



Full wwPDB X-ray Structure Validation Report ⓘ

Jul 16, 2026 – 04:15 pm BST

PDB ID : 30TW / pdb_000030tw
Title : Crystal structure of Sphingobium lactosutens styrene-oxide isomerase with unknown ligand
Authors : Bloch, Y.; Kovalev, K.
Deposited on : 2026-05-13
Resolution : 1.70 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	:	4-5-2 with Phenix2.0
Mogul	:	1.8.4, CSD as541be (2020)
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	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

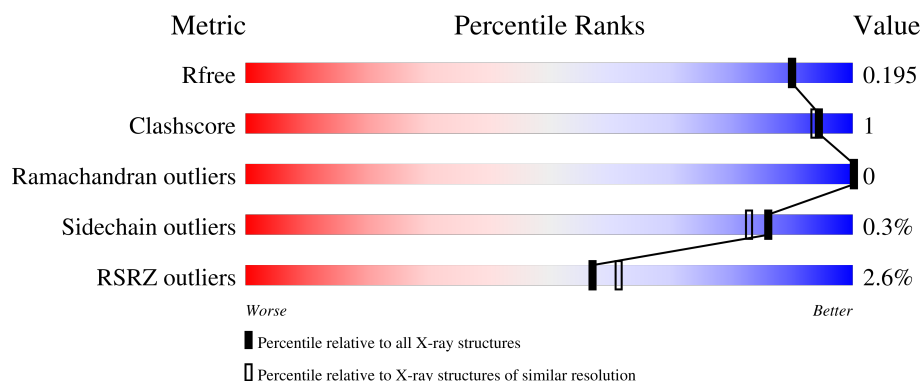
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	188	% 86% 11%
1	B	188	3% 85% 11%
1	C	188	3% 86% 11%

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
2	LFA	C	210	-	-	X	-

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 9707 atoms, of which 4868 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 Styrene-oxide isomerase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	167	Total	C	H	N	O	S	0	7	0
			2699	894	1359	226	212	8			
1	B	167	Total	C	H	N	O	S	0	4	0
			2657	883	1334	222	211	7			
1	C	167	Total	C	H	N	O	S	0	4	0
			2660	884	1338	221	210	7			

There are 60 discrepancies between the modelled and reference sequences:

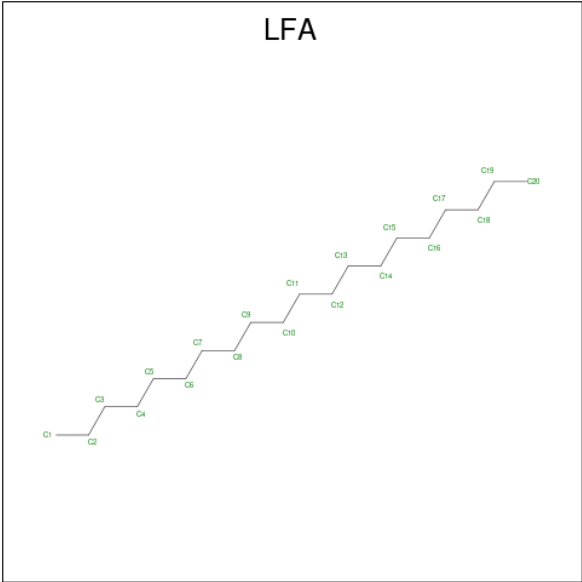
Chain	Residue	Modelled	Actual	Comment	Reference
A	-6	MET	-	initiating methionine	UNP T0HHY7
A	-5	GLY	-	expression tag	UNP T0HHY7
A	-4	HIS	-	expression tag	UNP T0HHY7
A	-3	HIS	-	expression tag	UNP T0HHY7
A	-2	HIS	-	expression tag	UNP T0HHY7
A	-1	HIS	-	expression tag	UNP T0HHY7
A	0	HIS	-	expression tag	UNP T0HHY7
A	1	HIS	-	expression tag	UNP T0HHY7
A	2	GLY	-	expression tag	UNP T0HHY7
A	3	LEU	-	expression tag	UNP T0HHY7
A	4	GLU	-	expression tag	UNP T0HHY7
A	5	VAL	-	expression tag	UNP T0HHY7
A	6	LEU	-	expression tag	UNP T0HHY7
A	7	PHE	-	expression tag	UNP T0HHY7
A	8	GLN	-	expression tag	UNP T0HHY7
A	9	GLY	-	expression tag	UNP T0HHY7
A	10	PRO	-	expression tag	UNP T0HHY7
A	11	GLY	-	expression tag	UNP T0HHY7
A	12	THR	-	expression tag	UNP T0HHY7
A	13	MET	-	expression tag	UNP T0HHY7
B	-6	MET	-	initiating methionine	UNP T0HHY7
B	-5	GLY	-	expression tag	UNP T0HHY7
B	-4	HIS	-	expression tag	UNP T0HHY7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-3	HIS	-	expression tag	UNP T0HHY7
B	-2	HIS	-	expression tag	UNP T0HHY7
B	-1	HIS	-	expression tag	UNP T0HHY7
B	0	HIS	-	expression tag	UNP T0HHY7
B	1	HIS	-	expression tag	UNP T0HHY7
B	2	GLY	-	expression tag	UNP T0HHY7
B	3	LEU	-	expression tag	UNP T0HHY7
B	4	GLU	-	expression tag	UNP T0HHY7
B	5	VAL	-	expression tag	UNP T0HHY7
B	6	LEU	-	expression tag	UNP T0HHY7
B	7	PHE	-	expression tag	UNP T0HHY7
B	8	GLN	-	expression tag	UNP T0HHY7
B	9	GLY	-	expression tag	UNP T0HHY7
B	10	PRO	-	expression tag	UNP T0HHY7
B	11	GLY	-	expression tag	UNP T0HHY7
B	12	THR	-	expression tag	UNP T0HHY7
B	13	MET	-	expression tag	UNP T0HHY7
C	-6	MET	-	initiating methionine	UNP T0HHY7
C	-5	GLY	-	expression tag	UNP T0HHY7
C	-4	HIS	-	expression tag	UNP T0HHY7
C	-3	HIS	-	expression tag	UNP T0HHY7
C	-2	HIS	-	expression tag	UNP T0HHY7
C	-1	HIS	-	expression tag	UNP T0HHY7
C	0	HIS	-	expression tag	UNP T0HHY7
C	1	HIS	-	expression tag	UNP T0HHY7
C	2	GLY	-	expression tag	UNP T0HHY7
C	3	LEU	-	expression tag	UNP T0HHY7
C	4	GLU	-	expression tag	UNP T0HHY7
C	5	VAL	-	expression tag	UNP T0HHY7
C	6	LEU	-	expression tag	UNP T0HHY7
C	7	PHE	-	expression tag	UNP T0HHY7
C	8	GLN	-	expression tag	UNP T0HHY7
C	9	GLY	-	expression tag	UNP T0HHY7
C	10	PRO	-	expression tag	UNP T0HHY7
C	11	GLY	-	expression tag	UNP T0HHY7
C	12	THR	-	expression tag	UNP T0HHY7
C	13	MET	-	expression tag	UNP T0HHY7

- Molecule 2 is EICOSANE (CCD ID: LFA) (formula: C₂₀H₄₂).



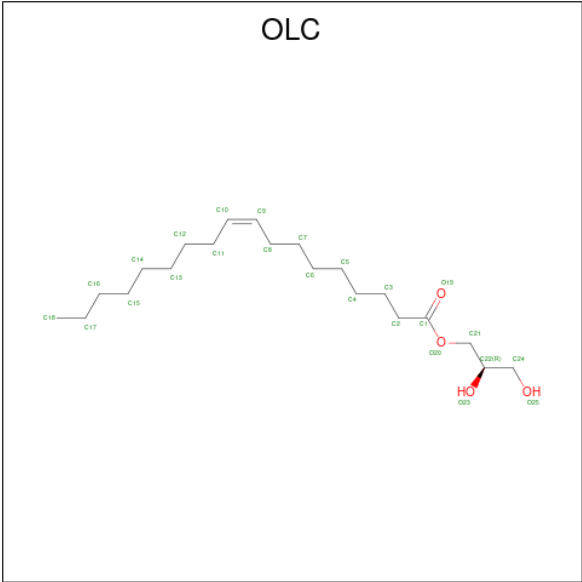
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	H	0	0
			35	12	23		
2	A	1	Total	C	H	0	0
			35	12	23		
2	A	1	Total	C	H	0	0
			20	7	13		
2	A	1	Total	C	H	0	0
			35	12	23		
2	A	1	Total	C	H	0	0
			32	11	21		
2	A	1	Total	C	H	0	0
			23	8	15		
2	A	1	Total	C	H	0	0
			46	15	31		
2	A	1	Total	C	H	0	0
			40	13	27		
2	A	1	Total	C	H	0	0
			14	5	9		
2	B	1	Total	C	H	0	0
			32	11	21		
2	B	1	Total	C	H	0	0
			29	10	19		
2	B	1	Total	C	H	0	0
			20	7	13		
2	B	1	Total	C	H	0	0
			20	7	13		
2	B	1	Total	C	H	0	0
			14	6	8		

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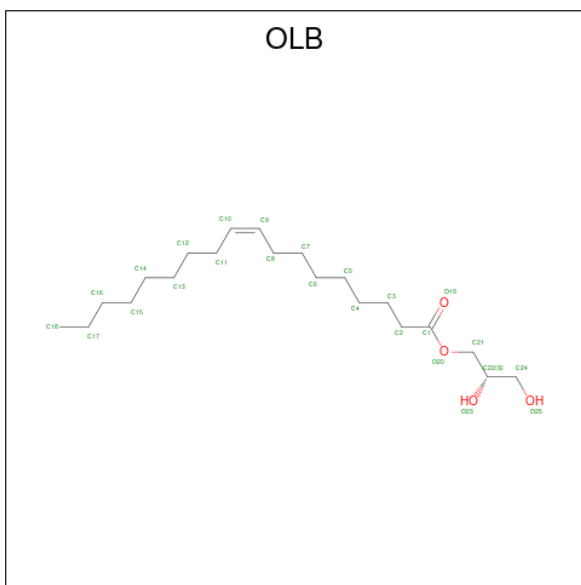
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	H	0	0
			20	7	13		
2	B	1	Total	C	H	0	0
			50	17	33		
2	B	1	Total	C	H	0	0
			20	7	13		
2	B	1	Total	C	H	0	0
			38	13	25		
2	B	1	Total	C	H	0	0
			28	9	19		
2	B	1	Total	C	H	0	0
			40	13	27		
2	B	1	Total	C	H	0	0
			20	7	13		
2	C	1	Total	C	H	0	0
			23	8	15		
2	C	1	Total	C	H	0	0
			23	8	15		
2	C	1	Total	C	H	0	0
			29	10	19		
2	C	1	Total	C	H	0	0
			14	5	9		
2	C	1	Total	C	H	0	0
			14	5	9		
2	C	1	Total	C	H	0	0
			20	7	13		
2	C	1	Total	C	H	0	0
			40	13	27		
2	C	1	Total	C	H	0	0
			28	9	19		
2	C	1	Total	C	H	0	0
			34	11	23		
2	C	1	Total	C	H	0	0
			22	7	15		

- Molecule 3 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (CCD ID: OLC) (formula: $C_{21}H_{40}O_4$).



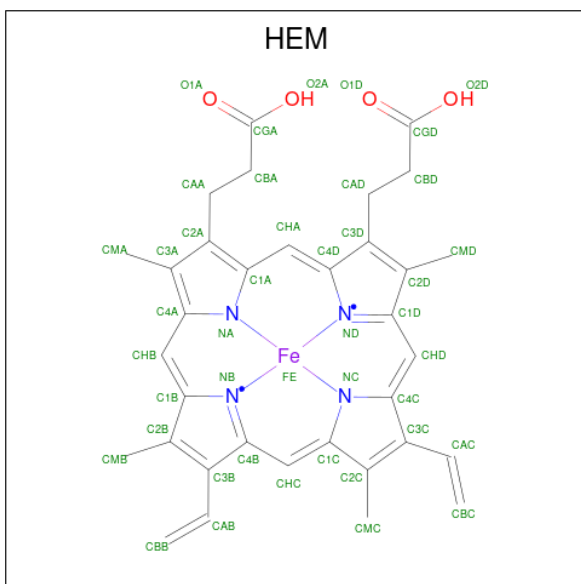
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			53	18	31	4		
3	B	1	Total	C	H	O	0	0
			22	7	11	4		
3	B	1	Total	C	H	O	0	0
			31	10	17	4		
3	C	1	Total	C	H	O	0	0
			25	8	13	4		
3	C	1	Total	C	H	O	0	0
			28	9	15	4		
3	C	1	Total	C	H	O	0	0
			37	12	21	4		

- Molecule 4 is (2S)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (CCD ID: OLB) (formula: C₂₁H₄₀O₄).



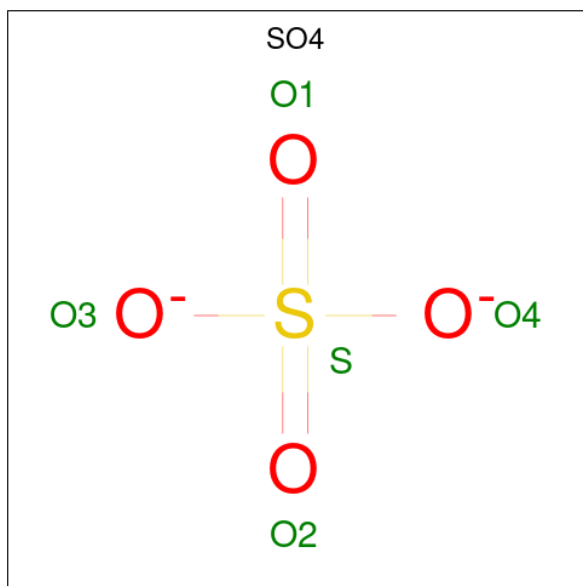
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total 22	C 7	H 11	O 4	0	0
4	A	1	Total 58	C 19	H 35	O 4	0	0
4	C	1	Total 46	C 15	H 27	O 4	0	0

- Molecule 5 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula: $\text{C}_{34}\text{H}_{32}\text{FeN}_4\text{O}_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
5	A	1	Total	C	Fe	H	N	O	0	0
			73	34	1	30	4	4		
5	B	1	Total	C	Fe	H	N	O	0	0
			73	34	1	30	4	4		
5	C	1	Total	C	Fe	H	N	O	0	0
			73	34	1	30	4	4		

- Molecule 6 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	O	S	0	0
			5	4	1		
6	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 7 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	B	1	Total	Cl	0	0
			1	1		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	97	Total	O	0	0
			97	97		

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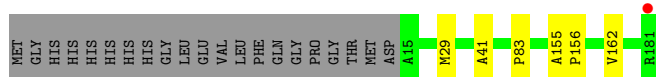
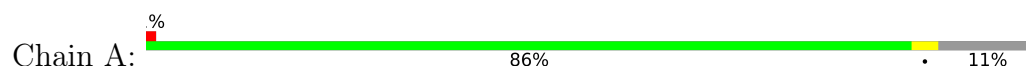
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	B	95	Total	O	0	0
			95	95		
8	C	89	Total	O	0	0
			89	89		

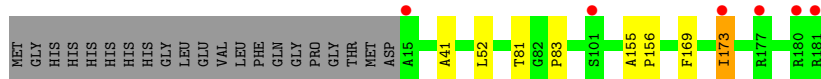
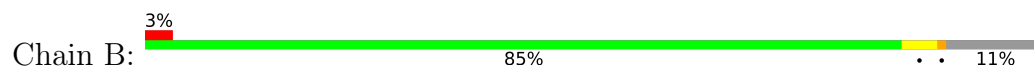
3 Residue-property plots [i](#)

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.

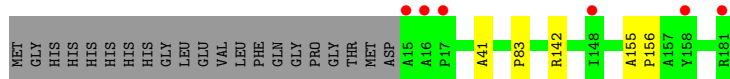
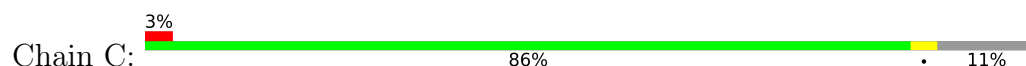
- Molecule 1: Styrene-oxide isomerase



- Molecule 1: Styrene-oxide isomerase



- Molecule 1: Styrene-oxide isomerase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	95.81Å 99.32Å 60.33Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	24.82 – 1.70 24.82 – 1.70	Depositor EDS
% Data completeness (in resolution range)	99.7 (24.82-1.70) 99.6 (24.82-1.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.14 (at 1.70Å)	Xtriage
Refinement program	BUSTER 2.10.4	Depositor
R, R_{free}	0.184 , 0.204 0.180 , 0.195	Depositor DCC
R_{free} test set	3279 reflections (5.10%)	wwPDB-VP
Wilson B-factor (Å ²)	24.2	Xtriage
Anisotropy	0.381	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 46.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.014 for k,h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9707	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 6.54% 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: OLB, OLC, LFA, HEM, CL, SO4

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	0.77	0/1401	0.67	0/1902
1	B	0.78	0/1377	0.69	0/1871
1	C	0.77	0/1371	0.69	0/1865
All	All	0.77	0/4149	0.68	0/5638

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	1340	1359	1340	4	0
1	B	1323	1334	1322	5	0
1	C	1322	1338	1333	3	0
2	A	95	185	181	1	0
2	B	114	217	213	0	0
2	C	83	164	156	0	26
3	A	22	31	31	0	0
3	B	25	28	28	0	0
3	C	41	49	49	0	0
4	A	34	46	44	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	19	27	25	0	0
5	A	43	30	30	0	0
5	B	43	30	30	1	0
5	C	43	30	30	0	0
6	A	5	0	0	0	0
6	B	5	0	0	0	0
7	B	1	0	0	0	0
8	A	97	0	0	1	0
8	B	95	0	0	1	1
8	C	89	0	0	0	1
All	All	4839	4868	4812	12	27

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 1.

All (12) 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:41:ALA:HB2	1:C:83:PRO:HB2	1.86	0.57
1:B:41:ALA:HB2	1:B:83:PRO:HB2	1.87	0.57
1:B:169:PHE:O	1:B:173:ILE:HD13	2.04	0.57
1:A:41:ALA:HB2	1:A:83:PRO:HB2	1.89	0.54
1:B:52:LEU:O	1:C:142:ARG:HD2	2.08	0.53
5:B:214:HEM:HMC2	5:B:214:HEM:HBC2	1.91	0.53
1:B:81:THR:HG21	8:B:318:HOH:O	2.17	0.44
1:C:155:ALA:HB3	1:C:156:PRO:HD3	1.98	0.44
1:A:155:ALA:HB3	1:A:156:PRO:HD3	2.01	0.43
1:A:29[B]:MET:HE3	8:A:382:HOH:O	2.19	0.43
1:B:155:ALA:HB3	1:B:156:PRO:HD3	2.01	0.42
1:A:162:VAL:HG22	2:A:211:LFA:C10	2.49	0.41

All (27) 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)
2:C:210:LFA:C3	2:C:210:LFA:C3[2_555]	0.30	1.90
2:C:210:LFA:C6	2:C:210:LFA:C6[2_555]	0.64	1.56
2:C:210:LFA:C5	2:C:210:LFA:C5[2_555]	0.94	1.26
2:C:210:LFA:C1	2:C:210:LFA:H13[2_555]	0.44	1.16
2:C:210:LFA:C4	2:C:210:LFA:C5[2_555]	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:210:LFA:C4	2:C:210:LFA:C4[2_555]	1.22	0.98
2:C:210:LFA:C1	2:C:210:LFA:C1[2_555]	1.29	0.91
2:C:210:LFA:H41	2:C:210:LFA:H51[2_555]	0.71	0.89
2:C:210:LFA:C3	2:C:210:LFA:H31[2_555]	0.82	0.78
2:C:210:LFA:C6	2:C:210:LFA:C7[2_555]	1.49	0.71
2:C:210:LFA:C5	2:C:210:LFA:C6[2_555]	1.50	0.70
2:C:210:LFA:H12	2:C:210:LFA:H13[2_555]	0.91	0.69
2:C:210:LFA:C7	2:C:210:LFA:H61[2_555]	0.94	0.66
2:C:210:LFA:H13	2:C:210:LFA:H13[2_555]	0.94	0.66
2:C:210:LFA:C3	2:C:210:LFA:C4[2_555]	1.54	0.66
2:C:210:LFA:C6	2:C:210:LFA:H61[2_555]	0.97	0.63
2:C:210:LFA:C2	2:C:210:LFA:C3[2_555]	1.61	0.59
2:C:210:LFA:H42	2:C:210:LFA:H52[2_555]	1.07	0.53
2:C:210:LFA:C2	2:C:210:LFA:H31[2_555]	1.09	0.51
2:C:210:LFA:H31	2:C:210:LFA:H32[2_555]	1.24	0.36
2:C:210:LFA:H11	2:C:210:LFA:H13[2_555]	1.28	0.32
2:C:210:LFA:C3	2:C:210:LFA:H32[2_555]	1.30	0.30
2:C:210:LFA:C4	2:C:210:LFA:H52[2_555]	1.32	0.28
2:C:210:LFA:C5	2:C:210:LFA:H41[2_555]	1.33	0.27
2:C:210:LFA:C7	2:C:210:LFA:C7[2_555]	1.96	0.24
2:C:210:LFA:C4	2:C:210:LFA:H51[2_555]	1.47	0.13
8:B:311:HOH:O	8:C:303:HOH:O[4_555]	2.12	0.08

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	172/188 (92%)	170 (99%)	2 (1%)	0	100	100
1	B	169/188 (90%)	166 (98%)	3 (2%)	0	100	100
1	C	169/188 (90%)	167 (99%)	2 (1%)	0	100	100
All	All	510/564 (90%)	503 (99%)	7 (1%)	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	133/143 (93%)	133 (100%)	0	100	100
1	B	130/143 (91%)	129 (99%)	1 (1%)	73	65
1	C	129/143 (90%)	129 (100%)	0	100	100
All	All	392/429 (91%)	391 (100%)	1 (0%)	86	83

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	173	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	HIS
1	A	174	GLN
1	B	174	GLN
1	C	174	GLN

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 46 ligands modelled in this entry, 1 is monoatomic - leaving 45 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	LFA	C	207	-	4,4,19	0.13	0	3,3,18	0.22	0
3	OLC	C	209	-	15,15,24	0.25	0	16,16,25	0.24	0
2	LFA	B	205	-	6,6,19	0.12	0	5,5,18	0.11	0
2	LFA	C	212	-	8,8,19	0.10	0	7,7,18	0.07	0
2	LFA	C	211	-	12,12,19	0.11	0	11,11,18	0.05	0
4	OLB	A	206	-	10,10,24	0.26	0	11,11,25	0.29	0
2	LFA	B	210	-	6,6,19	0.15	0	5,5,18	0.07	0
2	LFA	B	207	-	6,6,19	0.13	0	5,5,18	0.07	0
3	OLC	C	206	-	12,12,24	0.25	0	13,13,25	0.28	0
2	LFA	A	211	-	12,12,19	0.11	0	11,11,18	0.07	0
2	LFA	B	203	-	9,9,19	0.10	0	8,8,18	0.06	0
2	LFA	C	210	-	6,6,19	0.12	0	5,5,18	0.09	0
5	HEM	B	214	1	50,50,50	1.13	7 (14%)	66,82,82	0.61	0
2	LFA	C	208	-	4,4,19	0.14	0	3,3,18	0.22	0
6	SO4	A	214	-	4,4,4	0.17	0	6,6,6	0.09	0
2	LFA	B	201	-	10,10,19	0.11	0	9,9,18	0.07	0
4	OLB	C	215	-	18,18,24	0.27	0	18,19,25	0.28	0
2	LFA	B	215	-	6,6,19	0.12	0	5,5,18	0.10	0
2	LFA	C	213	-	10,10,19	0.10	0	9,9,18	0.05	0
2	LFA	A	212	-	4,4,19	0.14	0	3,3,18	0.23	0
5	HEM	C	201	1	50,50,50	1.12	8 (16%)	66,82,82	0.63	0
2	LFA	A	208	-	7,7,19	0.12	0	6,6,18	0.09	0
3	OLC	A	202	-	21,21,24	0.24	0	22,22,25	0.24	0
2	LFA	A	204	-	6,6,19	0.13	0	5,5,18	0.08	0
2	LFA	B	212	-	8,8,19	0.10	0	7,7,18	0.07	0
2	LFA	B	213	-	12,12,19	0.09	0	11,11,18	0.06	0
2	LFA	A	205	-	11,11,19	0.10	0	10,10,18	0.07	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	LFA	B	209	-	16,16,19	0.08	0	15,15,18	0.06	0
3	OLC	C	202	-	11,11,24	0.26	0	12,12,25	0.33	0
6	SO4	B	216	-	4,4,4	0.15	0	6,6,6	0.09	0
2	LFA	A	203	-	11,11,19	0.11	0	10,10,18	0.07	0
2	LFA	C	204	-	7,7,19	0.14	0	6,6,18	0.05	0
2	LFA	A	201	-	11,11,19	0.09	0	10,10,18	0.10	0
2	LFA	B	211	-	12,12,19	0.11	0	11,11,18	0.07	0
2	LFA	A	207	-	10,10,19	0.12	0	9,9,18	0.06	0
4	OLB	A	210	-	22,22,24	0.28	0	23,23,25	0.25	0
2	LFA	C	205	-	9,9,19	0.11	0	8,8,18	0.07	0
2	LFA	A	209	-	14,14,19	0.11	0	13,13,18	0.06	0
2	LFA	C	203	-	7,7,19	0.11	0	6,6,18	0.08	0
3	OLC	B	208	-	13,13,24	0.24	0	14,14,25	0.27	0
3	OLC	B	202	-	10,10,24	0.24	0	11,11,25	0.30	0
2	LFA	B	204	-	6,6,19	0.11	0	5,5,18	0.08	0
2	LFA	C	214	-	6,6,19	0.11	0	5,5,18	0.09	0
2	LFA	B	206	-	5,5,19	0.10	0	4,4,18	0.13	0
5	HEM	A	213	1	50,50,50	1.16	7 (14%)	66,82,82	0.63	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	LFA	C	207	-	-	0/2/2/17	-
3	OLC	C	209	-	-	0/15/15/24	-
2	LFA	B	205	-	-	0/4/4/17	-
2	LFA	C	212	-	-	1/6/6/17	-
2	LFA	C	211	-	-	5/10/10/17	-
4	OLB	A	206	-	-	1/10/10/24	-
2	LFA	B	210	-	-	0/4/4/17	-
2	LFA	B	207	-	-	0/4/4/17	-
3	OLC	C	206	-	-	0/12/12/24	-
2	LFA	A	211	-	-	2/10/10/17	-
2	LFA	B	203	-	-	2/7/7/17	-
2	LFA	C	210	-	-	0/4/4/17	-
5	HEM	B	214	1	-	4/14/54/54	-
2	LFA	C	208	-	-	0/2/2/17	-
2	LFA	B	201	-	-	1/8/8/17	-
4	OLB	C	215	-	-	8/18/18/24	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LFA	B	215	-	-	2/4/4/17	-
2	LFA	C	213	-	-	0/8/8/17	-
2	LFA	A	212	-	-	0/2/2/17	-
5	HEM	C	201	1	-	2/14/54/54	-
2	LFA	A	208	-	-	0/5/5/17	-
3	OLC	A	202	-	-	4/21/21/24	-
2	LFA	A	204	-	-	0/4/4/17	-
2	LFA	B	212	-	-	1/6/6/17	-
2	LFA	B	213	-	-	3/10/10/17	-
2	LFA	A	205	-	-	0/9/9/17	-
2	LFA	B	209	-	-	3/14/14/17	-
3	OLC	C	202	-	-	4/11/11/24	-
2	LFA	A	203	-	-	0/9/9/17	-
2	LFA	C	204	-	-	1/5/5/17	-
2	LFA	A	201	-	-	2/9/9/17	-
2	LFA	B	211	-	-	0/10/10/17	-
2	LFA	A	207	-	-	1/8/8/17	-
4	OLB	A	210	-	-	2/22/22/24	-
2	LFA	C	205	-	-	1/7/7/17	-
2	LFA	A	209	-	-	2/12/12/17	-
2	LFA	C	203	-	-	0/5/5/17	-
3	OLC	B	208	-	-	0/13/13/24	-
3	OLC	B	202	-	-	0/10/10/24	-
2	LFA	B	204	-	-	1/4/4/17	-
2	LFA	C	214	-	-	0/4/4/17	-
2	LFA	B	206	-	-	1/3/3/17	-
5	HEM	A	213	1	-	4/14/54/54	-

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	214	HEM	FE-ND	3.05	2.04	1.94
5	A	213	HEM	FE-ND	2.88	2.03	1.94
5	B	214	HEM	C1B-NB	-2.87	1.35	1.40
5	A	213	HEM	C1B-NB	-2.86	1.35	1.40
5	C	201	HEM	C1B-NB	-2.65	1.35	1.40
5	A	213	HEM	FE-NC	2.62	2.04	1.95
5	A	213	HEM	FE-NB	2.56	2.02	1.94
5	C	201	HEM	FE-NB	2.53	2.02	1.94
5	C	201	HEM	FE-ND	2.52	2.02	1.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	214	HEM	FE-NC	2.48	2.03	1.95
5	A	213	HEM	FE-NA	2.47	2.03	1.95
5	C	201	HEM	FE-NC	2.42	2.03	1.95
5	B	214	HEM	FE-NB	2.42	2.02	1.94
5	C	201	HEM	C1C-NC	-2.38	1.35	1.39
5	A	213	HEM	CHC-C1C	2.36	1.43	1.38
5	C	201	HEM	FE-NA	2.33	2.03	1.95
5	C	201	HEM	C1A-NA	-2.31	1.35	1.39
5	C	201	HEM	CHC-C1C	2.31	1.42	1.38
5	B	214	HEM	FE-NA	2.31	2.02	1.95
5	B	214	HEM	C1C-NC	-2.22	1.35	1.39
5	A	213	HEM	C1C-NC	-2.21	1.35	1.39
5	B	214	HEM	C1A-NA	-2.17	1.35	1.39

There are no bond angle outliers.

There are no chirality outliers.

All (58) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	210	OLB	O19-C1-O20-C21
4	A	210	OLB	C2-C1-O20-C21
3	C	202	OLC	O23-C22-C24-O25
3	A	202	OLC	C1-C2-C3-C4
2	A	211	LFA	C10-C11-C12-C13
3	A	202	OLC	C21-C22-C24-O25
3	C	202	OLC	C21-C22-C24-O25
4	C	215	OLB	C4-C5-C6-C7
2	C	211	LFA	C2-C3-C4-C5
4	C	215	OLB	C2-C1-O20-C21
3	A	202	OLC	C4-C5-C6-C7
2	B	209	LFA	C11-C10-C9-C8
2	B	203	LFA	C5-C6-C7-C8
2	B	209	LFA	C11-C12-C13-C14
2	A	209	LFA	C6-C7-C8-C9
2	A	201	LFA	C4-C5-C6-C7
3	C	202	OLC	O20-C21-C22-O23
2	A	211	LFA	C15-C16-C17-C18
2	B	203	LFA	C3-C4-C5-C6
4	C	215	OLB	C9-C10-C11-C12
4	C	215	OLB	C3-C4-C5-C6
2	A	201	LFA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
2	A	209	LFA	C5-C6-C7-C8
2	C	204	LFA	C3-C4-C5-C6
4	A	206	OLB	O20-C21-C22-O23
3	C	202	OLC	O20-C21-C22-C24
2	B	201	LFA	C4-C5-C6-C7
2	B	209	LFA	C2-C3-C4-C5
2	B	213	LFA	C5-C6-C7-C8
2	C	211	LFA	C4-C5-C6-C7
4	C	215	OLB	C7-C8-C9-C10
2	B	212	LFA	C3-C4-C5-C6
4	C	215	OLB	O19-C1-O20-C21
2	B	215	LFA	C2-C3-C4-C5
2	B	206	LFA	C4-C5-C6-C7
2	C	205	LFA	C4-C5-C6-C7
5	A	213	HEM	CAD-CBD-CGD-O2D
5	C	201	HEM	CAD-CBD-CGD-O2D
4	C	215	OLB	C1-C2-C3-C4
5	B	214	HEM	CAD-CBD-CGD-O2D
4	C	215	OLB	C5-C6-C7-C8
2	B	215	LFA	C3-C4-C5-C6
2	C	212	LFA	C5-C6-C7-C8
5	A	213	HEM	CAD-CBD-CGD-O1D
2	B	204	LFA	C4-C5-C6-C7
5	B	214	HEM	CAD-CBD-CGD-O1D
3	A	202	OLC	O23-C22-C24-O25
5	C	201	HEM	CAD-CBD-CGD-O1D
2	C	211	LFA	C7-C8-C9-C10
2	C	211	LFA	C9-C10-C11-C12
5	B	214	HEM	CAA-CBA-CGA-O2A
5	A	213	HEM	CAA-CBA-CGA-O2A
2	B	213	LFA	C4-C5-C6-C7
2	A	207	LFA	C6-C7-C8-C9
5	B	214	HEM	CAA-CBA-CGA-O1A
2	C	211	LFA	C1-C2-C3-C4
5	A	213	HEM	CAA-CBA-CGA-O1A
2	B	213	LFA	C11-C10-C9-C8

There are no ring outliers.

3 monomers are involved in 28 short contacts:

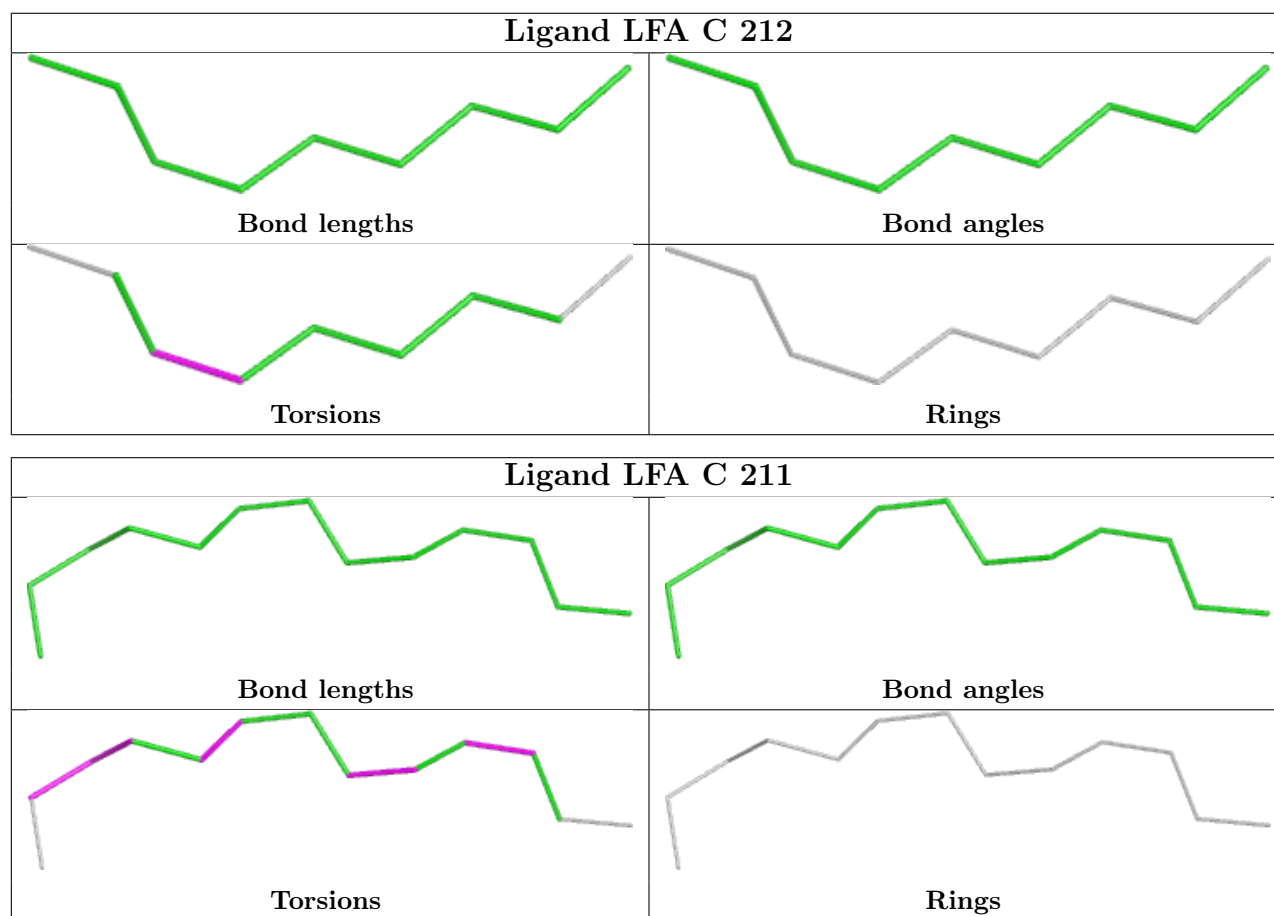
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	211	LFA	1	0

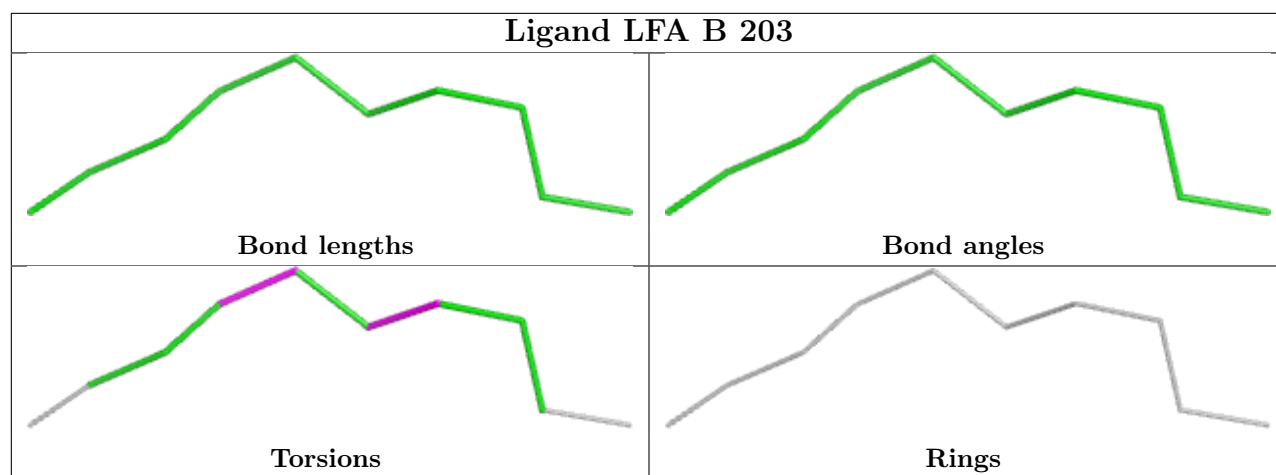
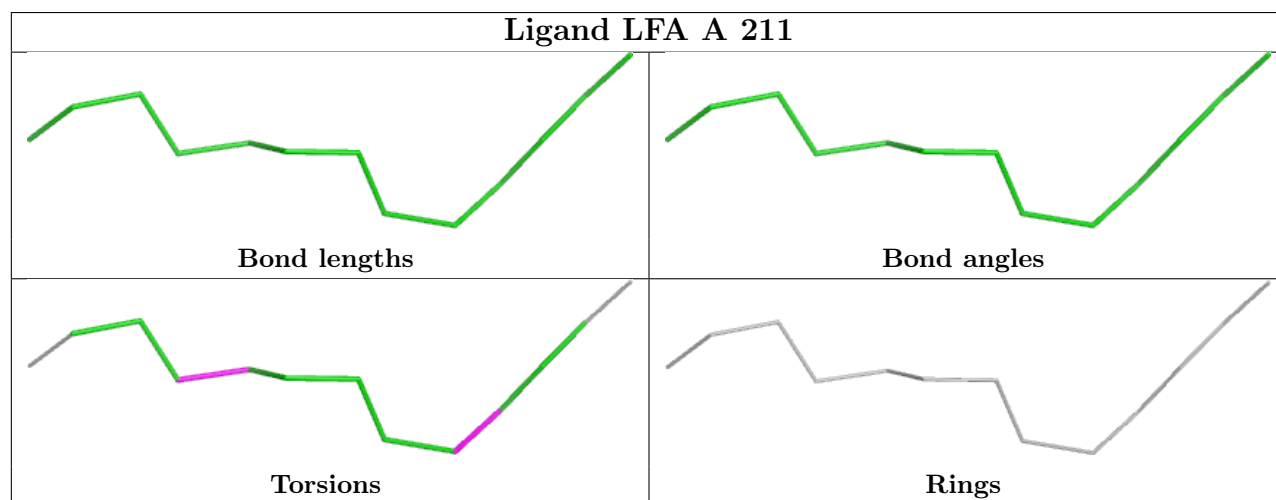
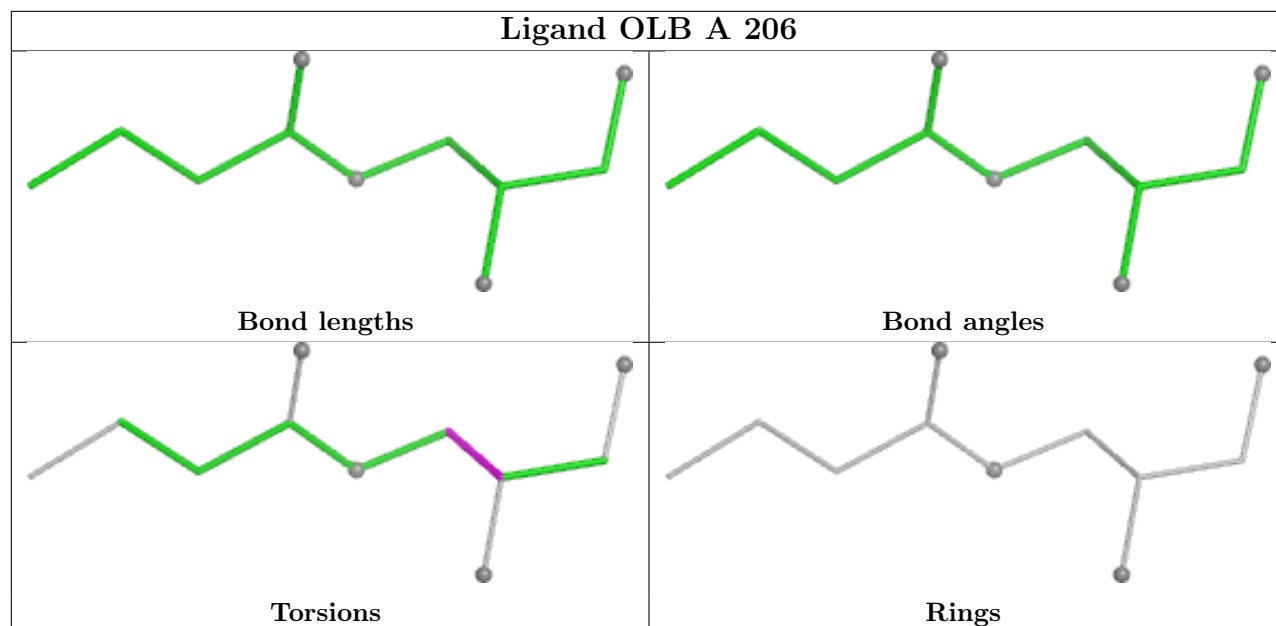
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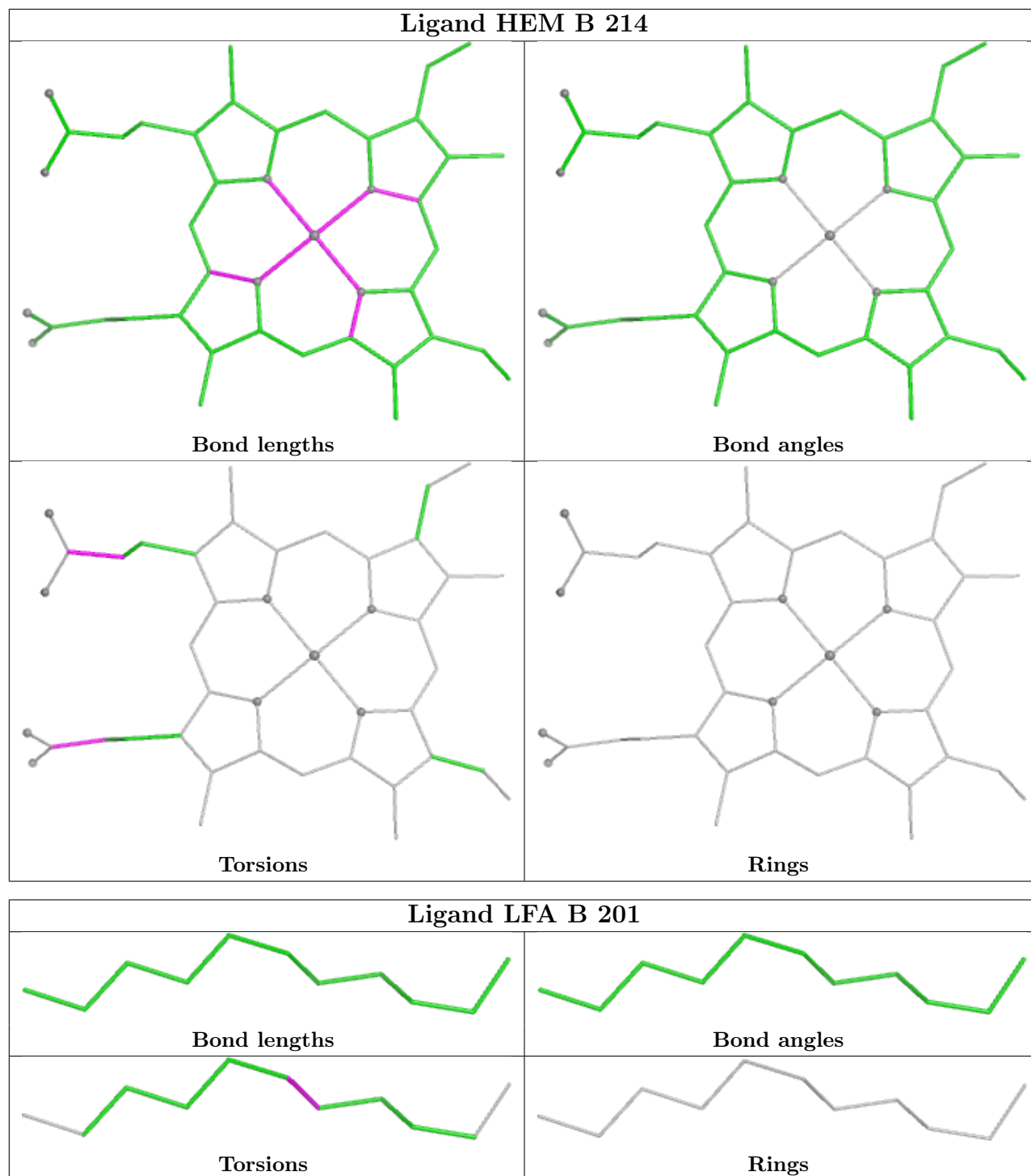
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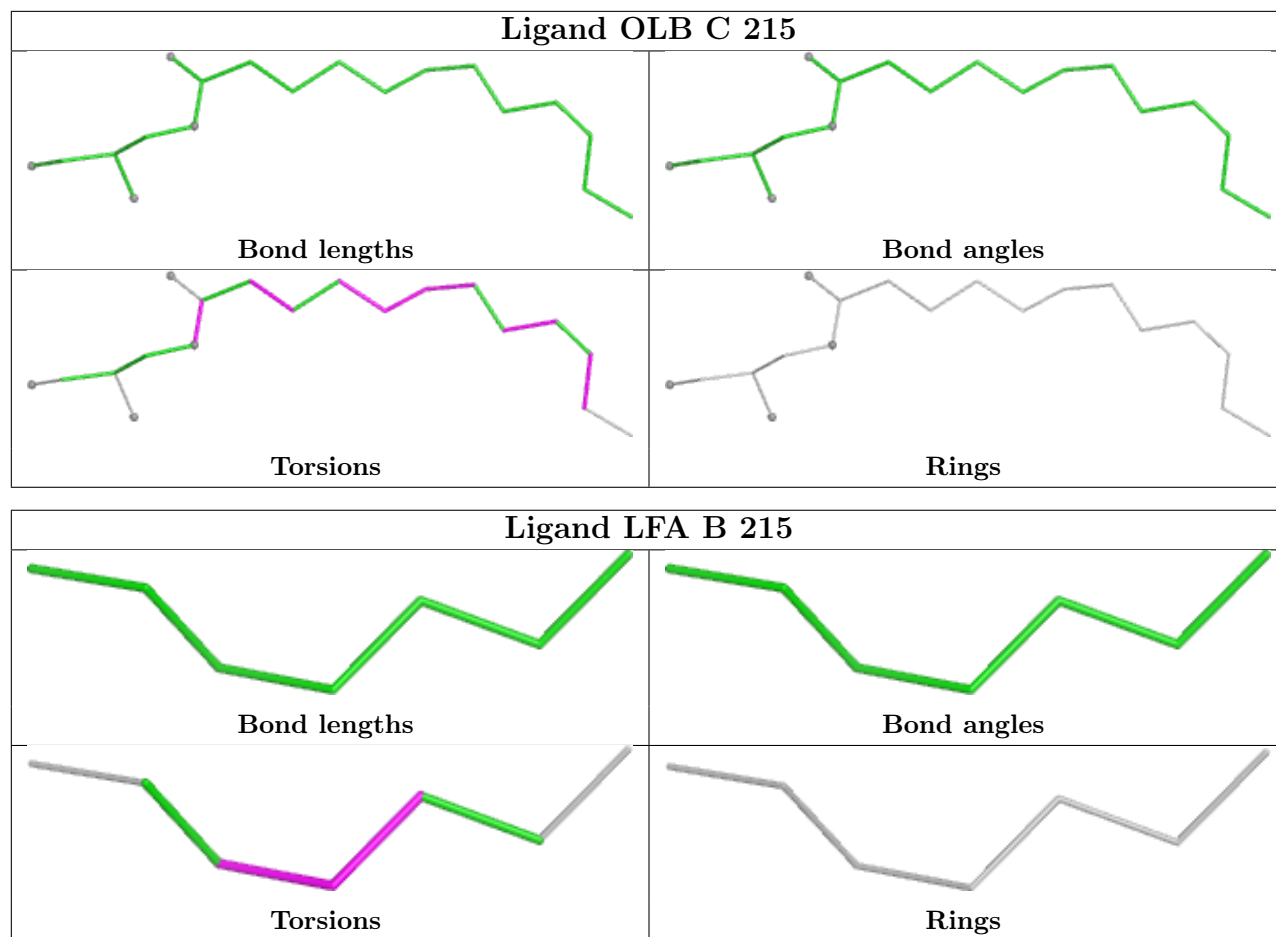
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	210	LFA	0	26
5	B	214	HEM	1	0

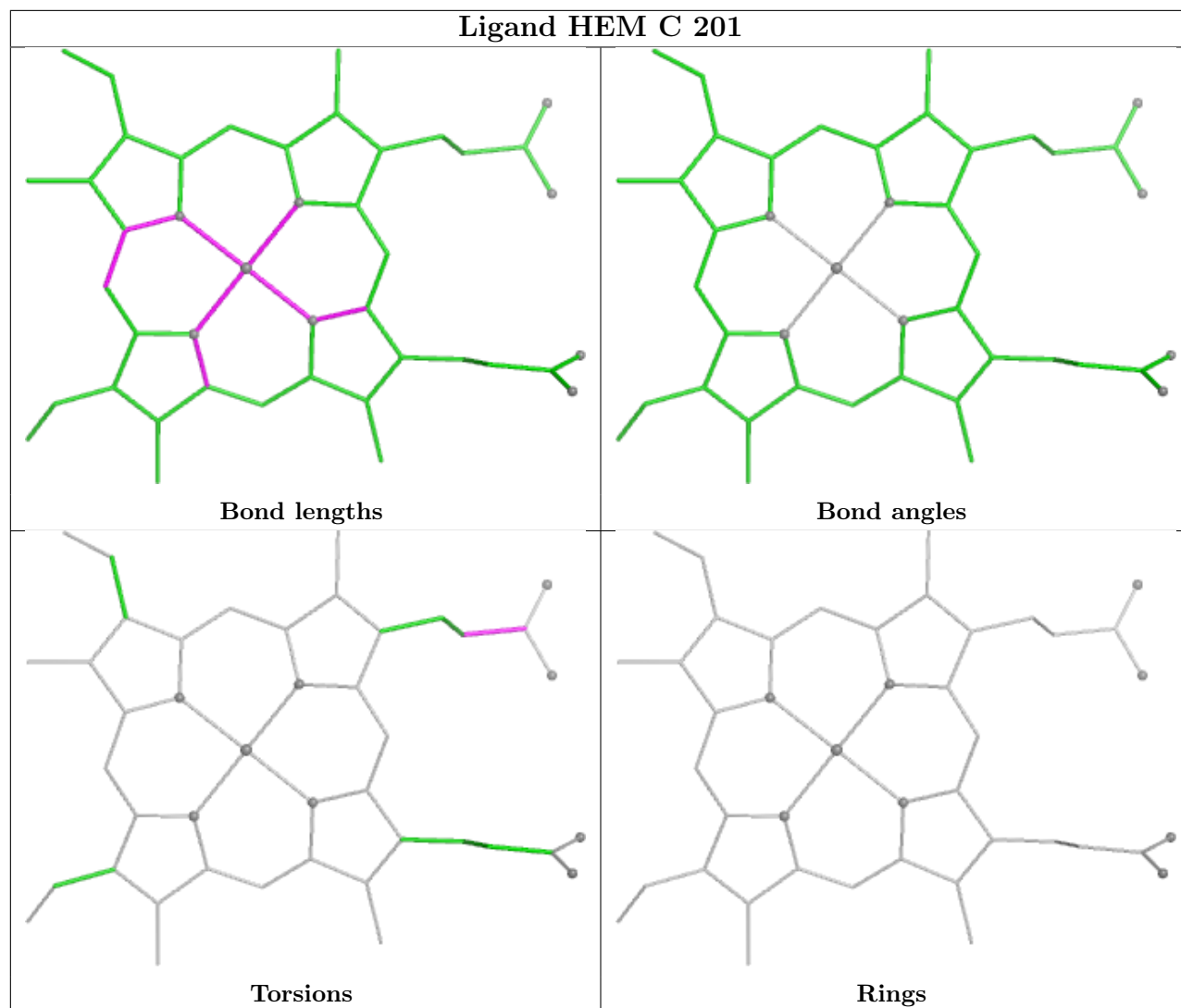
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

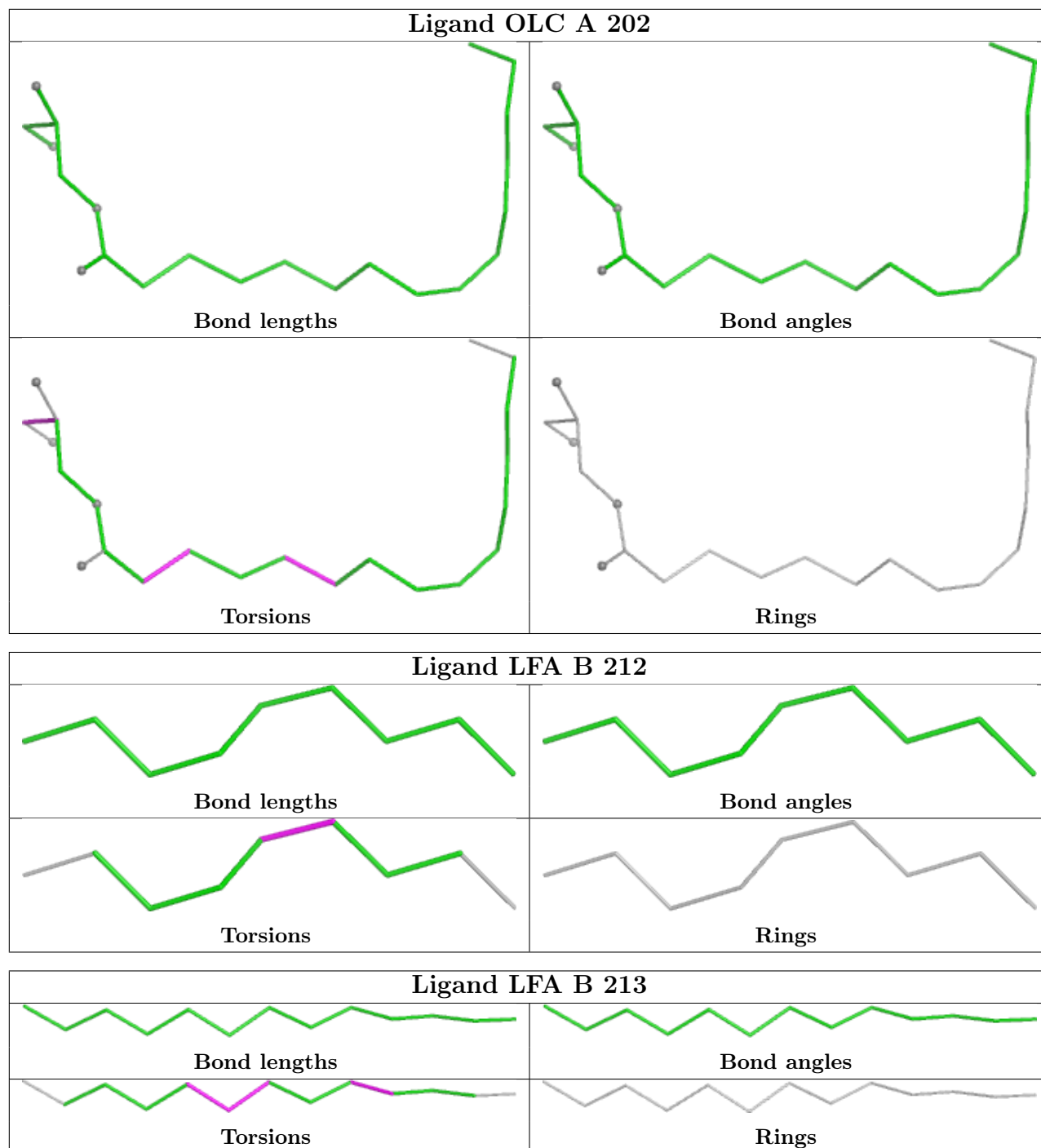


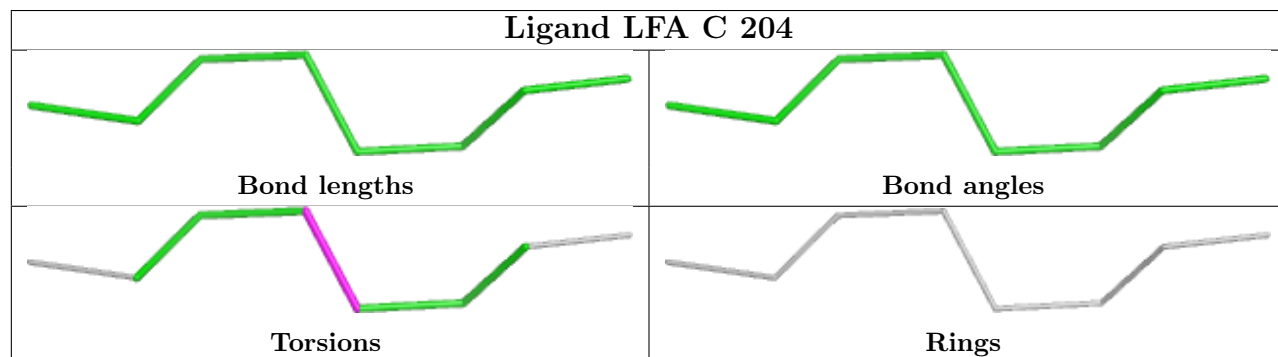
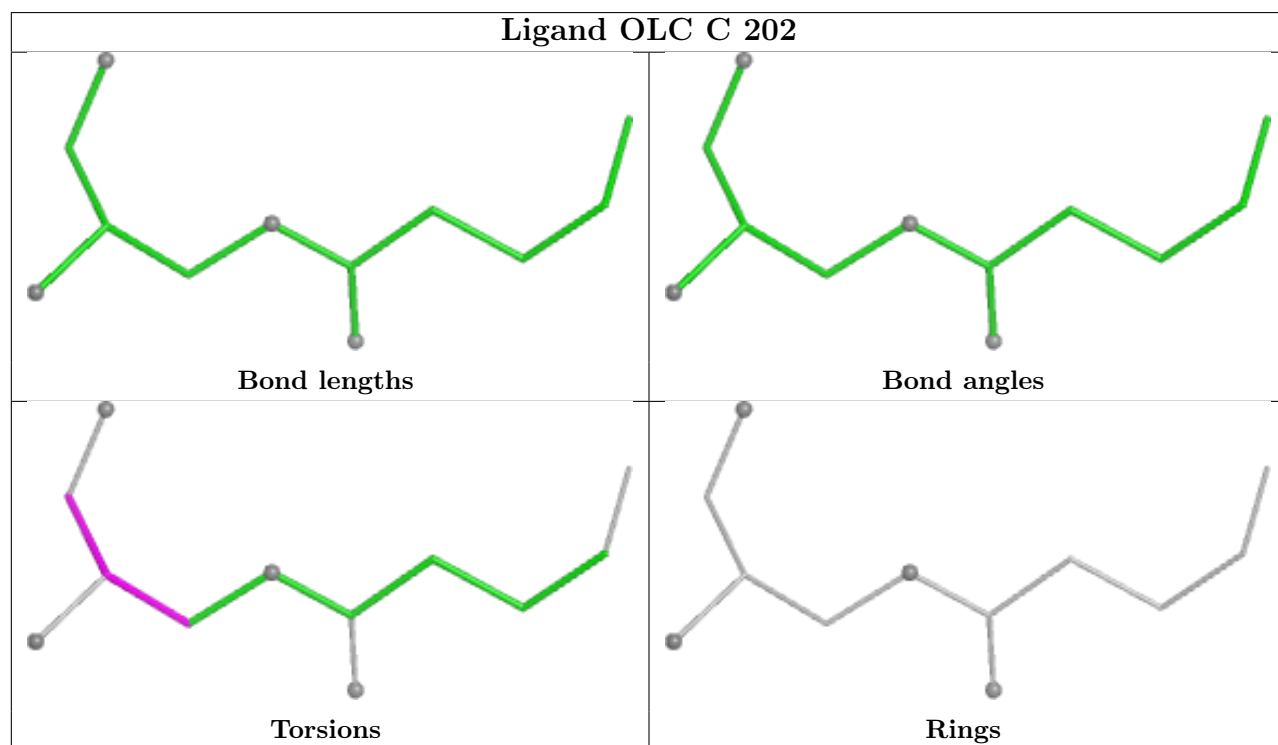
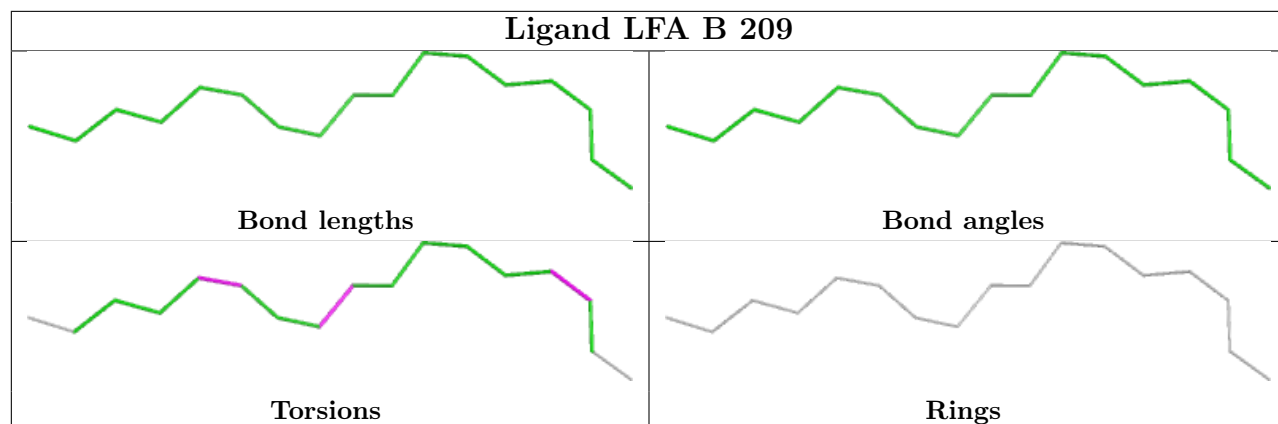


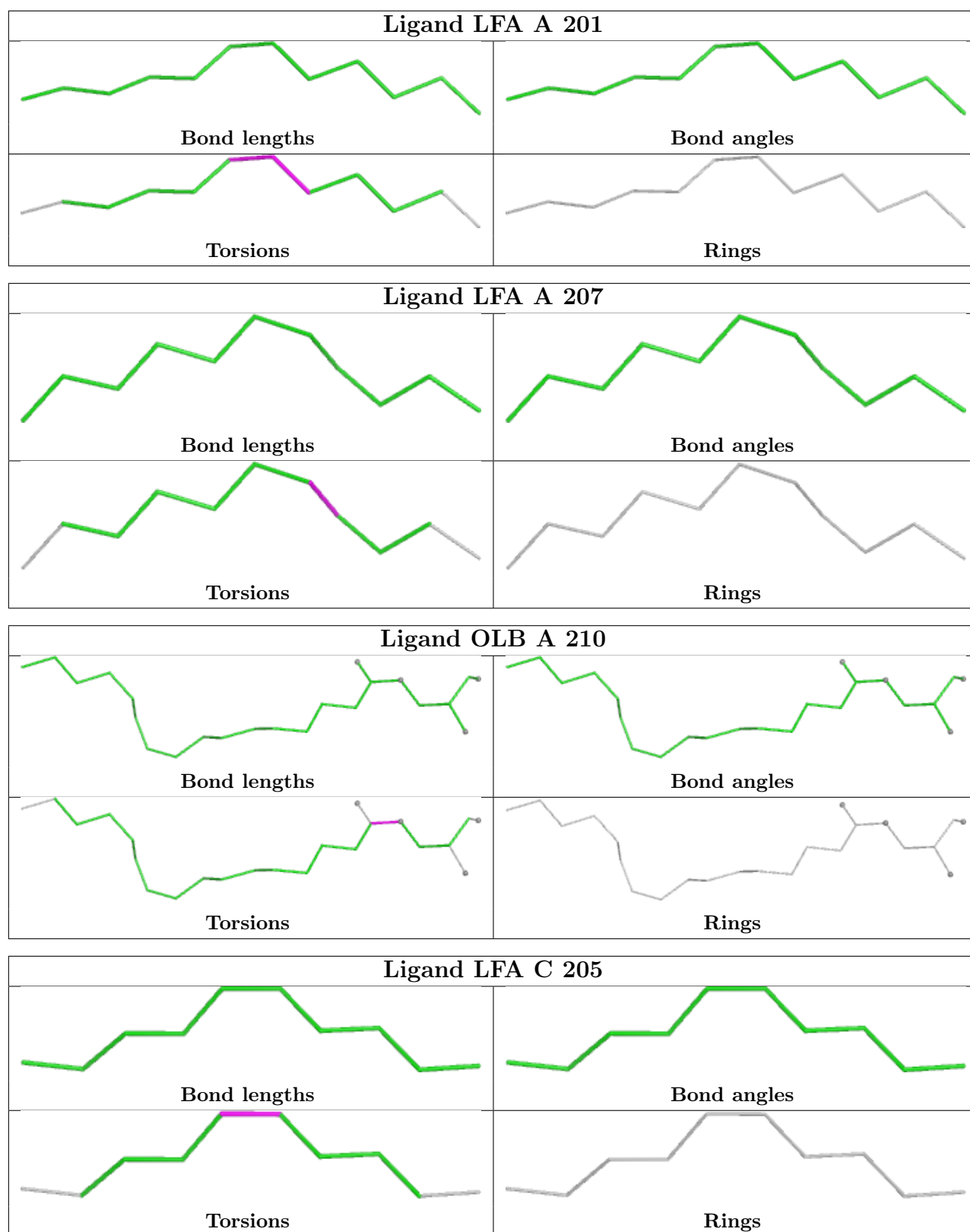


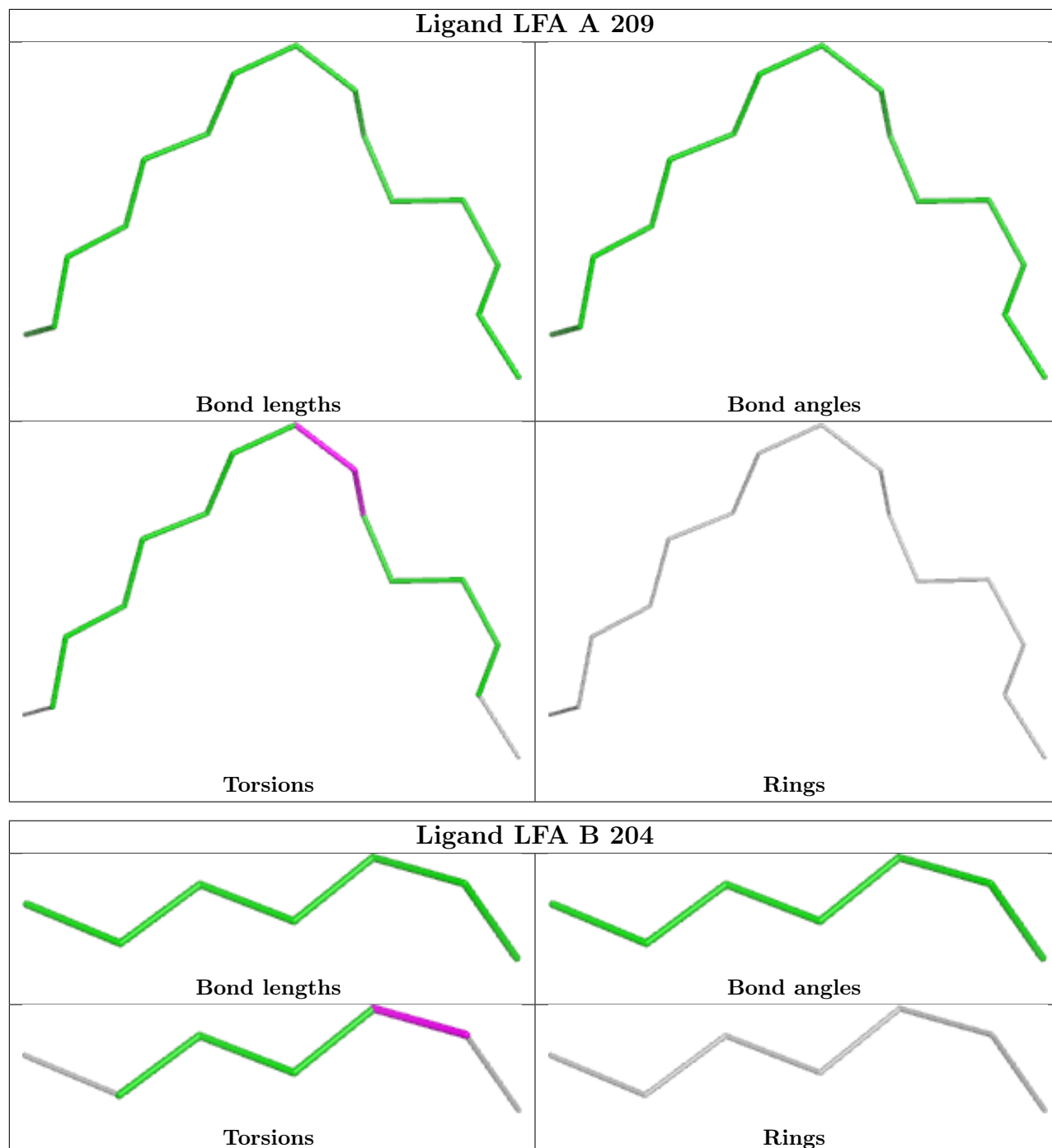


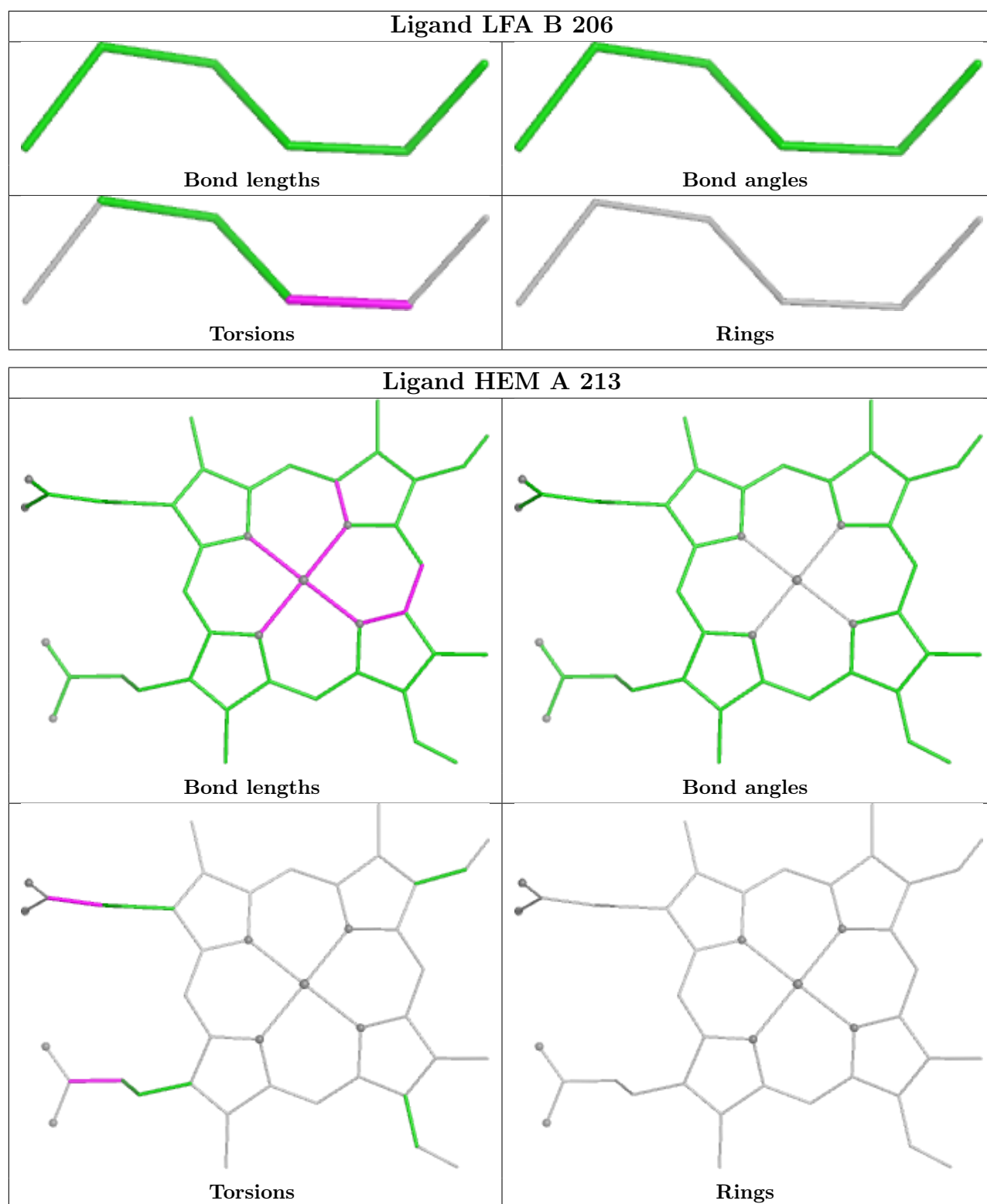












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	167/188 (88%)	-0.26	1 (0%) 85 88	10, 24, 42, 63	5 (2%)
1	B	167/188 (88%)	-0.07	6 (3%) 46 50	11, 26, 43, 69	3 (1%)
1	C	167/188 (88%)	-0.05	6 (3%) 46 50	12, 26, 47, 66	3 (1%)
All	All	501/564 (88%)	-0.13	13 (2%) 57 61	10, 25, 45, 69	11 (2%)

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	181	ARG	3.8
1	C	16	ALA	3.0
1	C	17	PRO	3.0
1	C	181	ARG	2.8
1	C	148	ILE	2.6
1	B	15	ALA	2.5
1	B	173	ILE	2.4
1	A	181	ARG	2.3
1	B	177	ARG	2.3
1	C	158	TYR	2.3
1	B	101[A]	SER	2.2
1	B	180	ARG	2.1
1	C	15	ALA	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 ⓘ

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(Å ²)	Q<0.9
2	LFA	B	215	7/20	0.55	0.26	59,59,59,59	0
2	LFA	C	204	8/20	0.56	0.24	67,67,67,67	0
2	LFA	C	203	8/20	0.57	0.23	62,62,63,63	0
2	LFA	C	210	7/20	0.59	0.15	91,91,91,91	0
2	LFA	C	212	9/20	0.59	0.25	66,66,66,66	0
2	LFA	A	205	12/20	0.61	0.24	72,72,73,73	0
2	LFA	B	213	13/20	0.62	0.21	66,67,68,68	0
2	LFA	C	213	11/20	0.66	0.22	71,71,72,72	0
2	LFA	B	209	17/20	0.67	0.18	62,64,65,66	0
3	OLC	B	208	14/25	0.68	0.19	61,63,63,63	0
2	LFA	C	211	13/20	0.69	0.22	57,58,61,61	0
2	LFA	C	205	10/20	0.69	0.22	62,62,62,62	0
3	OLC	C	206	13/25	0.69	0.15	55,58,59,59	0
2	LFA	A	212	5/20	0.70	0.21	51,51,51,51	0
2	LFA	B	201	11/20	0.70	0.22	58,60,61,61	0
2	LFA	B	205	7/20	0.70	0.18	52,52,52,52	0
2	LFA	B	206	6/20	0.70	0.25	49,49,49,49	0
3	OLC	C	209	16/25	0.70	0.18	50,51,54,55	0
2	LFA	A	209	15/20	0.72	0.22	56,58,58,59	0
2	LFA	A	204	7/20	0.72	0.17	41,42,42,42	0
2	LFA	A	203	12/20	0.73	0.17	55,55,55,55	0
3	OLC	B	202	11/25	0.74	0.18	60,62,63,63	0
4	OLB	C	215	19/25	0.74	0.17	53,54,54,55	0
2	LFA	A	207	11/20	0.75	0.19	58,58,58,58	0
2	LFA	B	212	9/20	0.76	0.17	55,55,56,56	0
2	LFA	A	208	8/20	0.76	0.17	57,57,58,58	0
4	OLB	A	210	23/25	0.76	0.19	70,71,74,74	0
2	LFA	B	211	13/20	0.76	0.21	65,66,67,67	0
2	LFA	B	207	7/20	0.78	0.18	51,51,52,52	0
2	LFA	A	201	12/20	0.80	0.18	56,56,57,57	0
3	OLC	C	202	12/25	0.80	0.15	42,43,44,44	0
2	LFA	A	211	13/20	0.80	0.19	57,58,58,58	0
2	LFA	B	203	10/20	0.80	0.18	58,58,58,58	0
3	OLC	A	202	22/25	0.80	0.17	53,54,57,57	0
2	LFA	B	204	7/20	0.80	0.17	53,53,53,53	0
2	LFA	B	210	7/20	0.81	0.17	48,48,49,49	0
2	LFA	C	207	5/20	0.81	0.16	64,64,65,65	0

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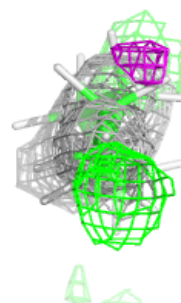
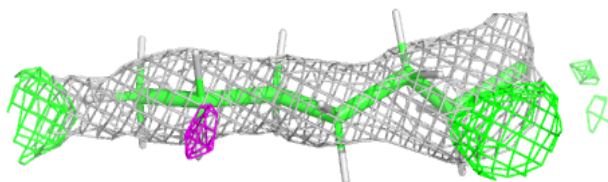
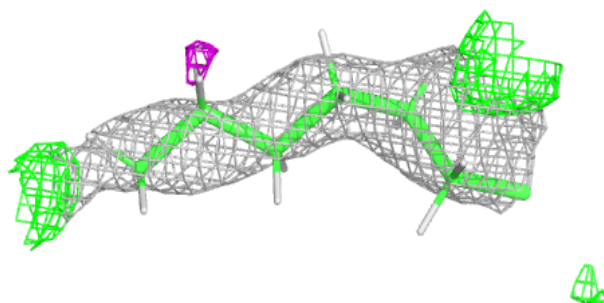
Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	OLB	A	206	11/25	0.84	0.13	44,44,44,44	0
2	LFA	C	214	7/20	0.85	0.16	55,55,56,56	0
2	LFA	C	208	5/20	0.85	0.15	47,48,48,48	0
6	SO4	A	214	5/5	0.88	0.09	69,69,69,69	0
6	SO4	B	216	5/5	0.91	0.10	63,63,63,63	0
5	HEM	C	201	43/43	0.98	0.06	17,21,29,35	0
5	HEM	A	213	43/43	0.98	0.07	19,23,30,35	0
5	HEM	B	214	43/43	0.98	0.06	18,22,30,34	0
7	CL	B	217	1/1	0.98	0.05	25,25,25,25	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.

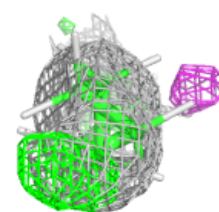
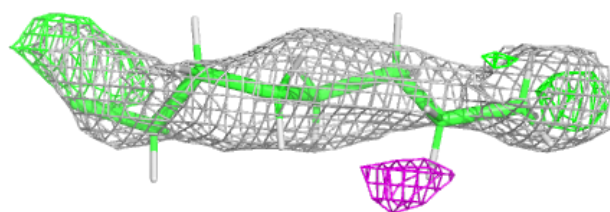
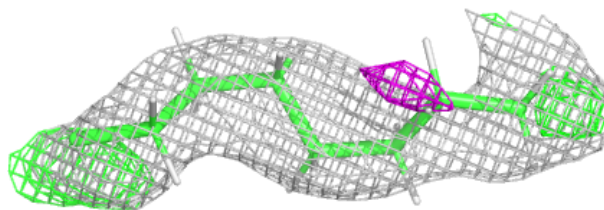
Electron density around LFA B 215:

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

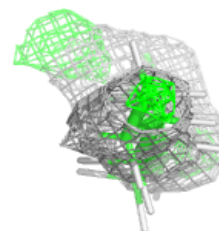
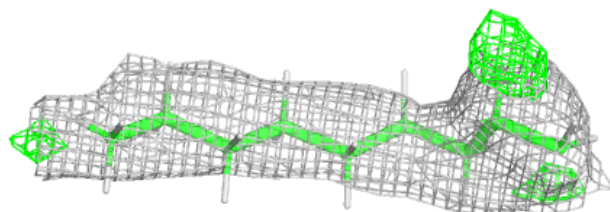
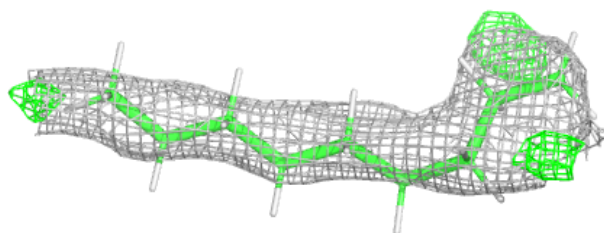


Electron density around LFA C 204:

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

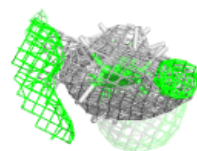
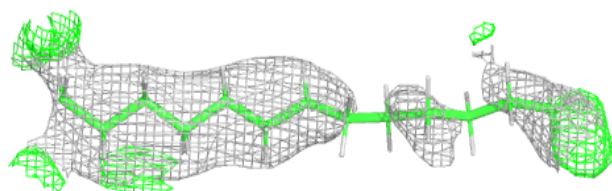
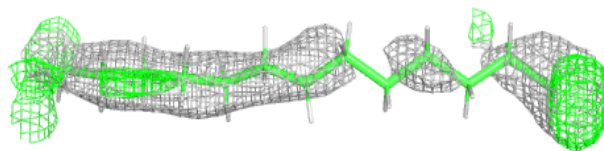
**Electron density around LFA C 212:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

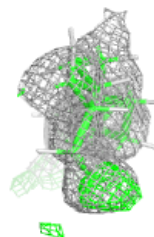
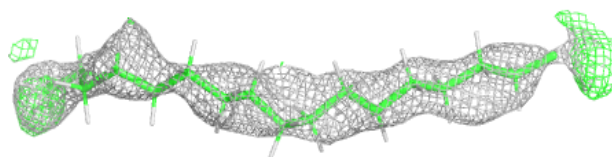
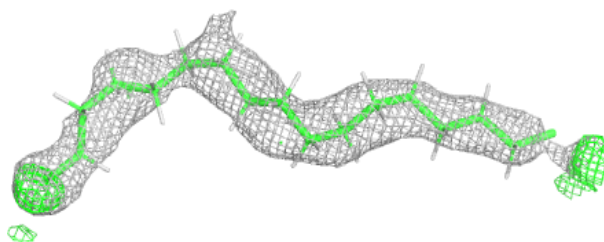


Electron density around LFA B 213:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

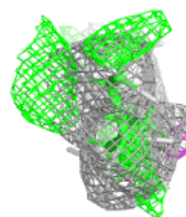
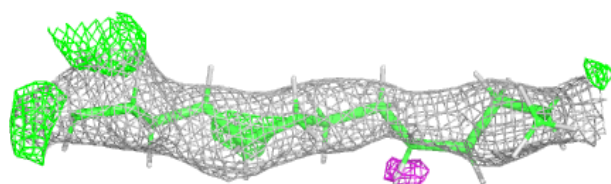
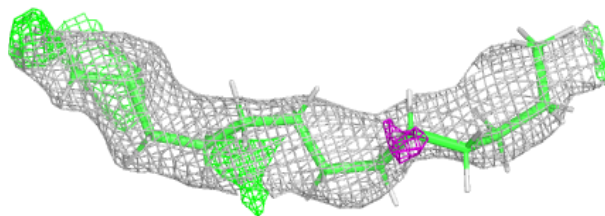
**Electron density around LFA B 209:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

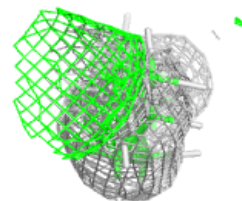
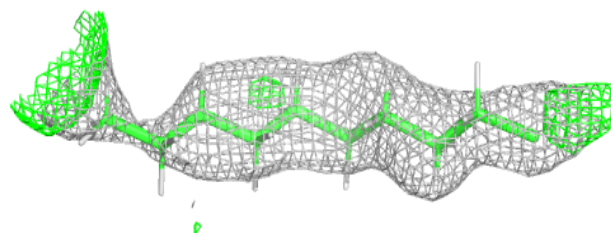
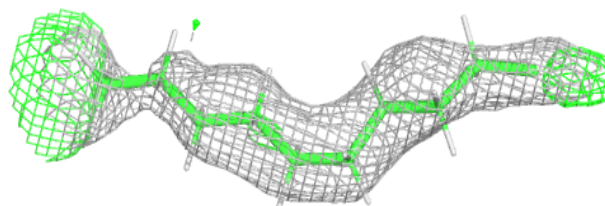


Electron density around LFA C 211:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

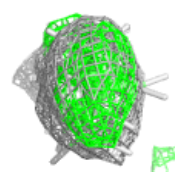
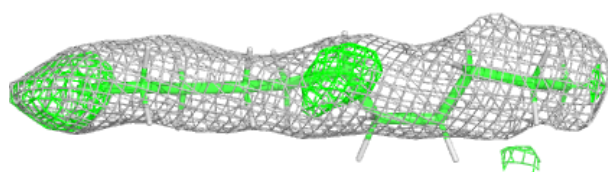
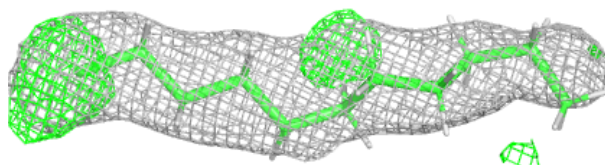
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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

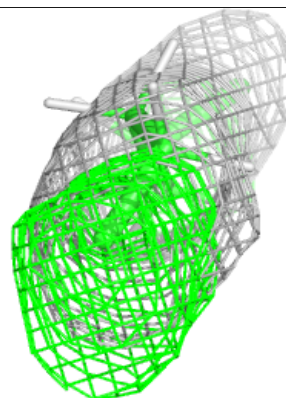
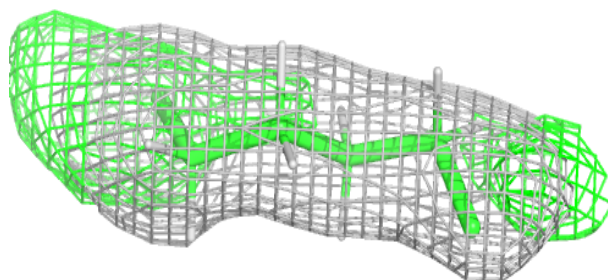
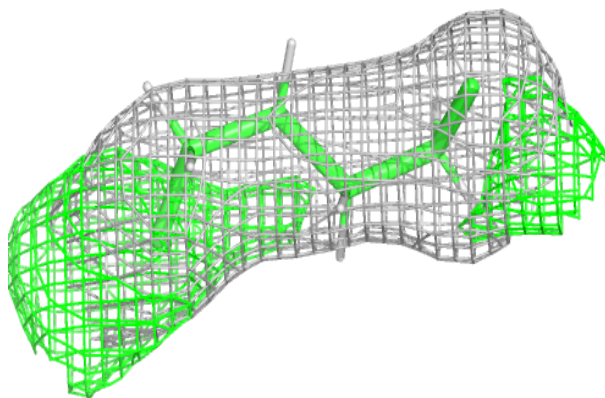


Electron density around LFA B 201:

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and green (positive)

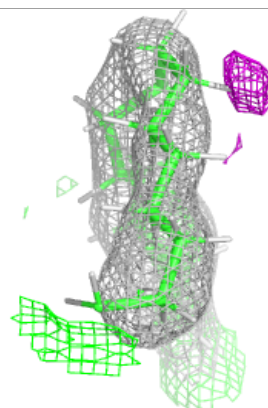
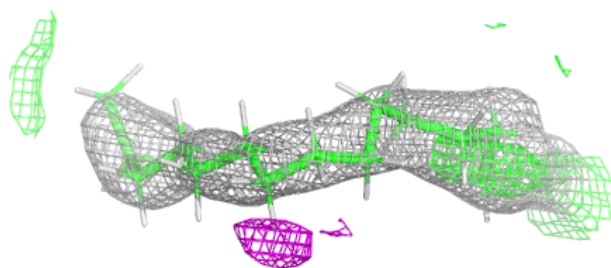
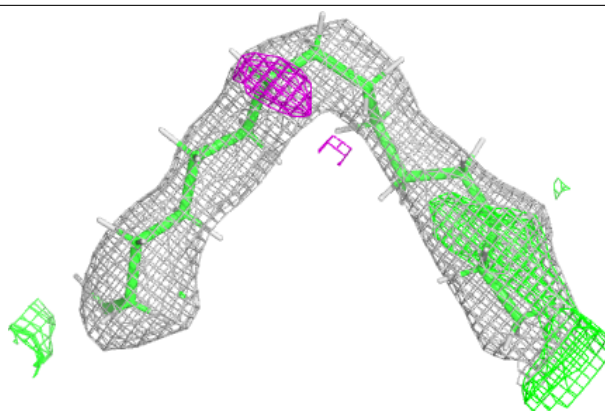
**Electron density around LFA B 206:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

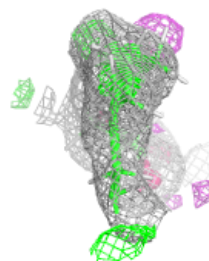
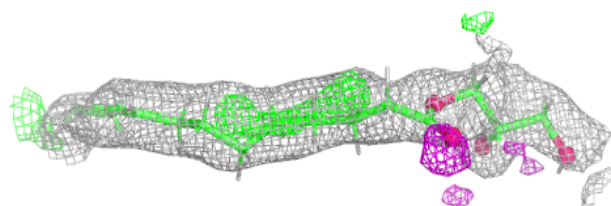
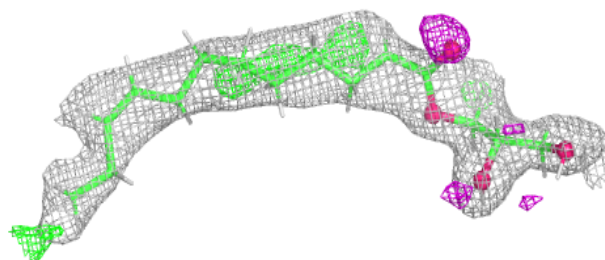


Electron density around LFA A 209:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

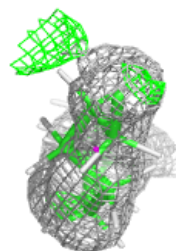
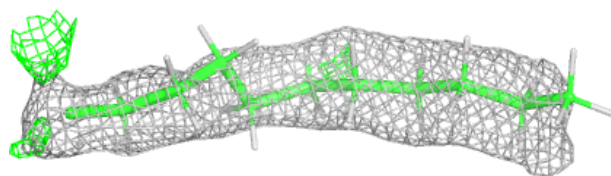
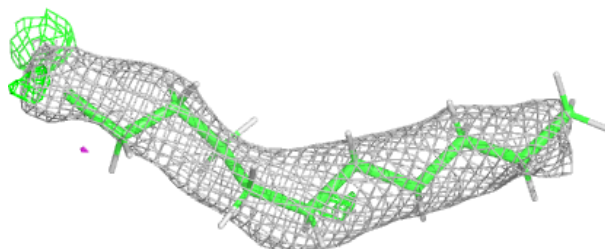
**Electron density around OLB C 215:**

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and green (positive)

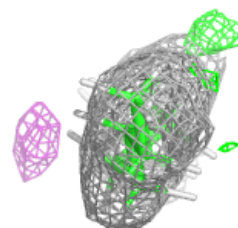
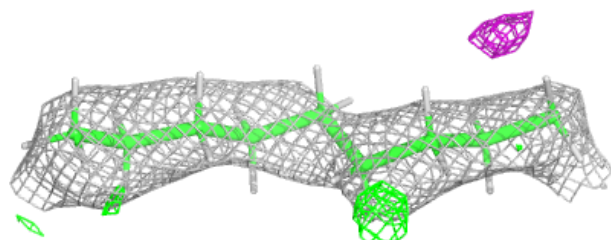
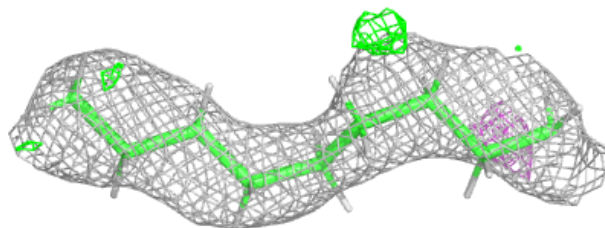


Electron density around LFA A 207:

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and green (positive)

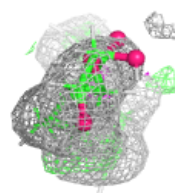
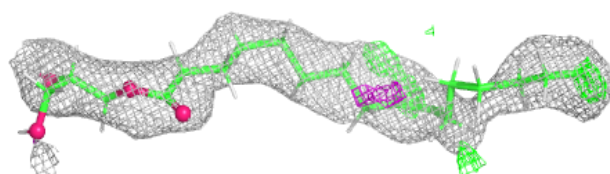
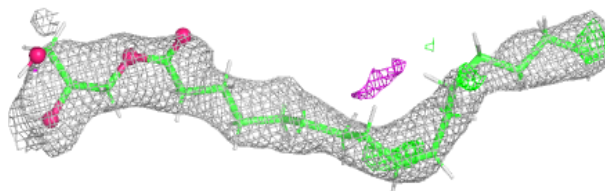
**Electron density around LFA B 212:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

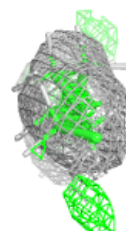
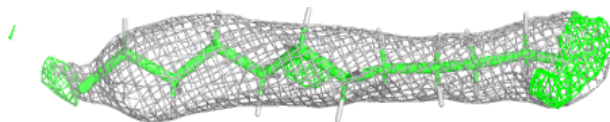
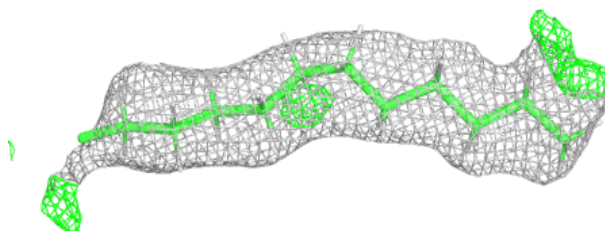


Electron density around OLB A 210:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

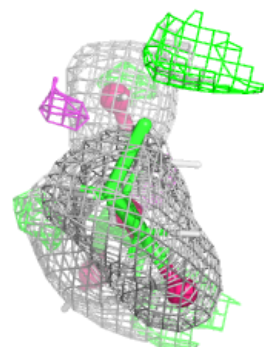
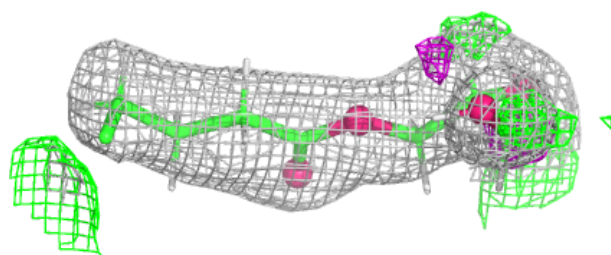
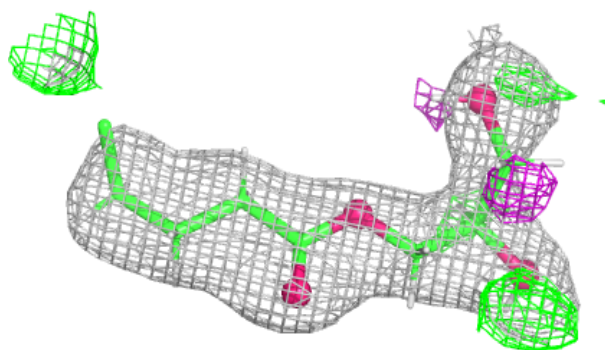
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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

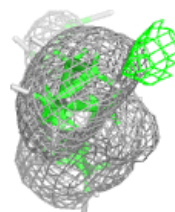
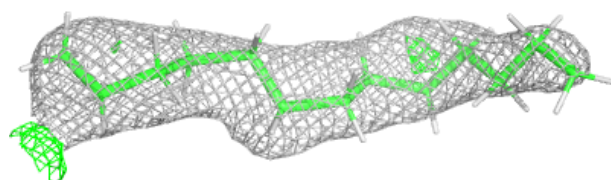
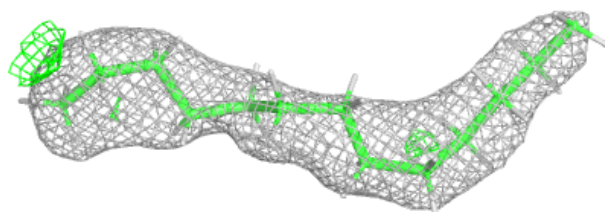


Electron density around OLC C 202:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

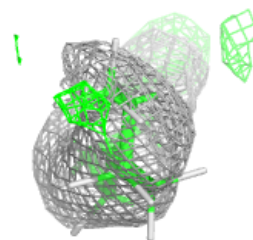
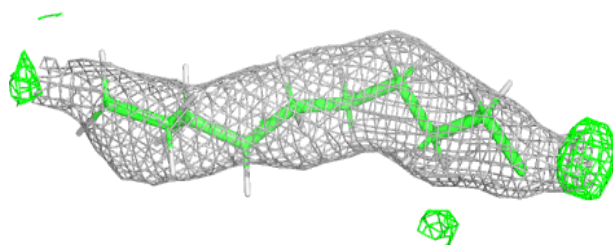
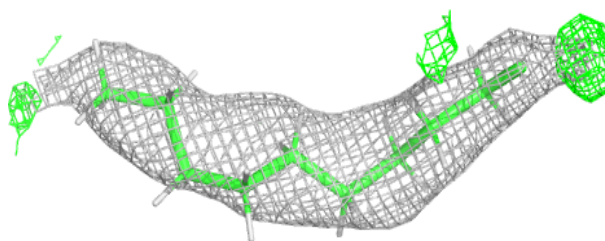
**Electron density around LFA A 211:**

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and green (positive)

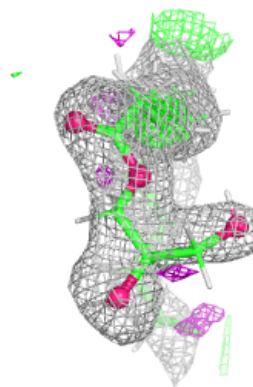
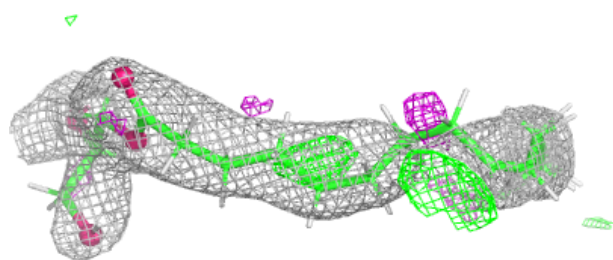
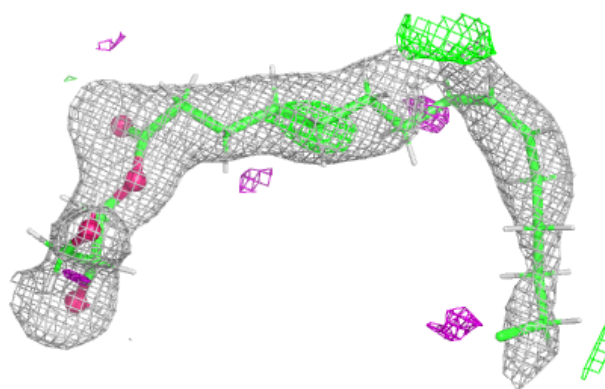


Electron density around LFA B 203:

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and green (positive)

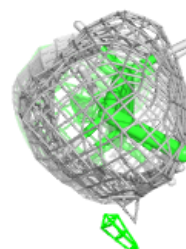
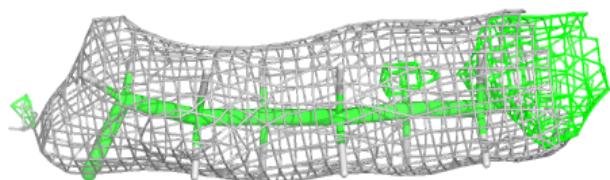
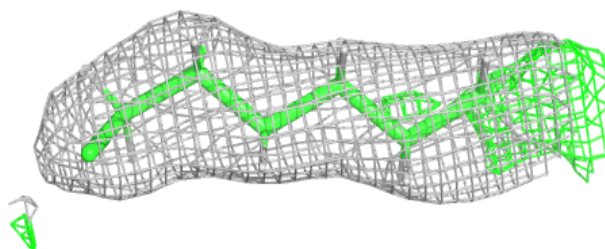
**Electron density around OLC A 202:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

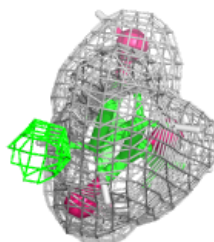
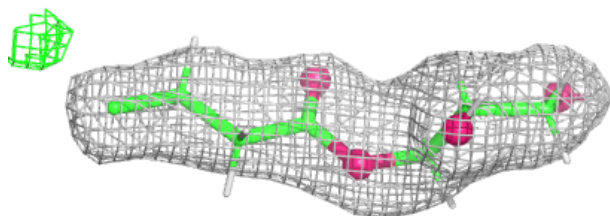
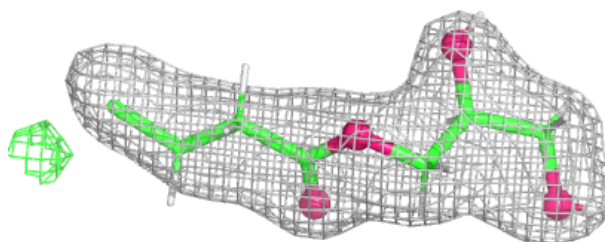


Electron density around LFA B 204:

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

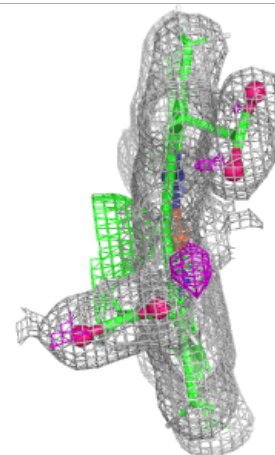
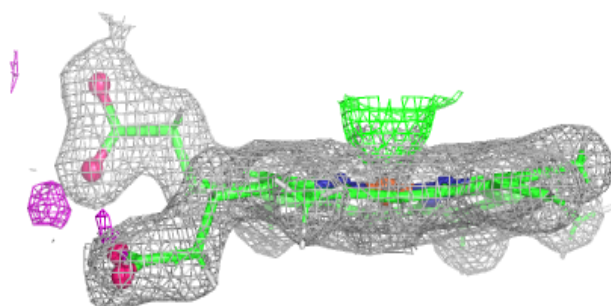
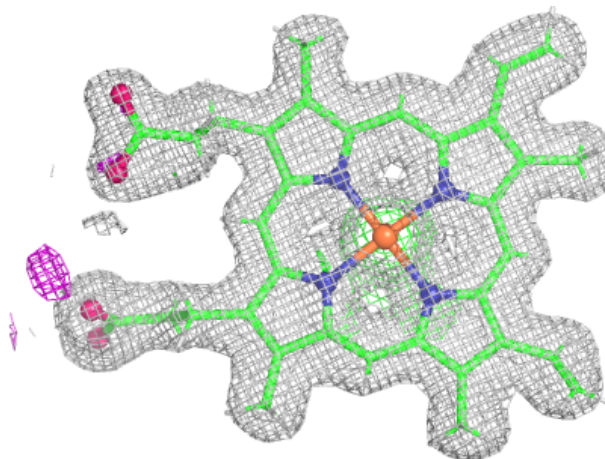
**Electron density around OLB A 206:**

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



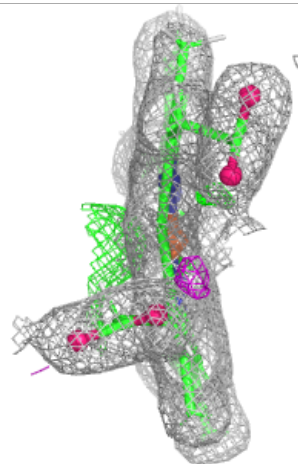
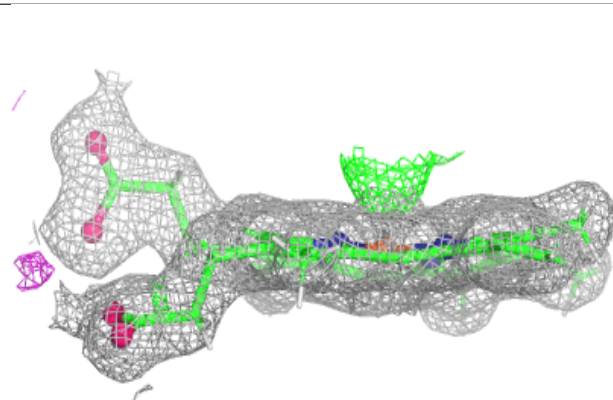
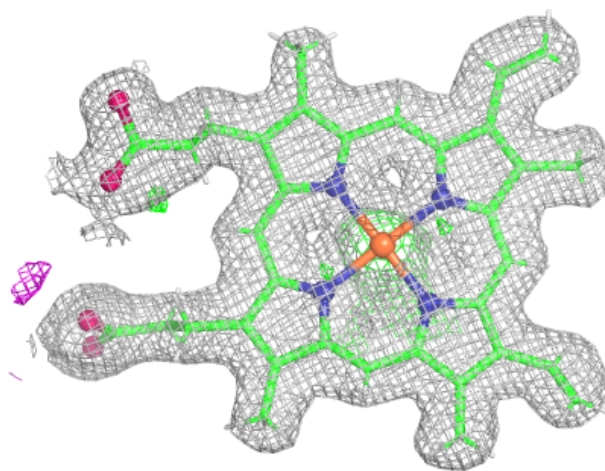
Electron density around HEM C 201:

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



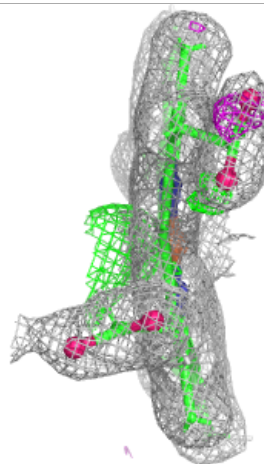
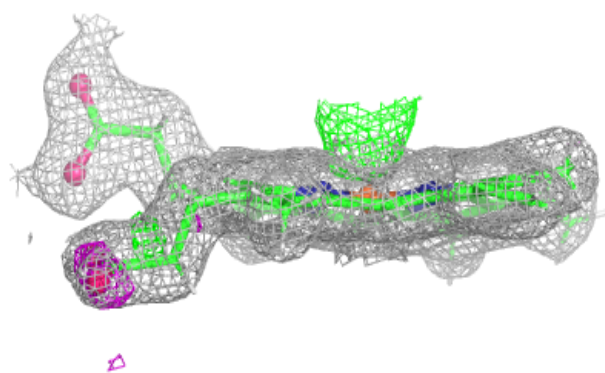
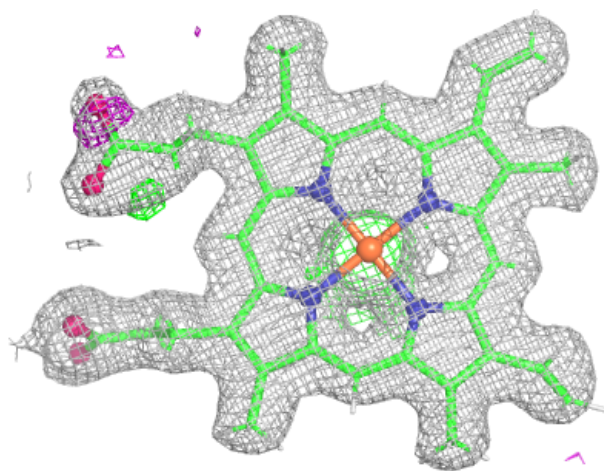
Electron density around HEM A 213:

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



Electron density around HEM B 214:

$2mF_o-DF_c$ (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.