-OG1-CB	-4.00	111.12	123.21



There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
1	А	348	TPO	O-C-CA-CB
1	А	348	TPO	CB-OG1-P-O1P
1	А	348	TPO	CB-OG1-P-O2P
1	С	348	TPO	CB-OG1-P-O2P
1	С	348	TPO	CB-OG1-P-O3P

5 of 6 torsion outliers are listed below:

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 10 ligands modelled in this entry, 6 are monoatomic - leaving 4 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).

Mal	Mol Type Chain	Chain	Res	Link	Bo	Bond lengths			Bond angles		
		nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2		
4	ADP	А	802	-	24,29,29	0.67	1 (4%)	$29,\!45,\!45$	0.98	2 (6%)	
3	ATP	С	801	-	26,33,33	0.62	0	$31,\!52,\!52$	0.95	0	
3	ATP	А	801	-	26,33,33	0.62	0	31,52,52	0.84	1 (3%)	
4	ADP	С	802	-	24,29,29	0.63	0	29,45,45	0.97	1 (3%)	

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	ADP	А	802	-	-	0/12/32/32	0/3/3/3
3	ATP	С	801	-	-	6/18/38/38	0/3/3/3
3	ATP	А	801	-	-	5/18/38/38	0/3/3/3
4	ADP	С	802	-	-	0/12/32/32	0/3/3/3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	А	802	ADP	PB-O1B	2.18	1.57	1.50

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	С	802	ADP	O2'-C2'-C1'	-2.65	101.06	110.85
4	А	802	ADP	O2'-C2'-C1'	-2.64	101.12	110.85
4	А	802	ADP	O3B-PB-O2B	2.25	116.25	107.64
3	А	801	ATP	O2A-PA-O5'	2.14	117.70	107.75

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	А	801	ATP	C5'-O5'-PA-O1A
3	С	801	ATP	C5'-O5'-PA-O1A
3	А	801	ATP	C4'-C5'-O5'-PA
3	А	801	ATP	C5'-O5'-PA-O3A
3	С	801	ATP	C5'-O5'-PA-O3A

There are no ring outliers.

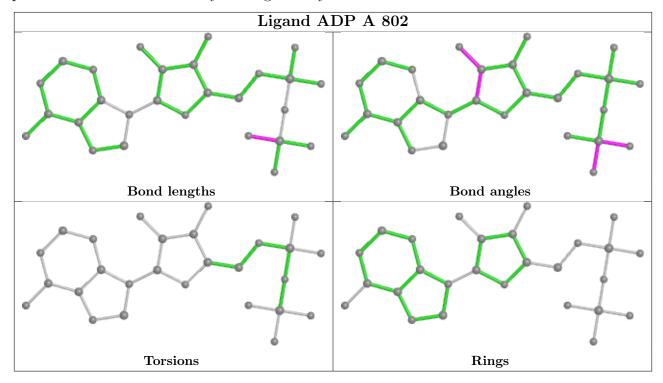
2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	С	801	ATP	3	0
4	С	802	ADP	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

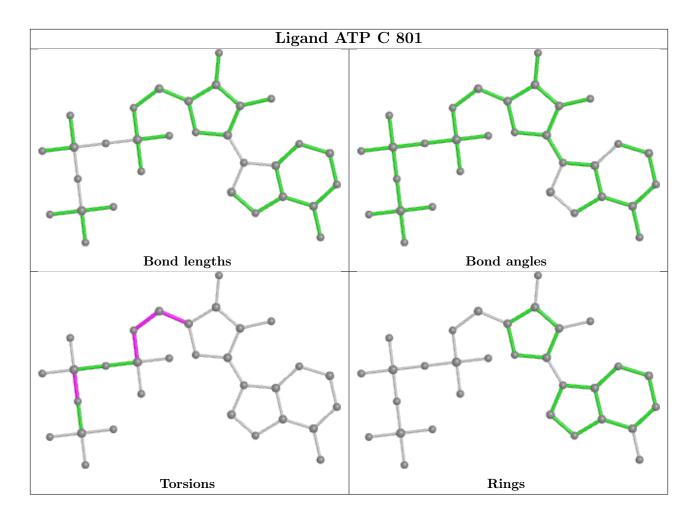


in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



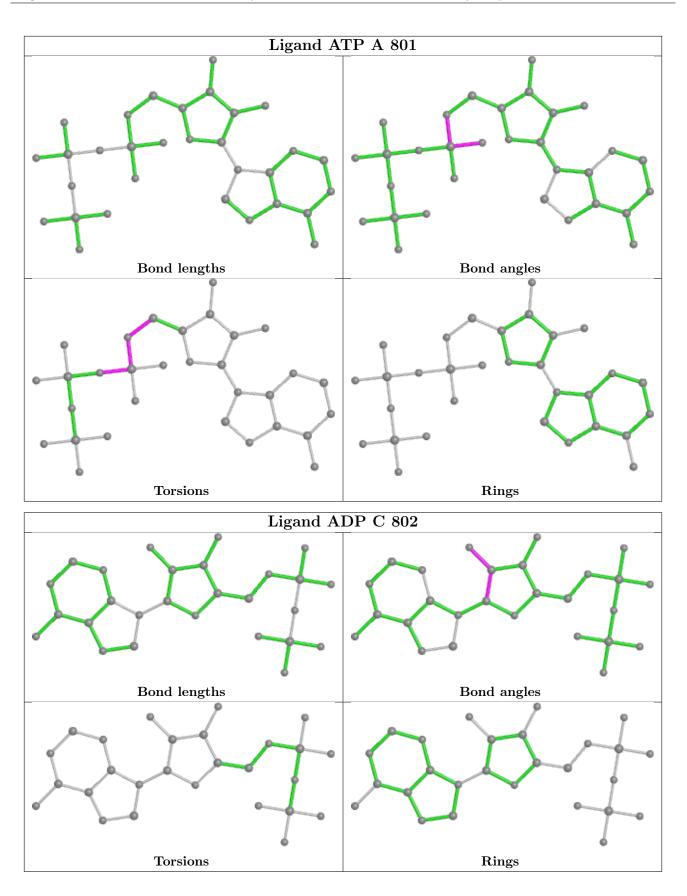














5.7 Other polymers (i)

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	<RSRZ $>$	# RSRZ > 2	$OWAB(A^2)$	Q < 0.9
1	А	496/531~(93%)	0.06	13 (2%) 56 54	17, 32, 66, 86	0
1	С	488/531~(91%)	0.04	17 (3%) 44 41	18, 32, 64, 81	0
2	В	71/148~(47%)	0.04	0 100 100	23, 39, 65, 72	0
2	D	67/148~(45%)	0.07	0 100 100	24, 40, 59, 70	0
All	All	1122/1358~(82%)	0.05	30 (2%) 54 52	17, 33, 65, 86	0

The worst 5 of 30 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	А	248	ASP	4.2
1	С	337	ASN	4.0
1	С	340	THR	4.0
1	А	251	ILE	3.9
1	С	247	ARG	3.7

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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
1	TPO	С	348	11/12	0.95	0.22	43,50,59,60	0
1	TPO	А	348	11/12	0.96	0.16	30,39,50,55	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

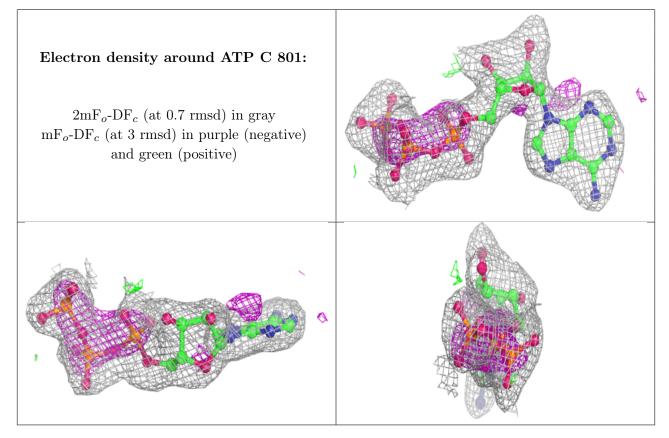


6.4 Ligands (i)

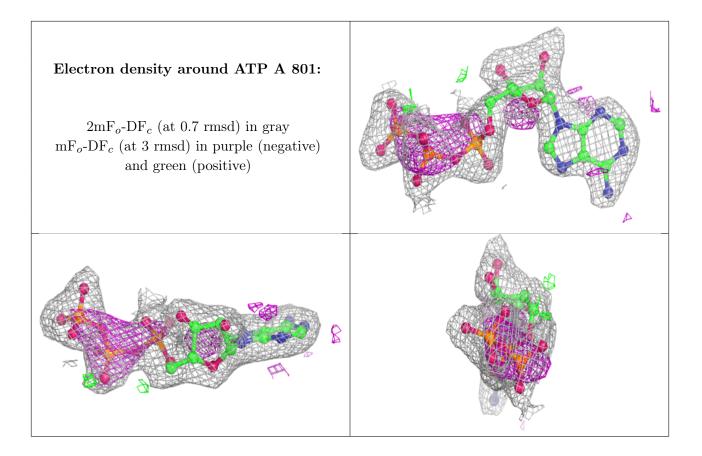
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
3	ATP	С	801	31/31	0.91	0.16	48,48,48,48	0
3	ATP	А	801	31/31	0.92	0.17	46, 46, 46, 46	0
6	CA	В	202	1/1	0.96	0.12	36,36,36,36	0
4	ADP	С	802	27/27	0.98	0.11	24,24,24,24	0
4	ADP	А	802	27/27	0.98	0.12	21,21,21,21	0
5	ZN	А	803	1/1	0.99	0.13	28,28,28,28	0
6	CA	D	201	1/1	0.99	0.14	22,22,22,22	0
6	CA	D	202	1/1	0.99	0.11	$35,\!35,\!35,\!35$	0
6	CA	В	201	1/1	1.00	0.15	24,24,24,24	0
5	ZN	С	803	1/1	1.00	0.13	31,31,31,31	0

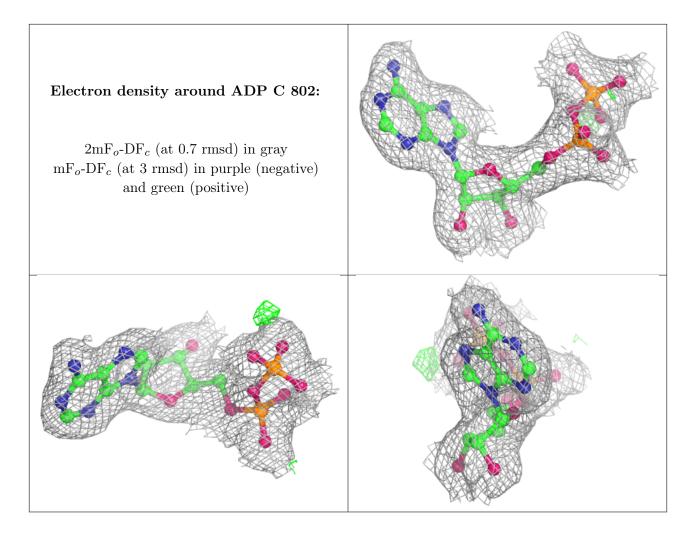
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



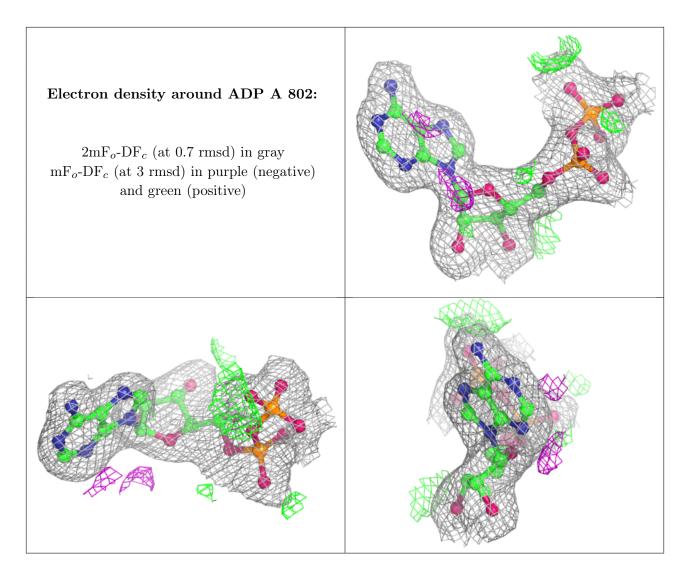












6.5 Other polymers (i)

There are no such residues in this entry.

