



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 09:18 AM UTC

PDB ID : 4OYX / pdb_00004oyx
Title : Human solAC Complexed with AMPCPP
Authors : Vinkovic, M.
Deposited on : 2014-02-13
Resolution : 1.89 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

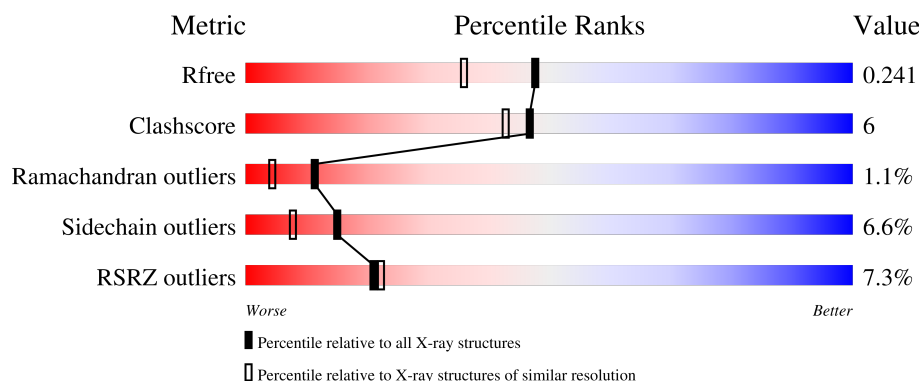
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.89 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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	470	7% 79% 19% ..

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 4212 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.

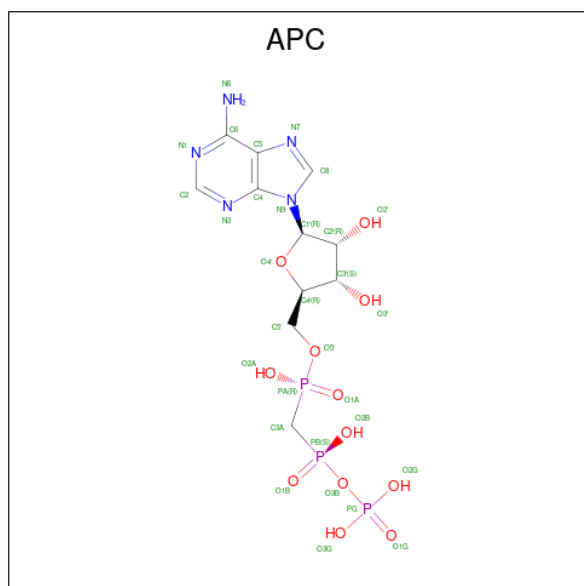
- Molecule 1 is a protein called Adenylate cyclase type 10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	469	3747	2425	608	680	34	0	1	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	ACE	-	acetylation	UNP Q96PN6

- Molecule 2 is DIPHOSPHOMETHYLPHOSPHONIC ACID ADENOSYL ESTER (CCD ID: APC) (formula: $C_{11}H_{18}N_5O_{12}P_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	31	11	5	12	3	0	0

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Ca	0	0
			1	1		

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Cl	0	0
			1	1		

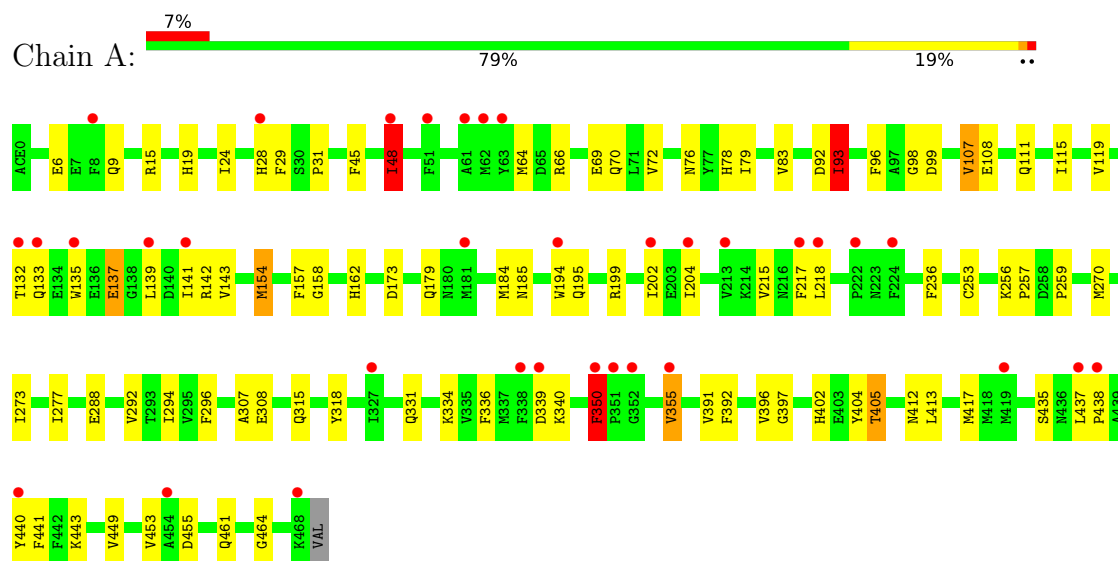
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	432	Total	O	0	0
			432	432		

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: Adenylate cyclase type 10



4 Data and refinement statistics

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, α , β , γ	99.65Å 99.65Å 96.52Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	39.39 – 1.89 39.39 – 1.89	Depositor EDS
% Data completeness (in resolution range)	66.0 (39.39-1.89) 66.2 (39.39-1.89)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.74 (at 1.89Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.168 , 0.230 0.184 , 0.241	Depositor DCC
R_{free} test set	1444 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	33.3	Xtriage
Anisotropy	0.072	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 81.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.041 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4212	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.02% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ACE, APC, CL, CME, CA

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	1.04	5/3828 (0.1%)	1.32	20/5178 (0.4%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	154	MET	SD-CE	-8.34	1.58	1.79
1	A	294	ILE	CG1-CD1	5.78	1.74	1.51
1	A	417	MET	SD-CE	-5.75	1.65	1.79
1	A	93	ILE	CG1-CD1	-5.44	1.30	1.51
1	A	355	VAL	CA-C	5.12	1.58	1.52

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	48	ILE	N-CA-CB	7.40	118.79	110.72
1	A	464	GLY	CA-C-N	6.62	129.47	120.54
1	A	464	GLY	C-N-CA	6.62	129.47	120.54
1	A	257	PRO	CA-C-N	6.37	128.88	122.00
1	A	257	PRO	C-N-CA	6.37	128.88	122.00
1	A	443	LYS	CG-CD-CE	-6.16	97.14	111.30
1	A	108	GLU	CA-C-N	5.70	128.18	120.38
1	A	108	GLU	C-N-CA	5.70	128.18	120.38
1	A	64	MET	CA-C-N	-5.45	113.90	122.79
1	A	64	MET	C-N-CA	-5.45	113.90	122.79
1	A	307	ALA	CA-C-N	5.43	127.56	120.28
1	A	307	ALA	C-N-CA	5.43	127.56	120.28
1	A	259	PRO	CA-C-N	5.37	127.91	120.29
1	A	259	PRO	C-N-CA	5.37	127.91	120.29
1	A	31	PRO	CA-C-N	5.30	128.75	120.75
1	A	31	PRO	C-N-CA	5.30	128.75	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	92	ASP	CA-CB-CG	5.21	117.81	112.60
1	A	350	PHE	CA-CB-CG	5.19	118.99	113.80
1	A	173	ASP	CA-C-N	5.04	127.03	120.28
1	A	173	ASP	C-N-CA	5.04	127.03	120.28

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	3747	0	3726	43	0
2	A	31	0	14	3	0
3	A	1	0	0	0	0
4	A	1	0	0	0	0
5	A	432	0	0	3	0
All	All	4212	0	3740	43	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 (43) 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:48:ILE:HG12	1:A:99:ASP:O	1.93	0.68
1:A:76:ASN:HD21	1:A:396:VAL:HA	1.62	0.63
1:A:158:GLY:H	1:A:315:GLN:HE22	1.48	0.61
1:A:45:PHE:HD2	1:A:179:GLN:HG3	1.67	0.60
1:A:331:GLN:HG3	1:A:350:PHE:HD2	1.68	0.59
1:A:336:PHE:CE2	2:A:501:APC:H2	2.38	0.58
1:A:98:GLY:H	1:A:405:THR:CG2	2.17	0.57
1:A:98:GLY:H	1:A:405:THR:HG21	1.72	0.54
1:A:107:VAL:HG21	1:A:115:ILE:HG13	1.88	0.54
1:A:195:GLN:HA	1:A:199:ARG:HH21	1.72	0.54
1:A:273:ILE:HG22	1:A:277:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:PHE:CZ	2:A:501:APC:H2	2.44	0.52
1:A:76:ASN:ND2	1:A:397:GLY:H	2.09	0.50
1:A:98:GLY:N	1:A:405:THR:HG21	2.26	0.50
1:A:29:PHE:CZ	1:A:154:MET:HE1	2.46	0.50
1:A:96:PHE:O	1:A:334:LYS:HE3	2.12	0.49
1:A:157:PHE:HB2	1:A:315:GLN:NE2	2.28	0.49
1:A:162:HIS:HB2	1:A:318:TYR:OH	2.13	0.48
1:A:15:ARG:HB3	1:A:277:ILE:HG12	1.95	0.48
1:A:438:PRO:HB2	1:A:440:TYR:CE2	2.49	0.47
1:A:83:VAL:HG13	1:A:93:ILE:HD13	1.97	0.47
1:A:412:ASN:CG	2:A:501:APC:H5'2	2.41	0.46
1:A:438:PRO:HG2	1:A:441:PHE:CD1	2.51	0.46
1:A:204:ILE:HG22	1:A:215:VAL:HA	1.98	0.46
1:A:158:GLY:HA2	1:A:318:TYR:CE2	2.51	0.45
1:A:78:HIS:CE1	1:A:135:TRP:HE1	2.35	0.44
1:A:28:HIS:HE1	5:A:809:HOH:O	1.99	0.44
1:A:435:SER:C	1:A:437:LEU:H	2.26	0.44
1:A:72:VAL:HB	1:A:392:PHE:CZ	2.52	0.44
1:A:195:GLN:HA	1:A:199:ARG:NH2	2.33	0.44
1:A:157:PHE:HB2	1:A:315:GLN:HE21	1.84	0.43
1:A:292:VAL:HG22	1:A:391:VAL:HG22	2.01	0.42
1:A:66:ARG:HA	1:A:69:GLU:OE1	2.19	0.42
1:A:115:ILE:O	1:A:119:VAL:HG23	2.20	0.41
1:A:24:ILE:HD13	1:A:154:MET:HE1	2.02	0.41
1:A:350:PHE:CE1	1:A:404:TYR:HE2	2.38	0.41
1:A:194:TRP:CZ3	1:A:199:ARG:HG2	2.54	0.41
1:A:19:HIS:HA	1:A:402:HIS:O	2.21	0.41
1:A:79:ILE:HG22	1:A:397:GLY:HA2	2.04	0.40
1:A:184:MET:HG2	5:A:956:HOH:O	2.21	0.40
1:A:9:GLN:HB3	5:A:883:HOH:O	2.21	0.40
1:A:111:GLN:HG3	1:A:236:PHE:CG	2.56	0.40
1:A:438:PRO:HG2	1:A:441:PHE:CE1	2.56	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	467/470 (99%)	442 (95%)	20 (4%)	5 (1%)	11 4

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	455	ASP
1	A	137	GLU
1	A	132	THR
1	A	339	ASP
1	A	340	LYS

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	412/412 (100%)	384 (93%)	28 (7%)	14 7

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	GLU
1	A	48	ILE
1	A	70	GLN
1	A	93	ILE
1	A	107	VAL
1	A	133	GLN
1	A	137	GLU
1	A	139	LEU
1	A	141	ILE
1	A	142	ARG
1	A	143	VAL
1	A	185	ASN

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Mol	Chain	Res	Type
1	A	202	ILE
1	A	217	PHE
1	A	218	LEU
1	A	256	LYS
1	A	270[A]	MET
1	A	270[B]	MET
1	A	288	GLU
1	A	296	PHE
1	A	308	GLU
1	A	350	PHE
1	A	355	VAL
1	A	405	THR
1	A	413	LEU
1	A	449	VAL
1	A	453	VAL
1	A	461	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	76	ASN
1	A	192	ASN
1	A	276	GLN
1	A	279	ASN
1	A	281	GLN
1	A	315	GLN
1	A	329	GLN
1	A	331	GLN
1	A	433	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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	CME	A	253	1	8,9,10	0.36	0	6,9,11	1.45	1 (16%)

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	CME	A	253	1	-	0/5/8/10	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	253	CME	CZ-CE-SD	-2.74	104.22	113.39

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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	$\# Z > 2$
2	APC	A	501	-	29,33,33	0.85	2 (6%)	44,52,52	0.83	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
2	APC	A	501	-	-	3/19/38/38	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	APC	PB-O2B	-2.45	1.50	1.56
2	A	501	APC	PA-O2A	-2.36	1.50	1.56

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	APC	O4'-C4'-C5'-O5'
2	A	501	APC	C4'-C5'-O5'-PA
2	A	501	APC	C3'-C4'-C5'-O5'

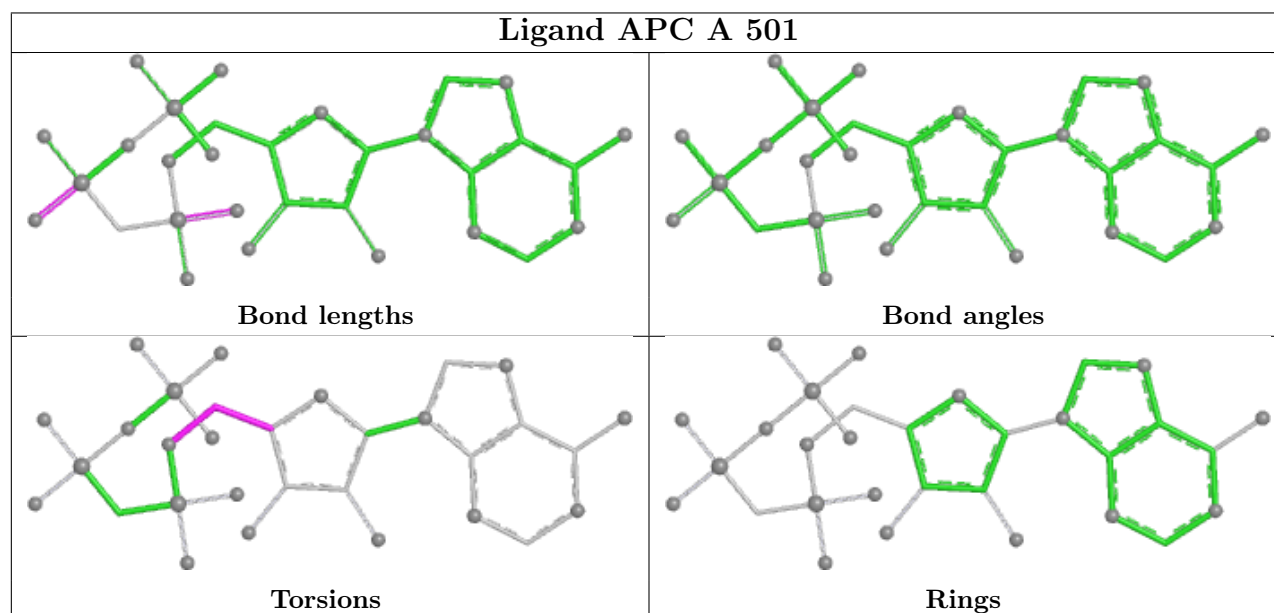
There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	APC	3	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 ⓘ

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	467/470 (99%)	0.40	34 (7%) 21 22	15, 47, 98, 159	1 (0%)

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	135	TRP	6.3
1	A	338	PHE	4.1
1	A	141	ILE	3.9
1	A	51	PHE	3.6
1	A	350	PHE	3.5
1	A	437	LEU	3.4
1	A	468	LYS	3.2
1	A	204	ILE	3.2
1	A	61	ALA	3.1
1	A	454	ALA	3.1
1	A	202	ILE	3.1
1	A	8	PHE	3.0
1	A	139	LEU	3.0
1	A	132	THR	3.0
1	A	218	LEU	2.7
1	A	194	TRP	2.5
1	A	63	TYR	2.5
1	A	28	HIS	2.5
1	A	352	GLY	2.5
1	A	355	VAL	2.4
1	A	133	GLN	2.4
1	A	217	PHE	2.4
1	A	48	ILE	2.4
1	A	224	PHE	2.3
1	A	327	ILE	2.3
1	A	222	PRO	2.3
1	A	419	MET	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	438	PRO	2.3
1	A	440	TYR	2.2
1	A	181	MET	2.2
1	A	213	VAL	2.2
1	A	339	ASP	2.2
1	A	351	PRO	2.1
1	A	62	MET	2.0

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, 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(Å ²)	Q<0.9
1	CME	A	253	10/11	0.98	0.06	15,20,26,27	5

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

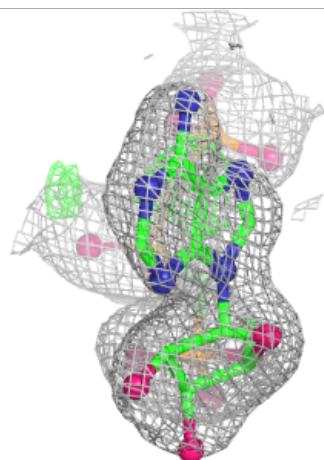
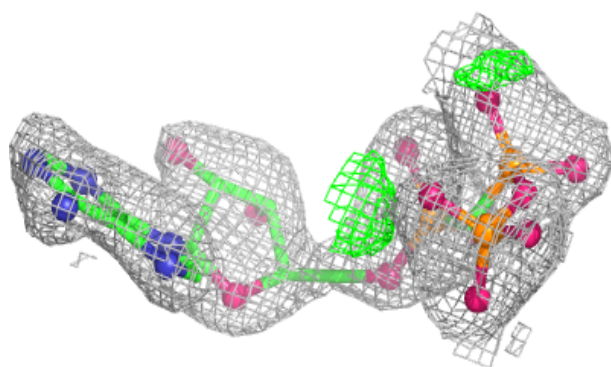
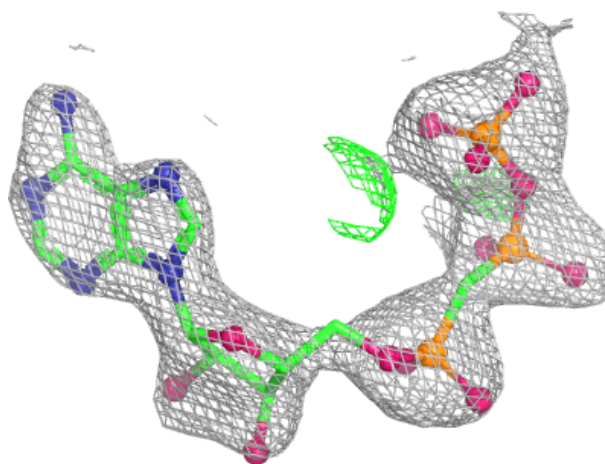
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	CA	A	502	1/1	0.75	0.14	77,77,77,77	1
2	APC	A	501	31/31	0.91	0.09	36,50,61,65	31
4	CL	A	503	1/1	0.98	0.04	40,40,40,40	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 APC A 501:

$2mF_o-DF_c$ (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.