



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 23, 2026 – 02:09 PM EST

PDB ID : 9PCQ / pdb\_00009pcq  
Title : Phosphorylation of a Conserved Aspartate at the Eukaryotic Elongation Factor 2 Kinase Catalytic Site  
Authors : Piserchio, A.; Isiorho, E.A.; Dalby, K.; Ghose, R.  
Deposited on : 2025-06-28  
Resolution : 2.30 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](mailto: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>.

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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 : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
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) : 2.48.1

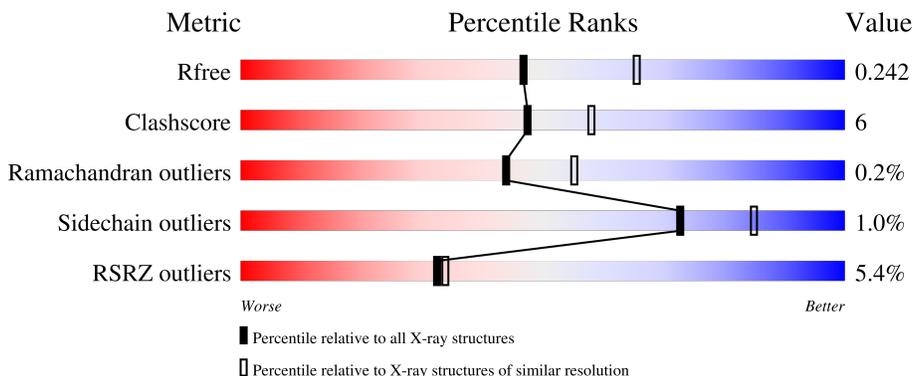
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.30 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))
$R_{free}$	164625	5963 (2.30-2.30)
Clashscore	180529	6698 (2.30-2.30)
Ramachandran outliers	177936	6640 (2.30-2.30)
Sidechain outliers	177891	6640 (2.30-2.30)
RSRZ outliers	164620	5963 (2.30-2.30)

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  $\geq 3$ , 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	531	 4% 82% 9% 9%
2	B00A	147	 9% 84% 12%

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5139 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 Eukaryotic elongation factor 2 kinase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
1	A	485	3864	2441	677	719	2	25	0	1	0

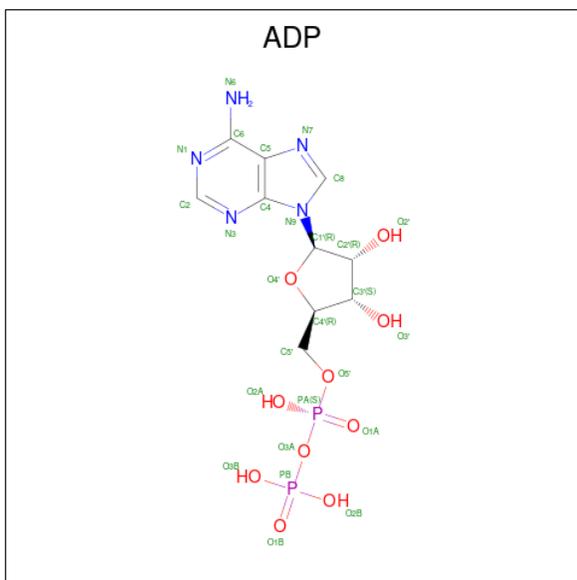
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	484	GLY	-	linker	UNP O00418
A	485	GLY	-	linker	UNP O00418
A	486	GLY	-	linker	UNP O00418
A	487	GLY	-	linker	UNP O00418
A	488	GLY	-	linker	UNP O00418
A	489	GLY	-	linker	UNP O00418

- Molecule 2 is a protein called Calmodulin-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B00A	129	968	599	156	206	7	0	0	0

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C<sub>10</sub>H<sub>15</sub>N<sub>5</sub>O<sub>10</sub>P<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
3	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

- Molecule 4 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mn	0	0
			1	1		
4	B00A	1	Total	Mn	0	0
			1	1		

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Zn	0	0
			1	1		

- Molecule 6 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B00A	2	Total	Ca	0	0
			2	2		

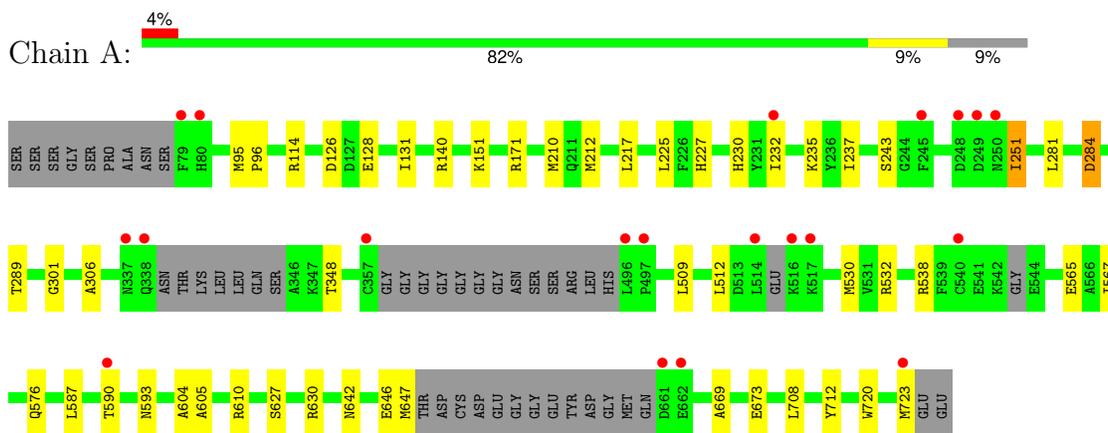
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	227	Total 227	O 227	0	0
7	B00A	21	Total 21	O 21	0	0

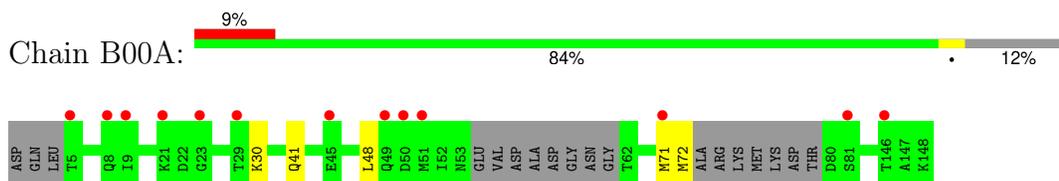
### 3 Residue-property plots [i](#)

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



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	60.46Å 88.63Å 154.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.46 – 2.30 38.46 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.4 (38.46-2.30) 99.4 (38.46-2.30)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.12 (at 2.29Å)	Xtrriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, $R_{free}$	0.211 , 0.243 0.213 , 0.242	Depositor DCC
$R_{free}$ test set	1852 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	42.2	Xtrriage
Anisotropy	0.463	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 33.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	5139	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	50.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.90% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: CA, ZN, MN, PHD, TPO, ADP

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	0.14	0/3928	0.30	0/5292
2	B00A	0.15	0/978	0.32	0/1315
All	All	0.15	0/4906	0.30	0/6607

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

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	3864	0	3652	33	0
2	B00A	968	0	0	0	0
3	A	54	0	24	0	0
4	A	1	0	0	0	0
4	B00A	1	0	0	0	0
5	A	1	0	0	0	0
6	B00A	2	0	0	0	0
7	A	227	0	0	8	0
7	B00A	21	0	0	0	0
All	All	5139	0	3676	33	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 (33) 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:306:ALA:HB1	1:A:530:MET:HG3	1.69	0.72
1:A:284:PHD:O	7:A:901:HOH:O	2.12	0.68
1:A:131:ILE:HD11	1:A:217:LEU:HD21	1.80	0.64
1:A:210:MET:HE1	1:A:230:HIS:HB2	1.81	0.63
1:A:140:ARG:NH1	7:A:905:HOH:O	2.20	0.59
1:A:210:MET:HG3	1:A:232:ILE:HD11	1.86	0.58
1:A:243:SER:HB3	1:A:538:ARG:HH22	1.72	0.55
1:A:576:GLN:NE2	1:A:587:LEU:O	2.42	0.52
1:A:171[A]:ARG:NH1	1:A:225:LEU:O	2.42	0.50
1:A:284:PHD:OP1	7:A:901:HOH:O	2.20	0.50
1:A:128:GLU:OE1	7:A:903:HOH:O	2.19	0.50
1:A:235:LYS:HE3	1:A:237:ILE:HD11	1.94	0.49
1:A:720:TRP:HA	1:A:723:MET:HE2	1.94	0.49
1:A:610:ARG:NH2	7:A:930:HOH:O	2.46	0.48
1:A:605:ALA:O	7:A:904:HOH:O	2.20	0.48
1:A:289:THR:O	1:A:301:GLY:HA2	2.13	0.47
1:A:251:ILE:HB	7:A:912:HOH:O	2.16	0.46
1:A:212:MET:HE3	1:A:227:HIS:CD2	2.52	0.45
1:A:532:ARG:NH1	1:A:565:GLU:OE2	2.48	0.44
1:A:96:PRO:O	7:A:906:HOH:O	2.21	0.44
1:A:131:ILE:HG22	1:A:151:LYS:HG3	1.99	0.44
1:A:281:LEU:HD23	1:A:281:LEU:HA	1.84	0.43
1:A:669:ALA:O	1:A:673:GLU:HG3	2.17	0.43
1:A:95:MET:HE2	1:A:95:MET:HB2	1.81	0.43
1:A:627:SER:HB3	1:A:630:ARG:HG3	2.00	0.43
1:A:642:ASN:O	1:A:646:GLU:HG3	2.19	0.42
1:A:509:LEU:HA	1:A:512:LEU:HD12	2.01	0.42
1:A:708:LEU:HD22	1:A:712:TYR:CZ	2.54	0.42
1:A:210:MET:HE3	1:A:210:MET:HB3	1.85	0.41
1:A:567:ILE:HG22	1:A:604:ALA:HB2	2.02	0.41
1:A:590:THR:HG22	1:A:593:ASN:CG	2.46	0.41
1:A:114:ARG:O	1:A:126:ASP:HA	2.21	0.41
1:A:647:MET:HE2	1:A:647:MET:HB3	1.78	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	472/531 (89%)	463 (98%)	8 (2%)	1 (0%)	44	55
2	B00A	123/147 (84%)	118 (96%)	5 (4%)	0	100	100
All	All	595/678 (88%)	581 (98%)	13 (2%)	1 (0%)	44	55

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	251	ILE

### 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	384/436 (88%)	384 (100%)	0	100	100
2	B00A	95/126 (75%)	90 (95%)	5 (5%)	19	28
All	All	479/562 (85%)	474 (99%)	5 (1%)	73	85

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B00A	30	LYS
2	B00A	41	GLN
2	B00A	48	LEU
2	B00A	71	MET
2	B00A	72	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	90	GLN
1	A	714	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](#)

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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	TPO	A	348	1	8,10,11	1.09	0	10,14,16	1.90	1 (10%)
1	PHD	A	284	1,4	9,11,12	1.70	2 (22%)	9,15,17	2.38	3 (33%)

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	A	348	1	-	1/9/11/13	-
1	PHD	A	284	1,4	-	1/8/11/13	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	284	PHD	P-OD1	3.98	1.66	1.59
1	A	284	PHD	CB-CG	2.11	1.54	1.50

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	348	TPO	P-OG1-CB	-5.49	108.42	123.33
1	A	284	PHD	OD1-CG-CB	5.47	123.79	110.95
1	A	284	PHD	OD2-CG-CB	-3.04	117.59	124.65
1	A	284	PHD	OP3-P-OD1	2.40	112.32	105.32

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	284	PHD	CA-CB-CG-OD1
1	A	348	TPO	C-CA-CB-CG2

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	284	PHD	2	0

## 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 5 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	ADP	A	801	-	24,29,29	0.91	0	29,45,45	1.14	2 (6%)
3	ADP	A	802	4	24,29,29	0.94	2 (8%)	29,45,45	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
3	ADP	A	801	-	-	0/12/32/32	0/3/3/3
3	ADP	A	802	4	-	0/12/32/32	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	802	ADP	PA-O3A	2.02	1.61	1.59
3	A	802	ADP	O4'-C1'	2.01	1.43	1.40

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	801	ADP	N3-C2-N1	-3.78	123.54	128.67
3	A	802	ADP	N3-C2-N1	-3.54	123.87	128.67
3	A	802	ADP	C4-C5-N7	-2.56	106.63	109.34
3	A	801	ADP	C4-C5-N7	-2.22	106.99	109.34

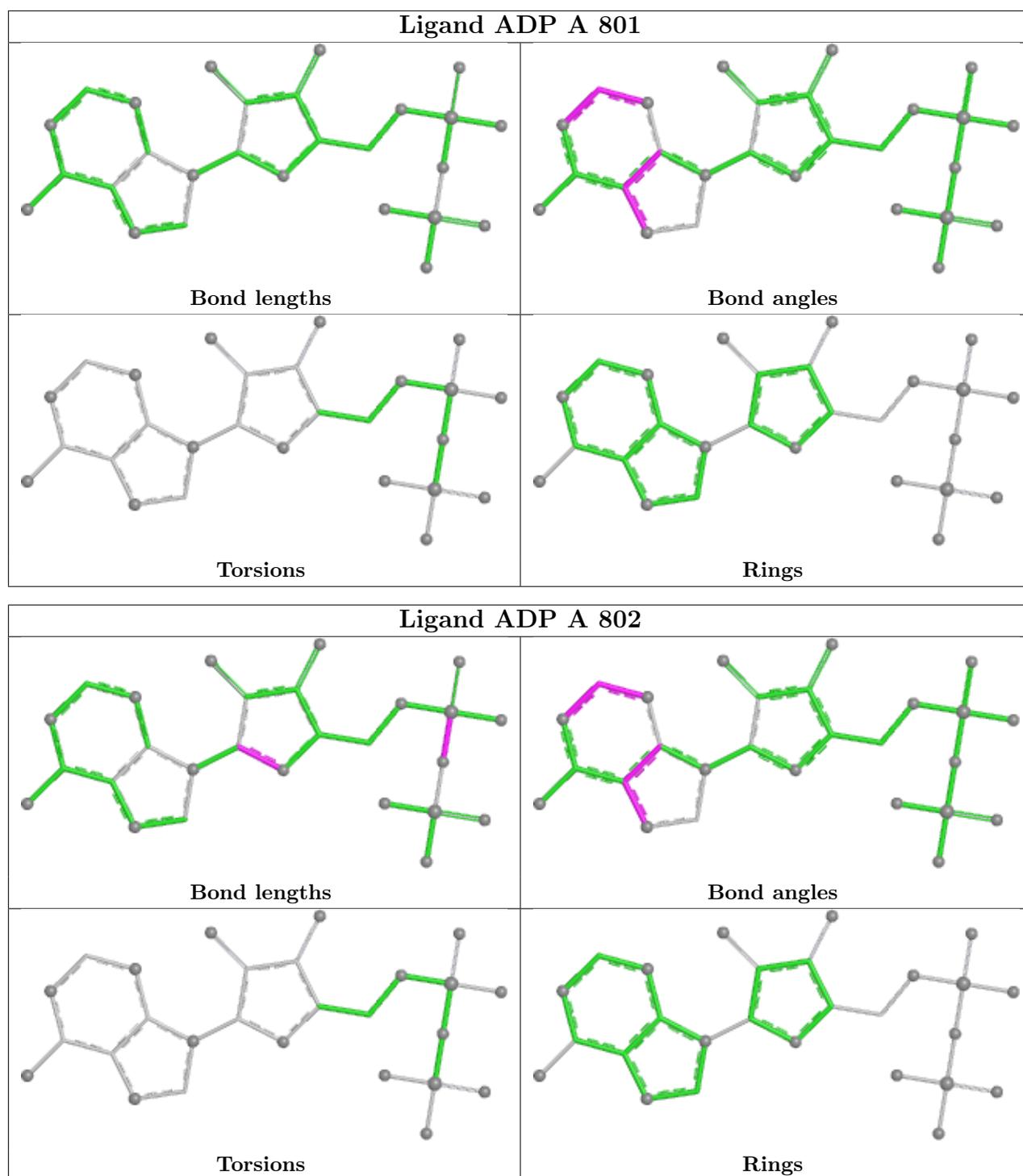
There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	483/531 (90%)	0.21	20 (4%) 42 43	18, 44, 74, 105	1 (0%)
2	B00A	129/147 (87%)	0.76	13 (10%) 14 15	34, 64, 93, 113	0
All	All	612/678 (90%)	0.32	33 (5%) 32 34	18, 46, 82, 113	1 (0%)

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	661	ASP	3.4
1	A	662	GLU	3.3
1	A	79	PHE	3.3
1	A	338	GLN	3.2
1	A	540	CYS	3.1
1	A	514	LEU	3.0
2	B00A	71	MET	2.9
1	A	497	PRO	2.9
2	B00A	23	GLY	2.8
2	B00A	50	ASP	2.8
1	A	357	CYS	2.7
2	B00A	81	SER	2.7
2	B00A	21	LYS	2.7
1	A	248	ASP	2.6
2	B00A	8	GLN	2.5
1	A	249	ASP	2.5
2	B00A	45	GLU	2.5
1	A	496	LEU	2.5
2	B00A	5	THR	2.5
2	B00A	9	ILE	2.4
1	A	250	ASN	2.4
2	B00A	29	THR	2.4
1	A	517	LYS	2.4
1	A	516	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	723	MET	2.2
1	A	245	PHE	2.2
1	A	337	ASN	2.1
1	A	590	THR	2.1
1	A	80	HIS	2.1
1	A	232	ILE	2.1
2	B00A	49	GLN	2.1
2	B00A	51	MET	2.1
2	B00A	146	THR	2.1

## 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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	TPO	A	348	11/12	0.93	0.09	48,54,68,69	0
1	PHD	A	284	12/13	0.95	0.06	30,36,49,50	0

## 6.3 Carbohydrates [i](#)

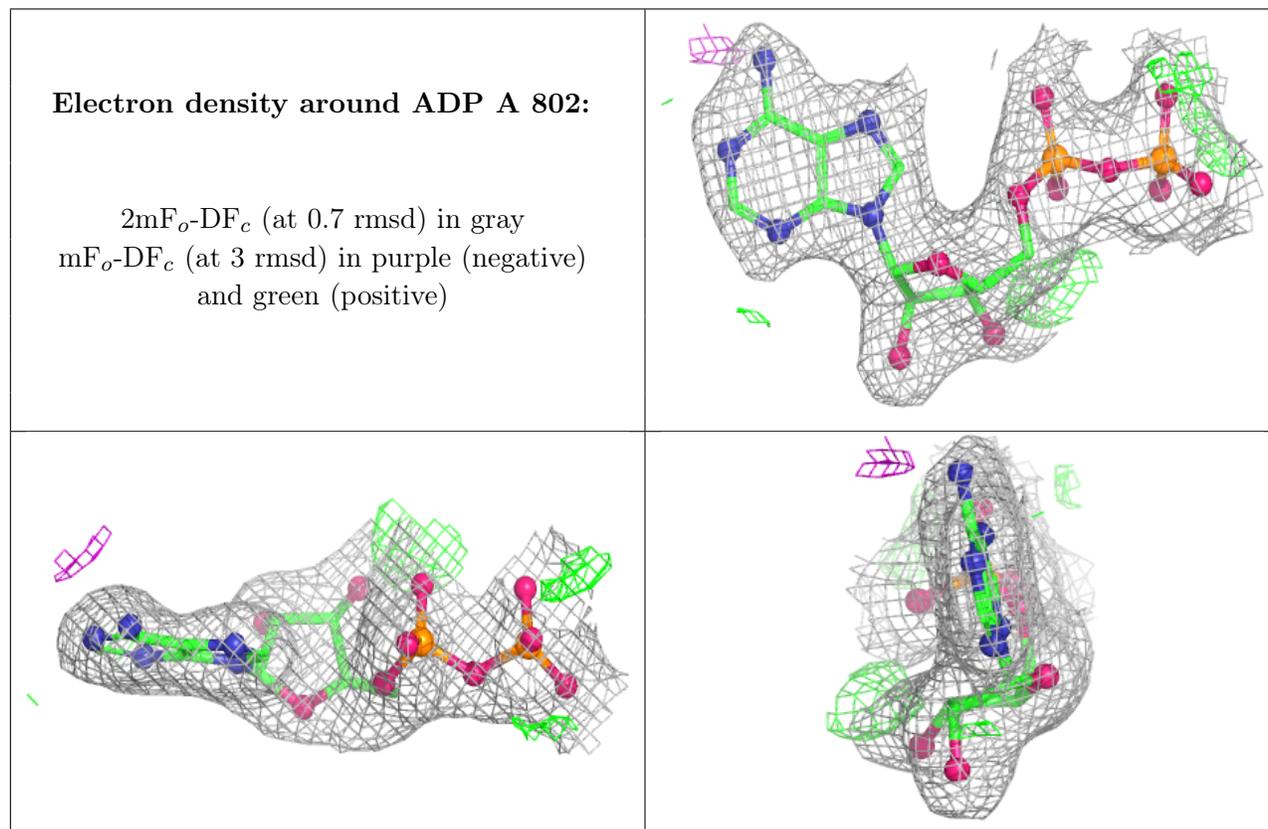
There are no oligosaccharides in this entry.

## 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, 95<sup>th</sup> 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.

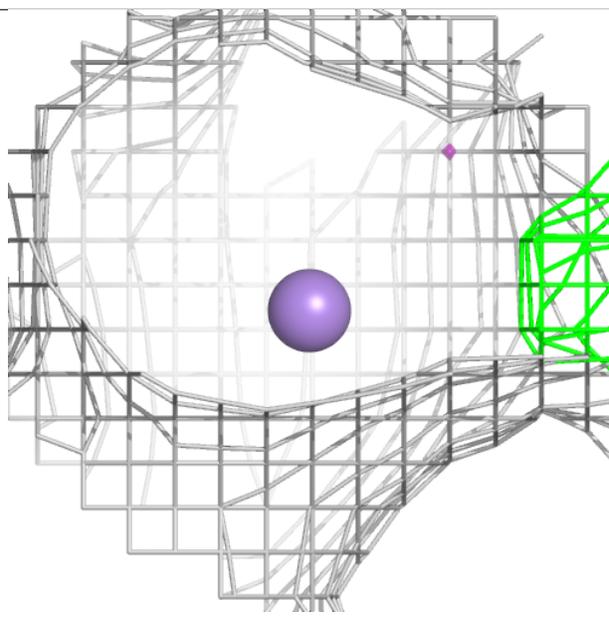
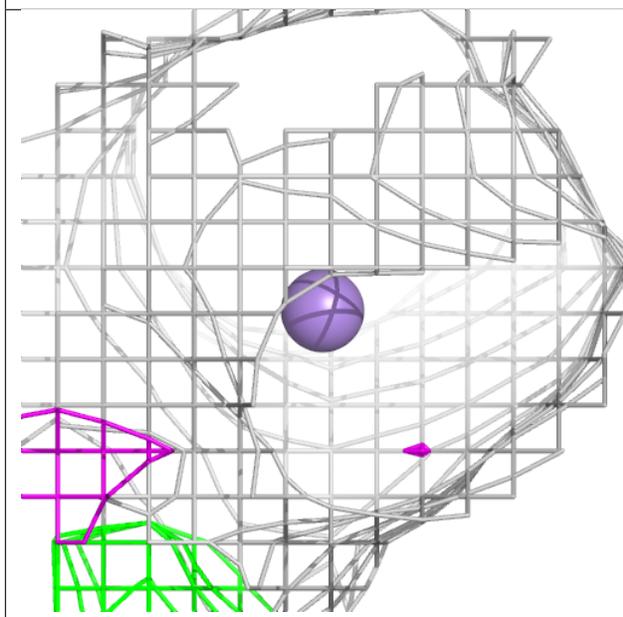
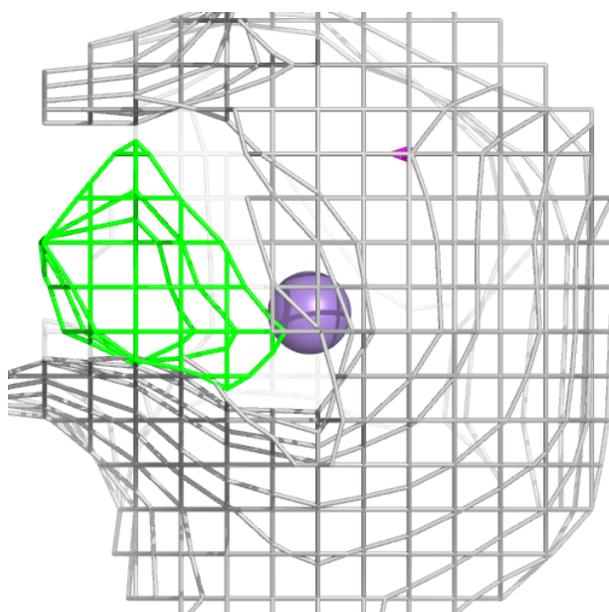
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	ADP	A	802	27/27	0.96	0.08	32,39,43,48	0
4	MN	B00A	203	1/1	0.96	0.06	83,83,83,83	0
3	ADP	A	801	27/27	0.97	0.07	34,41,44,47	0
4	MN	A	803	1/1	0.99	0.03	38,38,38,38	0
5	ZN	A	804	1/1	0.99	0.02	43,43,43,43	0
6	CA	B00A	201	1/1	0.99	0.02	35,35,35,35	0
6	CA	B00A	202	1/1	1.00	0.09	35,35,35,35	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.



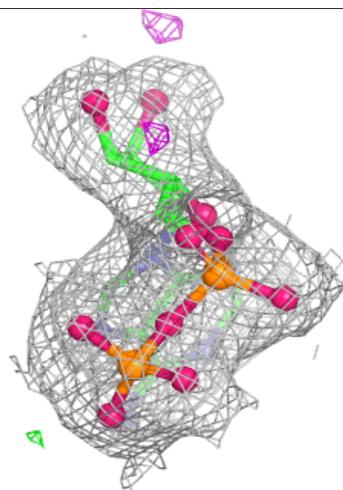
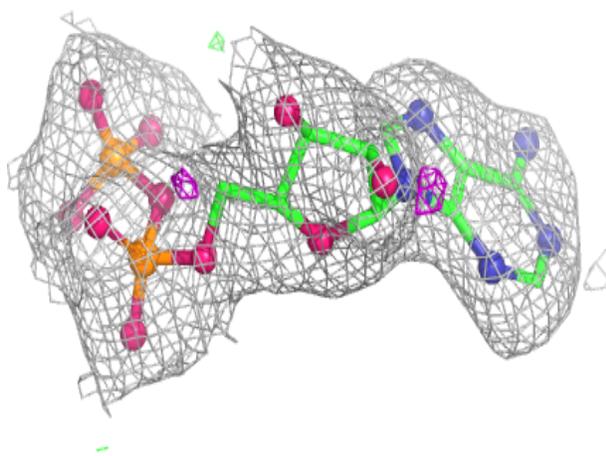
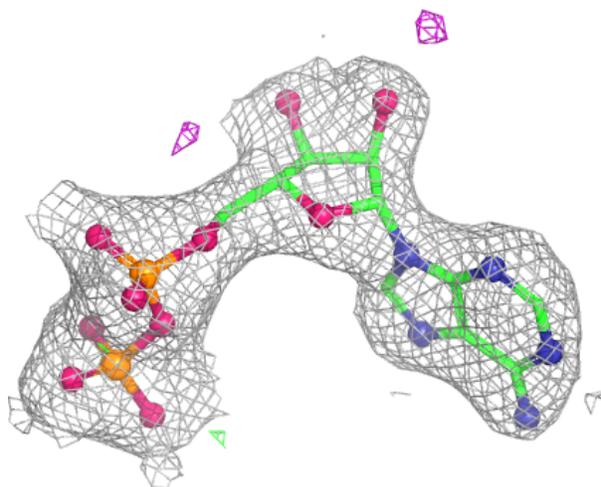
**Electron density around MN B00A 203:**

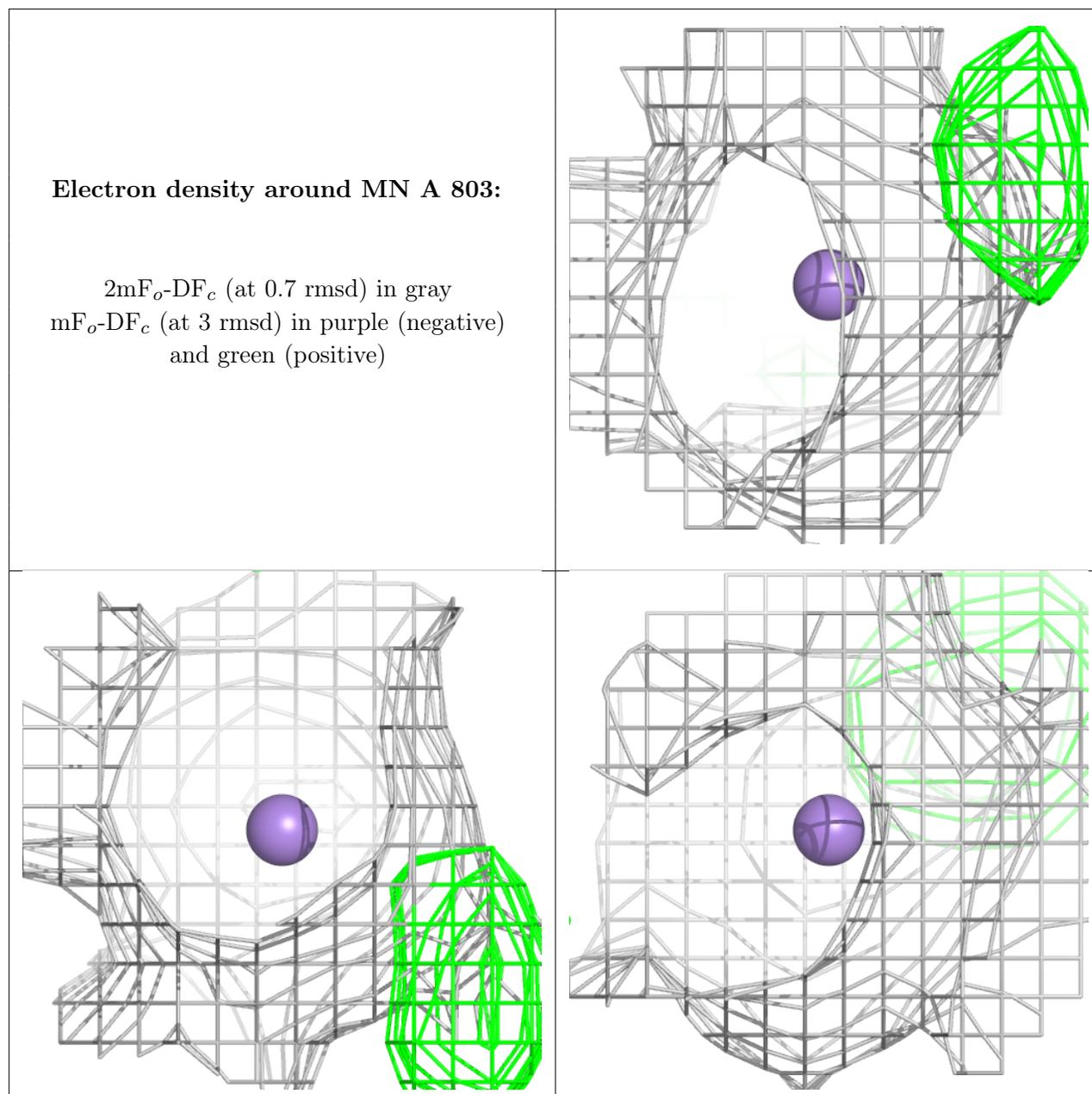
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around ADP A 801:**

$2mF_o-DF_c$  (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.