



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 5, 2022 – 08:12 PM JST

PDB ID : 7VF7
Title : Crystal Structure of HasAp with Co-octaethylporphyrin
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Deposited on : 2021-09-10
Resolution : 1.35 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at <http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.30
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) : 2.30

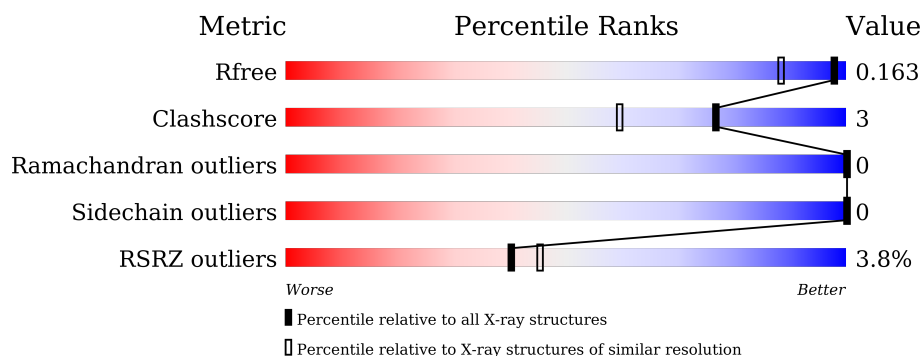
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.35 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	1509 (1.38-1.34)
Clashscore	141614	1551 (1.38-1.34)
Ramachandran outliers	138981	1530 (1.38-1.34)
Sidechain outliers	138945	1530 (1.38-1.34)
RSRZ outliers	127900	1487 (1.38-1.34)

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	184	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 1%, green 98%);"></div> <div style="display: flex; justify-content: space-between; width: 90%; margin: 0 auto;"> % 92% 8% </div> </div>
1	B	184	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 4%, orange 1%, yellow 1%, green 94%);"></div> <div style="display: flex; justify-content: space-between; width: 90%; margin: 0 auto;"> 4% 95% 5% </div> </div>
1	C	184	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 6%, orange 1%, yellow 1%, green 92%);"></div> <div style="display: flex; justify-content: space-between; width: 90%; margin: 0 auto;"> 6% 95% 5% </div> </div>

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	PEG	A	203	-	-	X	-

2 Entry composition [i](#)

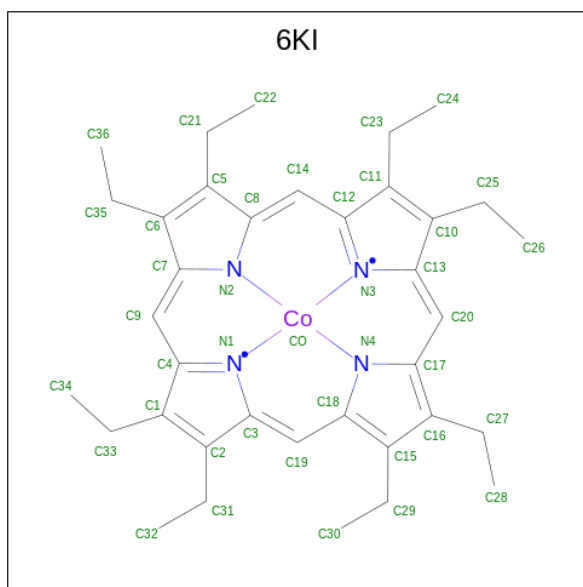
There are 5 unique types of molecules in this entry. The entry contains 5083 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Heme acquisition protein HasAp.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	183	Total	C	N	O	S	0	22	0
			1493	931	250	310	2			
1	B	183	Total	C	N	O	S	0	19	0
			1475	916	246	312	1			
1	C	183	Total	C	N	O	S	0	10	0
			1400	871	230	296	3			

- Molecule 2 is Co-octaethylporphyrin (three-letter code: 6KI) (formula: $C_{36}H_{44}CoN_4$) (labeled as "Ligand of Interest" by depositor).



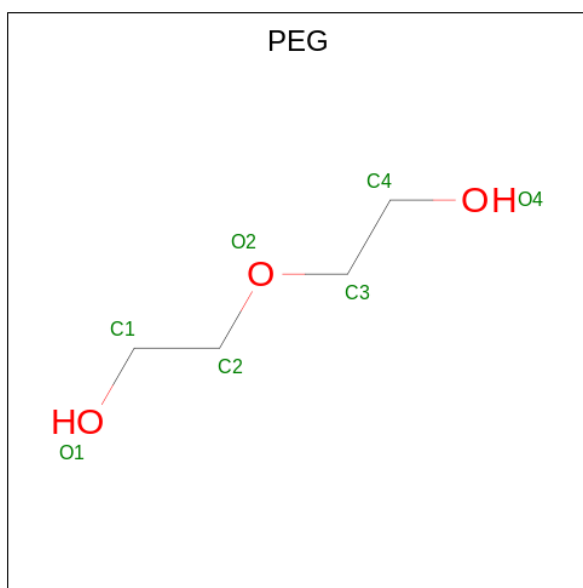
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	Co	N	0	1
			82	72	2	8		
2	B	1	Total	C	Co	N	0	1
			82	72	2	8		
2	C	1	Total	C	Co	N	0	0
			41	36	1	4		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			7	4	3		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	203	Total 203	O 203	0	0
5	B	149	Total 149	O 149	0	0
5	C	145	Total 145	O 145	0	0

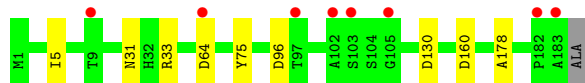
3 Residue-property plots

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.

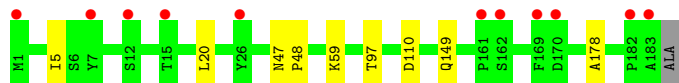
- Molecule 1: Heme acquisition protein HasAp



- Molecule 1: Heme acquisition protein HasAp



- Molecule 1: Heme acquisition protein HasAp



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	46.28Å 76.12Å 168.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.26 – 1.35 46.28 – 1.35	Depositor EDS
% Data completeness (in resolution range)	100.0 (45.26-1.35) 100.0 (46.28-1.35)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.72 (at 1.35Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.138 , 0.162 0.139 , 0.163	Depositor DCC
R_{free} test set	6531 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	20.0	Xtriage
Anisotropy	0.208	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 44.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	5083	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.92% 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: PEG, GOL, 6KI

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	0.63	0/1529	0.70	0/2085
1	B	0.64	0/1509	0.71	0/2059
1	C	0.63	0/1433	0.69	0/1954
All	All	0.63	0/4471	0.70	0/6098

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	1493	0	1385	12	0
1	B	1475	0	1355	8	0
1	C	1400	0	1290	5	0
2	A	82	0	0	0	0
2	B	82	0	0	2	0
2	C	41	0	0	0	0
3	A	6	0	8	0	0
4	A	7	0	10	4	0
5	A	203	0	0	3	0
5	B	149	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	145	0	0	1	0
All	All	5083	0	4048	26	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 3.

All (26) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:ARG:HH22	4:A:203:PEG:H22	1.20	1.06
1:B:96:ASP:OD1	5:B:301:HOH:O	2.08	0.70
1:A:129:ARG:NH2	4:A:203:PEG:H22	2.01	0.69
1:A:30[B]:VAL:HG22	1:A:42:ASN:HB2	1.86	0.58
1:C:59:LYS:HG3	5:C:305:HOH:O	2.07	0.55
1:A:30[B]:VAL:HG22	1:A:42:ASN:CB	2.37	0.54
1:A:31[A]:ASN:OD1	1:A:33[A]:ARG:HD2	2.09	0.53
1:A:36[B]:GLN:NE2	5:A:303:HOH:O	2.42	0.53
1:B:64:ASP:HB2	5:B:391:HOH:O	2.09	0.52
1:A:129:ARG:HH12	4:A:203:PEG:H41	1.74	0.52
1:C:97:THR:HB	1:C:110[A]:ASP:HB2	1.91	0.51
1:B:31:ASN:OD1	1:B:33[A]:ARG:NH2	2.46	0.49
1:C:20:LEU:HD12	1:C:149:GLN:HG2	1.95	0.49
4:A:203:PEG:H21	5:A:471:HOH:O	2.13	0.48
2:B:201[B]:6KI:C9	2:B:201[B]:6KI:C36	2.91	0.48
1:A:23[B]:TRP:CE3	1:A:94[B]:LEU:HD23	2.49	0.48
1:A:30[B]:VAL:HG23	1:A:61:THR:HG23	1.95	0.48
1:A:96:ASP:OD2	1:B:130:ASP:OD2	2.33	0.46
1:A:24[A]:SER:OG	1:A:145:SER:HB3	2.14	0.46
5:A:306:HOH:O	1:B:33[B]:ARG:HG3	2.15	0.46
1:B:5:ILE:O	1:B:178:ALA:HA	2.16	0.46
1:A:148:LEU:O	1:A:152[B]:ILE:HG12	2.19	0.42
1:B:160[A]:ASP:C	1:B:160[A]:ASP:OD1	2.57	0.42
1:C:5:ILE:O	1:C:178:ALA:HA	2.19	0.42
1:C:47:ASN:HA	1:C:48[A]:PRO:HA	1.88	0.40
1:B:75:TYR:CE1	2:B:201[B]:6KI:C18	3.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	203/184 (110%)	198 (98%)	5 (2%)	0	100	100
1	B	200/184 (109%)	193 (96%)	7 (4%)	0	100	100
1	C	191/184 (104%)	187 (98%)	4 (2%)	0	100	100
All	All	594/552 (108%)	578 (97%)	16 (3%)	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	161/139 (116%)	161 (100%)	0	100	100
1	B	157/139 (113%)	157 (100%)	0	100	100
1	C	149/139 (107%)	149 (100%)	0	100	100
All	All	467/417 (112%)	467 (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. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

7 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	6KI	B	201[A]	1	43,48,48	0.69	0	51,78,78	1.18	4 (7%)
2	6KI	C	201	1	43,48,48	0.67	0	51,78,78	1.29	6 (11%)
4	PEG	A	203	-	6,6,6	0.24	0	5,5,5	0.23	0
2	6KI	A	201[B]	1	43,48,48	0.64	1 (2%)	51,78,78	1.04	2 (3%)
3	GOL	A	202	-	5,5,5	0.19	0	5,5,5	0.41	0
2	6KI	A	201[A]	1	43,48,48	0.63	1 (2%)	51,78,78	0.75	0
2	6KI	B	201[B]	1	43,48,48	0.64	0	51,78,78	1.13	5 (9%)

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	6KI	B	201[A]	1	-	2/16/56/56	-
2	6KI	C	201	1	-	2/16/56/56	-
4	PEG	A	203	-	-	3/4/4/4	-
2	6KI	A	201[B]	1	-	2/16/56/56	-
3	GOL	A	202	-	-	0/4/4/4	-
2	6KI	A	201[A]	1	-	2/16/56/56	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	6KI	B	201[B]	1	-	4/16/56/56	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	201[B]	6KI	C19-C3	2.10	1.40	1.35
2	A	201[A]	6KI	C19-C3	2.03	1.40	1.35

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	201	6KI	C36-C35-C6	3.72	122.68	112.43
2	B	201[B]	6KI	C30-C29-C15	3.63	121.51	112.27
2	B	201[A]	6KI	C29-C15-C16	3.08	134.59	124.90
2	C	201	6KI	C35-C6-C5	2.80	133.35	127.45
2	B	201[A]	6KI	C30-C29-C15	2.74	119.24	112.27
2	B	201[B]	6KI	C11-C12-N3	2.52	113.34	110.93
2	B	201[B]	6KI	C13-N3-C12	-2.45	102.48	105.05
2	B	201[B]	6KI	C27-C16-C15	2.40	132.46	124.90
2	B	201[A]	6KI	C35-C6-C5	2.29	132.27	127.45
2	A	201[B]	6KI	C33-C1-C2	2.28	132.24	127.45
2	A	201[B]	6KI	C33-C1-C4	-2.22	121.94	124.81
2	C	201	6KI	C3-N1-C4	-2.14	102.81	105.05
2	B	201[A]	6KI	C22-C21-C5	-2.13	106.56	112.43
2	B	201[B]	6KI	C36-C35-C6	2.11	118.26	112.43
2	C	201	6KI	C6-C7-N2	2.07	112.61	110.81
2	C	201	6KI	C7-C6-C5	-2.02	104.52	106.86
2	C	201	6KI	C1-C4-N1	2.00	112.84	110.93

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	201[A]	6KI	C18-C15-C29-C30
2	B	201[A]	6KI	C16-C15-C29-C30
2	B	201[B]	6KI	C36-C35-C6-C7
2	B	201[B]	6KI	C15-C16-C27-C28
2	B	201[B]	6KI	C36-C35-C6-C5
2	A	201[B]	6KI	C2-C1-C33-C34
2	C	201	6KI	C36-C35-C6-C5
2	C	201	6KI	C36-C35-C6-C7

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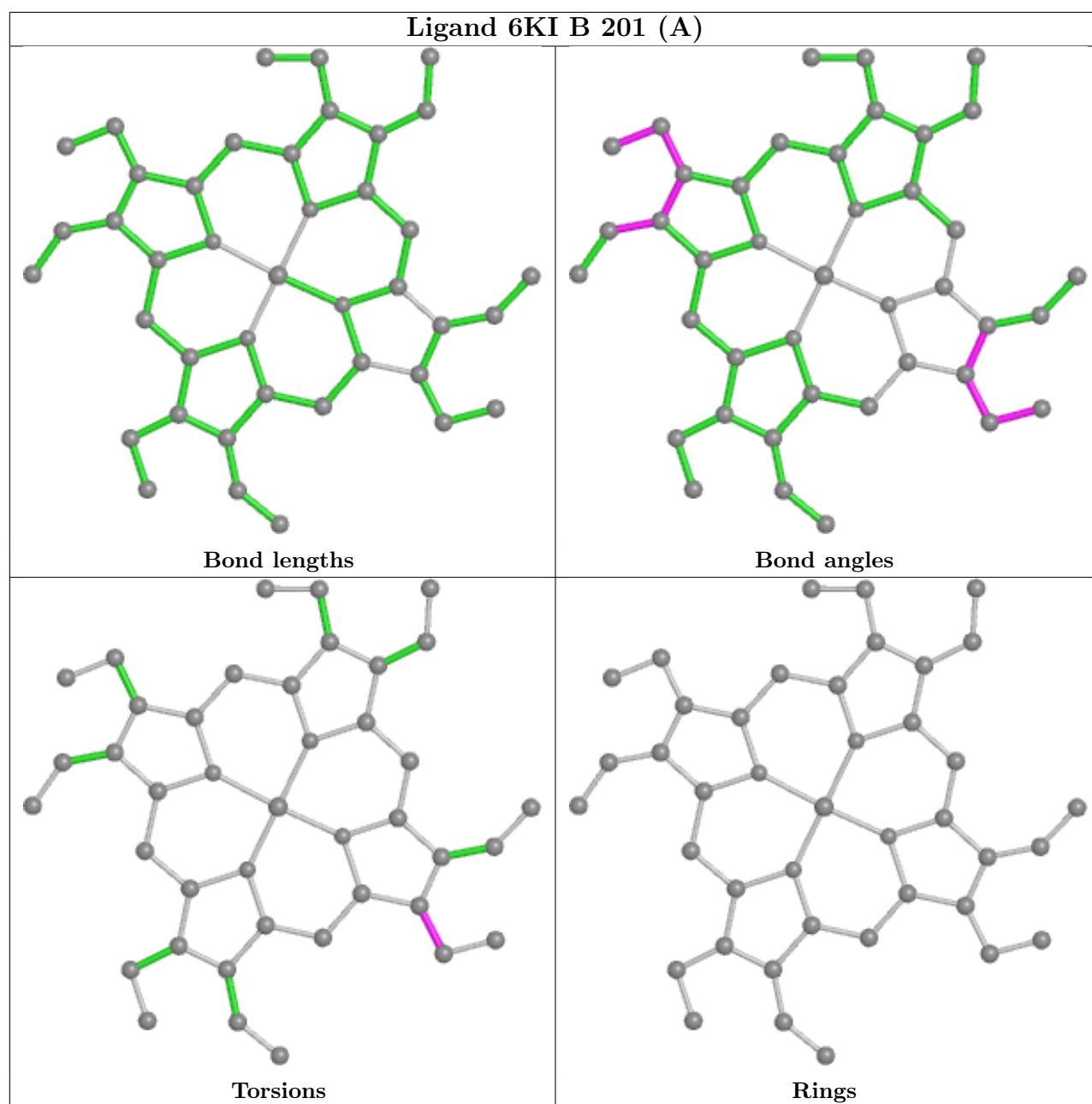
Mol	Chain	Res	Type	Atoms
2	A	201[B]	6KI	C4-C1-C33-C34
2	A	201[A]	6KI	C4-C1-C33-C34
2	A	201[A]	6KI	C2-C1-C33-C34
2	B	201[B]	6KI	C17-C16-C27-C28
4	A	203	PEG	C1-C2-O2-C3
4	A	203	PEG	C4-C3-O2-C2
4	A	203	PEG	O1-C1-C2-O2

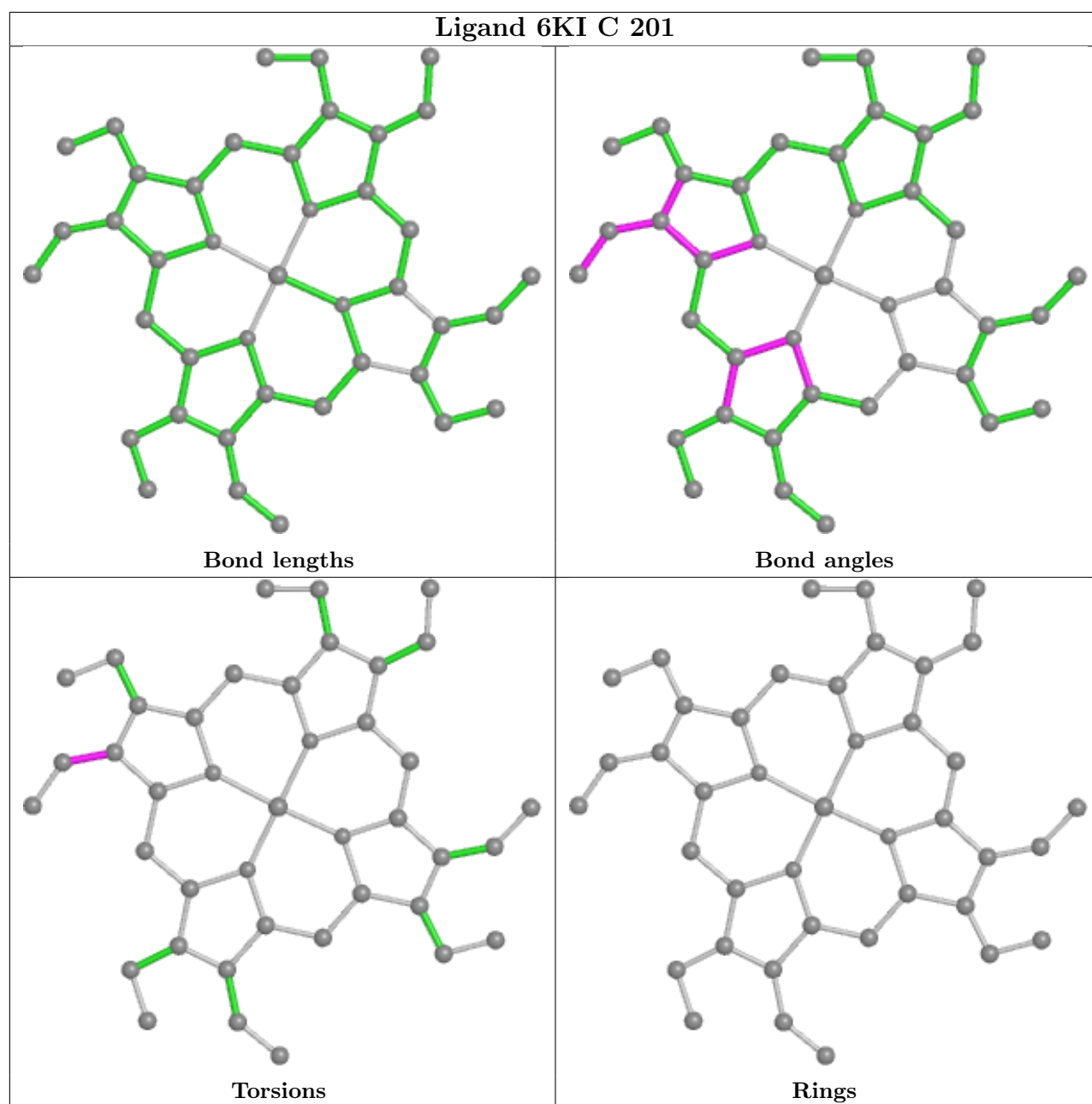
There are no ring outliers.

2 monomers are involved in 6 short contacts:

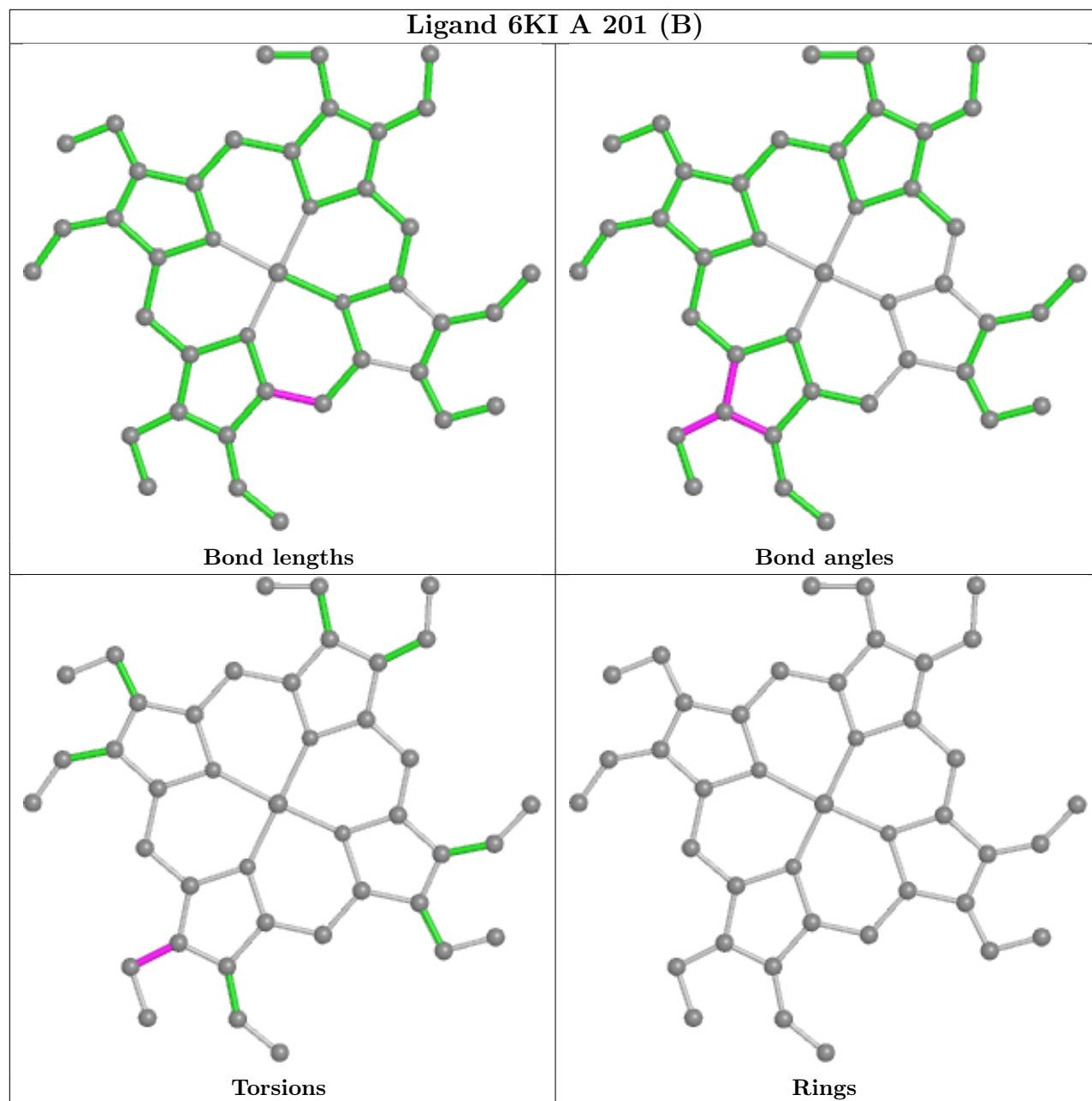
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	203	PEG	4	0
2	B	201[B]	6KI	2	0

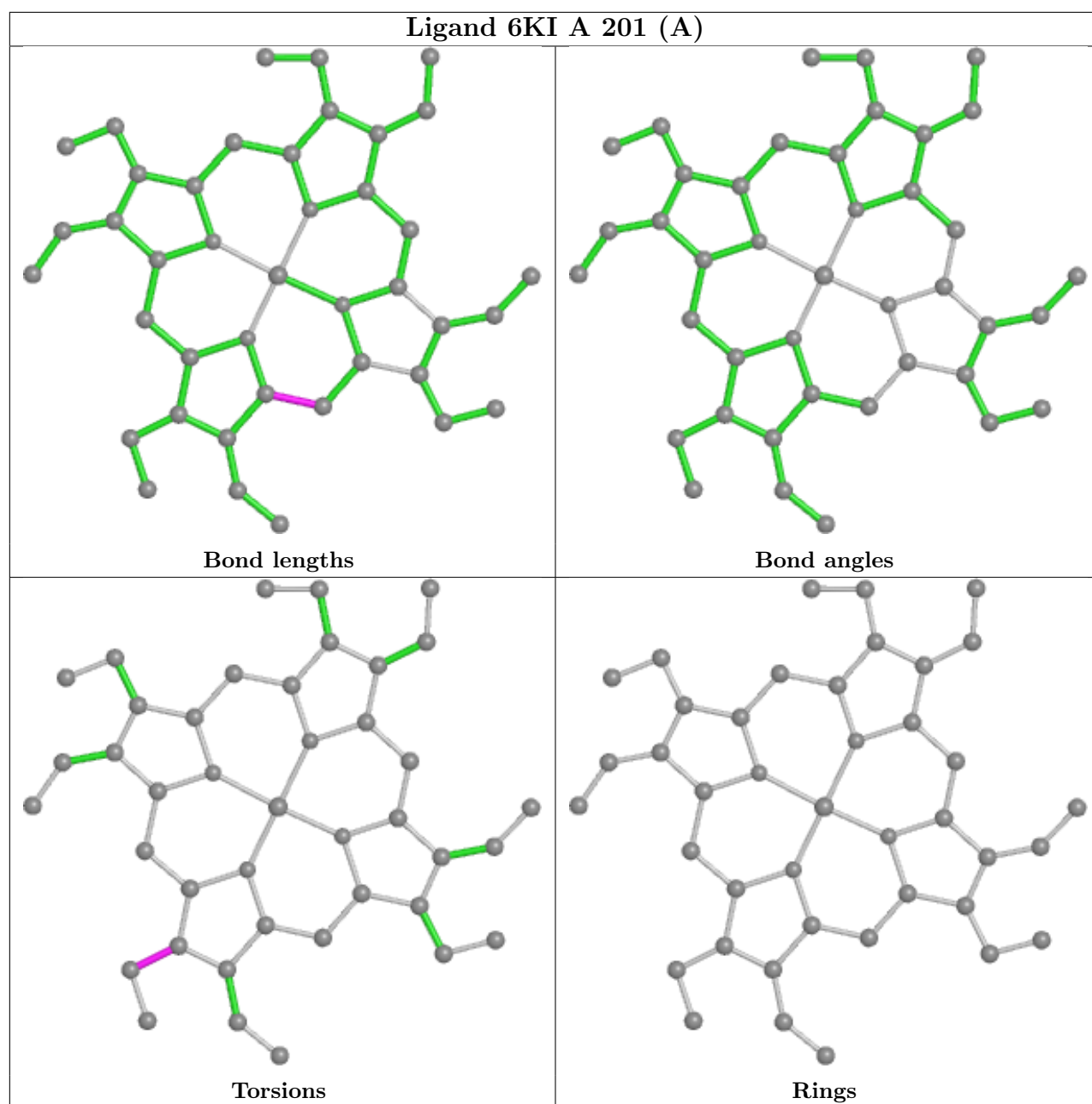
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

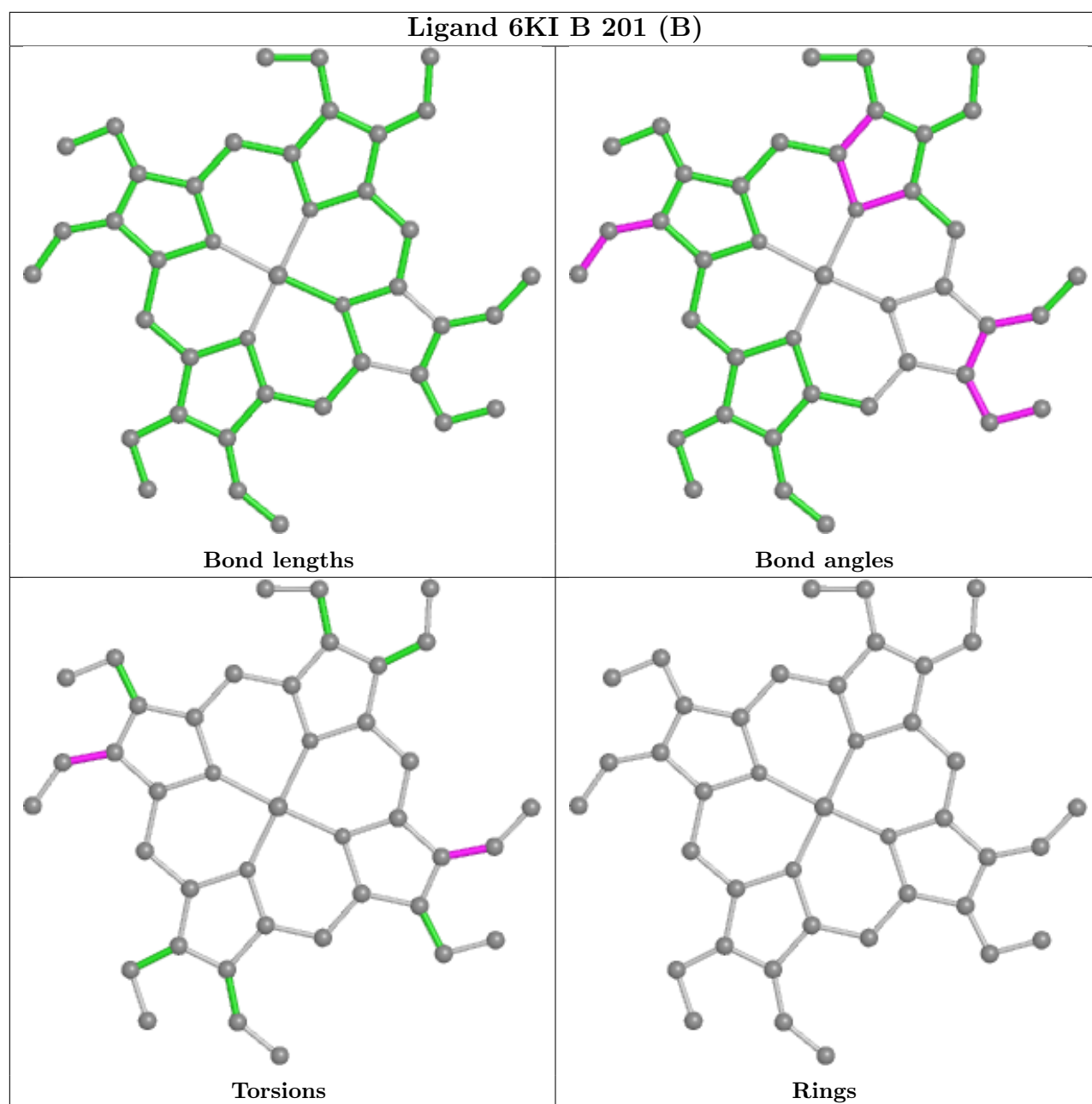




Ligand 6KI A 201 (B)







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	183/184 (99%)	-0.01	2 (1%) 80 84	15, 20, 31, 52	0
1	B	183/184 (99%)	0.15	8 (4%) 34 39	15, 23, 46, 66	0
1	C	183/184 (99%)	0.22	11 (6%) 21 24	16, 26, 43, 69	0
All	All	549/552 (99%)	0.12	21 (3%) 40 45	15, 23, 44, 69	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	182	PRO	6.2
1	B	105	GLY	5.0
1	C	26	TYR	4.9
1	C	183	ALA	3.7
1	B	103	SER	3.0
1	B	97	THR	2.8
1	C	1	MET	2.8
1	C	161	PRO	2.7
1	A	105	GLY	2.7
1	B	182	PRO	2.6
1	B	9	THR	2.5
1	B	64	ASP	2.4
1	B	102	ALA	2.4
1	B	183	ALA	2.2
1	C	12	SER	2.2
1	C	162	SER	2.2
1	C	7	TYR	2.1
1	C	169	PHE	2.1
1	A	1	MET	2.1
1	C	170[A]	ASP	2.0
1	C	15	THR	2.0

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](#)

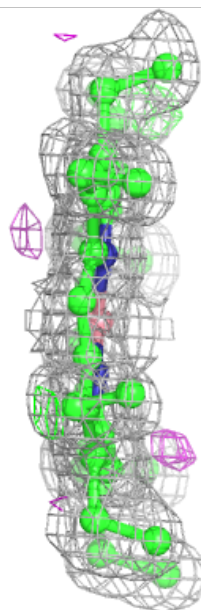
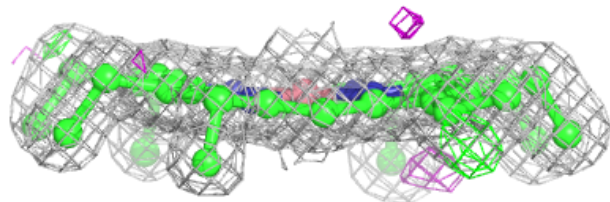
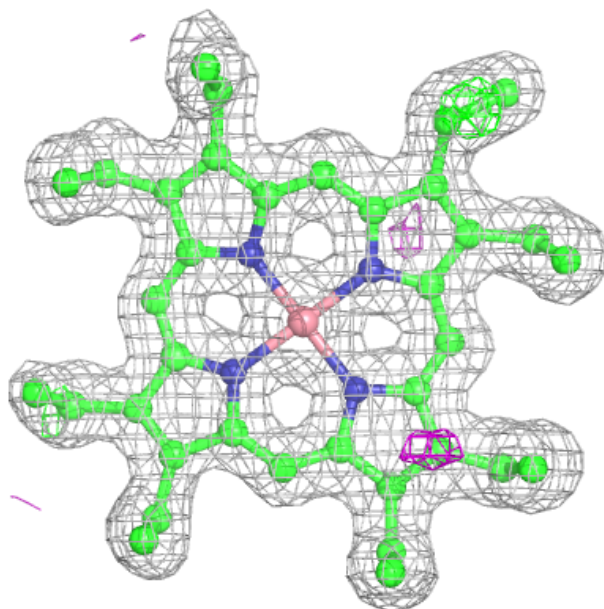
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	PEG	A	203	7/7	0.84	0.12	29,43,52,56	0
3	GOL	A	202	6/6	0.88	0.14	20,34,38,43	0
2	6KI	C	201	41/41	0.97	0.08	17,21,30,32	0
2	6KI	B	201[B]	41/41	0.98	0.10	14,16,24,27	41
2	6KI	A	201[A]	41/41	0.98	0.09	13,14,16,19	41
2	6KI	A	201[B]	41/41	0.98	0.09	14,15,18,19	41
2	6KI	B	201[A]	41/41	0.98	0.10	14,16,19,21	41

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.

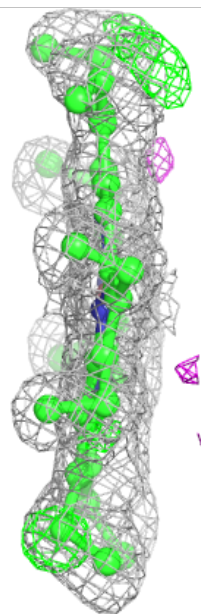
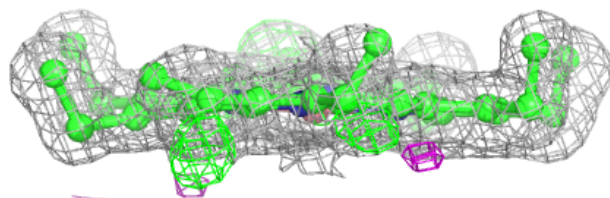
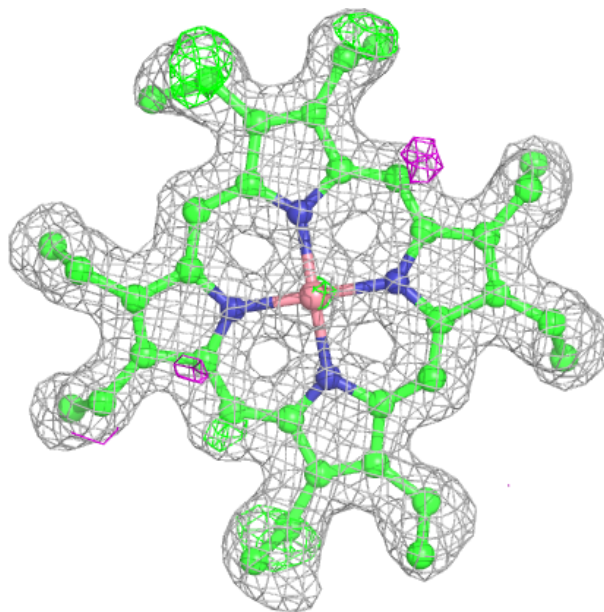
Electron density around 6KI C 201:

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



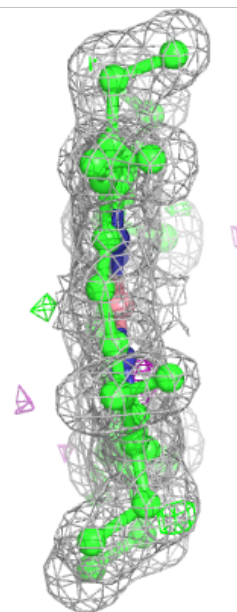
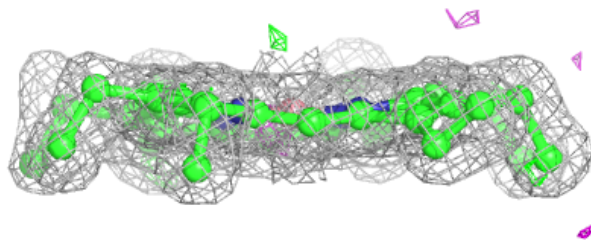
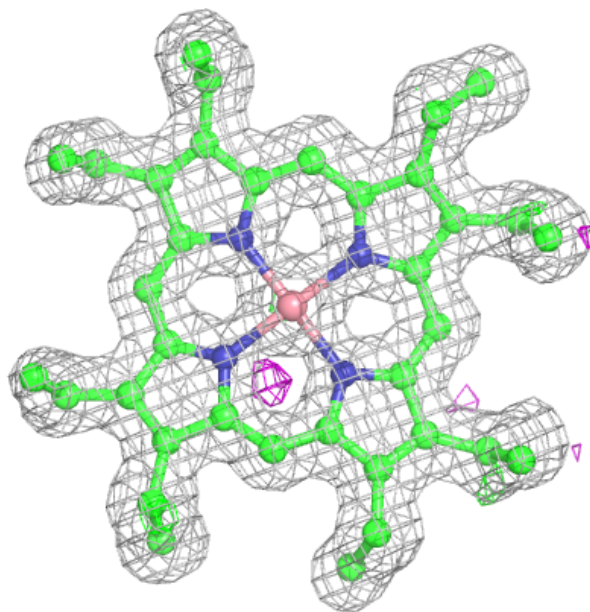
Electron density around 6KI B 201 (B):

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



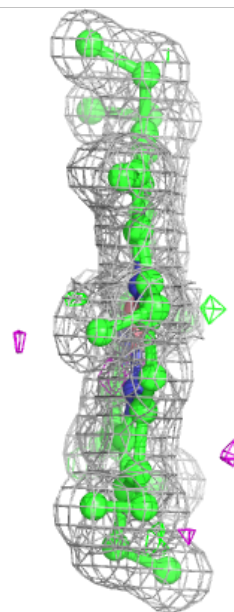
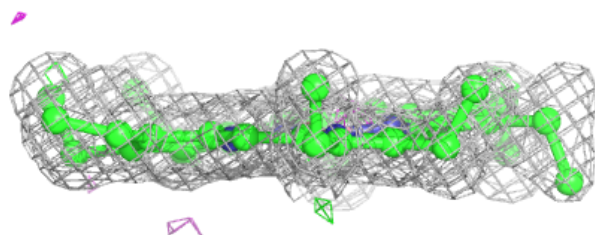
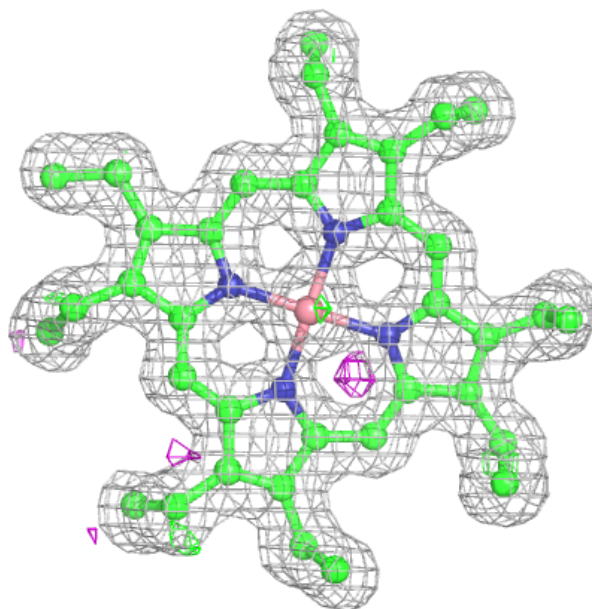
Electron density around 6KI A 201 (A):

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



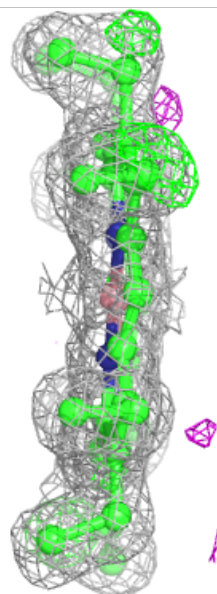
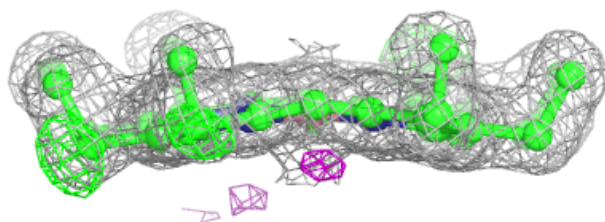
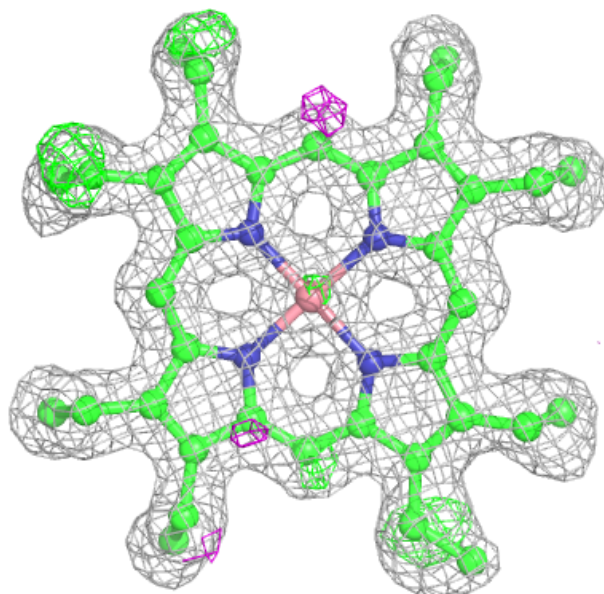
Electron density around 6KI A 201 (B):

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



Electron density around 6KI B 201 (A):

$2mF_o-DF_c$ (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.