

wwPDB X-ray Structure Validation Summary Report (i)

Sep 18, 2023 – 05:22 PM EDT

PDB ID : 5BU2

Title : Structure of the C-terminal domain of lpg1496 from Legionella pneumophila

in complex with nucleotide

Authors: Wong, K.; Kozlov, G.; Gehring, K.; Montreal-Kingston Bacterial Structural

Genomics Initiative (BSGI)

Deposited on : 2015-06-03

Resolution : 2.11 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 (i)) 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 : 2.35.1

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)

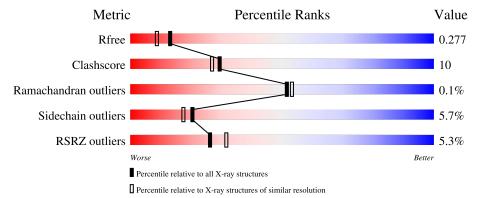
Validation Pipeline (wwPDB-VP) : 2.35.1

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 2.11 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{\rm A})}) \end{array}$
R_{free}	130704	6241 (2.14-2.10)
Clashscore	141614	6778 (2.14-2.10)
Ramachandran outliers	138981	6705 (2.14-2.10)
Sidechain outliers	138945	6706 (2.14-2.10)
RSRZ outliers	127900	6112 (2.14-2.10)

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	454	49%	13%		37%		
1	В	454	51%	12%		36%		
1	С	454	52%	11%	•	36%		
1	D	454	50%	12%	•	36%		



The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	ADP	A	701	-	-	X	-
2	ADP	A	702	-	-	X	-
2	ADP	В	702	-	-	X	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 9504 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 lpg1496.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace
1	Λ	288	Total	С	N	О	S	0	0	0
1	l A	200	2295	1461	390	432	12	0	0	
1	В	290	Total	С	N	О	S	0	1	0
1	D	290	2313	1473	392	436	12	0		
1	С	290	Total	С	N	О	S	0	3	0
1		290	2325	1480	392	441	12	0		
1	D	280	Total	С	N	О	S	0	1	0
1		289	2309	1471	391	435	12			U

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	153	MET	-	initiating methionine	UNP G8UY02
A	599	LEU	-	expression tag	UNP G8UY02
A	600	GLU	-	expression tag	UNP G8UY02
A	601	HIS	-	expression tag	UNP G8UY02
A	602	HIS	-	expression tag	UNP G8UY02
A	603	HIS	-	expression tag	UNP G8UY02
A	604	HIS	-	expression tag	UNP G8UY02
A	605	HIS	-	expression tag	UNP G8UY02
A	606	HIS	-	expression tag	UNP G8UY02
В	153	MET	-	initiating methionine	UNP G8UY02
В	599	LEU	-	expression tag	UNP G8UY02
В	600	GLU	-	expression tag	UNP G8UY02
В	601	HIS	-	expression tag	UNP G8UY02
В	602	HIS	-	expression tag	UNP G8UY02
В	603	HIS	-	expression tag	UNP G8UY02
В	604	HIS	-	expression tag	UNP G8UY02
В	605	HIS	-	expression tag	UNP G8UY02
В	606	HIS	-	expression tag	UNP G8UY02
С	153	MET	-	initiating methionine	UNP G8UY02
С	599	LEU	-	expression tag	UNP G8UY02
С	600	GLU	-	expression tag	UNP G8UY02

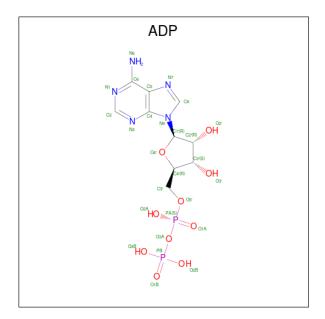
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Chain	Residue	Modelled	Actual	Comment	Reference
С	601	HIS	=	expression tag	UNP G8UY02
С	602	HIS	-	expression tag	UNP G8UY02
С	603	HIS	-	expression tag	UNP G8UY02
С	604	HIS	-	expression tag	UNP G8UY02
С	605	HIS	-	expression tag	UNP G8UY02
С	606	HIS	-	expression tag	UNP G8UY02
D	153	MET	-	initiating methionine	UNP G8UY02
D	599	LEU	-	expression tag	UNP G8UY02
D	600	GLU	-	expression tag	UNP G8UY02
D	601	HIS	-	expression tag	UNP G8UY02
D	602	HIS	-	expression tag	UNP G8UY02
D	603	HIS	-	expression tag	UNP G8UY02
D	604	HIS		expression tag	UNP G8UY02
D	605	HIS	=	expression tag	UNP G8UY02
D	606	HIS	-	expression tag	UNP G8UY02

• Molecule 2 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
9	Λ	1	Total	С	N	О	Р	0	0	
2	A	1	27	10	5	10	2		U	
9	Λ	1	Total	С	N	О	Р	0	0	
2	A	1	27	10	5	10	2		0	
2	D	1	Total	С	N	О	Р	0	0	
2	2 B	1	27	10	5	10	2	U		

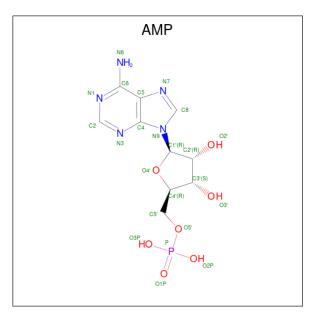
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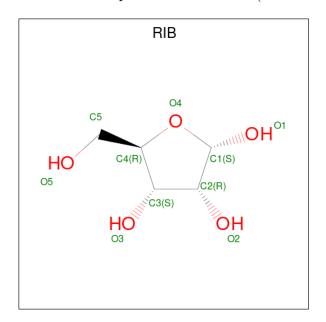
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	С	1	Total	С	N	О	Р	0	0
2		1	27	10	5	10	2	U	

 $\bullet \ \ Molecule\ 3\ is\ ADENOSINE\ MONOPHOSPHATE\ (three-letter\ code:\ AMP)\ (formula:\ C_{10}H_{14}N_5O_7P).$



Mol	Chain	Residues		Ato	ms			ZeroOcc	AltConf
2	В	1	Total	С	N	О	Р	0	0
)	Ъ	1	23	10	5	7	1	0	U

 \bullet Molecule 4 is alpha-D-ribofuranose (three-letter code: RIB) (formula: $\mathrm{C}_5\mathrm{H}_{10}\mathrm{O}_5).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	1	Total C O 10 5 5	0	0

• Molecule 5 is water.

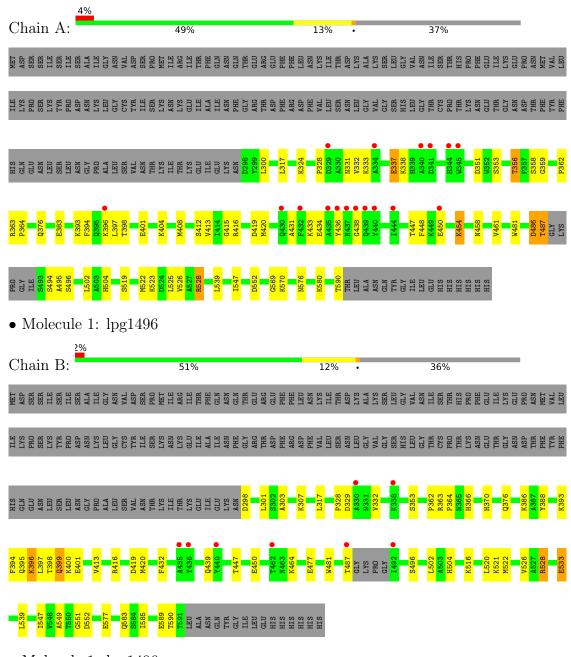
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	34	Total O 34 34	0	0
5	В	28	Total O 28 28	0	0
5	С	29	Total O 29 29	0	0
5	D	30	Total O 30 30	0	0



3 Residue-property plots (i)

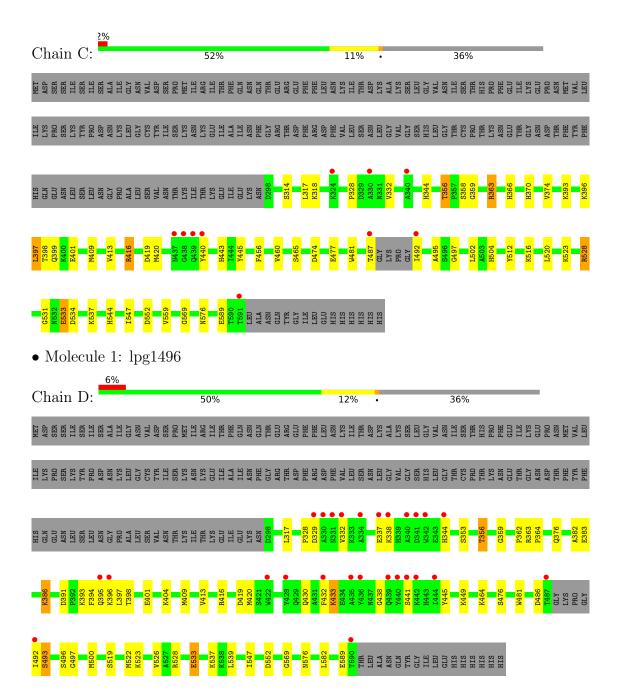
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: lpg1496



• Molecule 1: lpg1496







4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	56.87Å 69.71Å 77.03Å	Depositor
a, b, c, α , β , γ	89.87° 72.30° 70.31°	Depositor
Resolution (Å)	34.00 - 2.11	Depositor
Resolution (A)	33.29 - 2.11	EDS
% Data completeness	94.3 (34.00-2.11)	Depositor
(in resolution range)	94.4 (33.29-2.11)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$< I/\sigma(I) > 1$	2.39 (at 2.12Å)	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
P.P.	0.229 , 0.273	Depositor
R, R_{free}	0.232 , 0.277	DCC
R_{free} test set	2884 reflections (5.05%)	wwPDB-VP
Wilson B-factor (\mathring{A}^2)	33.5	Xtriage
Anisotropy	0.025	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39 , 39.0	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	0.93	EDS
Total number of atoms	9504	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.04% 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: RIB, ADP, AMP

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	
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.40	0/2354	0.56	0/3185
1	В	0.39	0/2375	0.58	0/3214
1	С	0.38	0/2393	0.58	$2/3239 \ (0.1\%)$
1	D	0.39	0/2371	0.55	0/3208
All	All	0.39	0/9493	0.57	$2/12846 \ (0.0\%)$

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
1	С	416	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	С	363	ARG	NE-CZ-NH2	-5.17	117.71	120.30

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	2295	0	2222	65	1
1	В	2313	0	2245	48	0
1	С	2325	0	2252	37	0
1	D	2309	0	2239	27	1
2	A	54	0	24	25	0

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Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	В	27	0	12	13	0
2	С	27	0	12	4	0
3	В	23	0	12	1	0
4	D	10	0	0	0	0
5	A	34	0	0	2	0
5	В	28	0	0	2	1
5	С	29	0	0	1	0
5	D	30	0	0	0	1
All	All	9504	0	9018	175	2

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 10.

The worst 5 of 175 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:B:549:ALA:HB2	1:B:585:ILE:HD11	1.36	1.05
1:A:393:LYS:HD2	2:A:701:ADP:N6	1.74	1.03
1:A:504:HIS:NE2	2:A:702:ADP:H2'	1.74	1.02
1:A:393:LYS:HD2	2:A:701:ADP:C6	1.95	1.01
1:B:413:VAL:HG12	2:B:702:ADP:H4'	1.39	1.01

All (2) 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)	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
5:B:826:HOH:O	5:D:829:HOH:O[1_565]	1.50	0.70
1:A:393:LYS:NZ	1:D:476:SER:OG[1_556]	2.10	0.10

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	$_{ m ntiles}$
1	A	284/454 (63%)	277 (98%)	7 (2%)	0	100	100
1	В	287/454~(63%)	281 (98%)	6 (2%)	0	100	100
1	С	289/454 (64%)	283 (98%)	6 (2%)	0	100	100
1	D	286/454~(63%)	278 (97%)	7 (2%)	1 (0%)	41	40
All	All	1146/1816 (63%)	1119 (98%)	26 (2%)	1 (0%)	51	53

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	397	LEU

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	Perce	ntiles
1	A	245/394~(62%)	233 (95%)	12 (5%)	25	22
1	В	248/394 (63%)	236 (95%)	12 (5%)	25	23
1	С	250/394 (64%)	237 (95%)	13 (5%)	23	20
1	D	247/394 (63%)	228 (92%)	19 (8%)	13	9
All	All	990/1576 (63%)	934 (94%)	56 (6%)	20	17

5 of 56 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	440	TYR
1	D	589	GLU
1	С	576	ASN
1	D	576	ASN
1	D	486	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:



Mol	Chain	Res	Type
1	С	437	ASN
1	С	504	HIS
1	D	430	GLN
1	С	544	HIS
1	A	583	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)

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

6 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		Link	Bond lengths			Bond angles		
MIOI	Type	Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	ADP	В	702	-	24,29,29	1.16	2 (8%)	29,45,45	1.79	10 (34%)
3	AMP	В	701	-	22,25,25	1.03	1 (4%)	25,38,38	1.46	4 (16%)
4	RIB	D	701	-	10,10,10	1.00	1 (10%)	13,14,14	1.92	5 (38%)
2	ADP	A	702	-	24,29,29	1.04	1 (4%)	29,45,45	1.63	4 (13%)
2	ADP	С	701	-	24,29,29	1.17	2 (8%)	29,45,45	1.81	7 (24%)
2	ADP	A	701	-	24,29,29	1.04	2 (8%)	29,45,45	1.48	4 (13%)

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
2	ADP	В	702	-	-	3/12/32/32	0/3/3/3
3	AMP	В	701	-	-	4/6/26/26	0/3/3/3
4	RIB	D	701	-	-	0/2/18/18	0/1/1/1
2	ADP	A	702	-	-	4/12/32/32	0/3/3/3
2	ADP	С	701	-	-	6/12/32/32	0/3/3/3
2	ADP	A	701	-	-	2/12/32/32	0/3/3/3

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(\text{\AA})$
2	С	701	ADP	C5-C4	2.97	1.48	1.40
2	В	702	ADP	C5-C4	2.70	1.48	1.40
2	A	702	ADP	C5-C4	2.61	1.47	1.40
2	С	701	ADP	C2-N3	2.55	1.36	1.32
4	D	701	RIB	C1-C2	-2.47	1.49	1.52

The worst 5 of 34 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
2	С	701	ADP	PA-O3A-PB	-5.03	115.55	132.83
2	A	702	ADP	C3'-C2'-C1'	4.26	107.40	100.98
2	A	702	ADP	PA-O3A-PB	-4.13	118.67	132.83
3	В	701	AMP	N3-C2-N1	-3.90	122.58	128.68
2	В	702	ADP	N3-C2-N1	-3.75	122.81	128.68

There are no chirality outliers.

5 of 19 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	702	ADP	C5'-O5'-PA-O2A
2	С	701	ADP	C3'-C4'-C5'-O5'
3	В	701	AMP	C5'-O5'-P-O1P
3	В	701	AMP	C5'-O5'-P-O2P
3	В	701	AMP	C5'-O5'-P-O3P

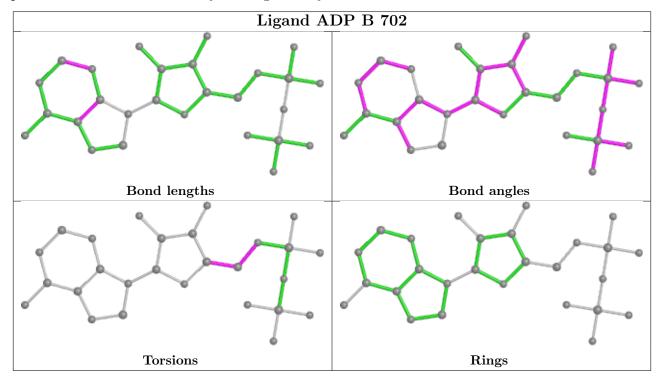
There are no ring outliers.

5 monomers are involved in 43 short contacts:

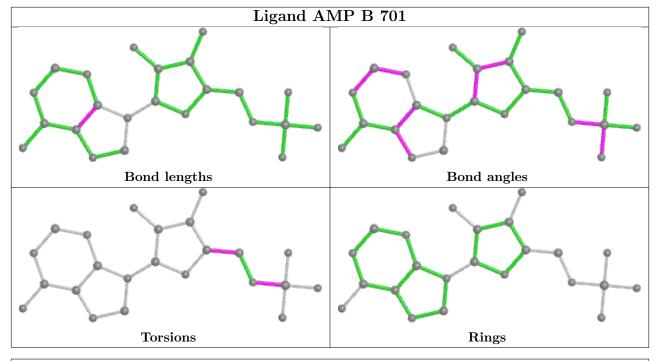


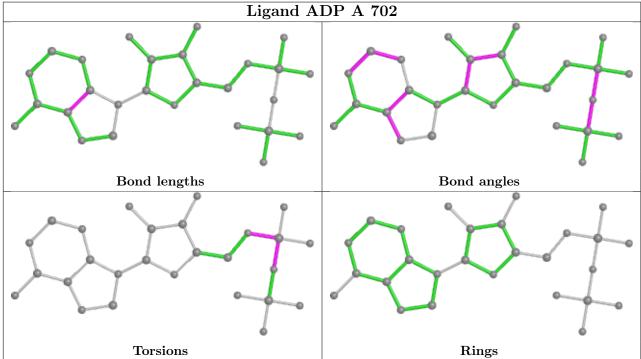
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	702	ADP	13	0
3	В	701	AMP	1	0
2	A	702	ADP	10	0
2	С	701	ADP	4	0
2	A	701	ADP	15	0

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.

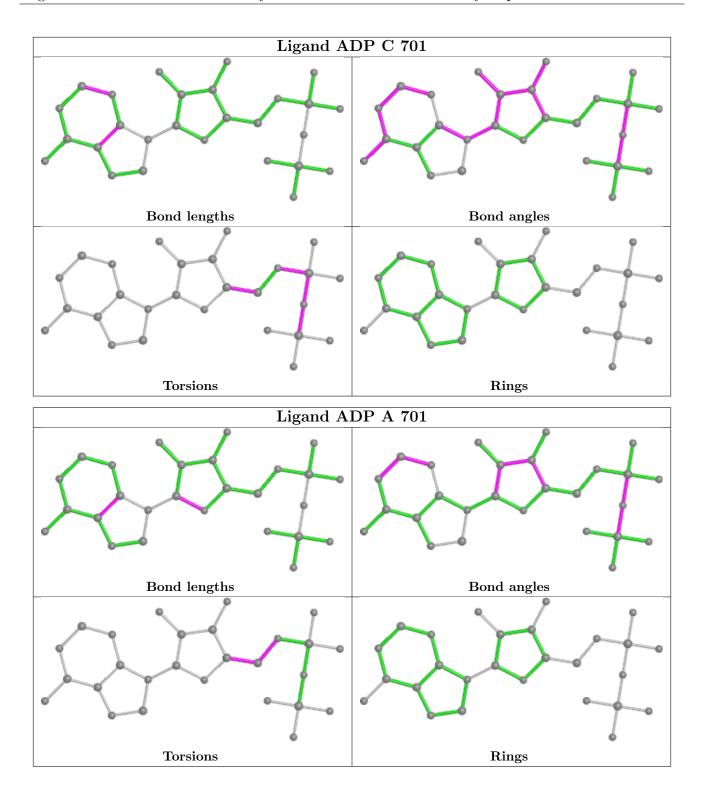












5.7 Other polymers (i)

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	$ullet$ Analysed $ullet$ $\langle ext{RSRZ} angle ullet$ $\# ext{RSRZ} angle ullet$		$OWAB(A^2)$	Q<0.9
1	A	288/454 (63%)	0.39	17 (5%) 22 27	22, 34, 64, 81	0
1	В	290/454~(63%)	0.34	8 (2%) 53 59	23, 35, 53, 66	0
1	С	290/454 (63%)	0.39	10 (3%) 45 51	23, 36, 55, 77	0
1	D	289/454 (63%)	0.43	26 (8%) 9 12	23, 35, 64, 79	0
All	All	1157/1816 (63%)	0.39	61 (5%) 26 31	22, 35, 59, 81	0

The worst 5 of 61 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	440	TYR	9.9
1	A	437	ASN	7.2
1	D	440	TYR	6.2
1	A	440	TYR	6.1
1	В	440	TYR	5.9

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 monosaccharides in this entry.

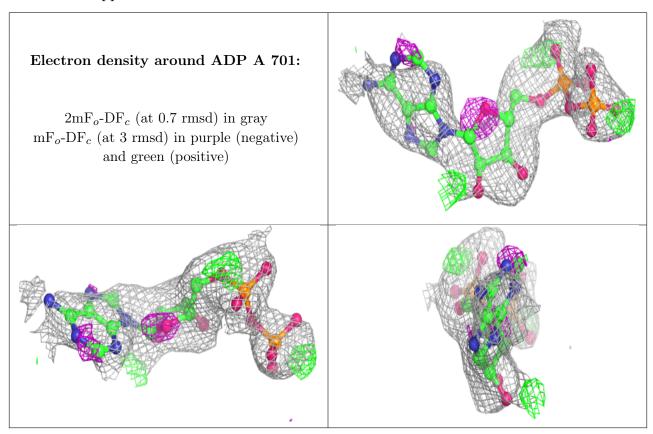
6.4 Ligands (i)

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.

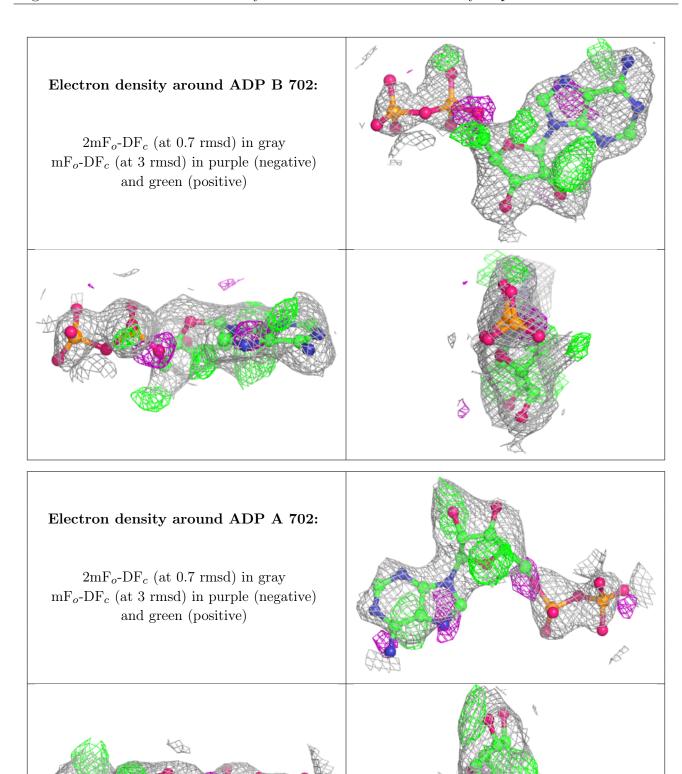


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	ADP	A	701	27/27	0.62	0.27	36,62,67,69	8
2	ADP	В	702	27/27	0.72	0.27	32,35,43,46	8
2	ADP	A	702	27/27	0.73	0.27	35,41,45,47	8
2	ADP	С	701	27/27	0.76	0.27	33,35,40,40	8
4	RIB	D	701	10/10	0.84	0.17	33,34,37,37	0
3	AMP	В	701	23/23	0.85	0.14	40,55,60,62	4

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 ADP C 701: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${ m mF}_o{ m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive) Electron density around AMP B 701: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (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.

