



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 06:22 AM UTC

PDB ID : 6NAK / pdb_00006nak
Title : BACTERIAL PROTEIN COMPLEX TM BDE complex
Authors : Stec, B.
Deposited on : 2018-12-05
Resolution : 3.14 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 ⓘ 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

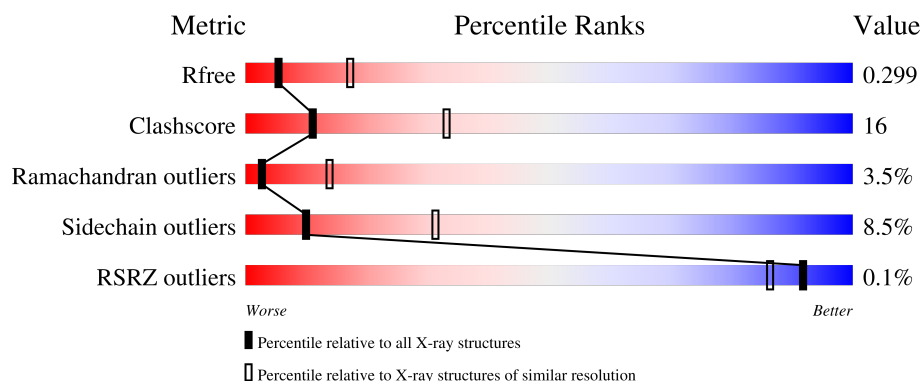
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.14 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	2351 (3.18-3.10)
Clashscore	190562	2452 (3.18-3.10)
Ramachandran outliers	187476	2324 (3.18-3.10)
Sidechain outliers	187428	2324 (3.18-3.10)
RSRZ outliers	180081	2351 (3.18-3.10)

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 $\leq 5\%$. 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	206	 59% 35% 5%
1	C	206	 60% 38%
2	B	327	 58% 34% 6%
2	G	327	 61% 30% 7%
3	D	184	 54% 33% 10%

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Mol	Chain	Length	Quality of chain
3	E	184	 A horizontal bar chart showing the quality of chain E. The bar is divided into four segments: green (53%), yellow (31%), red (2%), and grey (12%). The percentages are labeled below the bar. The red segment is very small and contains two dots.

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 10983 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 tRNA threonylcarbamoyladenosine biosynthesis protein TsaB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	203	Total	C	N	O	S	0	0	0
			1594	1028	263	299	4			
1	C	206	Total	C	N	O	S	0	0	0
			1619	1042	270	303	4			

- Molecule 2 is a protein called tRNA N6-adenosine threonylcarbamoyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	327	Total	C	N	O	S	0	0	0
			2510	1612	425	463	10			
2	G	321	Total	C	N	O	S	0	0	0
			2466	1581	418	457	10			

- Molecule 3 is a protein called TsaE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	165	Total	C	N	O	S	0	0	0
			1346	860	221	260	5			
3	E	161	Total	C	N	O	S	0	0	0
			1312	841	216	250	5			

There are 30 discrepancies between the modelled and reference sequences:

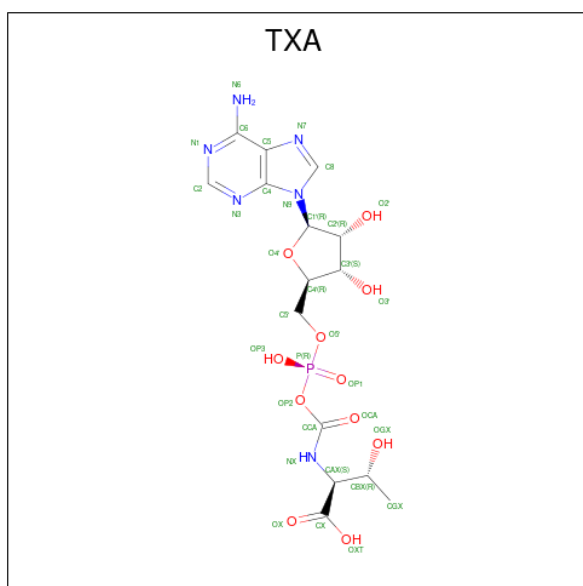
Chain	Residue	Modelled	Actual	Comment	Reference
D	-22	MET	-	expression tag	UNP R4NRX5
D	-21	GLY	-	expression tag	UNP R4NRX5
D	-20	HIS	-	expression tag	UNP R4NRX5
D	-19	HIS	-	expression tag	UNP R4NRX5
D	-18	HIS	-	expression tag	UNP R4NRX5
D	-17	HIS	-	expression tag	UNP R4NRX5
D	-16	HIS	-	expression tag	UNP R4NRX5
D	-15	HIS	-	expression tag	UNP R4NRX5

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-14	GLU	-	expression tag	UNP R4NRX5
D	-13	ASN	-	expression tag	UNP R4NRX5
D	-12	LEU	-	expression tag	UNP R4NRX5
D	-11	TYR	-	expression tag	UNP R4NRX5
D	-10	PHE	-	expression tag	UNP R4NRX5
D	-9	GLN	-	expression tag	UNP R4NRX5
D	-8	GLY	-	expression tag	UNP R4NRX5
E	-22	MET	-	expression tag	UNP R4NRX5
E	-21	GLY	-	expression tag	UNP R4NRX5
E	-20	HIS	-	expression tag	UNP R4NRX5
E	-19	HIS	-	expression tag	UNP R4NRX5
E	-18	HIS	-	expression tag	UNP R4NRX5
E	-17	HIS	-	expression tag	UNP R4NRX5
E	-16	HIS	-	expression tag	UNP R4NRX5
E	-15	HIS	-	expression tag	UNP R4NRX5
E	-14	GLU	-	expression tag	UNP R4NRX5
E	-13	ASN	-	expression tag	UNP R4NRX5
E	-12	LEU	-	expression tag	UNP R4NRX5
E	-11	TYR	-	expression tag	UNP R4NRX5
E	-10	PHE	-	expression tag	UNP R4NRX5
E	-9	GLN	-	expression tag	UNP R4NRX5
E	-8	GLY	-	expression tag	UNP R4NRX5

- Molecule 4 is threonylcarbamoyladenylate (CCD ID: TXA) (formula: $C_{15}H_{21}N_6O_{11}P$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	B	1	Total	C	N	O	P	0	0
			33	15	6	11	1		
4	G	1	Total	C	N	O	P	0	0
			33	15	6	11	1		

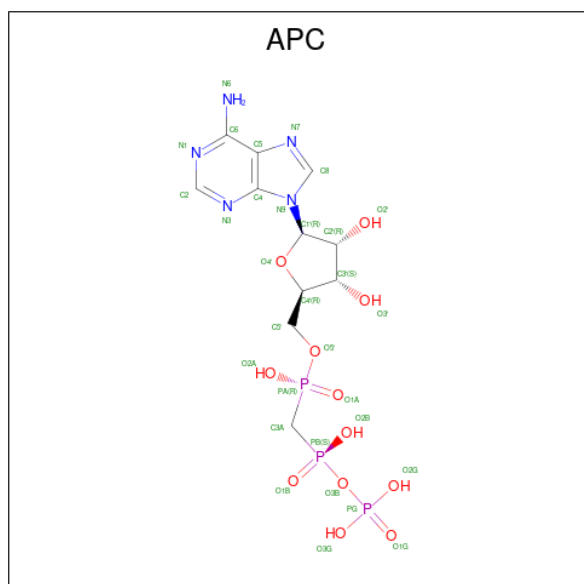
- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Zn	0	0
			1	1		
5	G	1	Total	Zn	0	0
			1	1		

- Molecule 6 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	1	Total	Mg	0	0
			1	1		
6	E	1	Total	Mg	0	0
			1	1		

- Molecule 7 is DIPHOSPHOMETHYLPHOSPHONIC ACID ADENOSYL ESTER (CCD ID: APC) (formula: C₁₁H₁₈N₅O₁₂P₃).



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

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

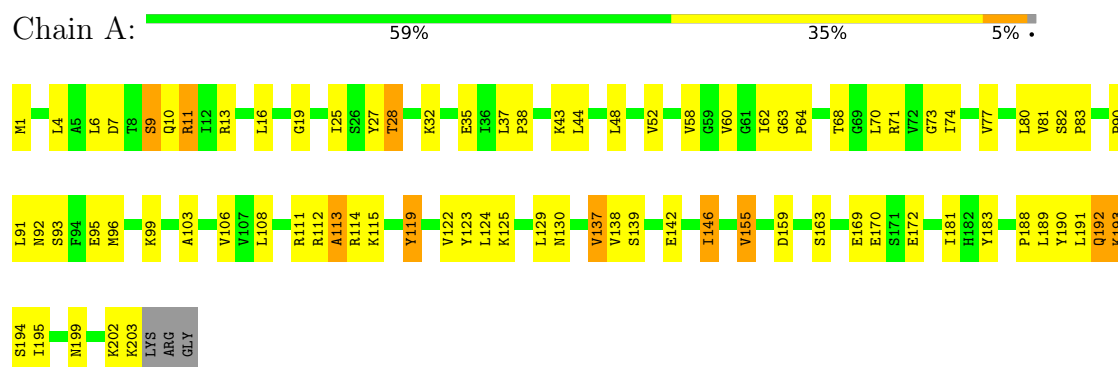
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	B	2	Total	O	0	0
			2	2		
8	G	1	Total	O	0	0
			1	1		
8	E	1	Total	O	0	0
			1	1		

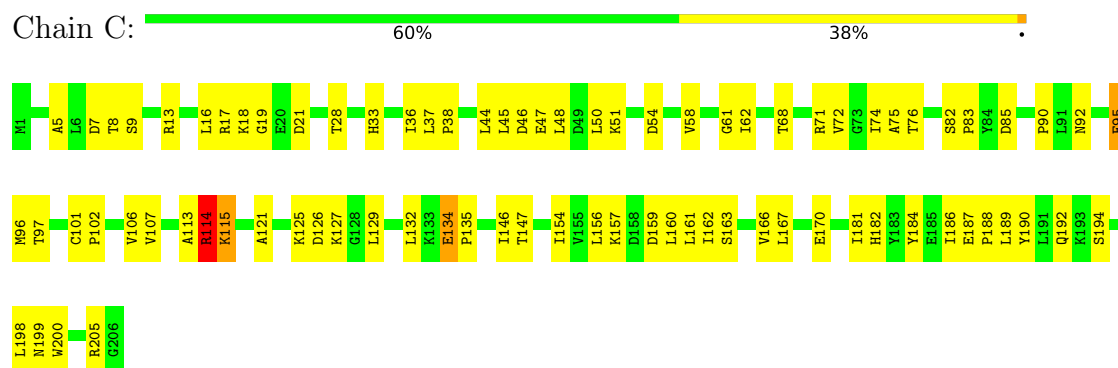
3 Residue-property plots

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.

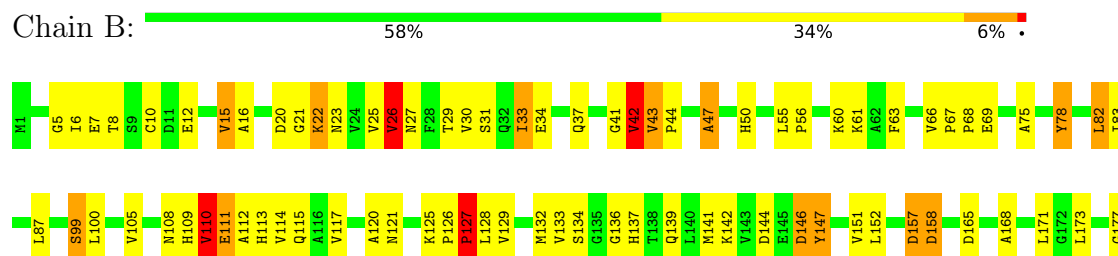
- Molecule 1: tRNA threonylcarbamoyladenosine biosynthesis protein TsaB



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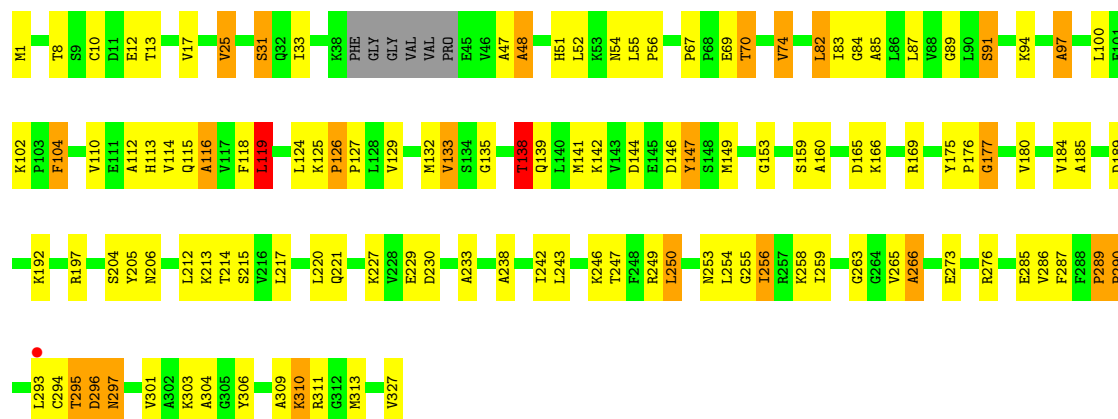
- Molecule 2: tRNA N6-adenosine threonylcarbamoyltransferase





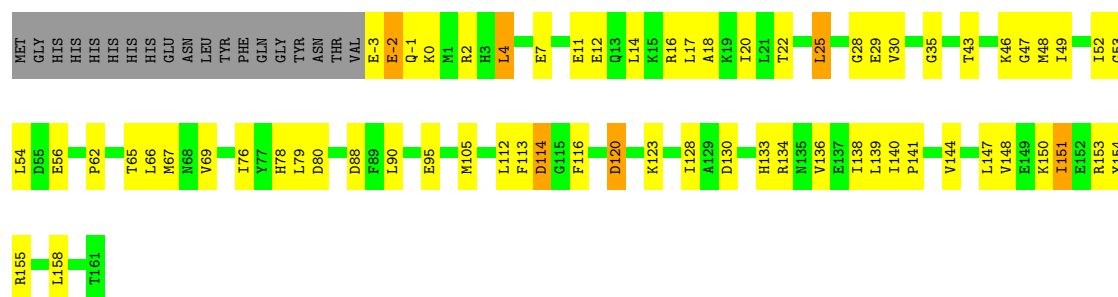
• Molecule 2: tRNA N6-adenosine threonylcarbamoyltransferase

Chain G: 61% 30% 7% ..



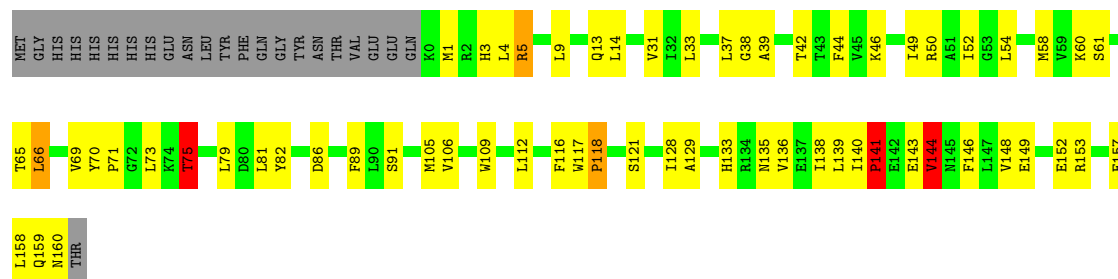
• Molecule 3: TsaE

Chain D: 54% 33% 10%



• Molecule 3: TsaE

Chain E: 53% 31% 12%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	84.31Å 113.99Å 177.57Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.40 – 3.14 48.40 – 3.14	Depositor EDS
% Data completeness (in resolution range)	99.0 (48.40-3.14) 99.0 (48.40-3.14)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.35 (at 3.12Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.192 , 0.302 0.198 , 0.299	Depositor DCC
R_{free} test set	1550 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	93.4	Xtriage
Anisotropy	0.292	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 65.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10983	wwPDB-VP
Average B, all atoms (Å ²)	94.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.35% 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: APC, TXA, MG, ZN

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	1.06	0/1621	1.55	4/2192 (0.2%)
1	C	1.07	0/1646	1.57	9/2222 (0.4%)
2	B	1.08	0/2560	1.54	4/3467 (0.1%)
2	G	1.09	0/2513	1.58	6/3402 (0.2%)
3	D	1.10	0/1367	1.53	2/1841 (0.1%)
3	E	1.04	0/1333	1.56	8/1795 (0.4%)
All	All	1.08	0/11040	1.56	33/14919 (0.2%)

There are no bond length outliers.

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	126	PRO	N-CA-C	8.14	120.63	110.70
1	C	28	THR	CB-CA-C	7.36	121.74	110.62
2	B	78	TYR	CB-CA-C	6.35	120.35	109.24
3	E	75	THR	CB-CA-C	6.01	119.92	110.19
1	A	68	THR	CB-CA-C	5.94	122.08	110.67

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	1594	0	1670	67	0
1	C	1619	0	1699	47	0
2	B	2510	0	2562	90	0
2	G	2466	0	2510	90	0
3	D	1346	0	1358	43	0
3	E	1312	0	1331	42	0
4	B	33	0	20	1	0
4	G	33	0	20	0	0
5	B	1	0	0	0	0
5	G	1	0	0	0	0
6	D	1	0	0	0	0
6	E	1	0	0	0	0
7	D	31	0	14	1	0
7	E	31	0	14	2	0
8	B	2	0	0	0	0
8	E	1	0	0	0	0
8	G	1	0	0	0	0
All	All	10983	0	11198	364	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 16.

The worst 5 of 364 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)
3:E:13:GLN:NE2	3:E:158:LEU:HD22	1.77	0.98
1:A:139:SER:OG	1:A:142:GLU:HB2	1.71	0.89
3:D:154:TYR:OH	3:D:158:LEU:HD12	1.79	0.81
1:C:101:CYS:O	1:C:125:LYS:NZ	2.13	0.81
2:B:247:THR:HG22	2:B:259:ILE:HD11	1.61	0.80

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	201/206 (98%)	164 (82%)	32 (16%)	5 (2%)	4	19
1	C	204/206 (99%)	170 (83%)	27 (13%)	7 (3%)	3	14
2	B	325/327 (99%)	255 (78%)	52 (16%)	18 (6%)	1	7
2	G	317/327 (97%)	261 (82%)	43 (14%)	13 (4%)	2	11
3	D	163/184 (89%)	134 (82%)	26 (16%)	3 (2%)	6	25
3	E	159/184 (86%)	136 (86%)	21 (13%)	2 (1%)	9	32
All	All	1369/1434 (96%)	1120 (82%)	201 (15%)	48 (4%)	3	14

5 of 48 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	112	ARG
2	B	22	LYS
2	B	43	VAL
2	B	293	LEU
3	D	114	ASP

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	178/180 (99%)	163 (92%)	15 (8%)	10	32
1	C	180/180 (100%)	167 (93%)	13 (7%)	13	37
2	B	269/269 (100%)	247 (92%)	22 (8%)	10	32
2	G	264/269 (98%)	239 (90%)	25 (10%)	8	27
3	D	150/167 (90%)	138 (92%)	12 (8%)	11	33
3	E	146/167 (87%)	132 (90%)	14 (10%)	8	27
All	All	1187/1232 (96%)	1086 (92%)	101 (8%)	10	31

5 of 101 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	157	LYS
2	G	119	LEU
3	E	159	GLN
1	C	189	LEU
2	G	74	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 16 such sidechains are listed below:

Mol	Chain	Res	Type
2	G	320	ASN
2	G	206	ASN
1	C	118	HIS
2	G	139	GLN
3	D	135	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](#)

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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
4	TXA	G	401	-	34,35,35	2.16	5 (14%)	50,52,52	3.24	13 (26%)
7	APC	D	201	6	29,33,33	0.76	2 (6%)	44,52,52	0.80	2 (4%)
7	APC	E	201	6	29,33,33	0.72	2 (6%)	44,52,52	0.90	1 (2%)
4	TXA	B	401	5	34,35,35	2.24	6 (17%)	50,52,52	2.66	12 (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
4	TXA	G	401	-	-	0/25/43/43	0/3/3/3
7	APC	D	201	6	-	3/19/38/38	0/3/3/3
7	APC	E	201	6	-	10/19/38/38	0/3/3/3
4	TXA	B	401	5	-	2/25/43/43	0/3/3/3

The worst 5 of 15 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	401	TXA	C2-N1	7.56	1.47	1.33
4	B	401	TXA	C2-N3	7.50	1.47	1.33
4	G	401	TXA	C2-N3	7.34	1.47	1.33
4	G	401	TXA	C2-N1	7.29	1.46	1.33
4	B	401	TXA	C5-C4	4.51	1.47	1.39

The worst 5 of 28 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	G	401	TXA	OP2-CCA-NX	15.81	119.27	109.91
4	B	401	TXA	OP2-CCA-NX	10.72	116.26	109.91
4	G	401	TXA	N3-C2-N1	-9.67	113.95	128.58
4	B	401	TXA	N3-C2-N1	-8.83	115.22	128.58
4	G	401	TXA	C2-N3-C4	5.17	124.47	111.83

There are no chirality outliers.

5 of 15 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	401	TXA	C5'-O5'-P-OP3
7	D	201	APC	PB-C3A-PA-O1A

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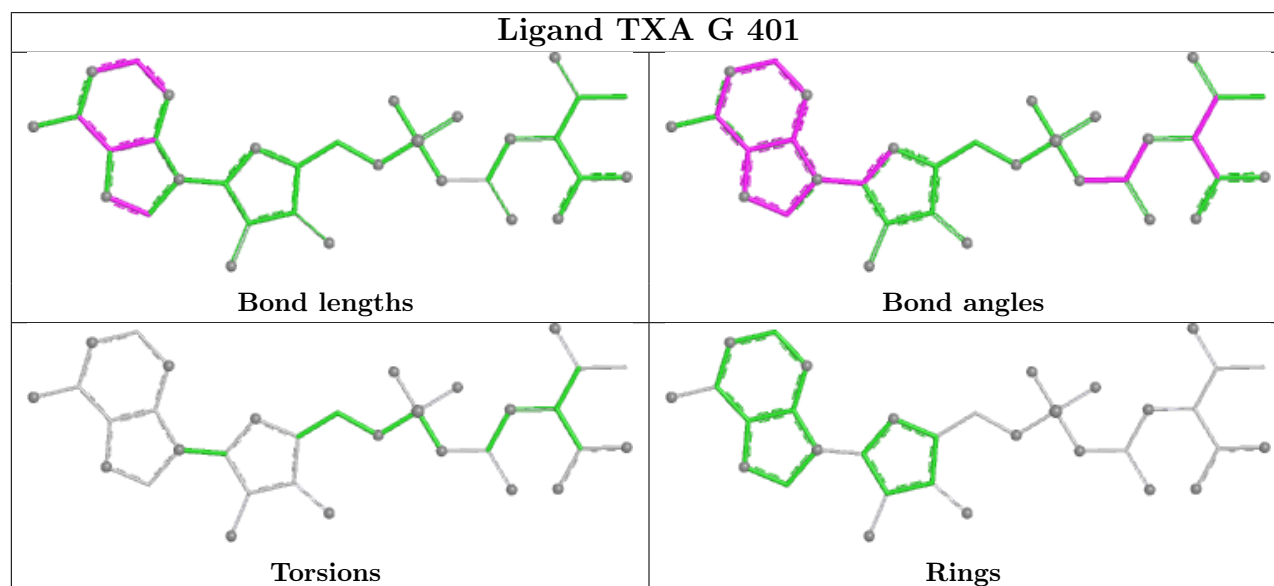
Mol	Chain	Res	Type	Atoms
7	D	201	APC	PB-C3A-PA-O2A
7	D	201	APC	PB-C3A-PA-O5'
7	E	201	APC	PA-C3A-PB-O1B

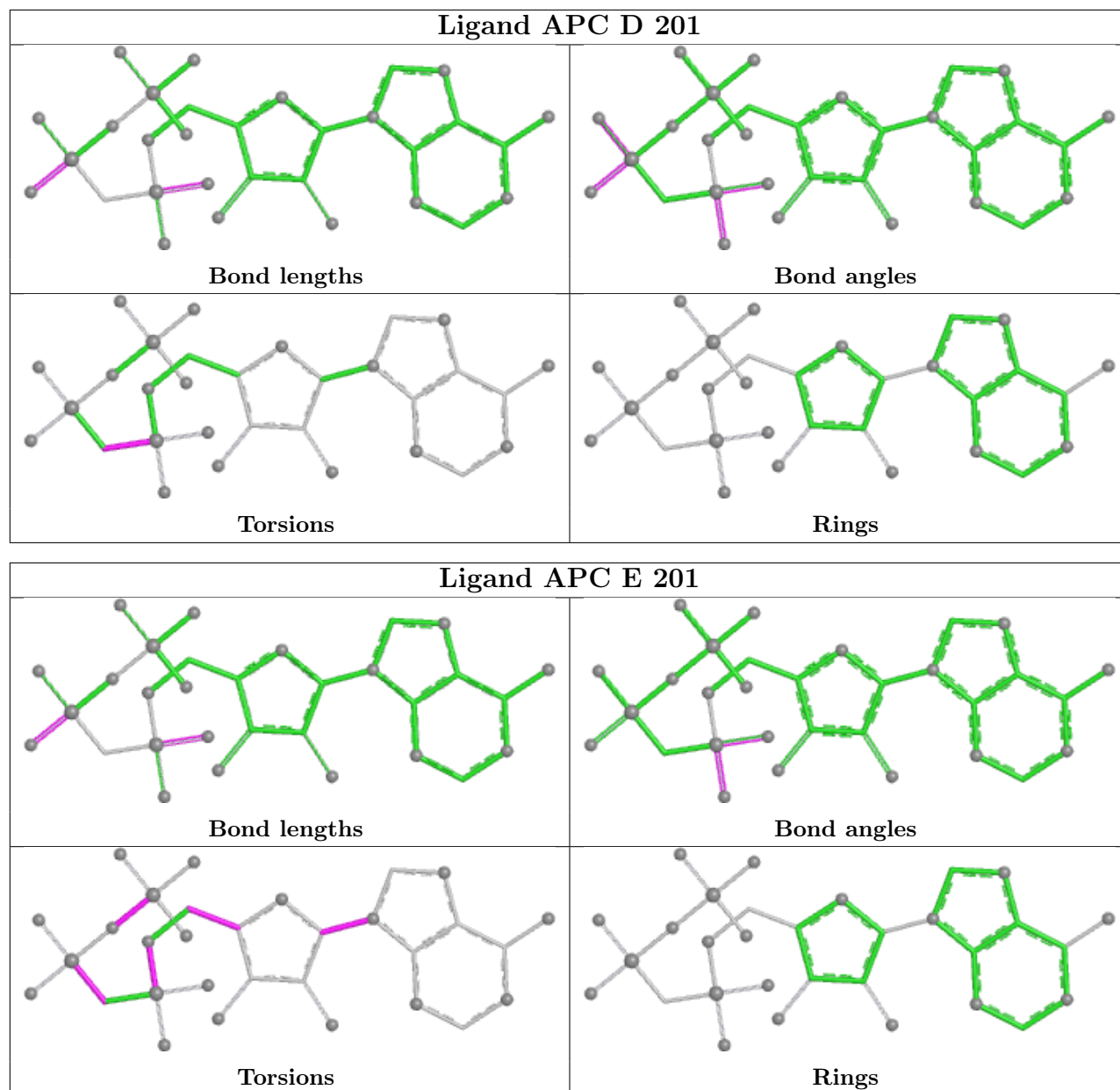
There are no ring outliers.

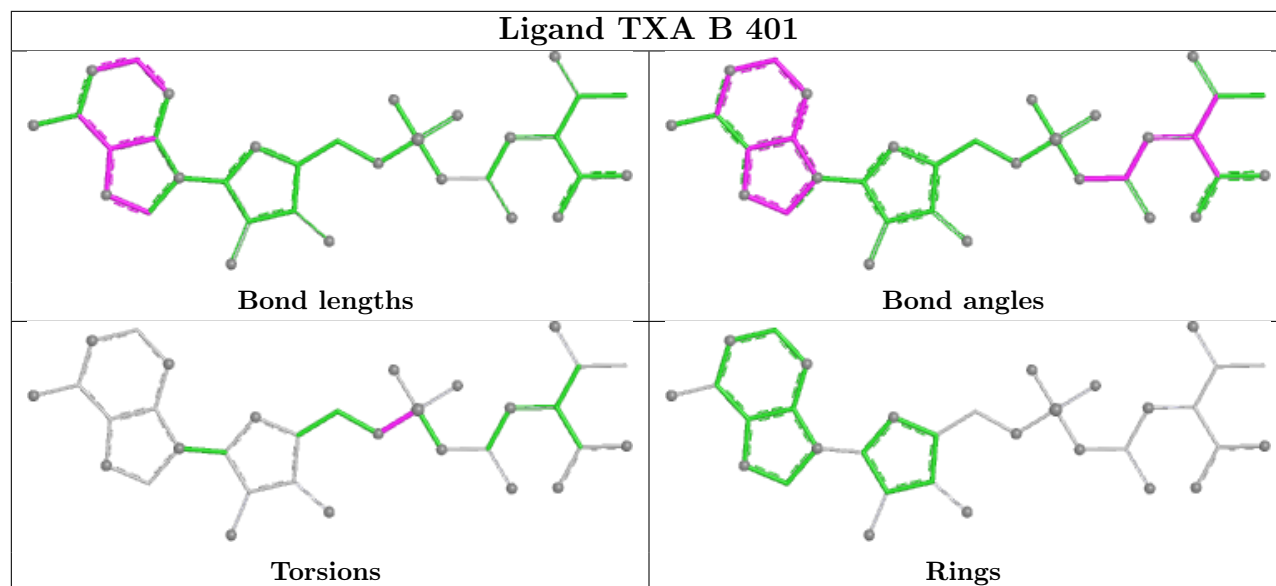
3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	D	201	APC	1	0
7	E	201	APC	2	0
4	B	401	TXA	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 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 [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, 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(Å²)	Q<0.9
1	A	203/206 (98%)	-0.64	0	100	100	58, 85, 122, 157	0
1	C	206/206 (100%)	-0.69	0	100	100	52, 74, 114, 141	0
2	B	327/327 (100%)	-0.55	0	100	100	71, 99, 145, 205	0
2	G	321/327 (98%)	-0.60	1 (0%)	90	80	56, 84, 135, 187	0
3	D	165/184 (89%)	-0.46	0	100	100	79, 110, 147, 174	0
3	E	161/184 (87%)	-0.76	0	100	100	56, 79, 120, 142	0
All	All	1383/1434 (96%)	-0.61	1 (0%)	92	86	52, 89, 136, 205	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	G	293	LEU	2.1

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](#)

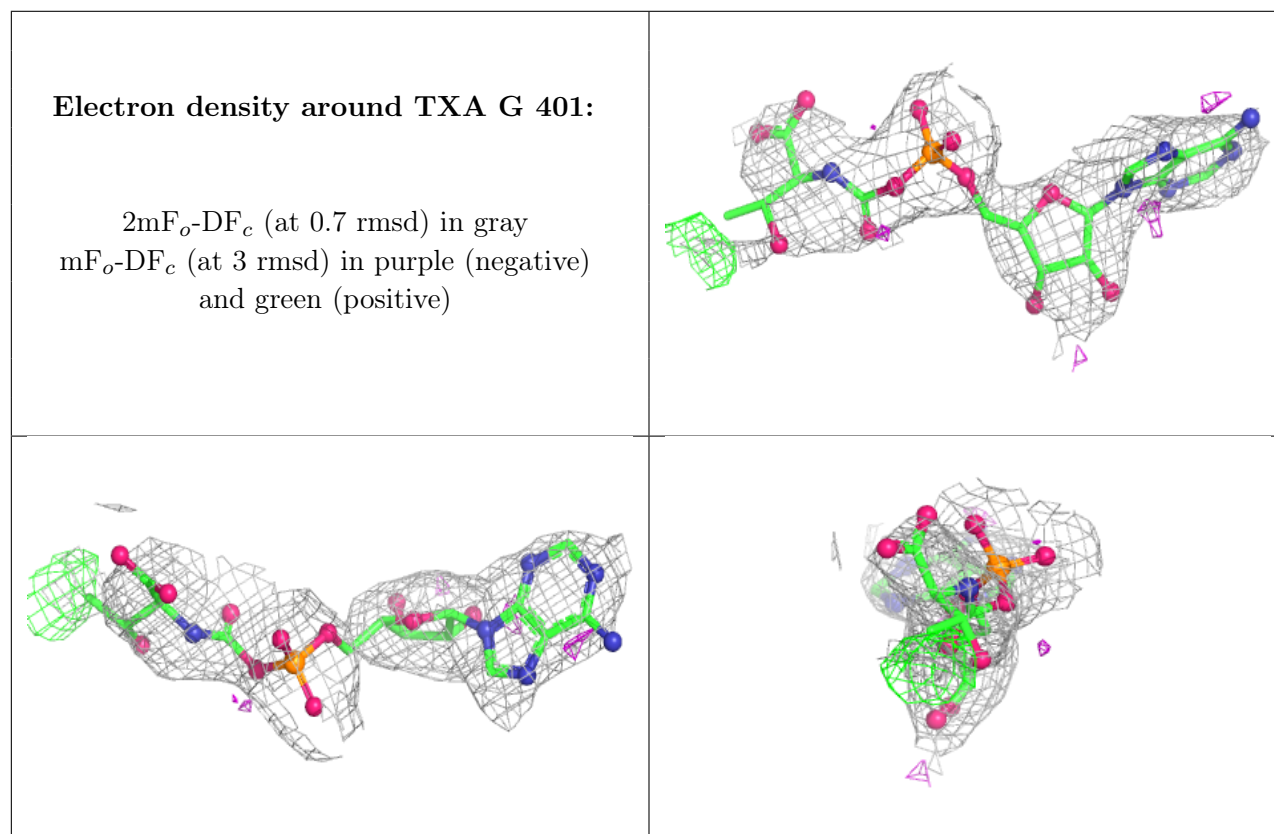
There are no oligosaccharides in this entry.

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.

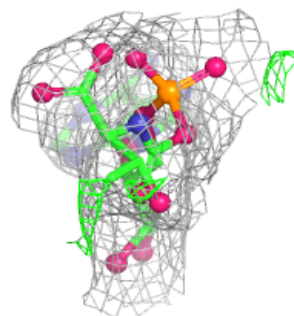
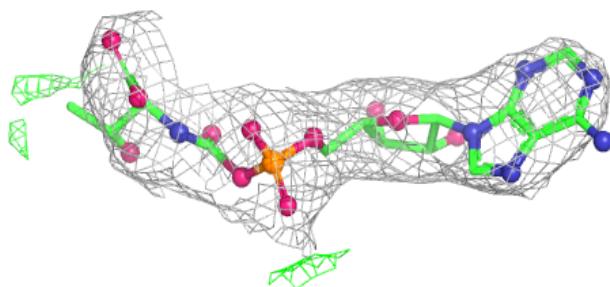
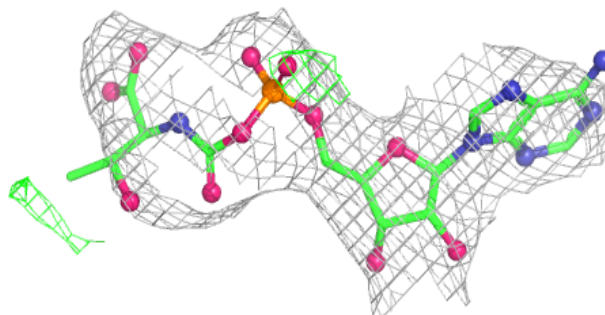
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	ZN	G	402	1/1	0.77	0.12	106,106,106,106	1
4	TXA	G	401	33/33	0.85	0.11	83,106,136,140	0
4	TXA	B	401	33/33	0.90	0.08	88,101,121,128	0
5	ZN	B	402	1/1	0.92	0.06	108,108,108,108	1
7	APC	E	201	31/31	0.97	0.06	62,75,88,89	0
7	APC	D	201	31/31	0.98	0.05	77,85,105,108	0
6	MG	D	200	1/1	0.98	0.03	61,61,61,61	0
6	MG	E	200	1/1	0.99	0.02	39,39,39,39	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.

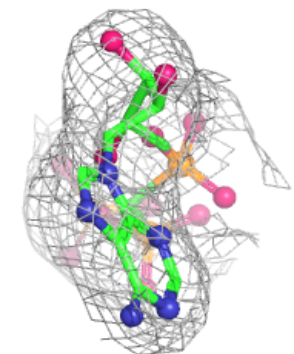
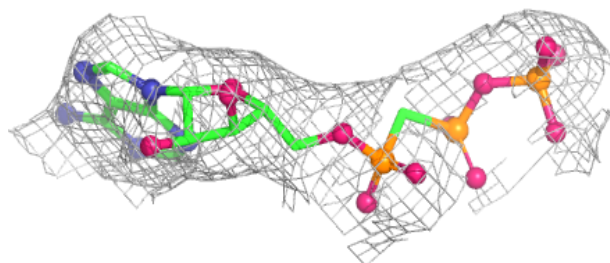
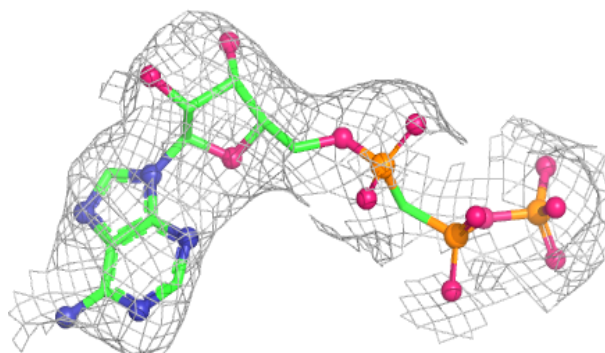


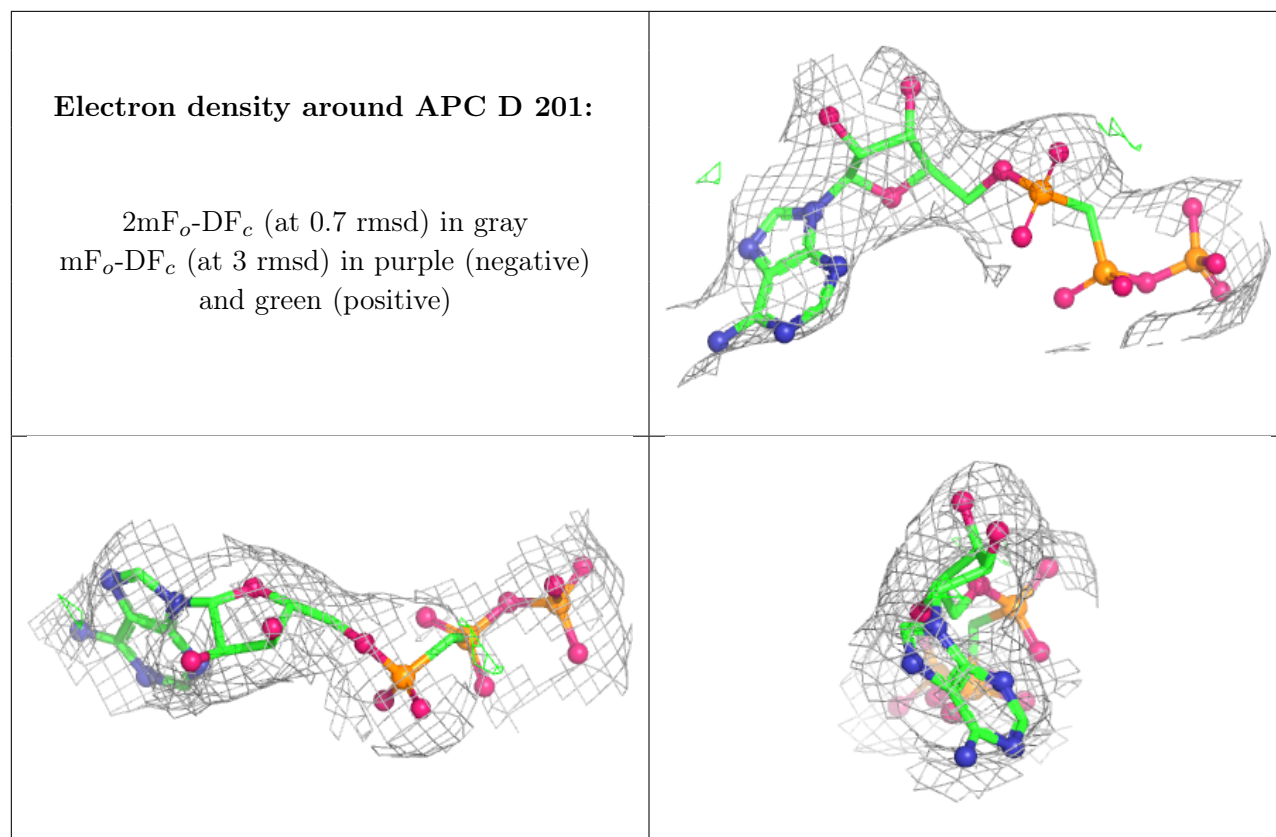
Electron density around TXA B 401:

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

**Electron density around APC E 201:**

$2mF_o-DF_c$ (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.