



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:27 PM UTC

PDB ID : 8X3V / pdb_00008x3v
Title : Crystal structure of 2C from encephalomyocarditis virus bound with ATP
Authors : Zhang, H.; Zhao, H.; Dong, Y.H.
Deposited on : 2023-11-14
Resolution : 2.90 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 ⓘ 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 ⓘ](#)) 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 : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

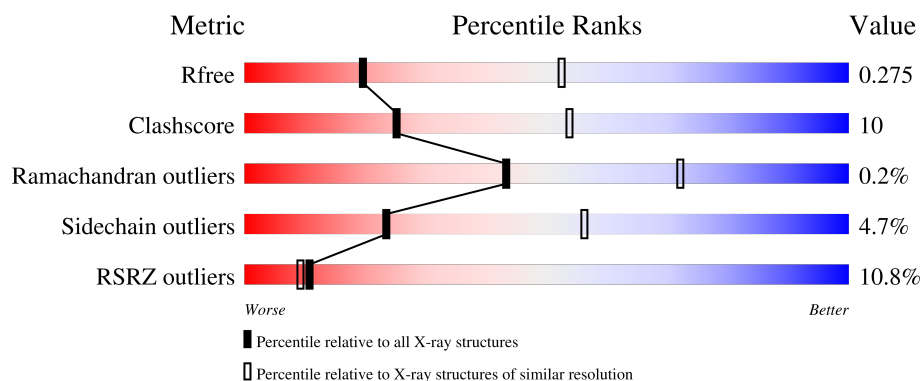
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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}	180053	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)

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 $\leq 5\%$. 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	218	8% 71% 21% • 5%
1	B	218	12% 78% 17% • •

2 Entry composition [i](#)

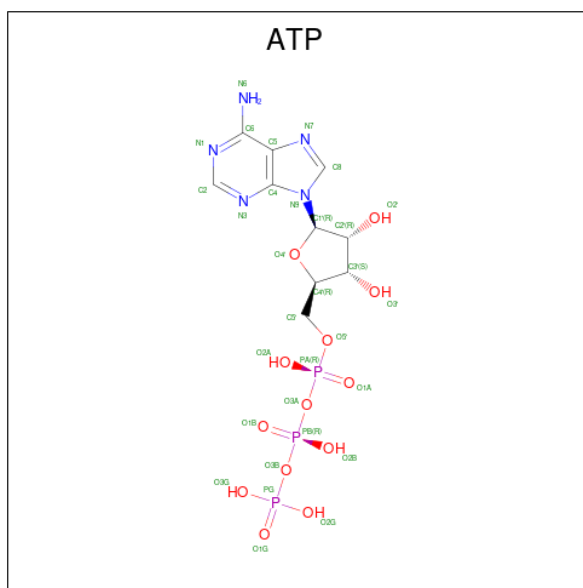
There are 2 unique types of molecules in this entry. The entry contains 3266 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Protein 2C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	208	Total	C	N	O	S	0	0	0
			1616	1021	278	309	8			
1	B	209	Total	C	N	O	S	0	0	0
			1619	1026	276	309	8			

- Molecule 2 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).

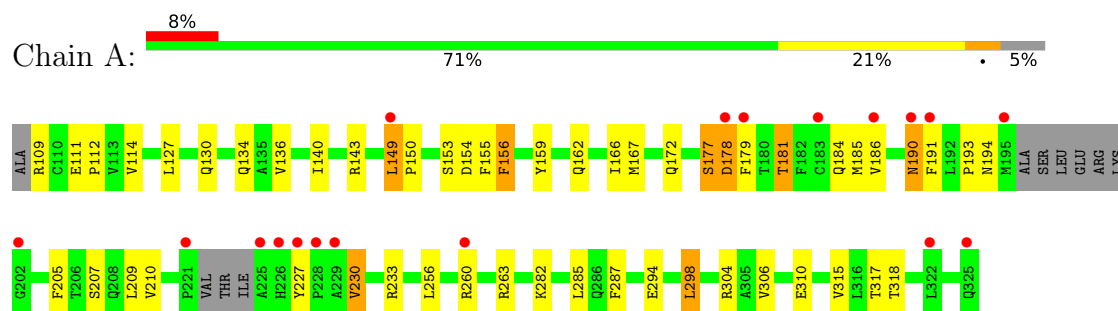


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	0
			31	10	5	13	3		

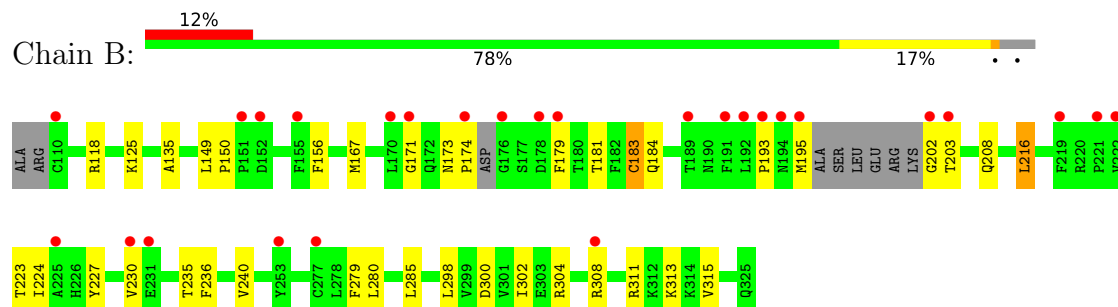
3 Residue-property plots

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: Protein 2C



• Molecule 1: Protein 2C



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	171.00Å 171.00Å 77.01Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.36 – 2.90 49.36 – 2.90	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.36-2.90) 99.9 (49.36-2.90)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.97 (at 2.91Å)	Xtriage
Refinement program	PHENIX (1.19_4092: ???)	Depositor
R, R_{free}	0.224 , 0.273 0.231 , 0.275	Depositor DCC
R_{free} test set	1524 reflections (9.99%)	wwPDB-VP
Wilson B-factor (Å ²)	76.3	Xtriage
Anisotropy	0.274	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 74.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3266	wwPDB-VP
Average B, all atoms (Å ²)	95.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.80% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: ATP

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	0.54	0/1646	0.89	10/2231 (0.4%)
1	B	0.49	0/1649	0.78	2/2237 (0.1%)
All	All	0.51	0/3295	0.84	12/4468 (0.3%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	156	PHE	N-CA-C	-8.35	99.07	110.68
1	A	177	SER	N-CA-C	-7.08	103.61	111.82
1	A	149	LEU	CA-C-N	-7.04	113.13	120.38
1	A	149	LEU	C-N-CA	-7.04	113.13	120.38
1	A	154	ASP	N-CA-C	-7.01	100.94	110.68
1	A	178	ASP	N-CA-C	-6.03	101.02	110.36
1	B	118	ARG	N-CA-C	-5.96	101.95	110.59
1	B	223	THR	N-CA-C	-5.61	106.11	113.12
1	A	181	THR	N-CA-C	-5.48	104.54	111.11
1	A	227	TYR	CA-C-N	-5.39	114.12	119.56
1	A	227	TYR	C-N-CA	-5.39	114.12	119.56
1	A	190	ASN	N-CA-C	5.36	117.42	107.99

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	1616	0	1604	41	0
1	B	1619	0	1614	24	0
2	A	31	0	12	0	0
All	All	3266	0	3230	63	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 10.

All (63) 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:315:VAL:O	1:A:318:THR:HG22	1.53	1.07
1:A:149:LEU:HD22	1:A:167:MET:HG2	1.05	1.03
1:A:109:ARG:CZ	1:A:190:ASN:HB2	1.90	1.01
1:A:149:LEU:CD2	1:A:167:MET:HG2	1.92	1.00
1:A:149:LEU:HD22	1:A:167:MET:CG	1.98	0.93
1:A:149:LEU:HD13	1:A:166:ILE:O	1.78	0.83
1:A:109:ARG:NH2	1:A:190:ASN:HB2	1.95	0.80
1:A:315:VAL:O	1:A:318:THR:CG2	2.34	0.75
1:B:171:GLY:HA2	1:B:179:PHE:CZ	2.23	0.73
1:A:186:VAL:HG23	1:A:233:ARG:HD3	1.70	0.72
1:B:156:PHE:O	1:B:195:MET:SD	2.53	0.68
1:A:109:ARG:CZ	1:A:190:ASN:CB	2.71	0.67
1:A:256:LEU:O	1:B:311:ARG:NH2	2.28	0.66
1:A:230:VAL:O	1:A:233:ARG:N	2.30	0.64
1:A:156:PHE:HB2	1:A:193:PRO:HB2	1.81	0.63
1:A:287:PHE:CZ	1:A:298:LEU:HD12	2.37	0.60
1:A:230:VAL:HA	1:A:233:ARG:HD2	1.84	0.59
1:A:315:VAL:C	1:A:318:THR:HG22	2.27	0.59
1:A:127:LEU:HD13	1:B:315:VAL:HG13	1.84	0.59
1:A:172:GLN:HG3	1:A:172:GLN:O	2.02	0.59
1:A:112:PRO:HG2	1:A:186:VAL:HG12	1.85	0.58
1:B:235:THR:HG23	1:B:308:ARG:HH22	1.69	0.58
1:B:235:THR:HG23	1:B:308:ARG:NH2	2.18	0.58
1:A:167:MET:HG3	1:A:185:MET:HE1	1.86	0.57
1:A:230:VAL:HA	1:A:233:ARG:HH11	1.70	0.57
1:B:236:PHE:CZ	1:B:308:ARG:HG3	2.40	0.57
1:B:135:ALA:HB3	1:B:302:ILE:HD13	1.88	0.56
1:B:235:THR:HG22	1:B:308:ARG:NH1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:235:THR:CG2	1:B:308:ARG:NH1	2.69	0.56
1:A:186:VAL:CG2	1:A:233:ARG:HD3	2.37	0.55
1:A:112:PRO:CG	1:A:186:VAL:HG12	2.38	0.54
1:A:140:ILE:HD11	1:A:306:VAL:HG13	1.88	0.54
1:B:300:ASP:O	1:B:304:ARG:HG3	2.08	0.53
1:A:149:LEU:CD2	1:A:167:MET:CG	2.73	0.53
1:A:114:VAL:HG22	1:A:210:VAL:HB	1.93	0.50
1:B:279:PHE:CE1	1:B:285:LEU:HD22	2.46	0.50
1:B:236:PHE:HZ	1:B:308:ARG:HG3	1.77	0.49
1:A:184:GLN:HB3	1:A:191:PHE:CD1	2.49	0.48
1:A:230:VAL:CG2	1:A:233:ARG:HH11	2.27	0.48
1:B:149:LEU:HD12	1:B:150:PRO:HD2	1.95	0.47
1:A:114:VAL:HG21	1:A:186:VAL:HG11	1.96	0.47
1:B:235:THR:CG2	1:B:308:ARG:CZ	2.93	0.47
1:B:135:ALA:CB	1:B:302:ILE:HD13	2.44	0.47
1:B:173:ASN:O	1:B:174:PRO:C	2.57	0.46
1:B:193:PRO:O	1:B:202:GLY:N	2.50	0.45
1:B:183:CYS:SG	1:B:230:VAL:HG22	2.57	0.45
1:A:159:TYR:HE2	1:A:205:PHE:HA	1.82	0.44
1:B:235:THR:HG22	1:B:308:ARG:HH12	1.81	0.44
1:A:260:ARG:HD3	1:A:263:ARG:NH2	2.32	0.44
1:A:162:GLN:O	1:A:207:SER:OG	2.28	0.43
1:A:136:VAL:HG11	1:A:209:LEU:HD22	1.99	0.43
1:B:208:GLN:HE22	1:B:313:LYS:NZ	2.16	0.43
1:A:155:PHE:CD1	1:A:194:ASN:HB2	2.53	0.43
1:B:280:LEU:HD23	1:B:298:LEU:HD23	2.01	0.42
1:A:130:GLN:O	1:A:134:GLN:HG3	2.18	0.42
1:A:114:VAL:CG2	1:A:186:VAL:HG11	2.50	0.42
1:A:178:ASP:O	1:A:179:PHE:HB2	2.19	0.41
1:A:150:PRO:HB2	1:A:153:SER:HB3	2.02	0.41
1:A:294:GLU:CD	1:A:304:ARG:HH22	2.29	0.41
1:A:260:ARG:HD3	1:A:263:ARG:CZ	2.51	0.41
1:B:235:THR:CG2	1:B:308:ARG:NH2	2.82	0.41
1:B:216:LEU:H	1:B:216:LEU:HG	1.64	0.40
1:A:282:LYS:HA	1:A:285:LEU:O	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	202/218 (93%)	197 (98%)	5 (2%)	0	100	100
1	B	203/218 (93%)	192 (95%)	10 (5%)	1 (0%)	24	54
All	All	405/436 (93%)	389 (96%)	15 (4%)	1 (0%)	43	72

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	227	TYR

5.3.2 Protein sidechains

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	180/188 (96%)	172 (96%)	8 (4%)	25	59
1	B	181/188 (96%)	172 (95%)	9 (5%)	22	53
All	All	361/376 (96%)	344 (95%)	17 (5%)	23	56

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	111	GLU
1	A	143	ARG
1	A	177	SER
1	A	181	THR
1	A	230	VAL

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Mol	Chain	Res	Type
1	A	298	LEU
1	A	310	GLU
1	A	317	THR
1	B	125	LYS
1	B	167	MET
1	B	181	THR
1	B	183	CYS
1	B	184	GLN
1	B	203	THR
1	B	216	LEU
1	B	224	ILE
1	B	240	VAL

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

Mol	Chain	Res	Type
1	B	161	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](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand 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	$\# Z > 2$
2	ATP	A	401	-	32,33,33	1.38	6 (18%)	48,52,52	1.71	10 (20%)

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	ATP	A	401	-	-	8/22/38/38	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	ATP	C5-C4	4.43	1.47	1.39
2	A	401	ATP	C5-C6	2.50	1.47	1.41
2	A	401	ATP	C5-N7	-2.42	1.34	1.39
2	A	401	ATP	C8-N7	2.25	1.36	1.31
2	A	401	ATP	C4-N9	-2.16	1.33	1.37
2	A	401	ATP	PA-O3A	2.08	1.61	1.59

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	ATP	C5-C4-N3	-5.53	119.10	126.72
2	A	401	ATP	N3-C4-N9	4.30	134.48	127.17
2	A	401	ATP	C2-N3-C4	3.75	120.99	111.83
2	A	401	ATP	N3-C2-N1	-3.66	123.05	128.58
2	A	401	ATP	C4-C5-N7	-3.23	106.88	110.58
2	A	401	ATP	C3'-C2'-C1'	2.66	106.49	101.46
2	A	401	ATP	C4-N9-C8	2.44	108.30	105.74
2	A	401	ATP	C6-C5-N7	2.31	136.55	132.09
2	A	401	ATP	C5-N7-C8	2.21	106.92	103.45
2	A	401	ATP	C2-N1-C6	2.06	122.11	118.73

There are no chirality outliers.

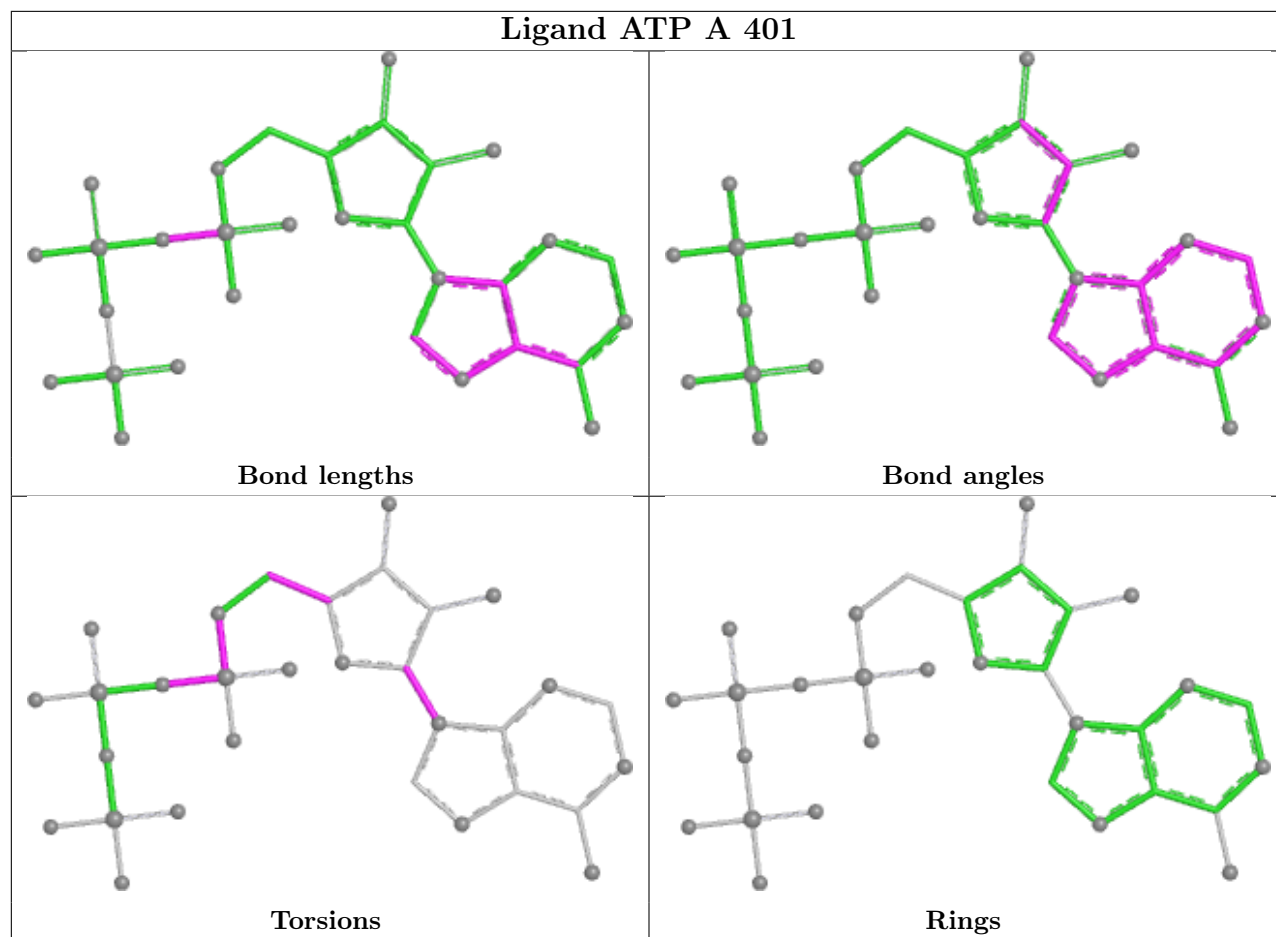
All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	ATP	C5'-O5'-PA-O1A
2	A	401	ATP	C5'-O5'-PA-O2A
2	A	401	ATP	C5'-O5'-PA-O3A
2	A	401	ATP	C2'-C1'-N9-C8
2	A	401	ATP	C2'-C1'-N9-C4
2	A	401	ATP	O4'-C4'-C5'-O5'
2	A	401	ATP	C3'-C4'-C5'-O5'
2	A	401	ATP	PB-O3A-PA-O2A

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 [i](#)

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, 95th 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	208/218 (95%)	0.43	18 (8%) 16 13	42, 71, 178, 253	0
1	B	209/218 (95%)	0.55	27 (12%) 7 6	30, 74, 213, 270	0
All	All	417/436 (95%)	0.49	45 (10%) 11 9	30, 72, 196, 270	0

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	322	LEU	5.2
1	B	179	PHE	4.2
1	A	190	ASN	3.9
1	B	176	GLY	3.9
1	A	221	PRO	3.8
1	B	202	GLY	3.8
1	A	325	GLN	3.6
1	B	222	VAL	3.5
1	B	174	PRO	3.4
1	B	203	THR	3.3
1	A	149	LEU	3.2
1	B	230	VAL	3.2
1	B	231	GLU	3.1
1	A	225	ALA	2.9
1	A	227	TYR	2.9
1	B	253	TYR	2.8
1	B	277	CYS	2.8
1	A	195	MET	2.8
1	B	110	CYS	2.8
1	B	178	ASP	2.8
1	A	226	HIS	2.7
1	B	192	LEU	2.7
1	A	178	ASP	2.6
1	B	195	MET	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	228	PRO	2.6
1	B	152	ASP	2.6
1	B	193	PRO	2.5
1	B	219	PHE	2.5
1	A	202	GLY	2.5
1	A	191	PHE	2.4
1	B	191	PHE	2.4
1	A	183	CYS	2.4
1	B	155	PHE	2.3
1	B	194	ASN	2.3
1	A	186	VAL	2.3
1	B	221	PRO	2.3
1	B	151	PRO	2.2
1	B	171	GLY	2.2
1	A	179	PHE	2.2
1	B	225	ALA	2.2
1	B	170	LEU	2.2
1	A	229	ALA	2.1
1	B	308	ARG	2.1
1	A	260	ARG	2.1
1	B	189	THR	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](#)

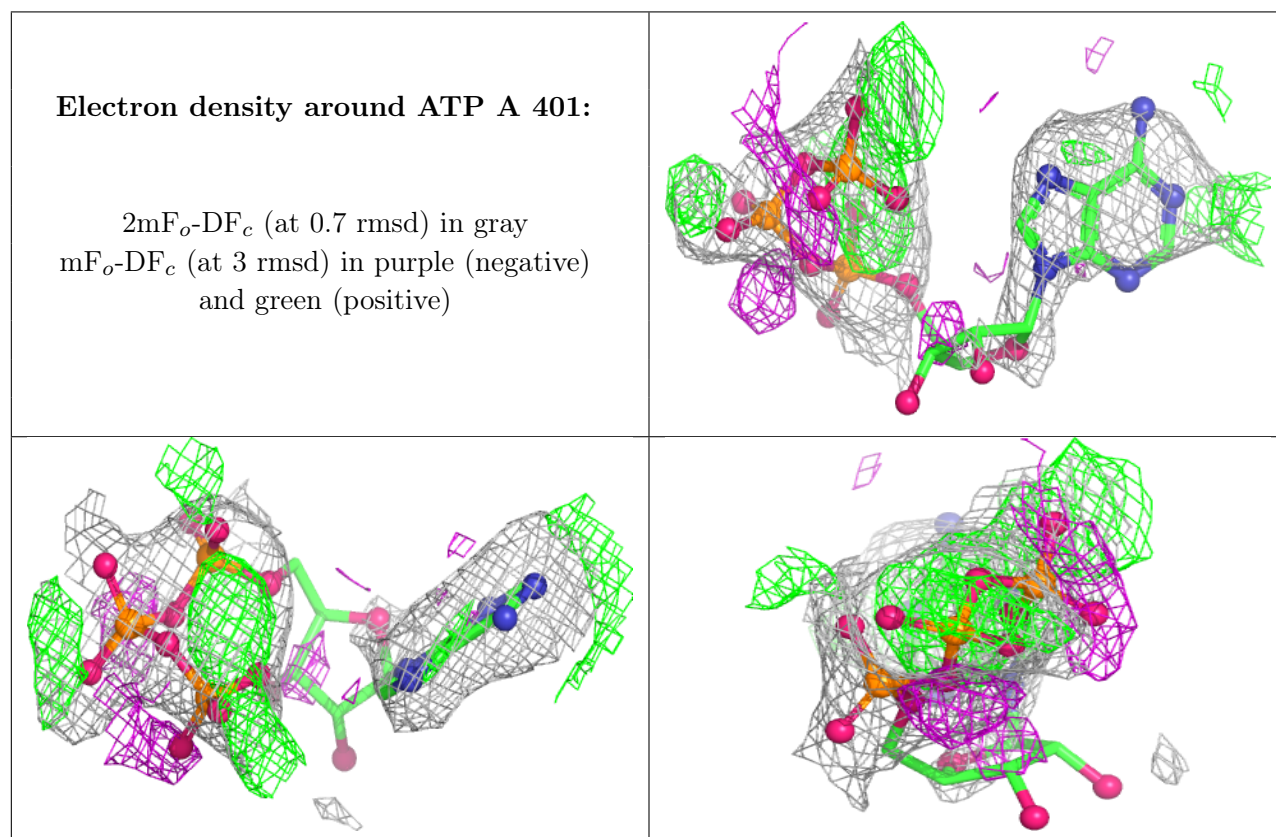
There are no oligosaccharides in this entry.

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, 95th 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
2	ATP	A	401	31/31	0.68	0.24	83,125,159,169	19

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.