



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 28, 2024 – 04:51 pm GMT

PDB ID : 4PHI
Title : Crystal structure of HEWL with hexatungstotellurate(VI)
Authors : Bijelic, A.; Molitor, C.; Mauracher, S.G.; Al-Oweini, R.; Kortz, U.; Rompel, A.
Deposited on : 2014-05-06
Resolution : 1.81 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	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

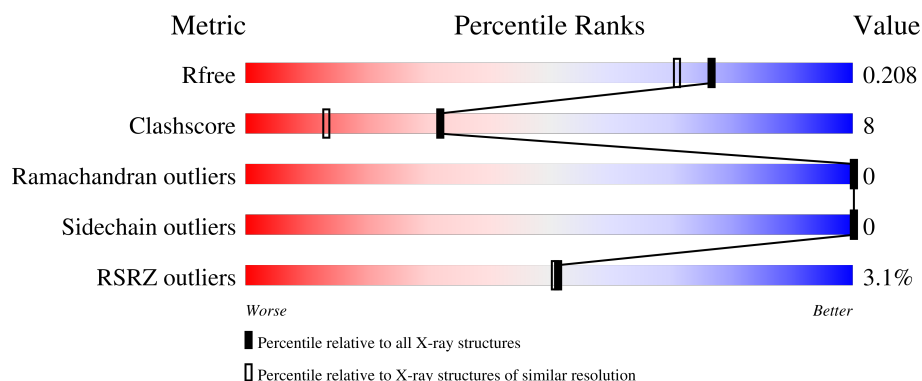
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.81 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}	164625	9242 (1.84-1.80)
Clashscore	180529	1080 (1.82-1.82)
Ramachandran outliers	177936	1073 (1.82-1.82)
Sidechain outliers	177891	1073 (1.82-1.82)
RSRZ outliers	164620	9241 (1.84-1.80)

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	129	<div> <div>5%</div> <div> <div></div> <div>91%</div> <div>7%</div> <div></div> </div> </div>
1	B	129	<div> <div>2%</div> <div> <div></div> <div>93%</div> <div>5%</div> <div></div> </div> </div>
1	C	129	<div> <div>2%</div> <div> <div></div> <div>93%</div> <div>5%</div> <div></div> </div> </div>
1	D	129	<div> <div>3%</div> <div> <div></div> <div>93%</div> <div>5%</div> <div></div> </div> </div>

2 Entry composition ⓘ

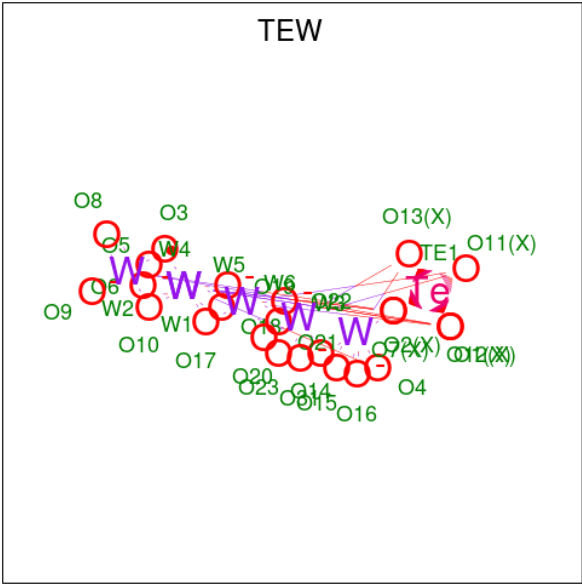
There are 6 unique types of molecules in this entry. The entry contains 8439 atoms, of which 3657 are hydrogens and 0 are deuteriums.

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 Lysozyme C.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	127	Total	C	H	N	O	S	0	0	0
			1869	593	907	182	177	10			
1	B	127	Total	C	H	N	O	S	0	0	0
			1894	597	921	187	179	10			
1	C	127	Total	C	H	N	O	S	0	0	0
			1883	595	915	184	179	10			
1	D	127	Total	C	H	N	O	S	0	0	0
			1865	594	900	183	178	10			

- Molecule 2 is 6-tungstotellurate(VI) (three-letter code: TEW) (formula: O₂₄TeW₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	O	Te	W	0	0
			31	24	1	6		
2	A	1	Total	O	Te	W	0	0
			31	24	1	6		

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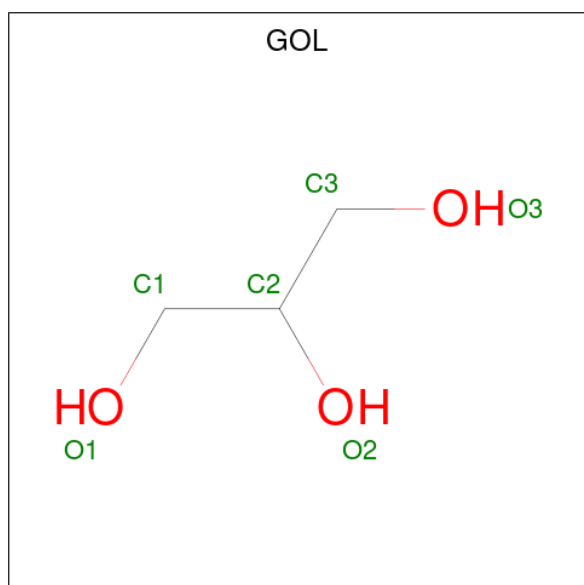
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	O	Te	W	0	0
			31	24	1	6		
2	B	1	Total	O	Te	W	0	0
			31	24	1	6		
2	B	1	Total	O	Te	W	0	0
			31	24	1	6		
2	B	1	Total	O	Te	W	0	0
			31	24	1	6		
2	D	1	Total	O	Te	W	0	0
			31	24	1	6		

- Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Na	0	0
			1	1		
3	B	2	Total	Na	0	0
			2	2		
3	C	2	Total	Na	0	0
			2	2		
3	D	1	Total	Na	0	0
			1	1		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			14	3	8	3		

- Molecule 5 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			7	2	3	2		
5	D	1	Total	C	H	O	0	0
			7	2	3	2		

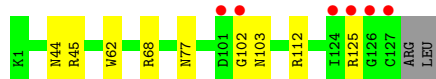
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	174	Total	O	0	0
			174	174		
6	B	171	Total	O	0	0
			171	171		
6	C	156	Total	O	0	0
			156	156		
6	D	145	Total	O	0	0
			145	145		

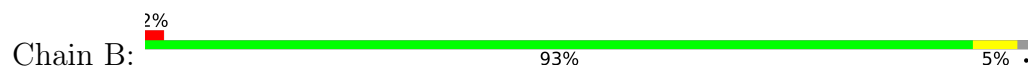
3 Residue-property plots [i](#)

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.

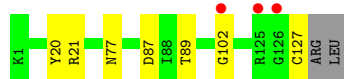
• Molecule 1: Lysozyme C



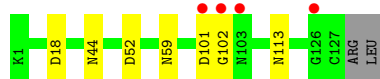
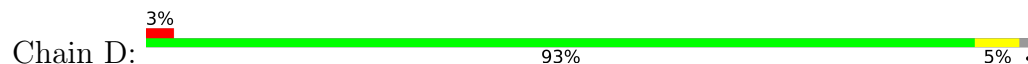
• Molecule 1: Lysozyme C



• Molecule 1: Lysozyme C



• Molecule 1: Lysozyme C



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	60.01Å 60.01Å 261.84Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.25 – 1.81 29.25 – 1.81	Depositor EDS
% Data completeness (in resolution range)	100.0 (29.25-1.81) 100.0 (29.25-1.81)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	0.19	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.33 (at 1.79Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.4_1496)	Depositor
R, R_{free}	0.187 , 0.200 0.199 , 0.208	Depositor DCC
R_{free} test set	2246 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	24.2	Xtriage
Anisotropy	0.017	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 41.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8439	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.07% 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: NA, GOL, ACT, TEW

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	0.22	0/982	0.40	0/1330
1	B	0.22	0/993	0.40	0/1343
1	C	0.23	0/988	0.41	0/1338
1	D	0.22	0/985	0.38	0/1334
All	All	0.22	0/3948	0.40	0/5345

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 [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	962	907	908	18	0
1	B	973	921	922	13	0
1	C	968	915	916	11	0
1	D	965	900	912	6	0
2	A	62	0	0	3	0
2	B	155	0	0	13	0
2	D	31	0	0	3	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	2	0	0	0	0
3	D	1	0	0	0	0
4	A	6	8	8	0	0
5	A	4	3	3	1	0
5	D	4	3	3	0	0
6	A	174	0	0	20	3
6	B	171	0	0	16	7
6	C	156	0	0	11	2
6	D	145	0	0	8	2
All	All	4782	3657	3672	62	8

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 8.

The worst 5 of 62 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:C:20:TYR:HA	6:C:446:HOH:O	1.47	1.11
1:B:125:ARG:NE	6:B:301:HOH:O	1.83	1.11
1:A:62:TRP:NE1	6:A:303:HOH:O	1.87	1.06
1:B:125:ARG:NH2	6:B:301:HOH:O	1.81	1.03
1:A:112:ARG:CZ	6:A:469:HOH:O	2.08	1.01

The worst 5 of 8 symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:372:HOH:O	6:D:339:HOH:O[7_555]	1.83	0.37
6:A:335:HOH:O	6:B:346:HOH:O[7_555]	2.01	0.19
6:B:364:HOH:O	6:D:352:HOH:O[5_554]	2.06	0.14
6:A:337:HOH:O	6:B:367:HOH:O[1_545]	2.07	0.13
6:B:376:HOH:O	6:B:382:HOH:O[5_454]	2.07	0.13

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	125/129 (97%)	119 (95%)	6 (5%)	0	100	100
1	B	125/129 (97%)	120 (96%)	5 (4%)	0	100	100
1	C	125/129 (97%)	119 (95%)	6 (5%)	0	100	100
1	D	125/129 (97%)	121 (97%)	4 (3%)	0	100	100
All	All	500/516 (97%)	479 (96%)	21 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	98/105 (93%)	98 (100%)	0	100	100
1	B	100/105 (95%)	100 (100%)	0	100	100
1	C	100/105 (95%)	100 (100%)	0	100	100
1	D	99/105 (94%)	99 (100%)	0	100	100
All	All	397/420 (94%)	397 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	77	ASN
1	B	44	ASN

5.3.3 RNA ⓘ

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 17 ligands modelled in this entry, 6 are monoatomic - leaving 11 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	TEW	B	203	6,2	29,42,42	0.89	0	12,129,129	1.43	2 (16%)
2	TEW	B	205	6,1,2	29,42,42	0.91	1 (3%)	12,129,129	0.94	0
5	ACT	A	205	-	3,3,3	0.76	0	3,3,3	1.34	0
2	TEW	A	201	6	29,42,42	0.92	2 (6%)	12,129,129	2.45	5 (41%)
2	TEW	A	202	6	29,42,42	0.94	1 (3%)	12,129,129	1.02	0
5	ACT	D	203	-	3,3,3	0.75	0	3,3,3	1.31	0
2	TEW	B	204	6,2	29,42,42	0.94	0	12,129,129	0.79	0
2	TEW	B	202	-	29,42,42	0.91	0	12,129,129	1.03	1 (8%)
2	TEW	B	201	6	29,42,42	0.93	1 (3%)	12,129,129	1.44	2 (16%)
4	GOL	A	204	-	5,5,5	0.40	0	5,5,5	0.19	0
2	TEW	D	201	6,2	29,42,42	0.93	0	12,129,129	0.51	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
4	GOL	A	204	-	-	2/4/4/4	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	202	TEW	W2-O7	-2.06	2.23	2.34
2	B	201	TEW	W2-O7	-2.05	2.23	2.34
2	A	201	TEW	W5-O11	-2.04	2.23	2.34
2	B	205	TEW	W6-O13	-2.02	2.24	2.34
2	A	201	TEW	W2-O7	-2.01	2.24	2.34

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	201	TEW	O1-TE1-O12	5.09	99.23	94.65
2	A	201	TEW	O13-TE1-O1	4.19	98.43	94.65
2	B	203	TEW	O13-TE1-O1	3.30	97.63	94.65
2	B	201	TEW	O11-TE1-O7	-3.07	91.89	94.65
2	B	201	TEW	O13-TE1-O1	2.99	97.34	94.65

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	204	GOL	O1-C1-C2-O2
4	A	204	GOL	O1-C1-C2-C3

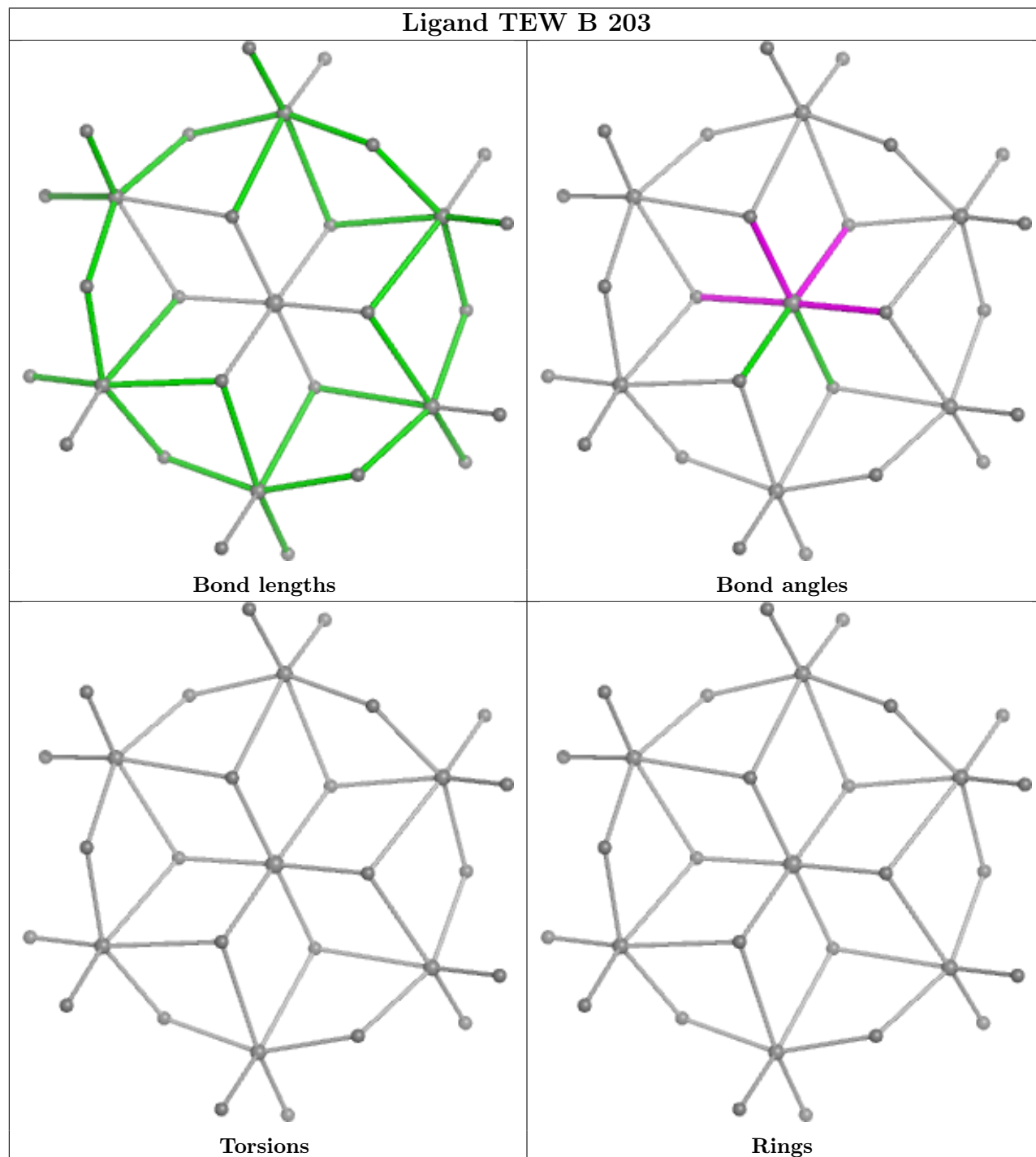
There are no ring outliers.

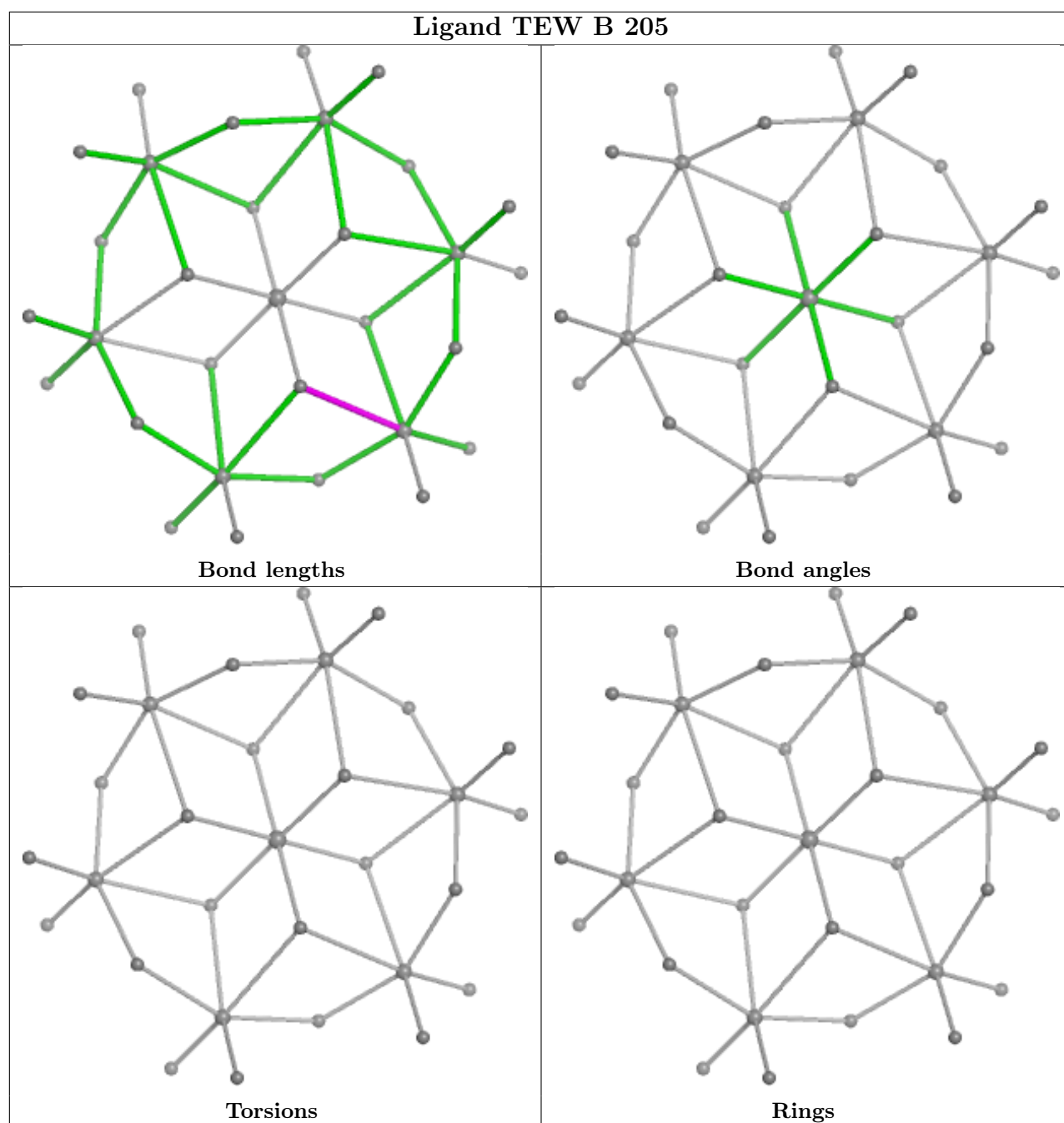
9 monomers are involved in 20 short contacts:

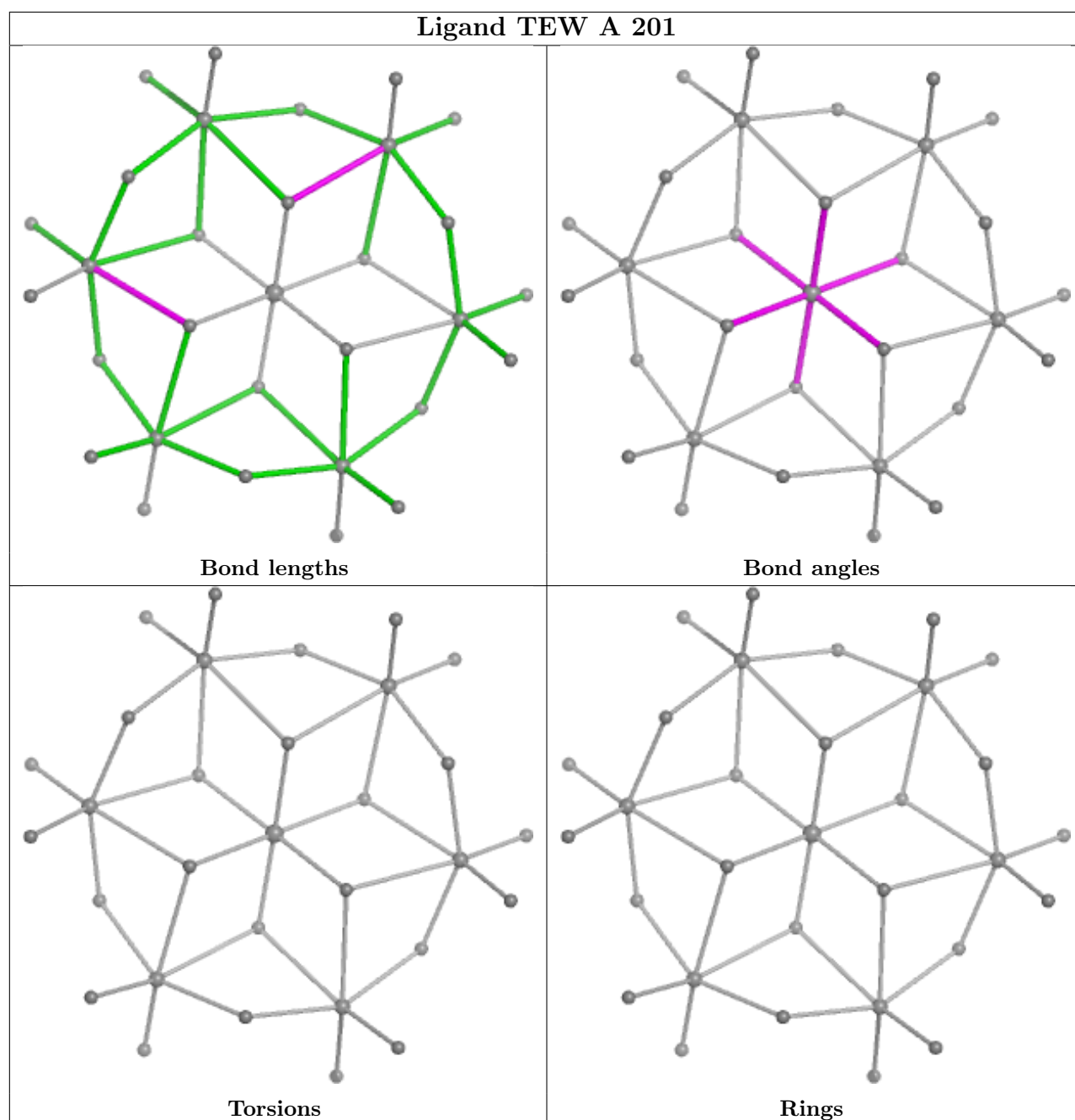
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	203	TEW	4	0
2	B	205	TEW	4	0
5	A	205	ACT	1	0
2	A	201	TEW	1	0
2	A	202	TEW	2	0
2	B	204	TEW	2	0
2	B	202	TEW	1	0
2	B	201	TEW	2	0
2	D	201	TEW	3	0

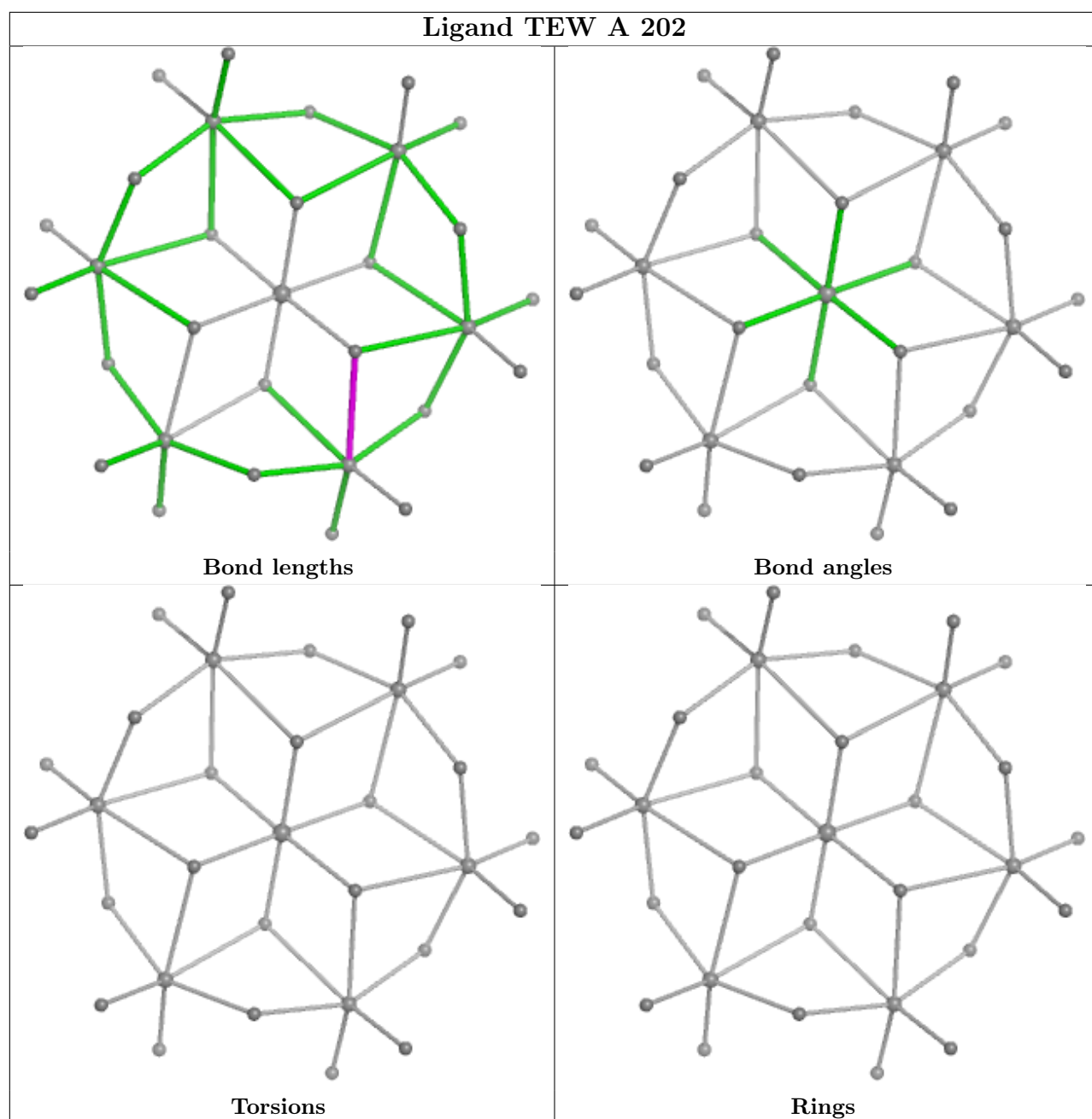
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is

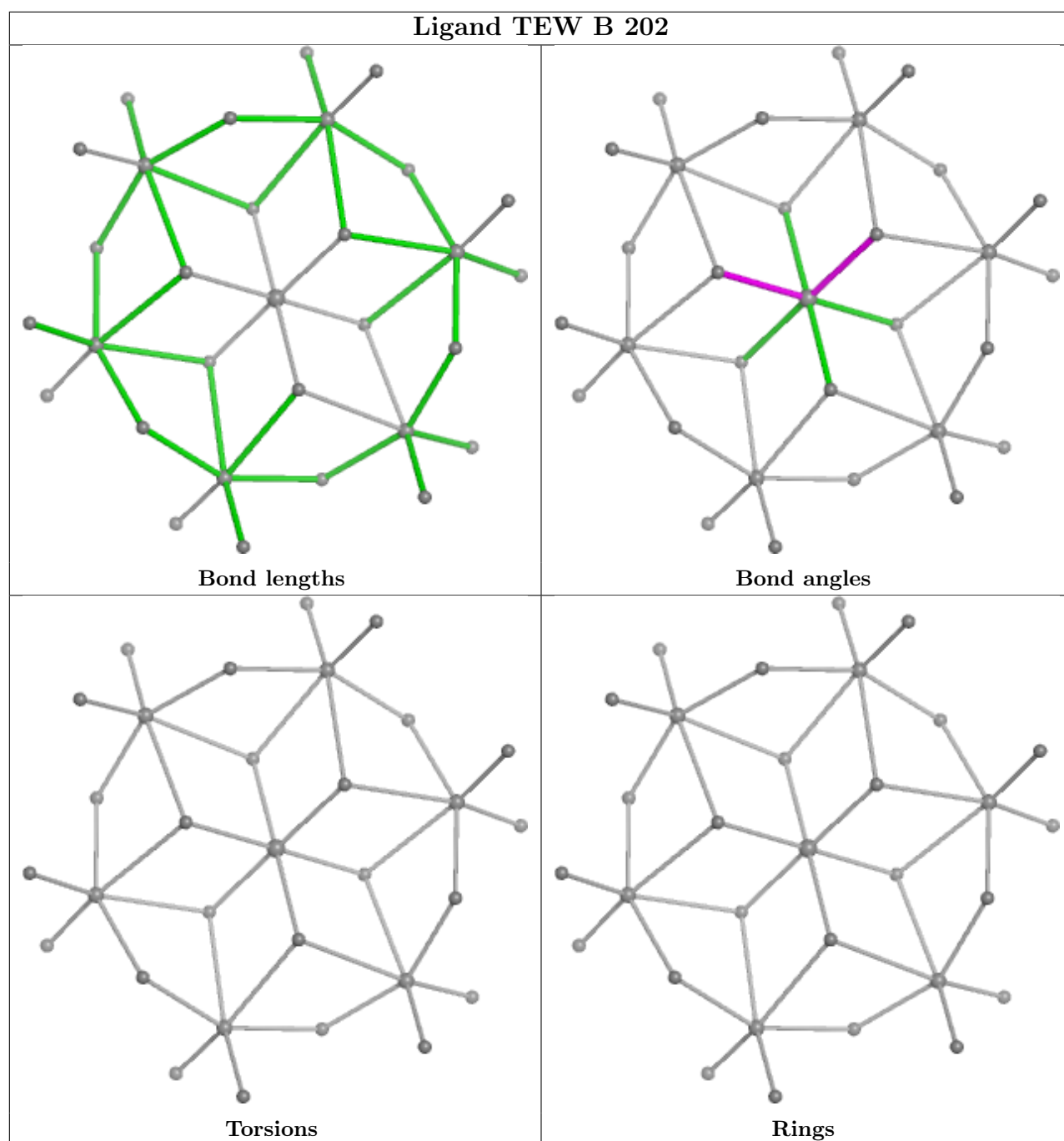
within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question 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.

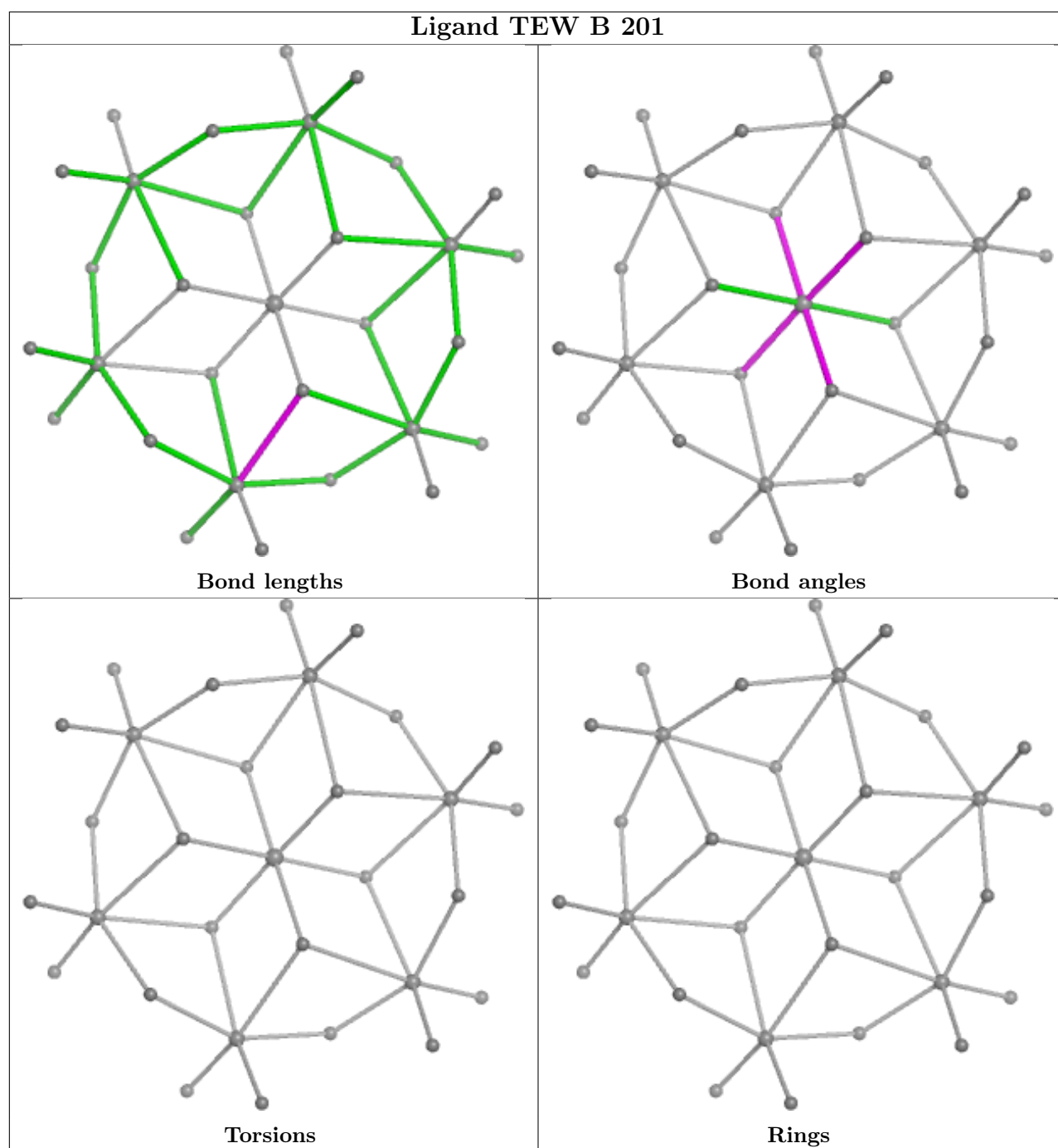












5.7 Other polymers [i](#)

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 [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(Å ²)	Q<0.9
1	A	127/129 (98%)	0.32	6 (4%) 37 36	20, 29, 43, 92	1 (0%)
1	B	127/129 (98%)	0.03	3 (2%) 59 59	16, 26, 43, 53	0
1	C	127/129 (98%)	0.27	3 (2%) 59 59	19, 31, 49, 100	0
1	D	127/129 (98%)	0.28	4 (3%) 51 51	20, 30, 46, 71	0
All	All	508/516 (98%)	0.23	16 (3%) 51 51	16, 29, 46, 100	1 (0%)

The worst 5 of 16 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	125	ARG	6.5
1	C	126	GLY	4.8
1	C	102	GLY	4.5
1	D	102	GLY	4.0
1	D	103	ASN	3.6

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 monosaccharides in this entry.

6.4 Ligands [i](#)

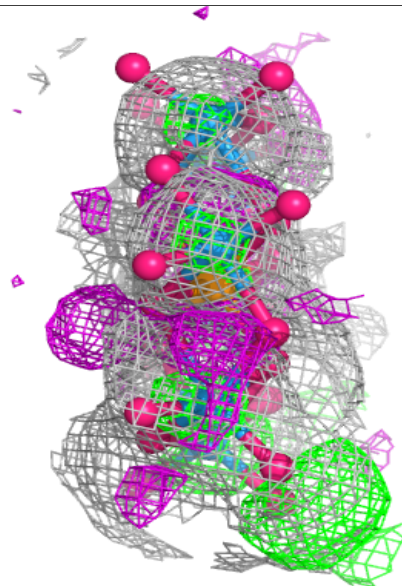
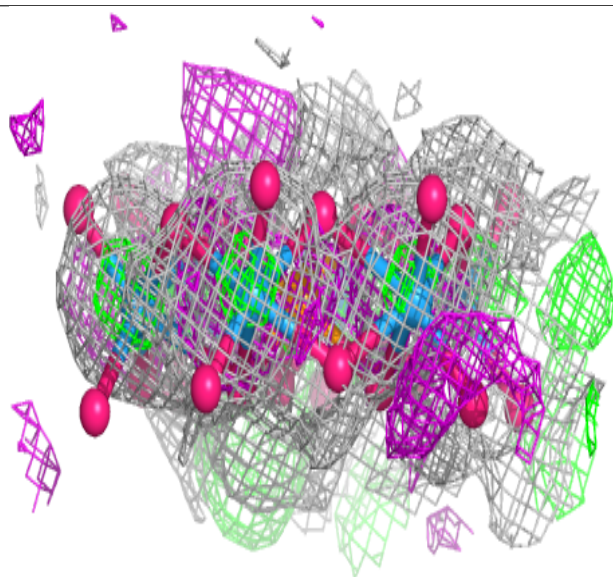
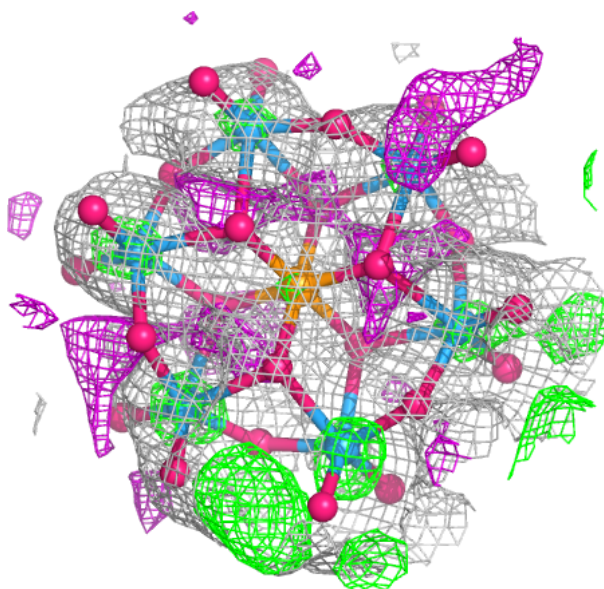
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	NA	C	201	1/1	0.66	0.22	46,46,46,46	0
2	TEW	B	205	31/31	0.71	0.18	176,204,218,232	31
4	GOL	A	204	6/6	0.75	0.18	36,39,63,67	0
5	ACT	A	205	4/4	0.81	0.22	54,57,67,67	0
2	TEW	B	204	31/31	0.84	0.20	59,67,86,98	31
5	ACT	D	203	4/4	0.84	0.11	20,20,20,20	0
3	NA	B	207	1/1	0.87	0.14	33,33,33,33	0
3	NA	A	203	1/1	0.91	0.12	39,39,39,39	0
2	TEW	A	202	31/31	0.91	0.12	88,97,101,109	31
2	TEW	B	203	31/31	0.91	0.19	41,50,64,69	31
3	NA	D	202	1/1	0.93	0.12	41,41,41,41	0
2	TEW	D	201	31/31	0.94	0.15	39,48,56,58	31
3	NA	C	202	1/1	0.94	0.10	37,37,37,37	0
3	NA	B	206	1/1	0.95	0.07	32,32,32,32	0
2	TEW	B	202	31/31	0.98	0.12	27,36,39,40	31
2	TEW	A	201	31/31	0.99	0.09	27,35,39,43	0
2	TEW	B	201	31/31	0.99	0.07	29,34,40,42	31

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.

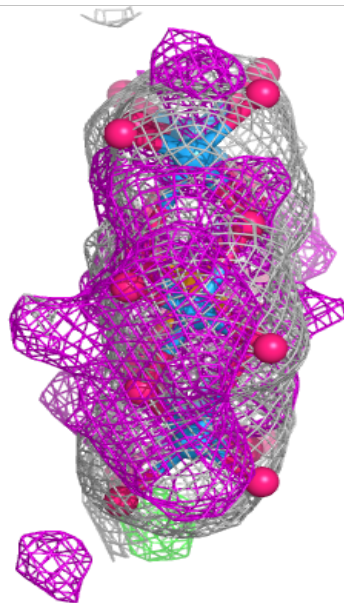
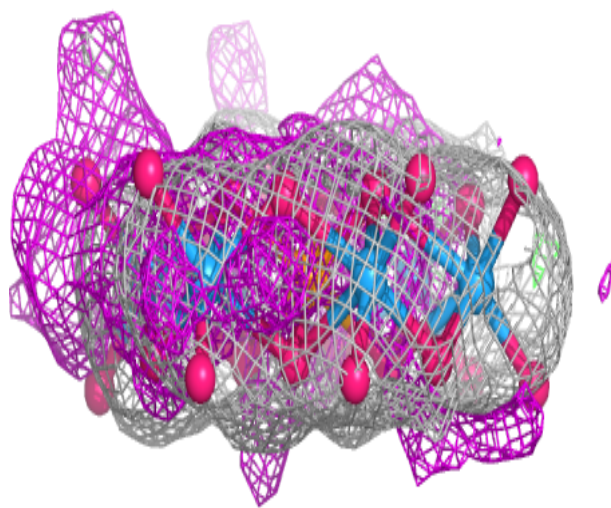
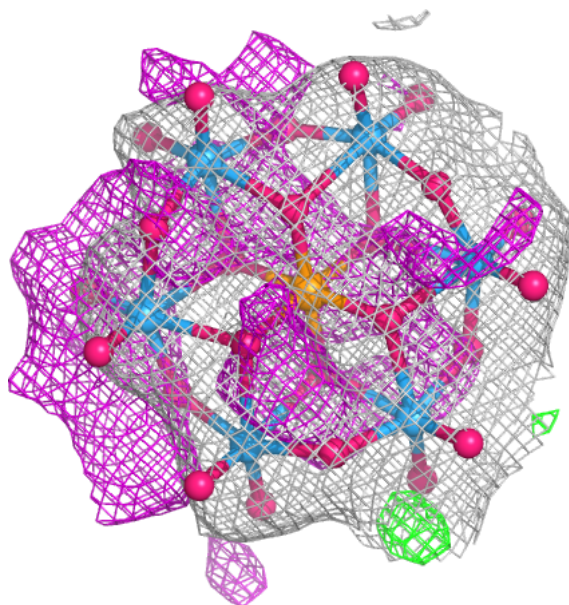
Electron density around TEW B 205:

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



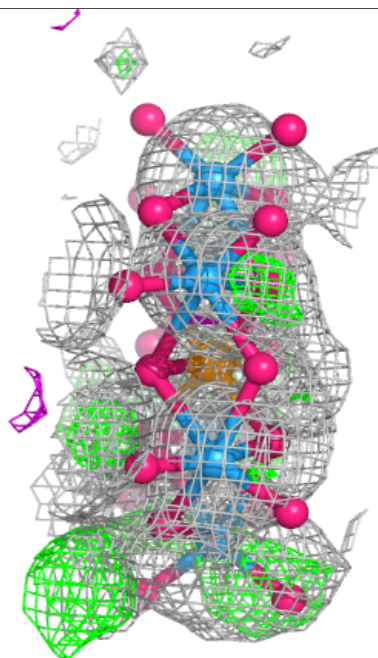
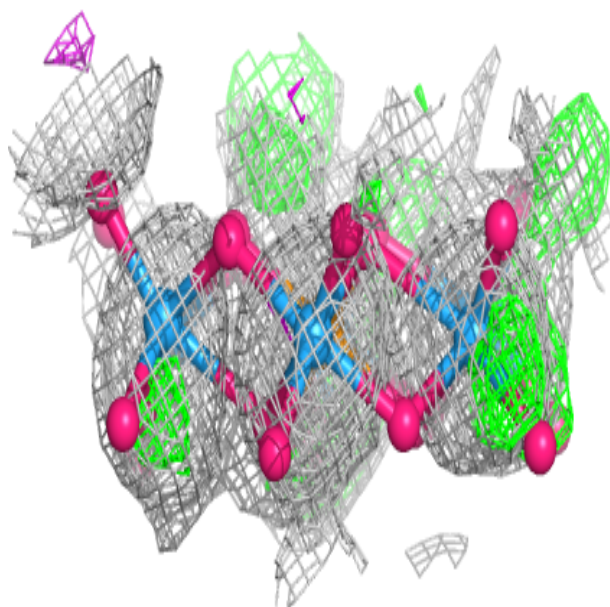
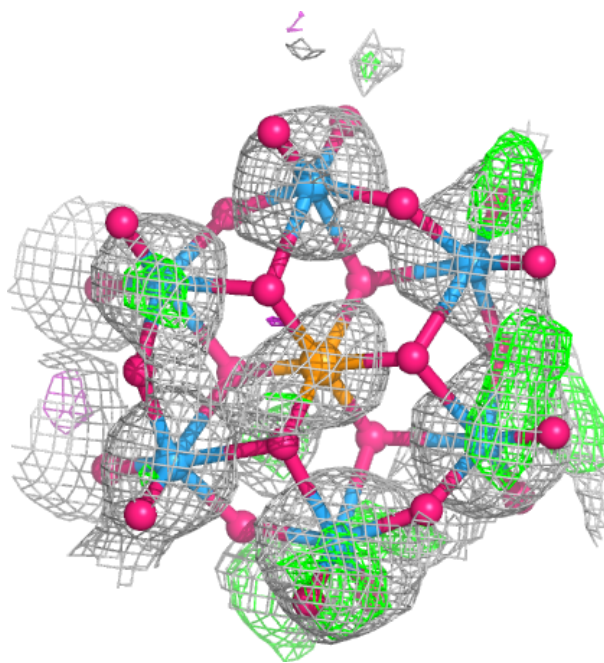
Electron density around TEW A 202:

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



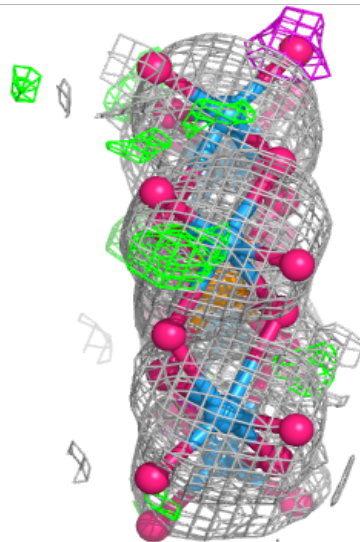
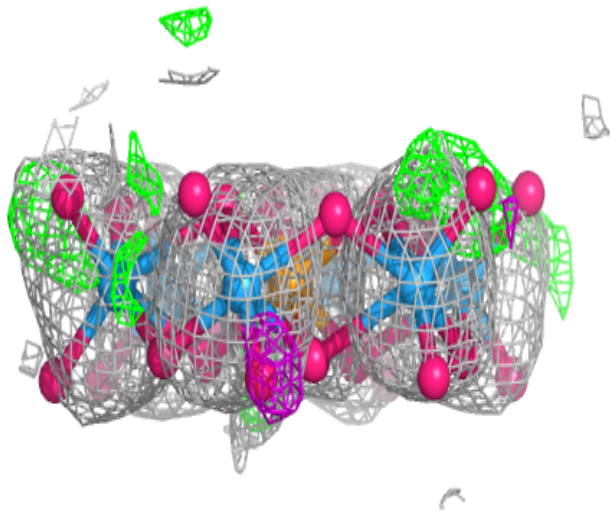
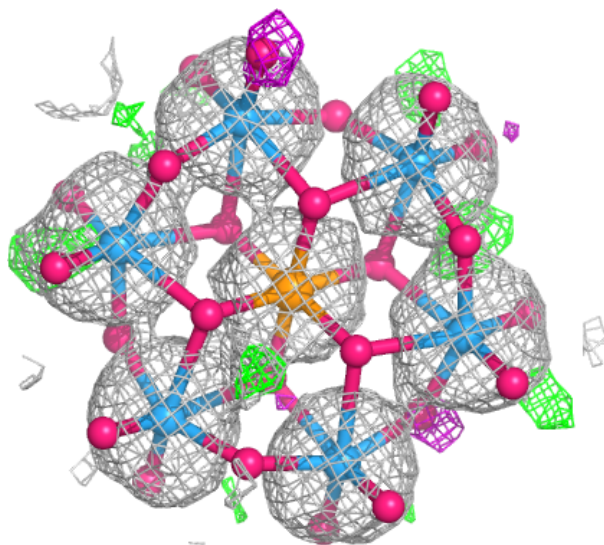
Electron density around TEW B 203:

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



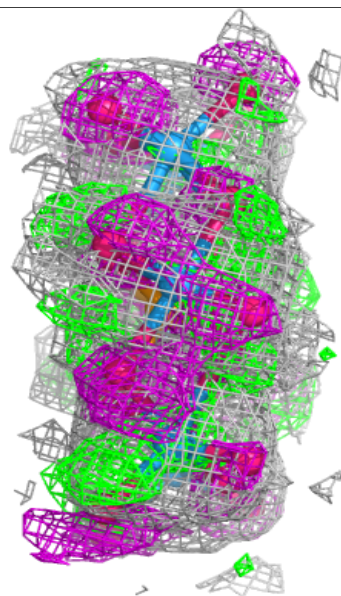
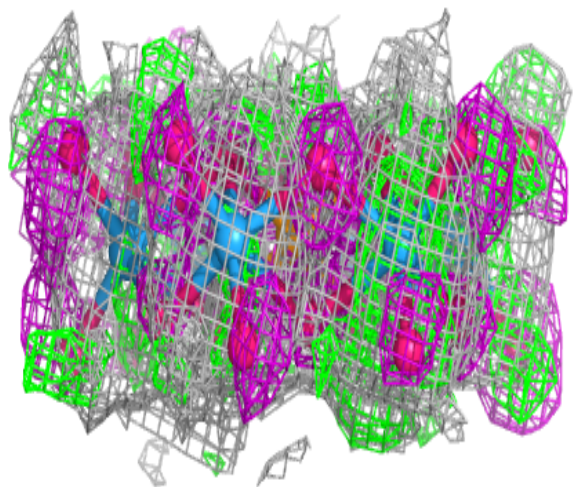
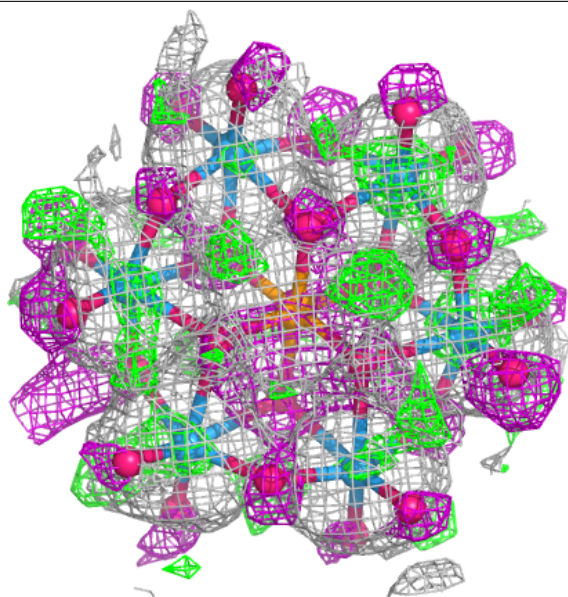
Electron density around TEW B 202:

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



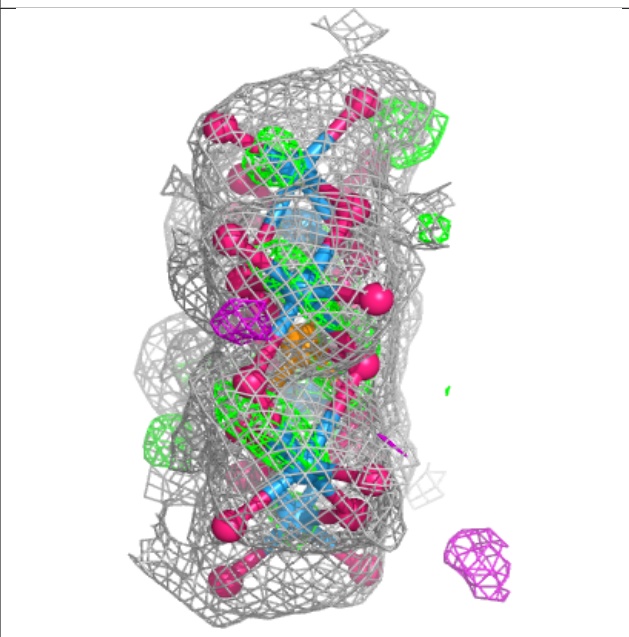
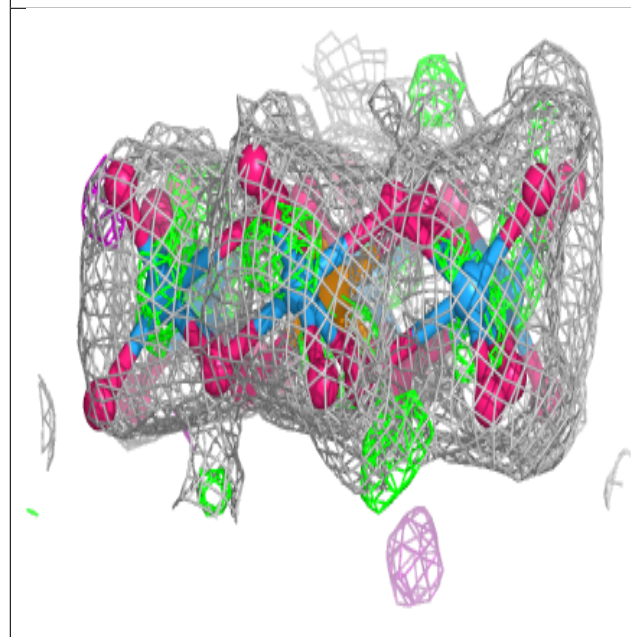
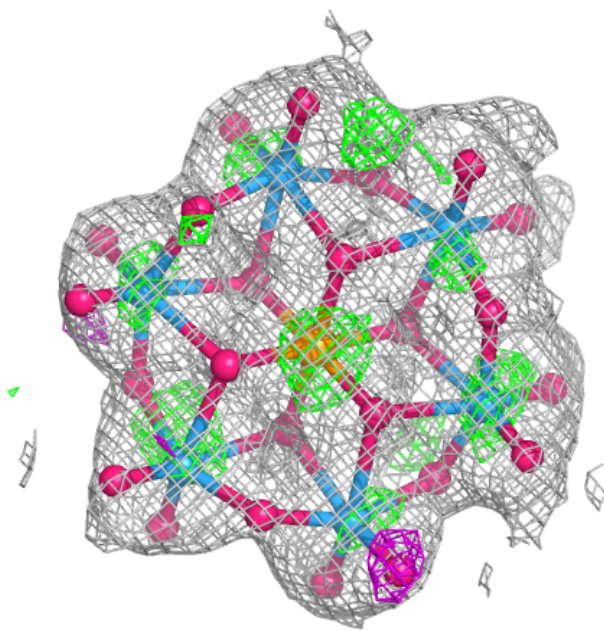
Electron density around TEW A 201:

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



Electron density around TEW B 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 ⓘ

There are no such residues in this entry.