



# wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 15, 2020 – 10:27 am BST

PDB ID : 5L8K  
Title : Aurora-A kinase domain in complex with vNAR-D01 (crystal form 2)  
Authors : Burgess, S.G.; Bayliss, R.  
Deposited on : 2016-06-08  
Resolution : 1.79 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](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.

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The following versions of software and data (see [references ⓘ](#)) 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 : 2.11  
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) : 2.11

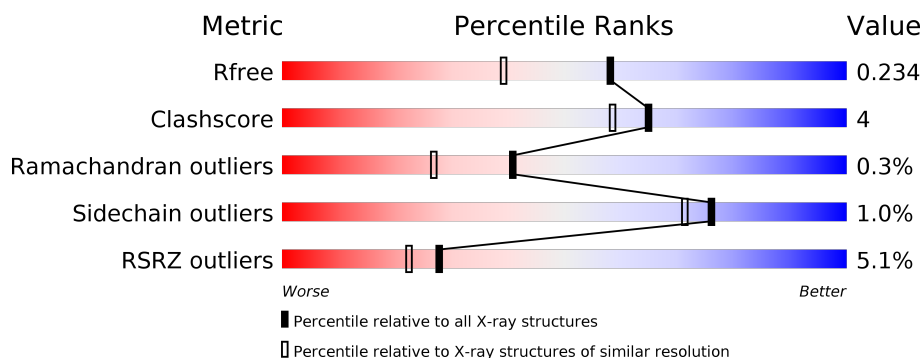
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.79 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))
$R_{free}$	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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 on 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	285	
2	B	117	

## 2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3246 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 Aurora kinase A.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	267	Total	C	N	O	P	S	0	3	0
			2123	1368	360	389	1	5			

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	119	GLY	-	expression tag	UNP O14965
A	120	ALA	-	expression tag	UNP O14965
A	121	MET	-	expression tag	UNP O14965
A	290	ALA	CYS	engineered mutation	UNP O14965
A	393	ALA	CYS	engineered mutation	UNP O14965

- Molecule 2 is a protein called New antigen receptor variable domain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	105	Total	C	N	O	S	0	0	1
			766	466	135	161	4			

There are 26 discrepancies between the modelled and reference sequences:

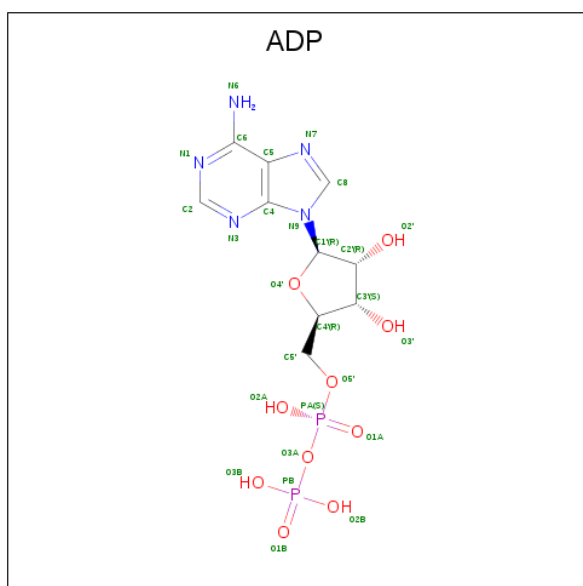
Chain	Residue	Modelled	Actual	Comment	Reference
B	1	MET	-	initiating methionine	UNP Q8JJ25
B	87	ILE	TYR	conflict	UNP Q8JJ25
B	88	ASP	ARG	conflict	UNP Q8JJ25
B	89	SER	ARG	engineered mutation	UNP Q8JJ25
B	?	-	ALA	deletion	UNP Q8JJ25
B	?	-	PHE	deletion	UNP Q8JJ25
B	?	-	ASN	deletion	UNP Q8JJ25
B	?	-	THR	deletion	UNP Q8JJ25
B	?	-	GLY	deletion	UNP Q8JJ25
B	91	TRP	VAL	conflict	UNP Q8JJ25
B	92	LEU	GLY	conflict	UNP Q8JJ25

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Chain	Residue	Modelled	Actual	Comment	Reference
B	93	SER	TYR	conflict	UNP Q8JJ25
B	94	ARG	LYS	conflict	UNP Q8JJ25
B	105	GLY	-	expression tag	UNP Q8JJ25
B	106	GLY	-	expression tag	UNP Q8JJ25
B	107	ALA	-	expression tag	UNP Q8JJ25
B	108	ALA	-	expression tag	UNP Q8JJ25
B	109	ALA	-	expression tag	UNP Q8JJ25
B	110	LEU	-	expression tag	UNP Q8JJ25
B	111	GLU	-	expression tag	UNP Q8JJ25
B	112	HIS	-	expression tag	UNP Q8JJ25
B	113	HIS	-	expression tag	UNP Q8JJ25
B	114	HIS	-	expression tag	UNP Q8JJ25
B	115	HIS	-	expression tag	UNP Q8JJ25
B	116	HIS	-	expression tag	UNP Q8JJ25
B	117	HIS	-	expression tag	UNP Q8JJ25

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula:  $C_{10}H_{15}N_5O_{10}P_2$ ).



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

- Molecule 4 is SULFATE ION (three-letter code: SO4) (formula:  $O_4S$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	S	0	0
			5	4	1		
4	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



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

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

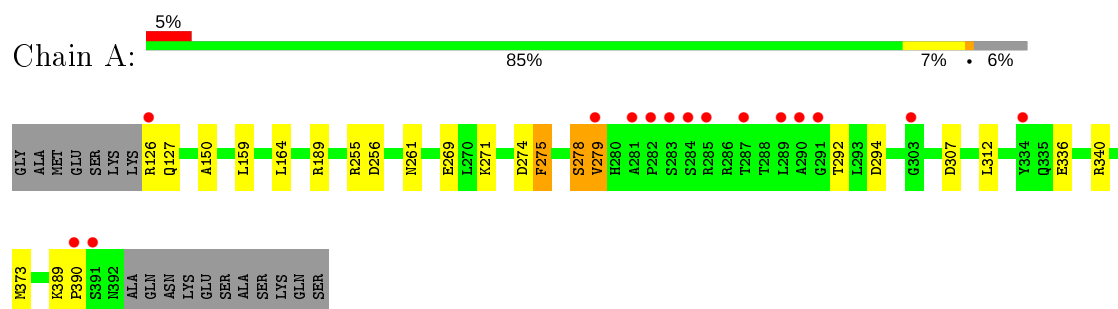
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	211	Total 211	O 211	0	0
6	B	69	Total 69	O 69	0	0

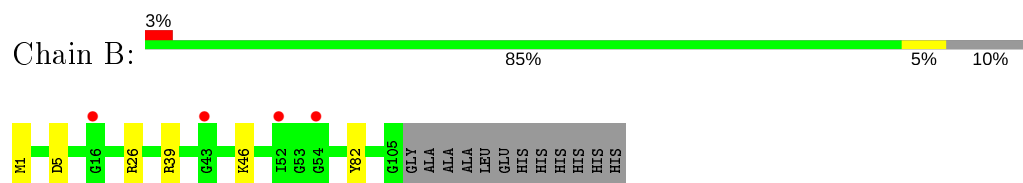
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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 ( $\text{RSRZ} > 2$ ). 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: Aurora kinase A



- Molecule 2: New antigen receptor variable domain



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 2 <sub>1</sub> 2 <sub>1</sub> 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	88.70 Å 109.72 Å 45.76 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.66 – 1.79 46.66 – 1.79	Depositor EDS
% Data completeness (in resolution range)	97.5 (46.66-1.79) 97.5 (46.66-1.79)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.50 (at 1.79 Å)	Xtriage
Refinement program	PHENIX 1.8.4_1496	Depositor
R, $R_{free}$	0.190 , 0.235 0.191 , 0.234	Depositor DCC
$R_{free}$ test set	2042 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	29.4	Xtriage
Anisotropy	0.637	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 51.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	3246	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.07% 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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: TPO, SO4, ADP, EDO

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	0.36	0/2164	0.55	2/2938 (0.1%)
2	B	0.32	0/773	0.53	0/1050
All	All	0.35	0/2937	0.55	2/3988 (0.1%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	278	SER	C-N-CA	5.63	135.79	121.70
1	A	312	LEU	CA-CB-CG	-5.28	103.15	115.30

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	A	2123	0	2044	17	0
2	B	766	0	737	4	0
3	A	27	0	12	2	0
4	A	5	0	0	1	0
4	B	5	0	0	1	0
5	A	40	0	60	3	0
6	A	211	0	0	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	69	0	0	0	1
All	All	3246	0	2853	24	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 4.

The worst 5 of 24 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:278:SER:HA	1:A:279:VAL:HB	1.59	0.85
3:A:501:ADP:H5'1	3:A:501:ADP:H8	1.44	0.81
1:A:255:ARG:HH22	5:A:511:EDO:H22	1.53	0.74
1:A:126:ARG:N	5:A:512:EDO:HO1	1.86	0.72
1:A:292:THR:O	6:A:602:HOH:O	2.09	0.70

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)
6:B:359:HOH:O	6:B:359:HOH:O[2_555]	1.76	0.44

## 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	267/285 (94%)	256 (96%)	10 (4%)	1 (0%)	34	21
2	B	103/117 (88%)	101 (98%)	2 (2%)	0	100	100
All	All	370/402 (92%)	357 (96%)	12 (3%)	1 (0%)	41	27

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	279	VAL

### 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	215/248 (87%)	212 (99%)	3 (1%)	67	59
2	B	82/97 (84%)	82 (100%)	0	100	100
All	All	297/345 (86%)	294 (99%)	3 (1%)	76	71

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	164	LEU
1	A	189	ARG
1	A	275	PHE

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

Mol	Chain	Res	Type
1	A	127	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](#)

1 non-standard protein/DNA/RNA residue is 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	288	1	8,10,11	1.25	0	10,14,16	1.01	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
1	TPO	A	288	1	-	6/9/11/13	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	288	TPO	N-CA-CB-OG1
1	A	288	TPO	C-CA-CB-CG2
1	A	288	TPO	CG2-CB-OG1-P
1	A	288	TPO	N-CA-CB-CG2
1	A	288	TPO	CB-OG1-P-O3P

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates

There are no carbohydrates in this entry.

## 5.6 Ligand geometry

13 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$
5	EDO	A	505	-	3,3,3	0.44	0	2,2,2	0.44	0
5	EDO	A	512	-	3,3,3	0.34	0	2,2,2	1.27	0
3	ADP	A	501	-	24,29,29	0.95	1 (4%)	29,45,45	1.51	4 (13%)
5	EDO	A	509	-	3,3,3	0.46	0	2,2,2	0.36	0
5	EDO	A	507	-	3,3,3	0.40	0	2,2,2	0.50	0
5	EDO	A	508	-	3,3,3	0.50	0	2,2,2	0.33	0
5	EDO	A	503	-	3,3,3	0.40	0	2,2,2	0.49	0
5	EDO	A	504	-	3,3,3	0.42	0	2,2,2	0.44	0
5	EDO	A	510	-	3,3,3	0.46	0	2,2,2	0.56	0
5	EDO	A	511	-	3,3,3	0.44	0	2,2,2	0.38	0
4	SO4	B	201	-	4,4,4	0.14	0	6,6,6	0.12	0
5	EDO	A	506	-	3,3,3	0.46	0	2,2,2	0.41	0
4	SO4	A	502	-	4,4,4	0.13	0	6,6,6	0.12	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
5	EDO	A	505	-	-	1/1/1/1	-
5	EDO	A	512	-	-	1/1/1/1	-
3	ADP	A	501	-	-	6/12/32/32	0/3/3/3
5	EDO	A	509	-	-	1/1/1/1	-
5	EDO	A	507	-	-	0/1/1/1	-
5	EDO	A	508	-	-	1/1/1/1	-
5	EDO	A	503	-	-	0/1/1/1	-
5	EDO	A	504	-	-	0/1/1/1	-
5	EDO	A	510	-	-	1/1/1/1	-
5	EDO	A	511	-	-	0/1/1/1	-
5	EDO	A	506	-	-	0/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	501	ADP	C5-C4	2.16	1.46	1.40

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	501	ADP	N3-C2-N1	-3.67	122.94	128.68
3	A	501	ADP	O4'-C4'-C5'	-3.11	99.13	109.37
3	A	501	ADP	N6-C6-N1	2.24	123.23	118.57
3	A	501	ADP	PA-O3A-PB	-2.06	125.76	132.83

There are no chirality outliers.

5 of 11 torsion outliers are listed below:

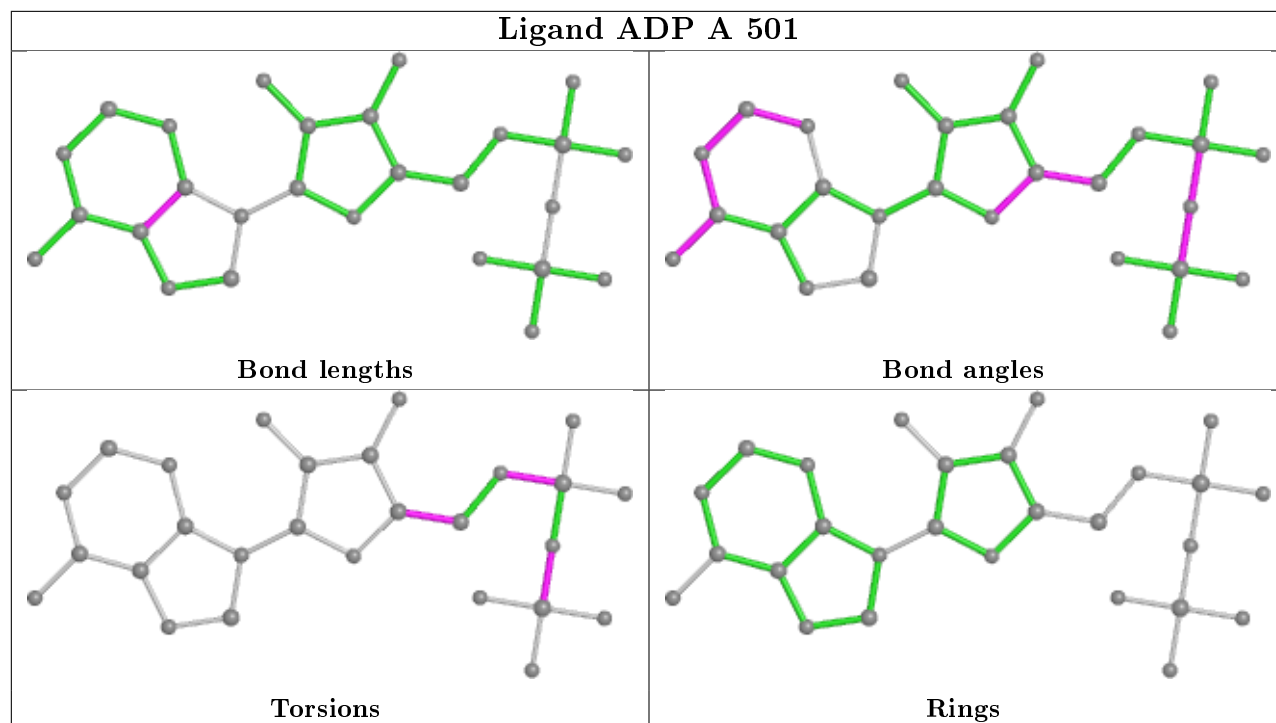
Mol	Chain	Res	Type	Atoms
3	A	501	ADP	PA-O3A-PB-O2B
3	A	501	ADP	C5'-O5'-PA-O1A
3	A	501	ADP	C5'-O5'-PA-O2A
5	A	512	EDO	O1-C1-C2-O2
3	A	501	ADP	O4'-C4'-C5'-O5'

There are no ring outliers.

5 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	512	EDO	2	0
3	A	501	ADP	2	0
5	A	511	EDO	1	0
4	B	201	SO4	1	0
4	A	502	SO4	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 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 [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<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	266/285 (93%)	0.16	15 (5%) 24 19	23, 32, 57, 84	0
2	B	105/117 (89%)	0.24	4 (3%) 40 35	27, 40, 64, 68	0
All	All	371/402 (92%)	0.19	19 (5%) 28 22	23, 34, 64, 84	0

The worst 5 of 19 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	283	SER	4.5
1	A	289	LEU	4.3
1	A	290	ALA	4.1
1	A	287	THR	4.0
1	A	279	VAL	3.9

### 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	288	11/12	0.81	0.29	82,90,102,110	0

### 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

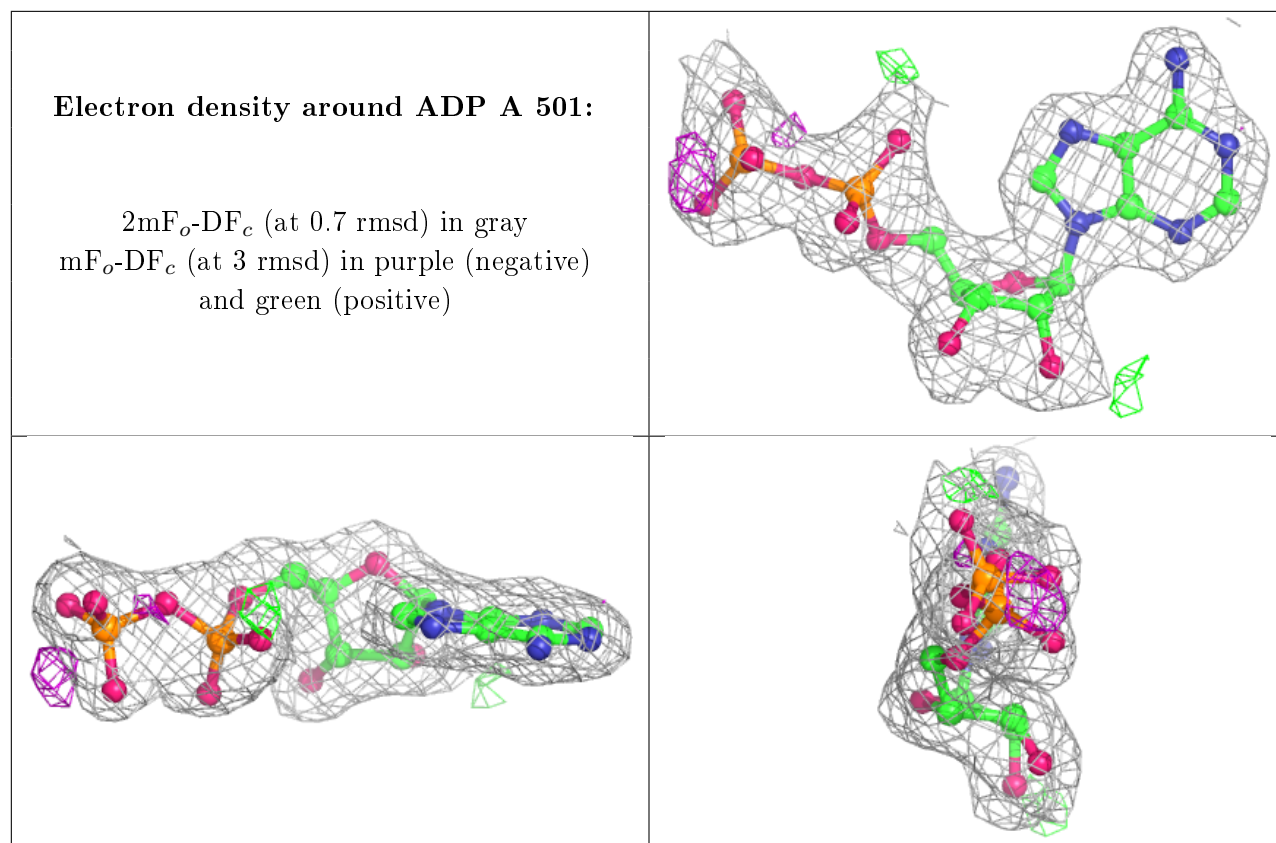


## 6.4 Ligands

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( $\text{\AA}^2$ )	Q<0.9
5	EDO	A	508	4/4	0.54	0.16	58,59,62,62	0
5	EDO	A	510	4/4	0.76	0.33	51,52,53,55	0
5	EDO	A	506	4/4	0.81	0.14	59,62,63,68	0
5	EDO	A	511	4/4	0.83	0.14	66,71,72,77	0
5	EDO	A	509	4/4	0.87	0.10	64,65,66,66	0
5	EDO	A	512	4/4	0.88	0.20	43,50,51,56	0
5	EDO	A	503	4/4	0.90	0.15	34,40,45,46	0
5	EDO	A	505	4/4	0.91	0.14	53,58,58,62	0
5	EDO	A	504	4/4	0.91	0.14	42,44,50,63	0
4	SO4	B	201	5/5	0.93	0.22	54,64,69,71	0
5	EDO	A	507	4/4	0.95	0.18	42,45,49,56	0
3	ADP	A	501	27/27	0.96	0.09	24,36,47,50	0
4	SO4	A	502	5/5	0.97	0.16	46,55,59,61	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 ⓘ

There are no such residues in this entry.