

Full wwPDB X-ray Structure Validation Report (i)

Feb 18, 2024 – 12:55 PM EST

PDB ID : 4DT8

Title : Crystal Structure of Aminoglycoside-2"-Phosphotransferase Type IVa in

Complex with Adenosine

Authors : Shi, K.; Berghuis, A.M.

Deposited on : 2012-02-20

Resolution : 2.15 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at

https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (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 : 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

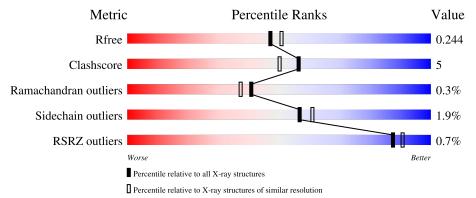
Validation Pipeline (wwPDB-VP) : 2.36

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 2.15 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 $(\# \text{Entries})$	Similar resolution $(\#\text{Entries, resolution range}(\mathring{A}))$
R_{free}	130704	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	1560 (2.16-2.16)
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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	309	83%	15%	•
1	В	309	83%	13%	•



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 5083 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 APH(2")-Id.

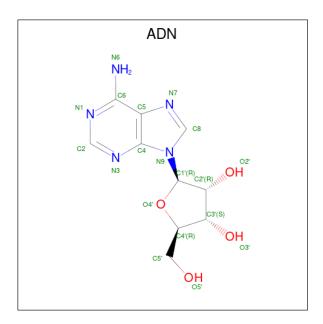
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	A 30	201	Total	С	N	О	S	0	5	0
1	A	301	2456	1590	394	461	11	0		
1	D	296	Total	С	N	О	S	0	2	0
	Б	290	2387	1543	384	451	9	0		

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	302	LEU	-	expression tag	UNP O68183
A	303	GLU	-	expression tag	UNP O68183
A	304	HIS	-	expression tag	UNP O68183
A	305	HIS	-	expression tag	UNP O68183
A	306	HIS	-	expression tag	UNP O68183
A	307	HIS	-	expression tag	UNP O68183
A	308	HIS	-	expression tag	UNP O68183
A	309	HIS	-	expression tag	UNP O68183
В	302	LEU	-	expression tag	UNP O68183
В	303	GLU	-	expression tag	UNP O68183
В	304	HIS	-	expression tag	UNP O68183
В	305	HIS	-	expression tag	UNP O68183
В	306	HIS	-	expression tag	UNP O68183
В	307	HIS	-	expression tag	UNP O68183
В	308	HIS	-	expression tag	UNP O68183
В	309	HIS	-	expression tag	UNP O68183

• Molecule 2 is ADENOSINE (three-letter code: ADN) (formula: $C_{10}H_{13}N_5O_4$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
9	Δ	1	Total	С	N	О	0	0	
	Λ	1	19	10	5	4	U		
9	2 B	1	Total	С	N	О	0	0	
		D 1		10	5	4	0		

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Cl 1 1	0	0
3	В	1	Total Cl 1 1	0	0

• Molecule 4 is water.

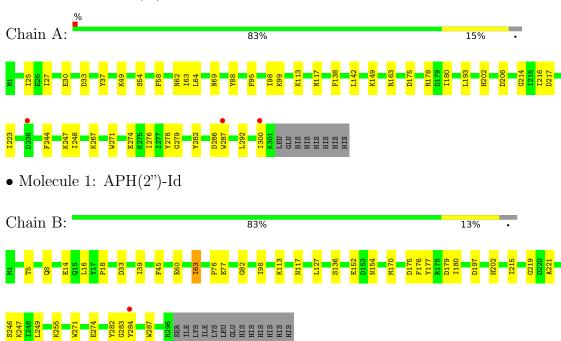
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	100	Total O 102 102	0	2
4	В	97	Total O 98 98	0	1



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: APH(2")-Id





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	42.66Å 101.40Å 73.59Å	Donogitor
a, b, c, α , β , γ	90.00° 100.56° 90.00°	Depositor
Resolution (Å)	41.94 - 2.15	Depositor
Resolution (A)	41.94 - 2.15	EDS
% Data completeness	99.9 (41.94-2.15)	Depositor
(in resolution range)	99.9 (41.94-2.15)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$< I/\sigma(I) > 1$	4.90 (at 2.16Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
D D.	0.190 , 0.245	Depositor
R, R_{free}	0.189 , 0.244	DCC
R_{free} test set	1686 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	27.6	Xtriage
Anisotropy	0.017	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32, 38.2	EDS
L-test for twinning ²	$ < L >=0.50, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5083	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.03% 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: ADN, CL

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		nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z >5	
1	A	0.90	$1/2527 \ (0.0\%)$	0.89	3/3415 (0.1%)	
1	В	0.83	2/2451 (0.1%)	0.86	3/3318 (0.1%)	
All	All	0.87	3/4978 (0.1%)	0.88	6/6733 (0.1%)	

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	В	271	TRP	CD2-CE2	5.63	1.48	1.41
1	A	287	TRP	CD2-CE2	5.36	1.47	1.41
1	В	287	TRP	CD2-CE2	5.30	1.47	1.41

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	206	ASP	CB-CG-OD1	6.21	123.89	118.30
1	A	193	LEU	CB-CG-CD2	-6.14	100.56	111.00
1	В	179	ASP	CB-CG-OD1	-6.04	112.87	118.30
1	A	267	LYS	CD-CE-NZ	5.24	123.74	111.70
1	В	170	MET	CG-SD-CE	-5.21	91.86	100.20
1	В	175	ASP	CB-CG-OD2	5.07	122.86	118.30

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	asvmmetric	unit.	whereas S	Svmm-	Clashes	lists s	vmmetr	v-related	clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2456	0	2372	28	0
1	В	2387	0	2283	21	0
2	A	19	0	13	1	0
2	В	19	0	13	1	0
3	A	1	0	0	0	0
3	В	1	0	0	0	0
4	A	102	0	0	0	0
4	В	98	0	0	0	0
All	All	5083	0	4681	48	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 5.

All (48) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A	A., 0	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}\ (\rm \mathring{A})$	overlap (Å)
1:A:138:PHE:HB2	1:A:223:ILE:HD11	1.64	0.77
1:B:117:ASN:HD21	1:B:247:LYS:NZ	1.84	0.76
1:A:138:PHE:CB	1:A:223:ILE:HD11	2.17	0.74
1:A:202:HIS:HD2	1:A:217:ASP:OD2	1.78	0.66
1:B:117:ASN:HD21	1:B:247:LYS:HZ3	1.43	0.66
1:B:63:ILE:HD13	1:B:221:ALA:HB3	1.79	0.64
1:B:98:ILE:O	2:B:401:ADN:H2	1.98	0.63
1:A:27:ILE:HD13	1:A:37:TYR:CE1	2.35	0.61
1:A:138:PHE:HB2	1:A:223:ILE:CD1	2.28	0.61
1:A:202:HIS:CD2	1:A:217:ASP:OD2	2.54	0.59
1:B:154:ASN:HB2	1:B:177:TYR:CD2	2.39	0.58
1:A:98:ILE:O	2:A:401:ADN:H2	2.06	0.55
1:A:63:ILE:HD11	1:A:142:LEU:HD22	1.89	0.55
1:A:98:ILE:HD12	1:A:216:ILE:HG22	1.89	0.53
1:A:30:GLU:OE2	1:A:49:LYS:NZ	2.35	0.53
1:A:138:PHE:CB	1:A:223:ILE:CD1	2.89	0.51
1:A:276:ILE:HD11	1:A:292:LEU:N	2.27	0.49
1:B:117:ASN:ND2	1:B:247:LYS:NZ	2.58	0.49
1:B:5:THR:OG1	1:B:8:GLN:HG3	2.13	0.49
1:A:117:ASN:HD21	1:A:247:LYS:NZ	2.12	0.47
1:A:98:ILE:HG21	1:A:214:GLY:HA3	1.97	0.46
1:A:286:ASP:OD2	1:A:286:ASP:N	2.48	0.46
1:B:197:ASP:OD1	1:B:202:HIS:HE1	1.98	0.46
1:A:54:SER:OG	1:A:88:TYR:HB3	2.16	0.46

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A 4 1	A 4 0	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}\ (\mathring{\rm A})$	overlap (Å)
1:A:278:TYR:O	1:A:279:GLY:C	2.54	0.46
1:B:39:ILE:HD12	1:B:45:PHE:CD2	2.51	0.45
1:B:117:ASN:HD21	1:B:247:LYS:HZ2	1.62	0.45
1:B:176:PHE:CZ	1:B:180:ILE:HD11	2.51	0.45
1:A:149:LYS:NZ	1:A:274:GLU:OE1	2.48	0.45
1:A:58:PHE:CE2	1:A:62[B]:ASN:ND2	2.85	0.44
1:A:244:PHE:CE1	1:A:248:ILE:HD11	2.53	0.44
1:B:16:LEU:CD1	1:B:82:GLY:HA2	2.48	0.44
1:B:113:LYS:HA	1:B:113:LYS:HD3	1.70	0.44
1:B:255:LYS:HD3	1:B:255:LYS:HA	1.79	0.44
1:A:175:ASP:OD2	1:A:178:ARG:NH2	2.50	0.43
1:B:117:ASN:ND2	1:B:247:LYS:HZ2	2.16	0.43
1:B:33:ASP:OD2	1:B:282:TYR:HE1	2.02	0.43
1:A:64:LEU:HD12	1:A:95:PHE:CE1	2.55	0.42
1:A:271:TRP:CE3	1:A:274:GLU:HB2	2.55	0.42
1:A:33:ASP:OD2	1:A:282:TYR:HE1	2.03	0.42
1:B:246:SER:HA	1:B:249:LEU:HD12	2.02	0.42
1:B:60:GLU:HB2	1:B:219:GLY:HA2	2.01	0.42
1:A:163:ARG:CZ	1:B:18:PRO:HB3	2.50	0.41
1:A:180:ILE:HD13	1:A:180:ILE:HG21	1.83	0.41
1:A:25:ILE:HD13	1:A:25:ILE:HG21	1.79	0.41
1:B:76:PRO:HD3	1:B:215:ILE:O	2.21	0.41
1:A:138:PHE:CG	1:A:223:ILE:HD11	2.56	0.41
1:B:127:LEU:HD23	1:B:127:LEU:HA	1.89	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	304/309 (98%)	293 (96%)	11 (4%)	0	100	100

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Mol	Chain	Analysed	Analysed Favoured		Outliers	Percentiles
1	В	296/309 (96%)	284 (96%)	10 (3%)	2 (1%)	22 15
All	All	600/618 (97%)	577 (96%)	21 (4%)	2 (0%)	41 37

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	284	TYR
1	В	283	GLY

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	Analysed Rotameric Outliers		Percentiles		
1	A	$265/287 \ (92\%)$	261 (98%)	4 (2%)	65 69		
1	В	256/287 (89%)	250 (98%)	6 (2%)	50 53		
All	All	521/574 (91%)	511 (98%)	10 (2%)	57 61		

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	69	ASN
1	A	99	LYS
1	A	113	LYS
1	A	300	ILE
1	В	14	GLU
1	В	63	ILE
1	В	77	GLU
1	В	136	SER
1	В	152	GLU
1	В	274	GLU

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



Mol	Chain	Res	Type
1	A	32	ASN
1	A	114	GLN
1	A	116	GLN
1	A	117	ASN
1	A	154	ASN
1	A	202	HIS
1	В	15	GLN
1	В	109	ASN
1	В	117	ASN
1	В	202	HIS
1	В	251	HIS

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)

Of 4 ligands modelled in this entry, 2 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	Mol Type Chain Res L		Link	Bond lengths			Bond angles			
IVIOI	Type	Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	ADN	В	401	-	18,21,21	3.06	7 (38%)	18,31,31	2.79	6 (33%)
2	ADN	A	401	-	18,21,21	4.44	6 (33%)	18,31,31	2.24	5 (27%)



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	ADN	В	401	-	-	2/2/22/22	0/3/3/3
2	ADN	A	401	-	-	0/2/22/22	0/3/3/3

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	${f Z}$	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
2	A	401	ADN	O4'-C1'	14.63	1.61	1.41
2	В	401	ADN	O4'-C1'	7.79	1.51	1.41
2	A	401	ADN	C2-N3	6.97	1.43	1.32
2	В	401	ADN	C2-N3	4.97	1.40	1.32
2	A	401	ADN	C2-N1	4.93	1.43	1.33
2	В	401	ADN	O4'-C4'	4.54	1.55	1.45
2	A	401	ADN	C2'-C1'	-4.37	1.47	1.53
2	A	401	ADN	O4'-C4'	3.83	1.53	1.45
2	В	401	ADN	C2-N1	3.66	1.40	1.33
2	В	401	ADN	C2'-C3'	3.51	1.63	1.53
2	A	401	ADN	C3'-C4'	3.36	1.61	1.53
2	В	401	ADN	C5'-C4'	3.13	1.62	1.51
2	В	401	ADN	C2'-C1'	-2.72	1.49	1.53

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	401	ADN	O4'-C4'-C5'	7.90	126.29	109.21
2	A	401	ADN	N3-C2-N1	-5.96	119.37	128.68
2	A	401	ADN	O4'-C4'-C5'	5.20	120.45	109.21
2	В	401	ADN	N3-C2-N1	-5.02	120.84	128.68
2	В	401	ADN	C1'-N9-C4	-4.51	118.72	126.64
2	A	401	ADN	N6-C6-N1	2.63	124.04	118.57
2	A	401	ADN	C5-C6-N6	-2.34	116.80	120.35
2	В	401	ADN	O2'-C2'-C3'	2.31	119.29	111.82
2	В	401	ADN	O5'-C5'-C4'	2.31	119.20	111.29
2	A	401	ADN	O3'-C3'-C4'	2.16	117.29	111.05
2	В	401	ADN	C4-C5-N7	-2.06	107.25	109.40

There are no chirality outliers.

All (2) torsion outliers are listed below:



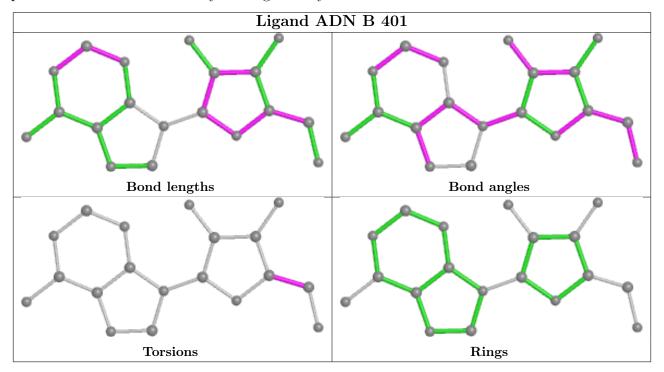
Mol	Chain	Res	Type	Atoms
2	В	401	ADN	O4'-C4'-C5'-O5'
2	В	401	ADN	C3'-C4'-C5'-O5'

There are no ring outliers.

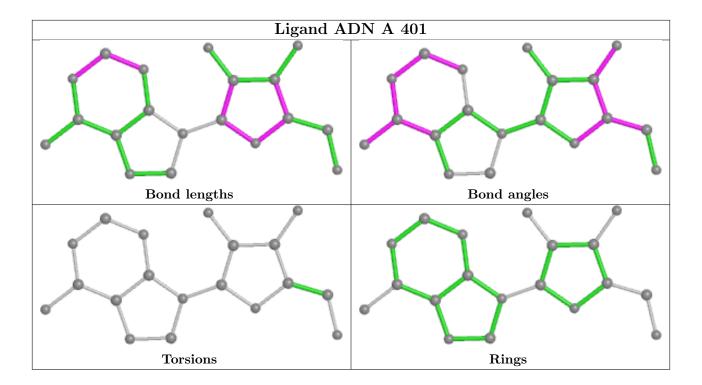
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	401	ADN	1	0
2	A	401	ADN	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		$OWAB(Å^2)$	Q<0.9
1	A	301/309 (97%)	-0.30	3 (0%)	82 86	13, 25, 45, 67	0
1	В	296/309~(95%)	-0.19	1 (0%)	94 95	17, 30, 65, 94	0
All	All	597/618 (96%)	-0.25	4 (0%)	87 91	13, 28, 57, 94	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	300	ILE	2.9
1	В	284	TYR	2.6
1	A	287	TRP	2.5
1	A	236	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathring{\mathbf{A}}^2)$	Q < 0.9
2	ADN	В	401	19/19	0.75	0.21	35,45,61,65	0

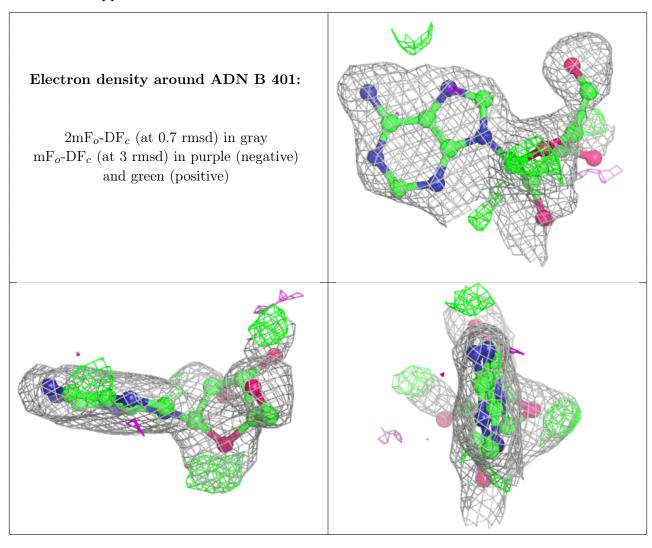
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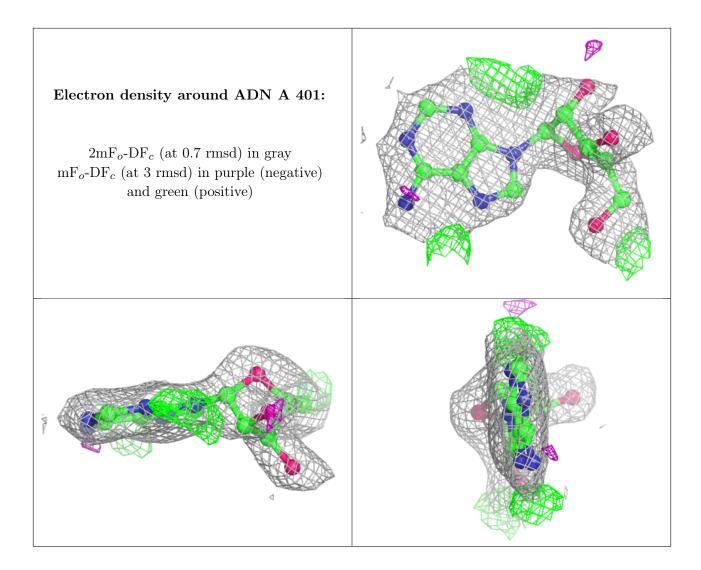
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	ADN	A	401	19/19	0.86	0.17	25,35,45,46	0
3	CL	A	402	1/1	0.95	0.10	33,33,33,33	0
3	CL	В	402	1/1	0.95	0.18	38,38,38,38	0

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.

