Full wwPDB X-ray Structure Validation Report ⓘ

May 24, 2020 – 09:26 pm BST

PDB ID	:	6PFJ
Title	:	Structure of S. venezuelae RsiG-WhiG-(ci-di-GMP) complex, P64 crystal form
Authors	:	Schumacher, M.A.
Deposited on	:	2019-06-21
Resolution	:	2.08 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 following versions of software and data (see references ⓘ) were used in the production of this report:

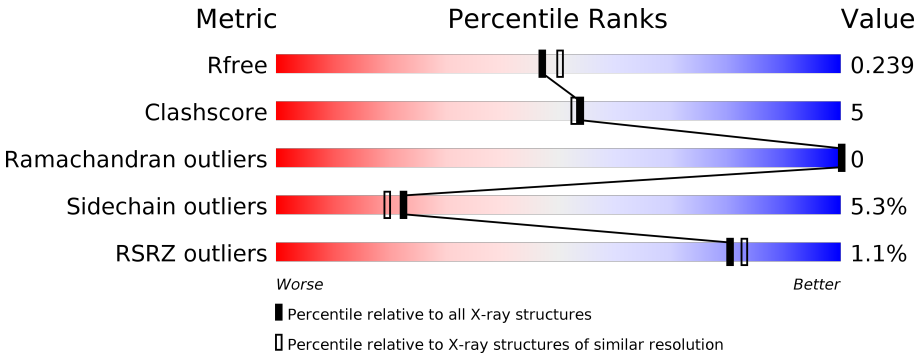
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.08 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	6189 (2.10-2.06)
Clashscore	141614	6738 (2.10-2.06)
Ramachandran outliers	138981	6663 (2.10-2.06)
Sidechain outliers	138945	6664 (2.10-2.06)
RSRZ outliers	127900	6057 (2.10-2.06)

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 >=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	T	176	73% 12% 15%
2	A	278	% 67% 10% . 21%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5972 atoms, of which 2940 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 AmfC protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	T	149	Total	C	H	N	O	S	0	0	0
			2375	717	1181	240	233	4			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
T	24	GLY	-	expression tag	UNP F2RFR7
T	25	SER	-	expression tag	UNP F2RFR7
T	91	GLY	PRO	engineered mutation	UNP F2RFR7

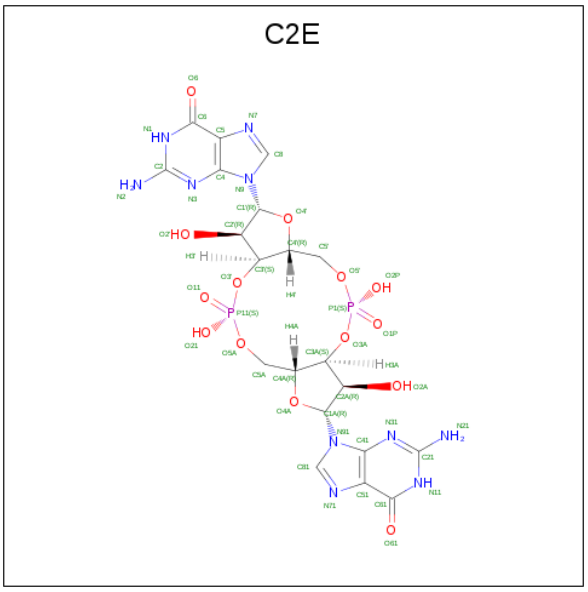
- Molecule 2 is a protein called RNA polymerase sigma factor.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	A	219	Total	C	H	N	O	S	0	0	0
			3418	1080	1715	295	326	2			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	38	GLU	ASP	engineered mutation	UNP A0A3N1Q704
A	150	THR	SER	engineered mutation	UNP A0A3N1Q704
A	159	SER	THR	engineered mutation	UNP A0A3N1Q704
A	162	ASP	GLU	engineered mutation	UNP A0A3N1Q704

- Molecule 3 is 9,9'-[(2R,3R,3aS,5S,7aR,9R,10R,10aS,12S,14aR)-3,5,10,12-tetrahydroxy-5,12-dioxidooctahydro-2H,7H-difuro[3,2-d:3',2'-j][1,3,7,9,2,8]tetraoxadiphosphacyclododecine-2,9-diyl]bis(2-amino-1,9-dihydro-6H-purin-6-one) (three-letter code: C2E) (formula: $C_{20}H_{24}N_{10}O_{14}P_2$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	T	1	Total	C	H	N	O	P	0	0
			68	20	22	10	14	2		
3	T	1	Total	C	H	N	O	P	0	0
			68	20	22	10	14	2		

- Molecule 4 is water.

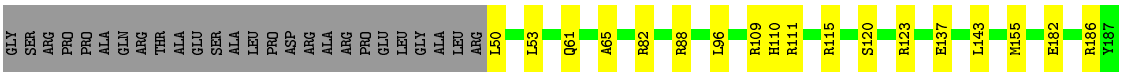
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	T	20	Total	O	0	0
			20	20		
4	A	23	Total	O	0	0
			23	23		

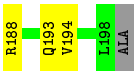
3 Residue-property plots (i)

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 (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: AmfC protein

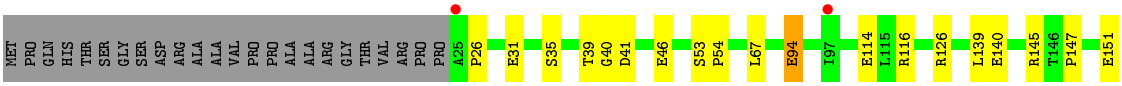
Chain T:

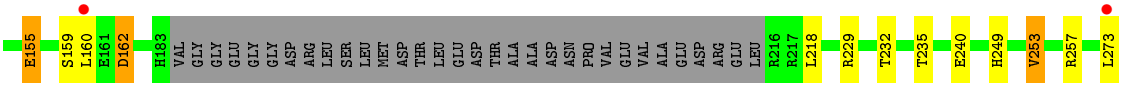




- Molecule 2: RNA polymerase sigma factor

Chain A:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 64	Depositor
Cell constants a, b, c, α, β, γ	92.09Å 92.09Å 96.65Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	79.75 – 2.08 79.75 – 1.88	Depositor EDS
% Data completeness (in resolution range)	96.3 (79.75-2.08) 85.8 (79.75-1.88)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.93 (at 1.88Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.190 , 0.238 0.191 , 0.239	Depositor DCC
R_{free} test set	2004 reflections (6.18%)	wwPDB-VP
Wilson B-factor (Å^2)	47.0	Xtriage
Anisotropy	0.016	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.39 , 60.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.047 for h,-h-k,-l	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	5972	wwPDB-VP
Average B, all atoms (Å^2)	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.90% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical 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.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: C2E

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	T	0.61	0/1206	0.74	1/1622 (0.1%)
2	A	0.65	1/1728 (0.1%)	0.70	1/2345 (0.0%)
All	All	0.64	1/2934 (0.0%)	0.72	2/3967 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	240	GLU	CB-CG	-6.11	1.40	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	67	LEU	CA-CB-CG	5.68	128.35	115.30
1	T	115	ARG	NE-CZ-NH1	5.33	122.97	120.30

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	T	1194	1181	1178	15	0
2	A	1703	1715	1699	15	0
3	T	92	44	44	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	23	0	0	1	0
4	T	20	0	0	3	0
All	All	3032	2940	2921	31	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 (31) 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:T:137:GLU:OE1	4:T:301:HOH:O	2.03	0.77
1:T:82:ARG:HA	1:T:155:MET:HE1	1.70	0.72
3:T:201:C2E:H5'1	3:T:201:C2E:H8	1.88	0.55
2:A:159:SER:OG	2:A:162:ASP:OD1	2.25	0.54
1:T:65:ALA:HB3	1:T:123:ARG:HH22	1.71	0.54
1:T:61:GLN:HG2	4:T:316:HOH:O	2.09	0.53
2:A:218:LEU:H	2:A:218:LEU:HD12	1.74	0.52
1:T:88:ARG:NH2	1:T:143:LEU:O	2.43	0.52
2:A:35:SER:O	2:A:39:THR:HG22	2.11	0.51
2:A:253:VAL:HG13	2:A:257:ARG:HB3	1.93	0.51
3:T:201:C2E:C5'	3:T:201:C2E:C8	2.89	0.50
1:T:53:LEU:HD11	1:T:182:GLU:CG	2.43	0.48
1:T:137:GLU:HB3	4:T:301:HOH:O	2.13	0.48
1:T:194:VAL:HG13	2:A:235:THR:HG21	1.97	0.47
3:T:202:C2E:H3A	3:T:202:C2E:H5'2	1.95	0.47
2:A:53:SER:N	2:A:54:PRO:CD	2.78	0.47
1:T:82:ARG:CA	1:T:155:MET:HE1	2.41	0.47
2:A:139:LEU:HD21	2:A:155:GLU:HG3	1.97	0.46
1:T:96:LEU:HD22	2:A:46:GLU:HG3	1.97	0.45
2:A:114:GLU:OE2	4:A:301:HOH:O	2.21	0.45
1:T:110:HIS:O	3:T:201:C2E:N21	2.50	0.45
2:A:147:PRO:HA	2:A:151:GLU:OE1	2.17	0.45
3:T:201:C2E:H5'2	3:T:201:C2E:C8	2.48	0.44
3:T:201:C2E:H8	3:T:201:C2E:C5'	2.47	0.44
2:A:39:THR:HG23	2:A:40:GLY:N	2.35	0.42
1:T:194:VAL:HG21	2:A:232:THR:HA	2.02	0.41
1:T:50:LEU:HD12	1:T:186:ARG:HD2	2.01	0.41
2:A:94:GLU:H	2:A:94:GLU:CD	2.24	0.41
1:T:53:LEU:HD11	1:T:182:GLU:HG3	2.02	0.41
1:T:188:ARG:HD2	2:A:249:HIS:O	2.21	0.41
2:A:26:PRO:HB3	2:A:31:GLU:HG2	2.04	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	T	147/176 (84%)	143 (97%)	4 (3%)	0	100	100
2	A	215/278 (77%)	212 (99%)	3 (1%)	0	100	100
All	All	362/454 (80%)	355 (98%)	7 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	T	124/145 (86%)	120 (97%)	4 (3%)	39	40
2	A	178/233 (76%)	166 (93%)	12 (7%)	16	12
All	All	302/378 (80%)	286 (95%)	16 (5%)	22	20

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	T	109	ARG
1	T	111	ARG
1	T	120	SER
1	T	193	GLN
2	A	41	ASP

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Mol	Chain	Res	Type
2	A	94	GLU
2	A	116	ARG
2	A	126	ARG
2	A	140	GLU
2	A	145	ARG
2	A	155	GLU
2	A	160	LEU
2	A	162	ASP
2	A	229	ARG
2	A	253	VAL
2	A	273	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 carbohydrates in this entry.

5.6 Ligand geometry (i)

2 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	$\#\|Z\|>2$
3	C2E	T	201	-	44,52,52	2.01	8 (18%)	54,82,82	2.24	12 (22%)
3	C2E	T	202	-	44,52,52	2.29	11 (25%)	54,82,82	2.25	13 (24%)

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
3	C2E	T	201	-	-	5/22/62/62	0/6/7/7
3	C2E	T	202	-	-	5/22/62/62	0/6/7/7

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	T	202	C2E	O5'-C5'	-7.97	1.14	1.44
3	T	201	C2E	O5'-C5'	-7.64	1.15	1.44
3	T	202	C2E	C6-N1	6.34	1.44	1.33
3	T	201	C2E	C6-N1	5.15	1.42	1.33
3	T	201	C2E	C21-N11	5.08	1.44	1.35
3	T	202	C2E	C2'-C1'	4.79	1.61	1.53
3	T	202	C2E	C21-N21	4.08	1.42	1.33
3	T	202	C2E	O3'-C3'	-3.63	1.30	1.44
3	T	202	C2E	C21-N11	3.58	1.41	1.35
3	T	201	C2E	C61-N11	3.06	1.38	1.33
3	T	202	C2E	C2A-C3A	2.85	1.59	1.52
3	T	201	C2E	C2-N2	2.57	1.39	1.33
3	T	202	C2E	O2'-C2'	-2.55	1.37	1.43
3	T	201	C2E	C4-N3	-2.25	1.32	1.35
3	T	201	C2E	C61-C51	2.21	1.45	1.41
3	T	201	C2E	P11-O5A	2.17	1.68	1.59
3	T	202	C2E	C8-N7	-2.16	1.30	1.34
3	T	202	C2E	C2-N2	2.08	1.38	1.33
3	T	202	C2E	C2-N1	2.08	1.39	1.35

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	T	201	C2E	C51-C61-N11	-8.71	111.51	123.43
3	T	201	C2E	C5-C6-N1	-8.66	111.58	123.43
3	T	202	C2E	C5-C6-N1	-8.16	112.27	123.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	T	202	C2E	C51-C61-N11	-7.56	113.08	123.43
3	T	202	C2E	C5'-C4'-C3'	-4.59	99.19	114.40
3	T	201	C2E	C21-N31-C41	-4.54	110.17	115.36
3	T	202	C2E	C61-N11-C21	4.40	122.92	115.93
3	T	201	C2E	C6-N1-C2	3.86	122.07	115.93
3	T	202	C2E	C21-N31-C41	-3.74	111.09	115.36
3	T	202	C2E	C2'-C3'-C4'	3.61	109.63	103.22
3	T	201	C2E	C61-N11-C21	3.56	121.59	115.93
3	T	201	C2E	C2-N3-C4	-3.26	111.63	115.36
3	T	202	C2E	C2-N3-C4	-3.20	111.71	115.36
3	T	202	C2E	C6-N1-C2	2.85	120.45	115.93
3	T	202	C2E	O2P-P1-O1P	2.84	126.29	112.24
3	T	201	C2E	O2P-P1-O1P	2.73	125.76	112.24
3	T	201	C2E	O21-P11-O11	2.51	124.64	112.24
3	T	202	C2E	O5'-C5'-C4'	2.40	117.26	108.99
3	T	202	C2E	O21-P11-O11	2.34	123.81	112.24
3	T	201	C2E	C5'-C4'-C3'	-2.33	106.68	114.40
3	T	202	C2E	O4'-C4'-C5'	2.21	116.64	109.37
3	T	201	C2E	C1'-N9-C4	-2.14	122.88	126.64
3	T	202	C2E	C2A-C3A-C4A	-2.06	99.57	103.22
3	T	201	C2E	O4A-C1A-C2A	2.02	109.88	106.93
3	T	201	C2E	C3'-C2'-C1'	2.02	104.36	99.89

There are no chirality outliers.

All (10) torsion outliers are listed below:

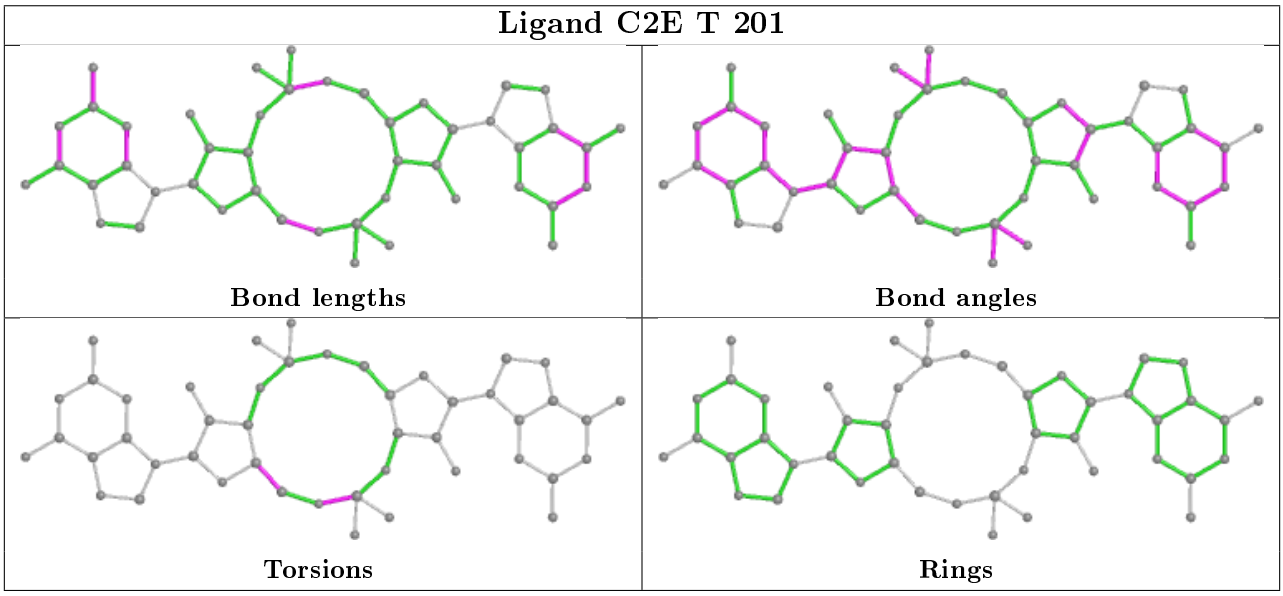
Mol	Chain	Res	Type	Atoms
3	T	201	C2E	C5'-O5'-P1-O1P
3	T	201	C2E	O4'-C4'-C5'-O5'
3	T	201	C2E	C3'-C4'-C5'-O5'
3	T	202	C2E	C5'-O5'-P1-O2P
3	T	202	C2E	C3'-C4'-C5'-O5'
3	T	202	C2E	O4'-C4'-C5'-O5'
3	T	201	C2E	C5'-O5'-P1-O3A
3	T	202	C2E	C5'-O5'-P1-O3A
3	T	201	C2E	C5'-O5'-P1-O2P
3	T	202	C2E	C5'-O5'-P1-O1P

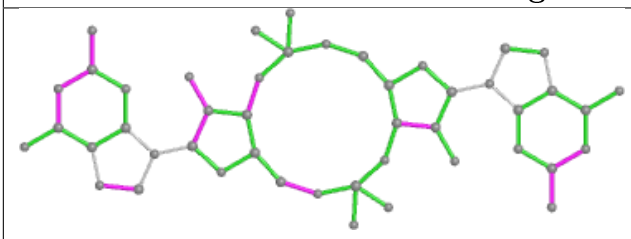
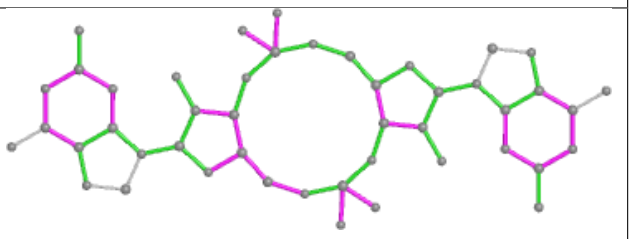
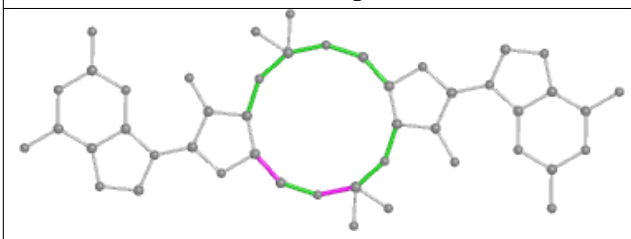
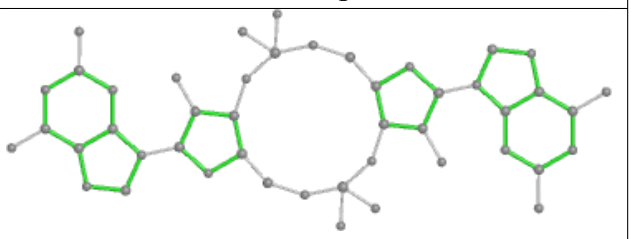
There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	T	201	C2E	5	0
3	T	202	C2E	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.



Ligand C2E T 202	
 Bond lengths	 Bond angles
 Torsions	 Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 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	T	149/176 (84%)	-0.08	0 100 100	41, 66, 112, 147	0
2	A	219/278 (78%)	0.07	4 (1%) 68 71	41, 62, 107, 150	0
All	All	368/454 (81%)	0.01	4 (1%) 80 83	41, 64, 112, 150	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	97	ILE	3.1
2	A	25	ALA	2.5
2	A	273	LEU	2.3
2	A	160	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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

6.3 Carbohydrates

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^{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	B-factors(Å^2)	Q<0.9
3	C2E	T	201	46/46	0.97	0.12	41,56,70,71	0

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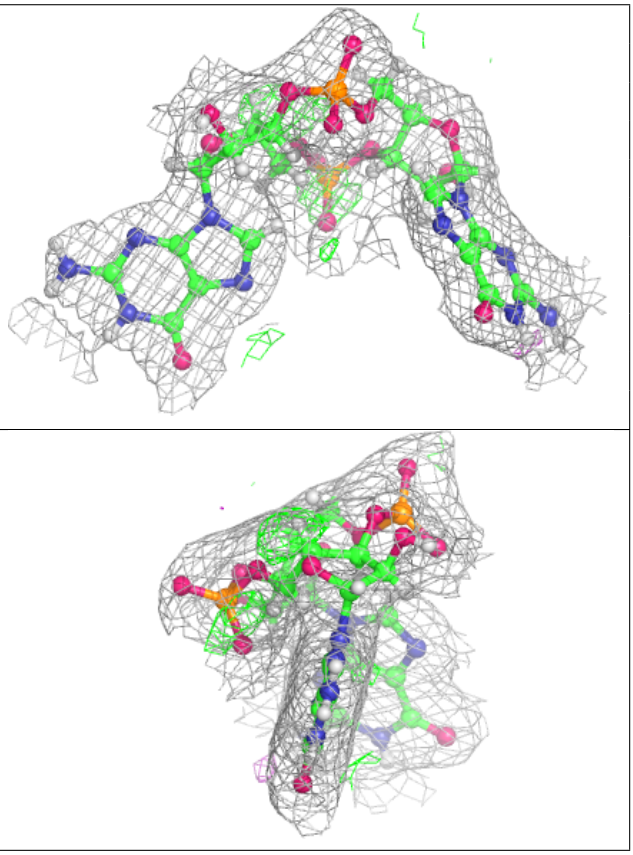
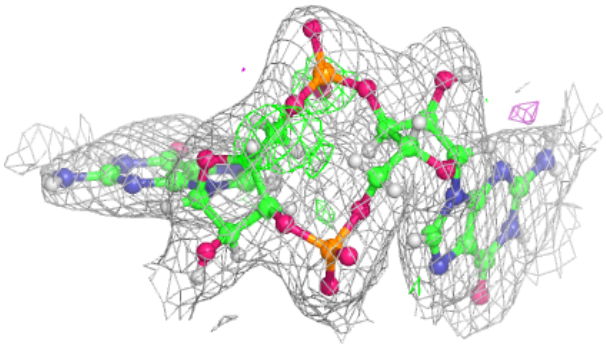
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	C2E	T	202	46/46	0.98	0.14	37,46,60,71	0

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 C2E T 201:

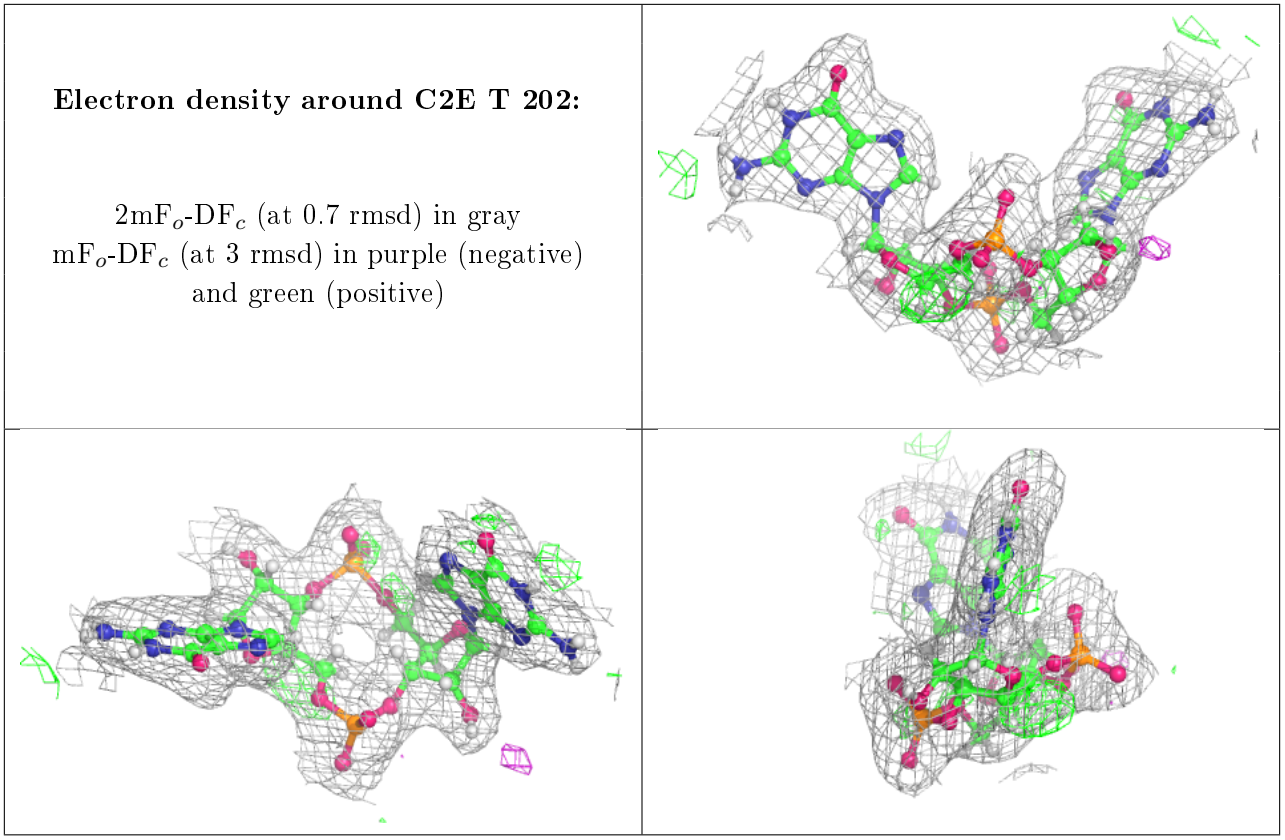
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





Electron density around C2E T 202:

$2mF_o$-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

There are no such residues in this entry.