WORLDWIDE PDB
PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 23, 2023 – 02:14 AM JST

PDB ID	:	7YAN
Title	:	UDP-glucuronosyltransferase2B17 C-terminal domain
Authors	:	Wang, C.Y.; Zhang, L.
Deposited on	:	2022-06-28
Resolution	:	2.50 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:

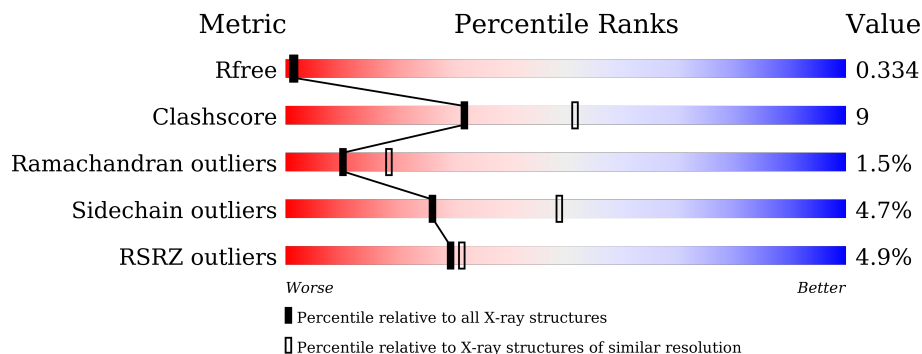|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance ⓘ

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

The reported resolution of this entry is 2.50 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	Percentile Ranks	Value
Rfree		0.334
Clashscore		9
Ramachandran outliers		1.5%
Sidechain outliers		4.7%
RSRZ outliers		4.9%

Worse   *Better*

▮ Percentile relative to all X-ray structures

◻ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	188	3% — 70% / 15% / · / 13%
1	B	188	5% — 69% / 16% / ·· / 13%
1	C	188	3% — 68% / 16% / ·· / 13%
1	D	188	6% — 70% / 14% / ·· / 13%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	TLA	C	501	-	X	-	-

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 5138 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 UDP-glucuronosyltransferase 2B17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	164	Total 1265	C 806	N 217	O 234	S 8	0	0	0
1	B	164	Total 1265	C 806	N 217	O 234	S 8	0	0	0
1	C	164	Total 1265	C 806	N 217	O 234	S 8	0	0	0
1	D	163	Total 1257	C 800	N 216	O 233	S 8	0	0	0

There are 80 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	264	MET	-	initiating methionine	UNP O75795
A	265	GLY	-	expression tag	UNP O75795
A	266	HIS	-	expression tag	UNP O75795
A	267	HIS	-	expression tag	UNP O75795
A	268	HIS	-	expression tag	UNP O75795
A	269	HIS	-	expression tag	UNP O75795
A	270	HIS	-	expression tag	UNP O75795
A	271	HIS	-	expression tag	UNP O75795
A	272	GLU	-	expression tag	UNP O75795
A	273	ASN	-	expression tag	UNP O75795
A	274	LEU	-	expression tag	UNP O75795
A	275	TYR	-	expression tag	UNP O75795
A	276	PHE	-	expression tag	UNP O75795
A	277	GLN	-	expression tag	UNP O75795
A	278	GLY	-	expression tag	UNP O75795
A	279	HIS	-	expression tag	UNP O75795
A	280	MET	-	expression tag	UNP O75795
A	281	ALA	-	expression tag	UNP O75795
A	282	SER	-	expression tag	UNP O75795
A	283	MET	-	expression tag	UNP O75795
B	264	MET	-	initiating methionine	UNP O75795

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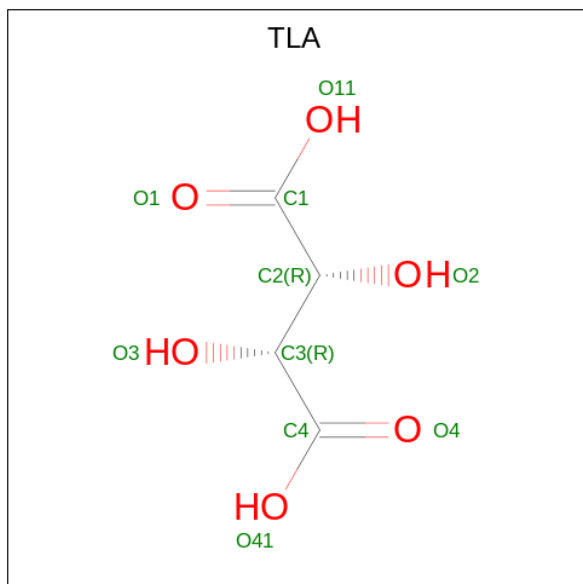
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Chain	Residue	Modelled	Actual	Comment	Reference
B	265	GLY	-	expression tag	UNP O75795
B	266	HIS	-	expression tag	UNP O75795
B	267	HIS	-	expression tag	UNP O75795
B	268	HIS	-	expression tag	UNP O75795
B	269	HIS	-	expression tag	UNP O75795
B	270	HIS	-	expression tag	UNP O75795
B	271	HIS	-	expression tag	UNP O75795
B	272	GLU	-	expression tag	UNP O75795
B	273	ASN	-	expression tag	UNP O75795
B	274	LEU	-	expression tag	UNP O75795
B	275	TYR	-	expression tag	UNP O75795
B	276	PHE	-	expression tag	UNP O75795
B	277	GLN	-	expression tag	UNP O75795
B	278	GLY	-	expression tag	UNP O75795
B	279	HIS	-	expression tag	UNP O75795
B	280	MET	-	expression tag	UNP O75795
B	281	ALA	-	expression tag	UNP O75795
B	282	SER	-	expression tag	UNP O75795
B	283	MET	-	expression tag	UNP O75795
C	264	MET	-	initiating methionine	UNP O75795
C	265	GLY	-	expression tag	UNP O75795
C	266	HIS	-	expression tag	UNP O75795
C	267	HIS	-	expression tag	UNP O75795
C	268	HIS	-	expression tag	UNP O75795
C	269	HIS	-	expression tag	UNP O75795
C	270	HIS	-	expression tag	UNP O75795
C	271	HIS	-	expression tag	UNP O75795
C	272	GLU	-	expression tag	UNP O75795
C	273	ASN	-	expression tag	UNP O75795
C	274	LEU	-	expression tag	UNP O75795
C	275	TYR	-	expression tag	UNP O75795
C	276	PHE	-	expression tag	UNP O75795
C	277	GLN	-	expression tag	UNP O75795
C	278	GLY	-	expression tag	UNP O75795
C	279	HIS	-	expression tag	UNP O75795
C	280	MET	-	expression tag	UNP O75795
C	281	ALA	-	expression tag	UNP O75795
C	282	SER	-	expression tag	UNP O75795
C	283	MET	-	expression tag	UNP O75795
D	264	MET	-	initiating methionine	UNP O75795
D	265	GLY	-	expression tag	UNP O75795
D	266	HIS	-	expression tag	UNP O75795

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Chain	Residue	Modelled	Actual	Comment	Reference
D	267	HIS	-	expression tag	UNP O75795
D	268	HIS	-	expression tag	UNP O75795
D	269	HIS	-	expression tag	UNP O75795
D	270	HIS	-	expression tag	UNP O75795
D	271	HIS	-	expression tag	UNP O75795
D	272	GLU	-	expression tag	UNP O75795
D	273	ASN	-	expression tag	UNP O75795
D	274	LEU	-	expression tag	UNP O75795
D	275	TYR	-	expression tag	UNP O75795
D	276	PHE	-	expression tag	UNP O75795
D	277	GLN	-	expression tag	UNP O75795
D	278	GLY	-	expression tag	UNP O75795
D	279	HIS	-	expression tag	UNP O75795
D	280	MET	-	expression tag	UNP O75795
D	281	ALA	-	expression tag	UNP O75795
D	282	SER	-	expression tag	UNP O75795
D	283	MET	-	expression tag	UNP O75795

- Molecule 2 is L(+)-TARTARIC ACID (three-letter code: TLA) (formula: $C_4H_6O_6$) (labeled as "Ligand of Interest" by depositor).

| Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			10	4	6		
2	B	1	Total	C	O	0	0
			10	4	6		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	C	1	Total 10	C 4	O 6	0	0
2	D	1	Total 10	C 4	O 6	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	9	Total 9	O 9	0	0
3	B	14	Total 14	O 14	0	0
3	C	13	Total 13	O 13	0	0
3	D	10	Total 10	O 10	0	0

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.
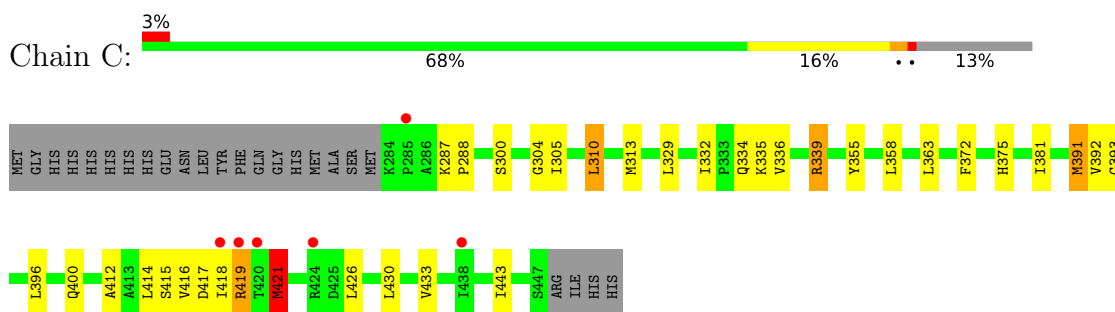
- Molecule 1: UDP-glucuronosyltransferase 2B17
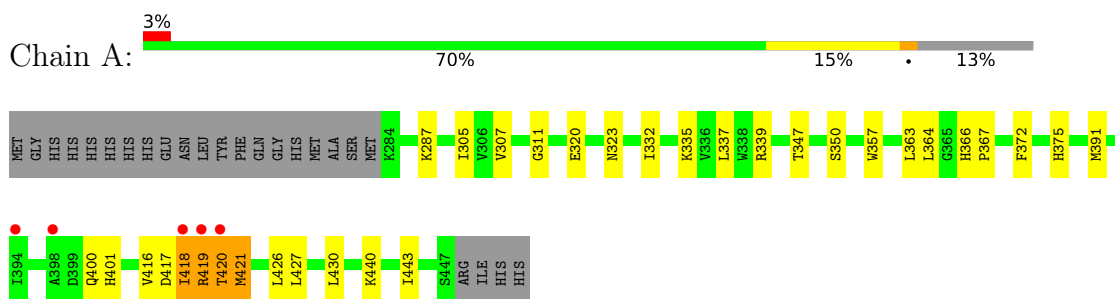
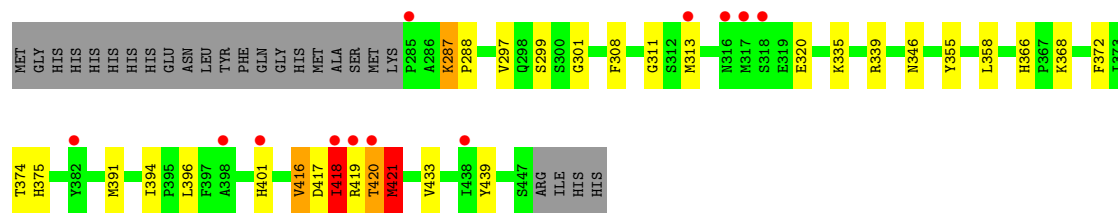- Molecule 1: UDP-glucuronosyltransferase 2B17
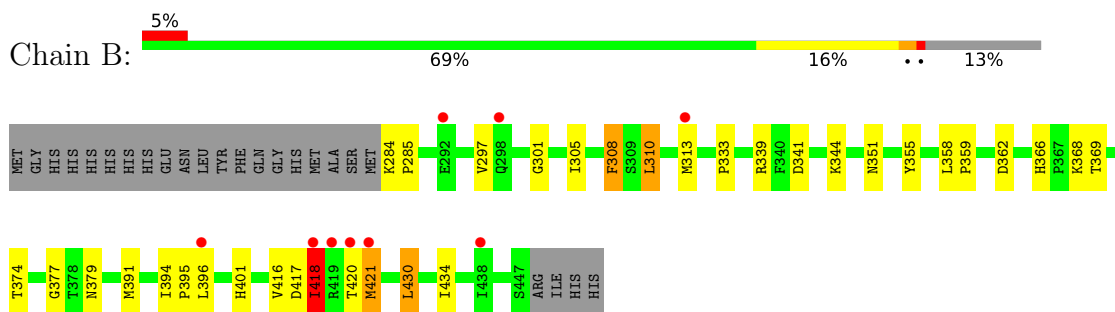
- Molecule 1: UDP-glucuronosyltransferase 2B17

- Molecule 1: UDP-glucuronosyltransferase 2B17

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	38.15Å 57.31Å 74.07Å 99.25° 94.72° 90.12°	Depositor
Resolution (Å)	19.11 – 2.50 19.11 – 2.50	Depositor EDS
% Data completeness (in resolution range)	97.5 (19.11-2.50) 76.6 (19.11-2.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.71 (at 2.49Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.268 , 0.331 0.270 , 0.334	Depositor DCC
R_{free} test set	1012 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å^2)	17.9	Xtriage
Anisotropy	0.127	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 5.2	EDS
L-test for twinning[2]	$< |L| > = 0.46$, $< L^2 > = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.84	EDS
Total number of atoms	5138	wwPDB-VP
Average B, all atoms (Å^2)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.56% of the height of the origin peak. No significant pseudotranslation is detected.*

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[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: TLA

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	0.68	0/1292	0.79	0/1744
1	B	0.68	0/1292	0.81	0/1744
1	C	0.69	0/1292	0.80	0/1744
1	D	0.68	0/1284	0.80	0/1734
All	All	0.68	0/5160	0.80	0/6966

There are no bond length outliers.

There are no bond angle outliers.

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	1265	0	1287	21	0
1	B	1265	0	1287	33	0
1	C	1265	0	1287	21	0
1	D	1257	0	1276	23	0
2	A	10	0	4	0	0
2	B	10	0	4	2	0
2	C	10	0	4	2	0
2	D	10	0	4	0	0
3	A	9	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	14	0	0	0	0
3	C	13	0	0	0	0
3	D	10	0	0	0	0
All	All	5138	0	5153	91	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 9.

The worst 5 of 91 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:D:401:HIS:NE2	1:D:418:ILE:HG12	1.87	0.89
1:B:401:HIS:NE2	1:B:418:ILE:HG12	1.93	0.83
1:D:287:LYS:N	1:D:287:LYS:HD3	2.03	0.73
1:C:310:LEU:HB2	2:C:501:TLA:O41	1.90	0.71
1:B:420:THR:OG1	1:B:421:MET:N	2.21	0.70

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	162/188 (86%)	152 (94%)	7 (4%)	3 (2%)	8	13
1	B	162/188 (86%)	150 (93%)	10 (6%)	2 (1%)	13	24
1	C	162/188 (86%)	153 (94%)	7 (4%)	2 (1%)	13	24
1	D	161/188 (86%)	151 (94%)	7 (4%)	3 (2%)	8	13
All	All	647/752 (86%)	606 (94%)	31 (5%)	10 (2%)	10	18

5 of 10 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	421	MET
1	C	418	ILE
1	D	421	MET
1	A	418	ILE
1	B	421	MET

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	138/160 (86%)	134 (97%)	4 (3%)	42	69
1	B	138/160 (86%)	131 (95%)	7 (5%)	24	45
1	C	138/160 (86%)	132 (96%)	6 (4%)	29	53
1	D	138/160 (86%)	129 (94%)	9 (6%)	17	33
All	All	552/640 (86%)	526 (95%)	26 (5%)	26	49

5 of 26 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	419	ARG
1	D	287	LYS
1	D	420	THR
1	C	433	VAL
1	D	308	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	428	ASN
1	B	351	ASN
1	B	442	ASN
1	D	331	GLN
1	D	406	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

4 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	$\#|Z| > 2$
2	TLA	B	501	-	9,9,9	1.21	1 (11%)	12,12,12	1.23	1 (8%)
2	TLA	D	501	-	9,9,9	1.00	0	12,12,12	1.70	4 (33%)
2	TLA	C	501	-	9,9,9	1.55	2 (22%)	12,12,12	1.90	4 (33%)
2	TLA	A	501	-	9,9,9	1.29	1 (11%)	12,12,12	0.89	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	TLA	B	501	-	-	4/12/12/12	-
2	TLA	D	501	-	-	2/12/12/12	-
2	TLA	C	501	-	-	8/12/12/12	-
2	TLA	A	501	-	-	6/12/12/12	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	501	TLA	C3-C4	-2.83	1.48	1.52
2	C	501	TLA	O41-C4	-2.46	1.22	1.30
2	B	501	TLA	O41-C4	-2.23	1.23	1.30
2	A	501	TLA	O2-C2	2.18	1.46	1.42

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	501	TLA	C3-C2-C1	3.91	118.61	109.87
2	D	501	TLA	O41-C4-C3	3.74	123.37	113.27
2	D	501	TLA	O4-C4-C3	-2.88	114.05	121.63
2	C	501	TLA	O11-C1-C2	2.86	121.00	113.27
2	C	501	TLA	O2-C2-C1	-2.45	105.54	110.66

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

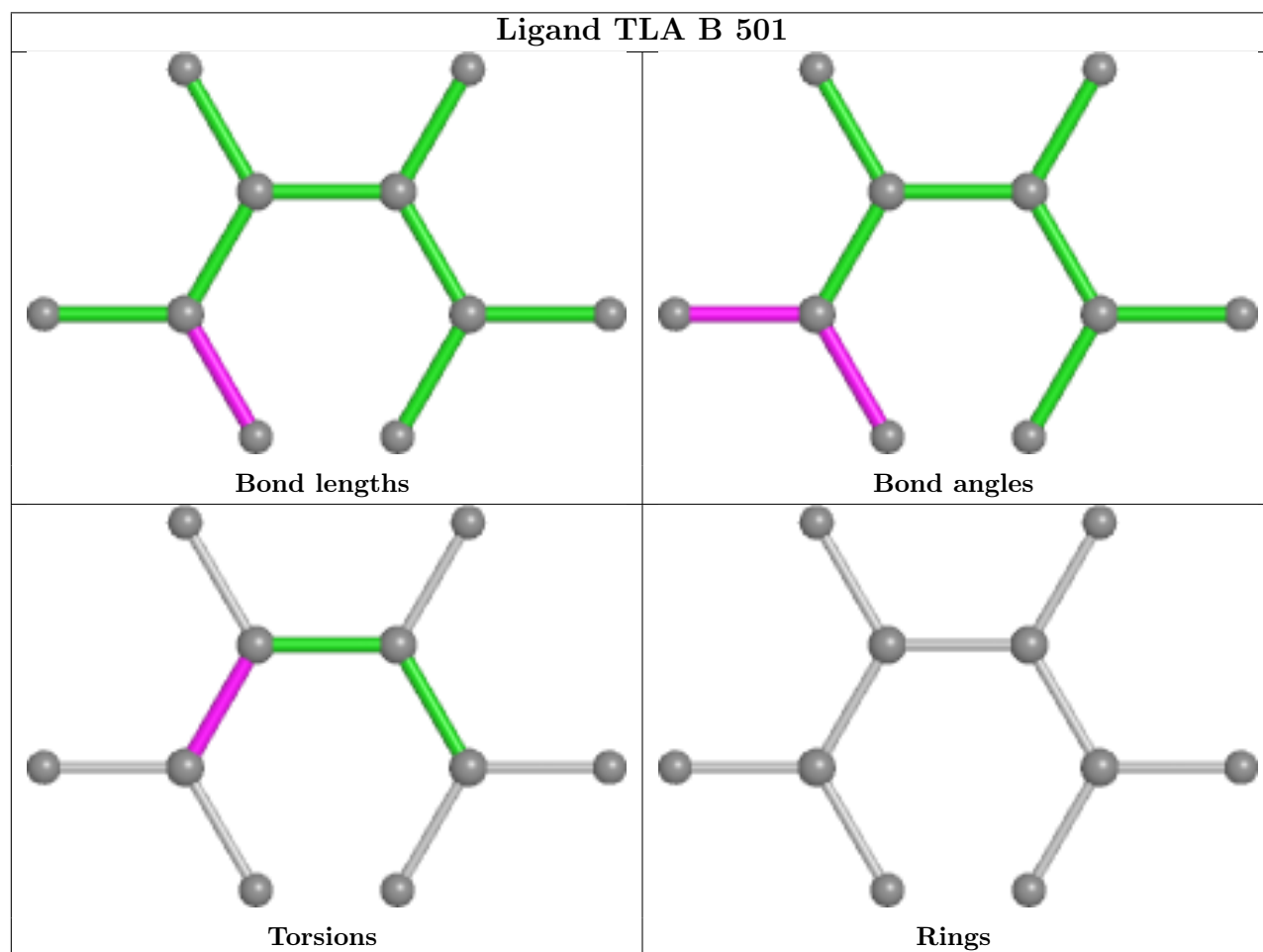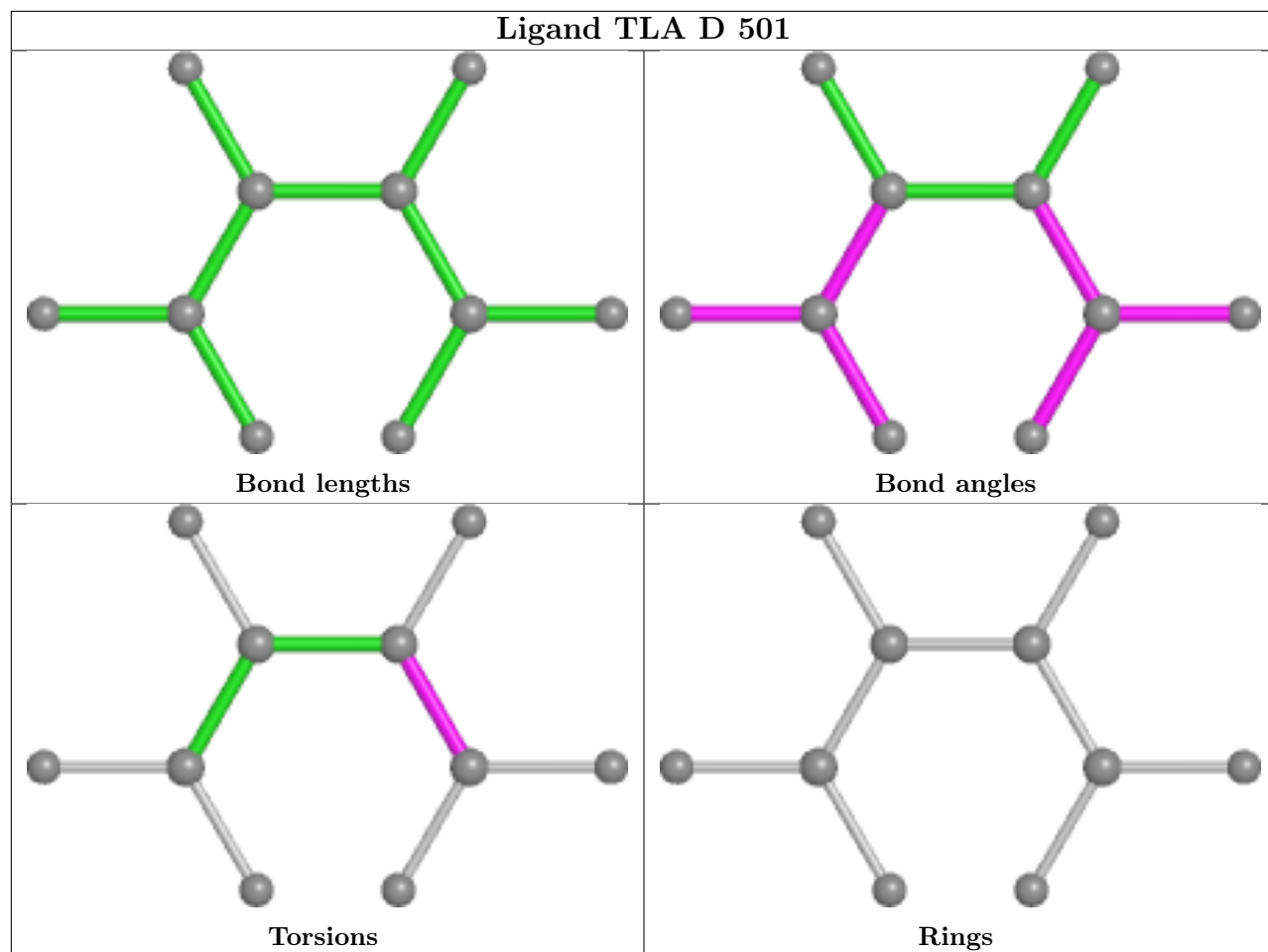| Mol	Chain	Res	Type	Atoms
2	A	501	TLA	C1-C2-C3-C4
2	C	501	TLA	C1-C2-C3-O3
2	C	501	TLA	C1-C2-C3-C4
2	C	501	TLA	O2-C2-C3-C4
2	A	501	TLA	O2-C2-C3-O3

There are no ring outliers.

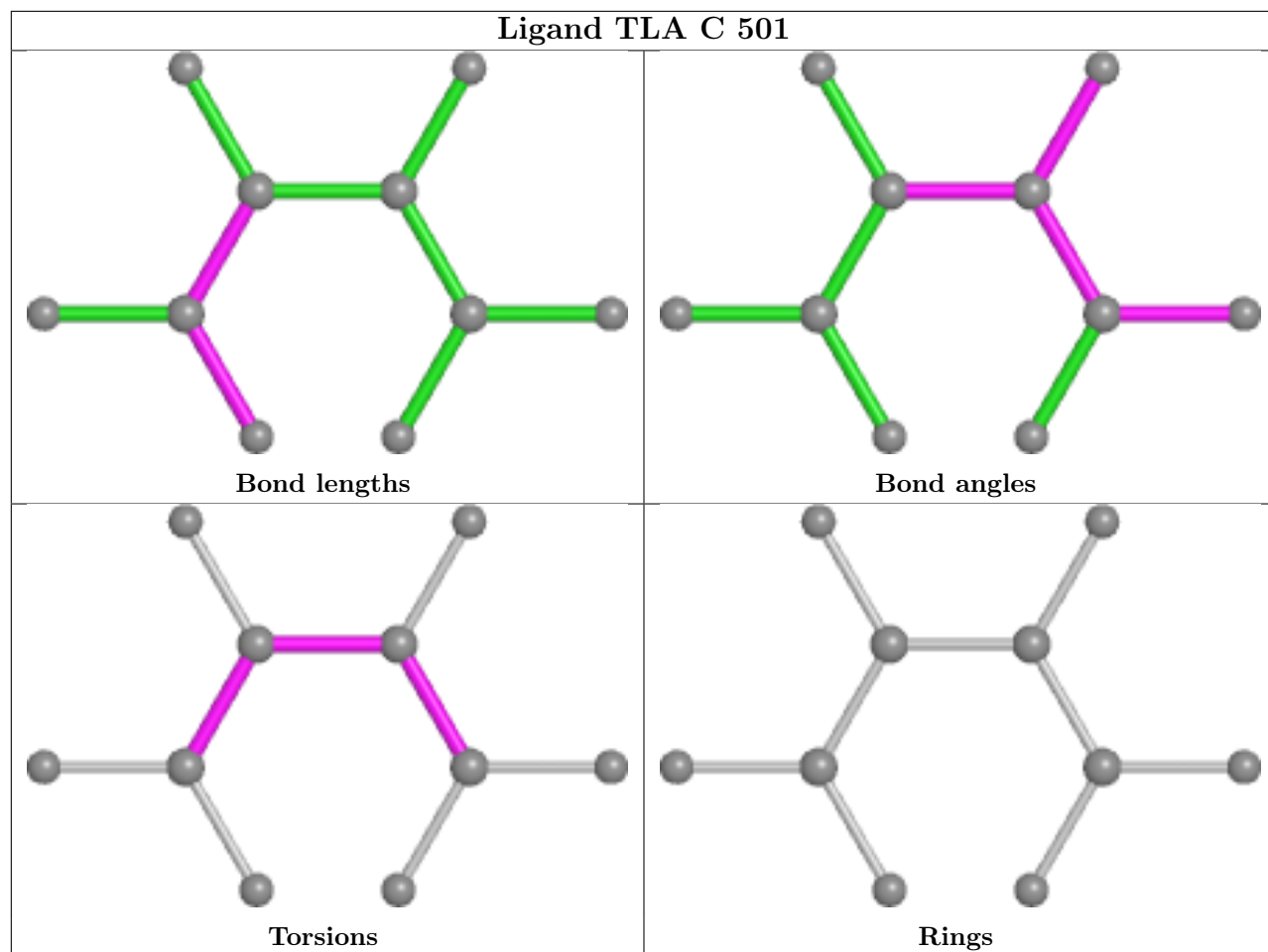2 monomers are involved in 4 short contacts:

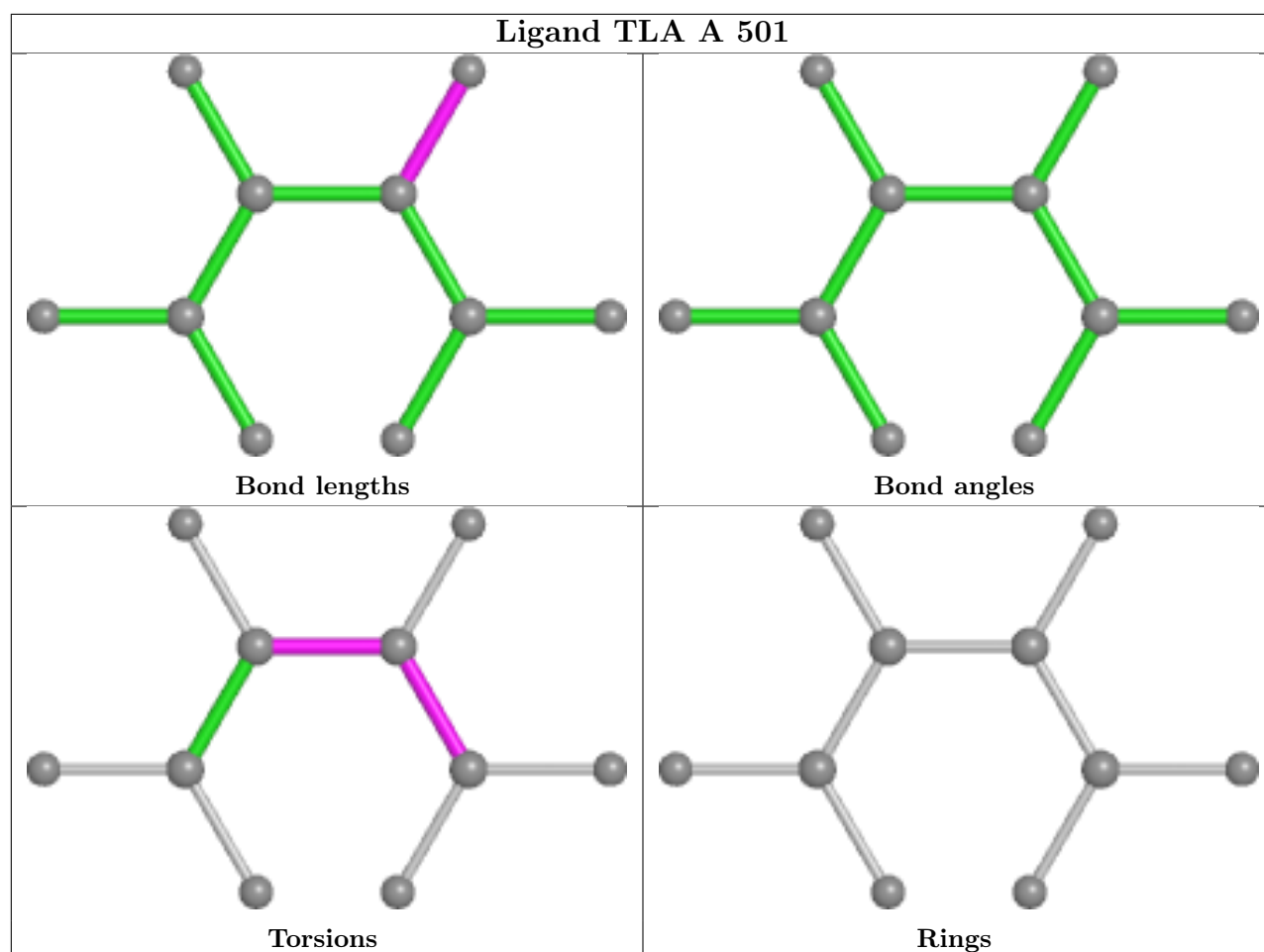| Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	501	TLA	2	0
2	C	501	TLA	2	0

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 TLA B 501

Ligand TLA D 501

Bond lengths

Bond angles

Torsions

Rings

Ligand TLA C 501

Bond lengths

Bond angles

Torsions

Rings

Ligand TLA A 501

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, 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	164/188 (87%)	0.25	5 (3%)	50	53	9, 15, 32, 53	0
1	B	164/188 (87%)	0.43	9 (5%)	25	26	8, 19, 39, 77	0
1	C	164/188 (87%)	0.22	6 (3%)	41	45	9, 16, 32, 55	0
1	D	163/188 (86%)	0.42	12 (7%)	14	15	10, 19, 36, 67	0
All	All	655/752 (87%)	0.33	32 (4%)	29	31	8, 17, 36, 77	0

The worst 5 of 32 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	418	ILE	8.5
1	B	420	THR	8.1
1	D	418	ILE	7.5
1	D	420	THR	7.2
1	C	418	ILE	6.0

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

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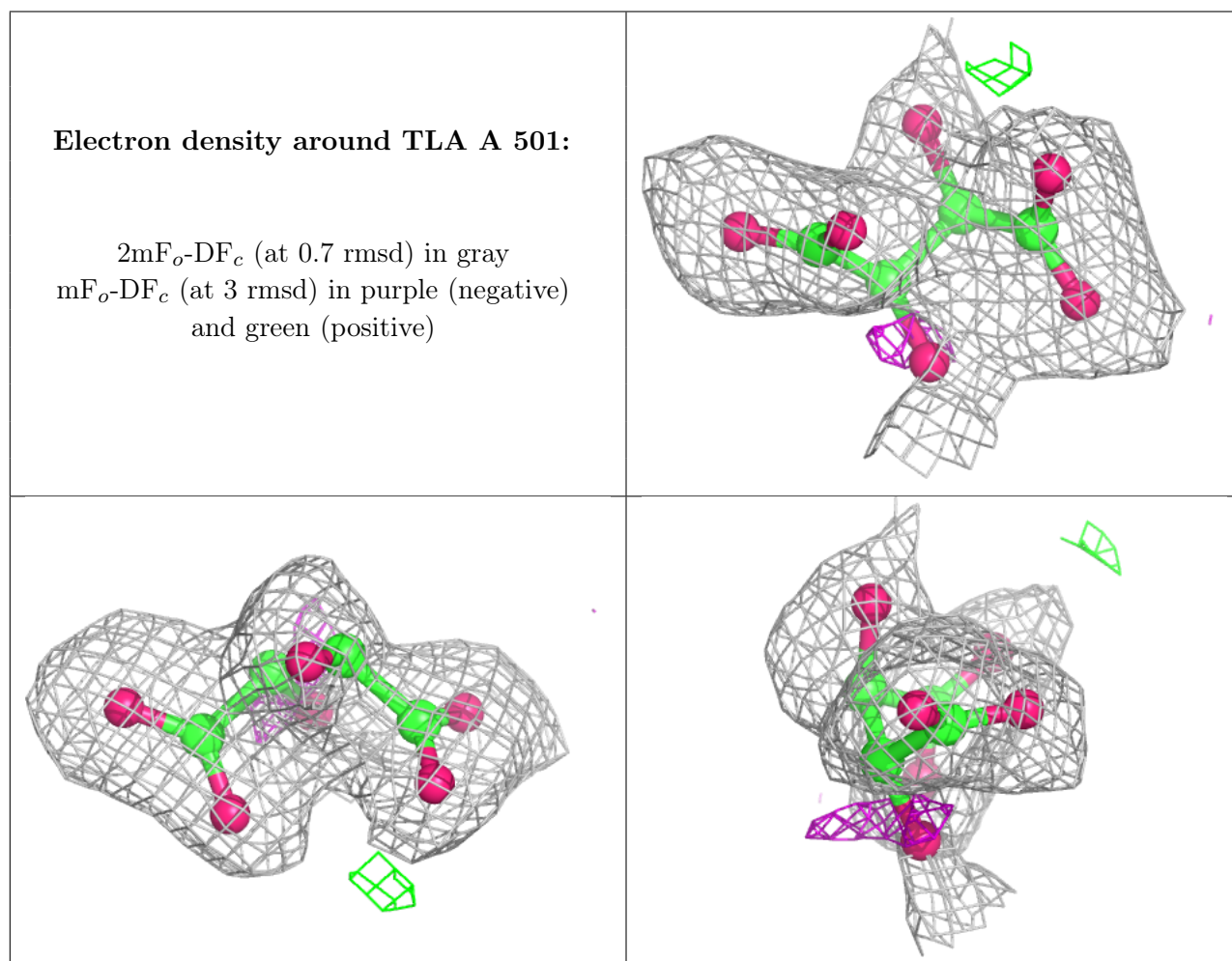
6.3   Carbohydrates ⓘ

There are no monosaccharides 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, 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.

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	TLA	A	501	10/10	0.82	0.20	16,17,18,20	0
2	TLA	C	501	10/10	0.88	0.16	19,20,21,24	0
2	TLA	D	501	10/10	0.92	0.14	11,12,13,13	0
2	TLA	B	501	10/10	0.94	0.10	14,14,15,15	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 TLA A 501:

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

Electron density around TLA C 501:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
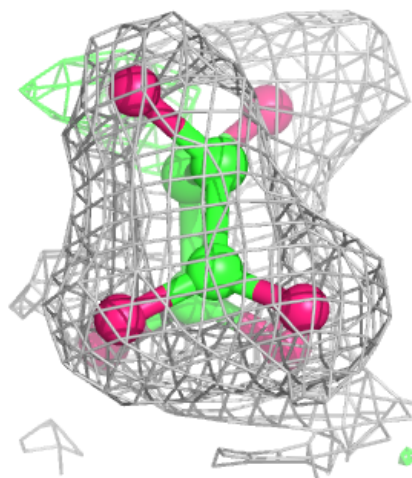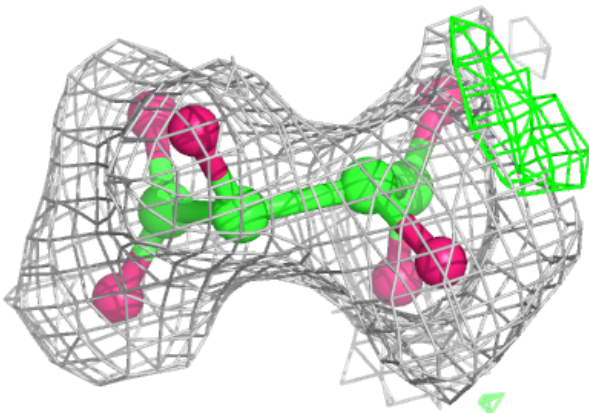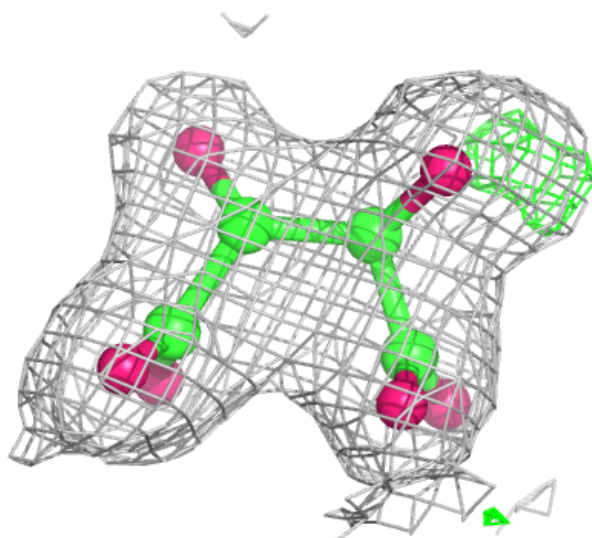
Electron density around TLA D 501:

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

Electron density around TLA B 501:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
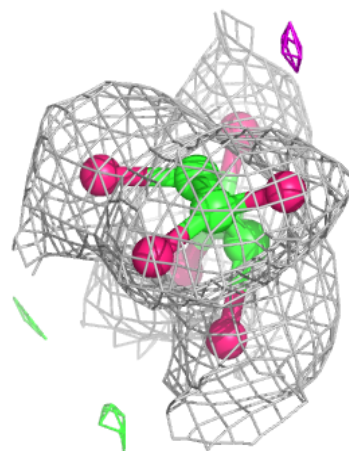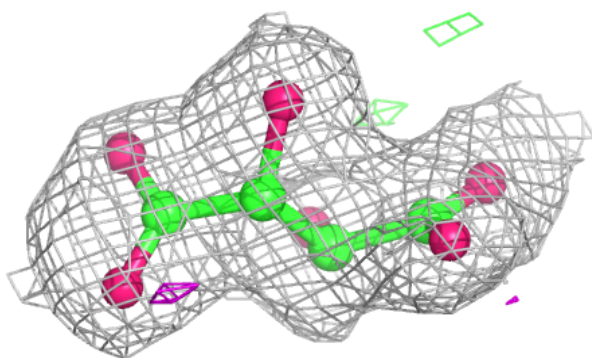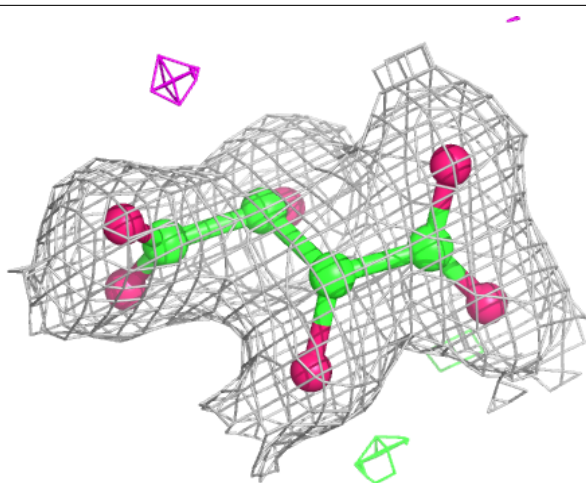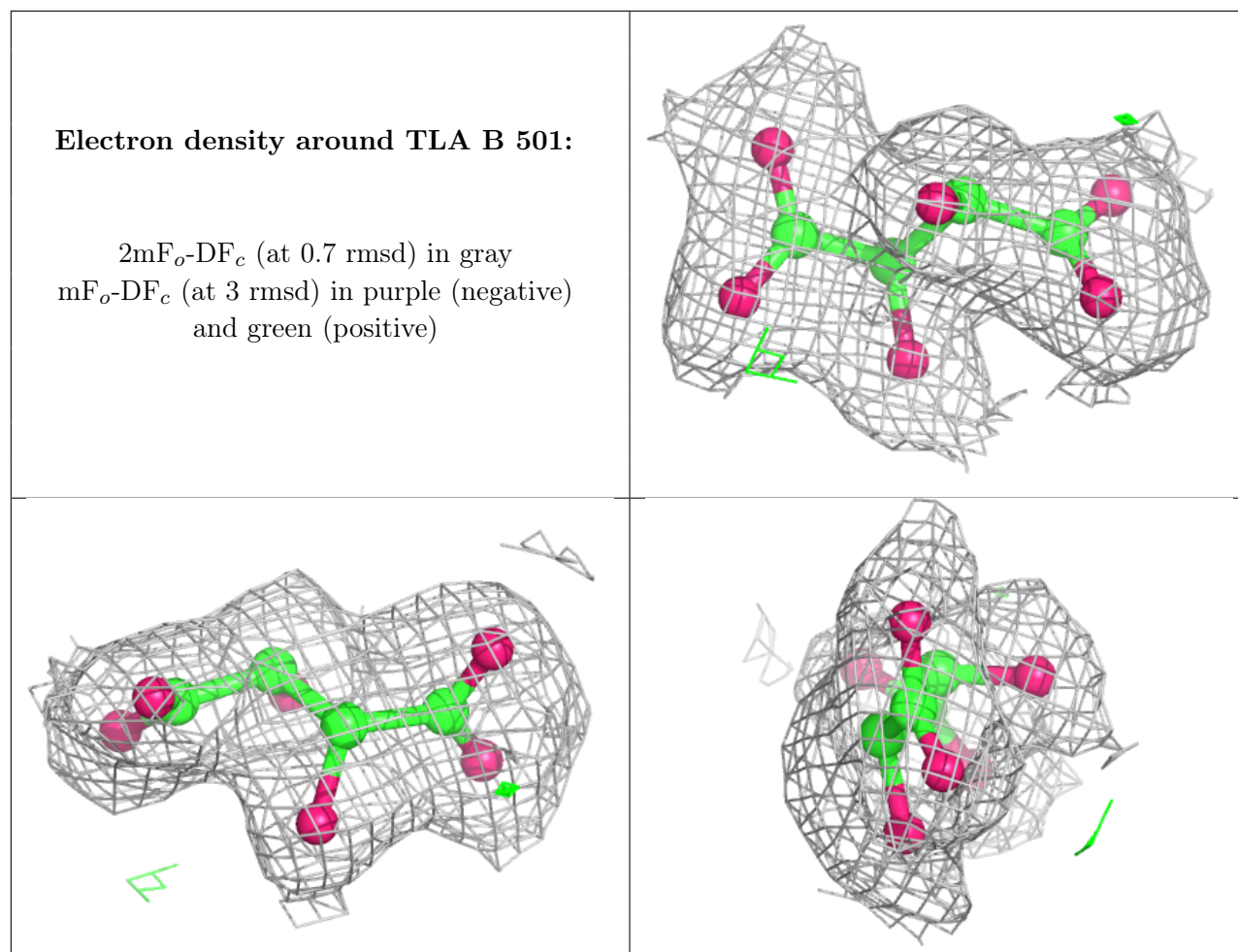
6.5   Other polymers (i)

There are no such residues in this entry.