



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 27, 2026 – 01:20 AM UTC

PDB ID : 6P2A / pdb_00006p2a
Title : Chimera of bacteriophage OBP gp146 central spike protein and a T4 gp5 beta-helix fragment
Authors : Buth, S.A.; Shneider, M.M.; Leiman, P.G.
Deposited on : 2019-05-21
Resolution : 1.90 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtrriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

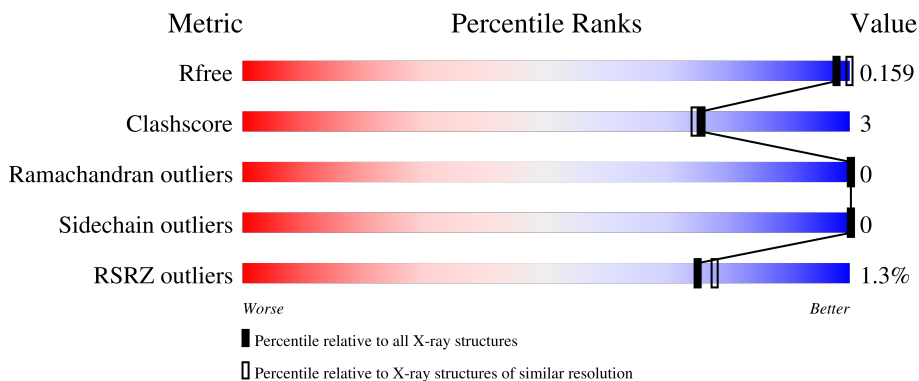
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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.



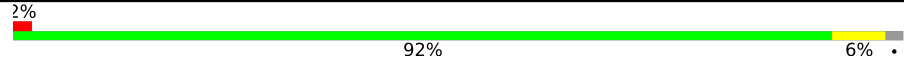
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	148	 95%
1	B	148	 92% 6%
1	C	148	 92% 7%
1	D	148	 94%
1	E	148	 95%

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Mol	Chain	Length	Quality of chain
1	F	148	 <p>A horizontal bar chart representing the quality of the chain. The bar is divided into three segments: a small red segment on the left labeled '2%', a large green segment in the middle labeled '92%', and a small yellow segment on the right labeled '6%'. A small grey dot is visible at the far right end of the bar.</p>

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 15142 atoms, of which 6858 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 CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	145	2230	689	1088	206	243	4	0	22	0
1	B	145	2257	698	1106	208	242	3	0	21	0
1	C	146	2264	700	1107	207	246	4	0	23	0
1	D	145	2337	722	1143	214	254	4	0	28	0
1	E	145	2319	717	1134	213	251	4	0	27	0
1	F	145	2214	687	1082	203	239	3	0	17	0

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	480	GLY	-	expression tag	UNP P16009
A	481	SER	-	expression tag	UNP P16009
A	482	GLY	-	expression tag	UNP P16009
A	483	SER	-	expression tag	UNP P16009
B	480	GLY	-	expression tag	UNP P16009
B	481	SER	-	expression tag	UNP P16009
B	482	GLY	-	expression tag	UNP P16009
B	483	SER	-	expression tag	UNP P16009
C	480	GLY	-	expression tag	UNP P16009
C	481	SER	-	expression tag	UNP P16009
C	482	GLY	-	expression tag	UNP P16009
C	483	SER	-	expression tag	UNP P16009
D	480	GLY	-	expression tag	UNP P16009
D	481	SER	-	expression tag	UNP P16009
D	482	GLY	-	expression tag	UNP P16009
D	483	SER	-	expression tag	UNP P16009

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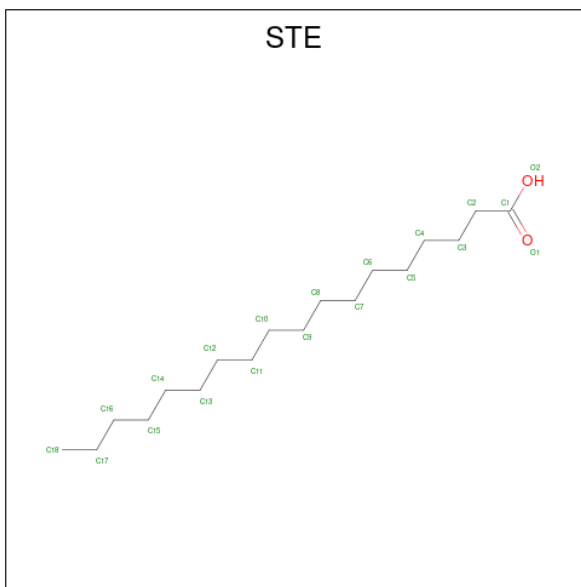
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Chain	Residue	Modelled	Actual	Comment	Reference
E	480	GLY	-	expression tag	UNP P16009
E	481	SER	-	expression tag	UNP P16009
E	482	GLY	-	expression tag	UNP P16009
E	483	SER	-	expression tag	UNP P16009
F	480	GLY	-	expression tag	UNP P16009
F	481	SER	-	expression tag	UNP P16009
F	482	GLY	-	expression tag	UNP P16009
F	483	SER	-	expression tag	UNP P16009

- Molecule 2 is FE (II) ION (CCD ID: FE2) (formula: Fe).

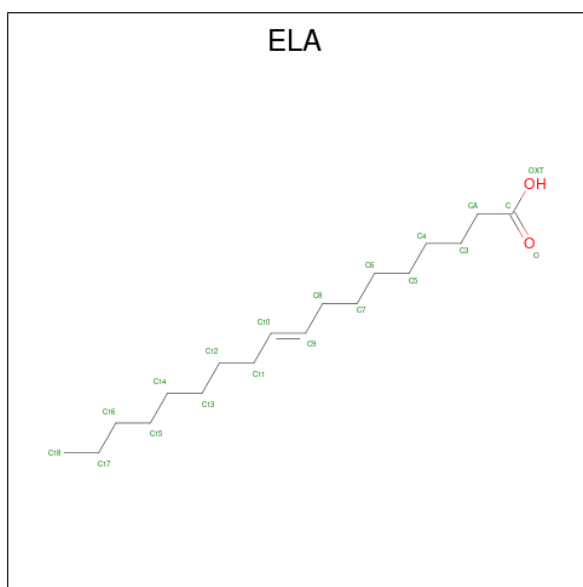
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Fe 1 1	0	0
2	D	1	Total Fe 1 1	0	0

- Molecule 3 is STEARIC ACID (CCD ID: STE) (formula: C₁₈H₃₆O₂).



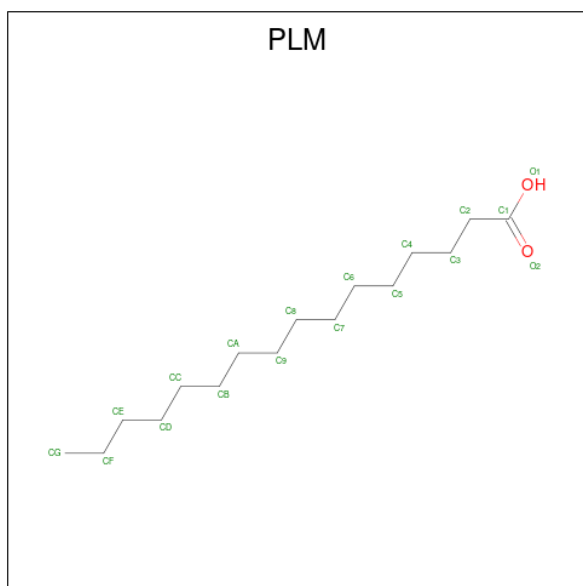
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C H O 55 18 35 2	0	0
3	D	1	Total C H O 55 18 35 2	0	0

- Molecule 4 is Elaidic acid (CCD ID: ELA) (formula: C₁₈H₃₄O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			53	18	33	2		
4	F	1	Total	C	H	O	0	0
			53	18	33	2		

- Molecule 5 is PALMITIC ACID (CCD ID: PLM) (formula: $C_{16}H_{32}O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	H	O	0	0
			49	16	31	2		
5	F	1	Total	C	H	O	0	0
			49	16	31	2		

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

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

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	189	Total 190	O 190	0	1
7	B	204	Total 205	O 205	0	1
7	C	225	Total 225	O 225	0	0
7	D	188	Total 189	O 189	0	1
7	E	195	Total 196	O 196	0	1
7	F	197	Total 198	O 198	0	1

3 Residue-property plots [i](#)

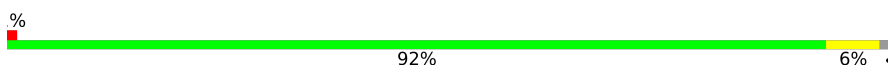
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5

Chain A: 



- Molecule 1: CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5

Chain B: 



- Molecule 1: CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5

Chain C: 



- Molecule 1: CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5

Chain D: 

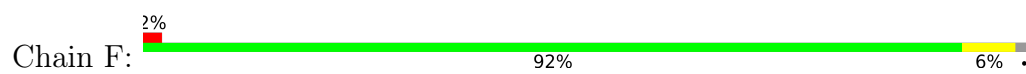


- Molecule 1: CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5

Chain E: 



- Molecule 1: CHIMERA OF BACTERIOPHAGE OBP GP146 AND A T4 GP5



4 Data and refinement statistics

Property	Value	Source
Space group	P 43	Depositor
Cell constants a, b, c, α , β , γ	140.01Å 140.01Å 63.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.50 – 1.90 49.50 – 1.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (49.50-1.90) 100.0 (49.50-1.90)	Depositor EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.99 (at 1.86Å)	Xtrriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.127 , 0.158 0.129 , 0.159	Depositor DCC
R_{free} test set	5142 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	20.7	Xtrriage
Anisotropy	0.046	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 70.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.020 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	15142	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.66% 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: STE, MG, FE2, PLM, ELA

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	0.70	0/1250	0.68	0/1691
1	B	0.66	0/1235	0.68	0/1667
1	C	0.67	0/1242	0.68	1/1676 (0.1%)
1	D	0.64	0/1279	0.66	0/1727
1	E	0.61	0/1274	0.66	0/1719
1	F	0.68	0/1206	0.68	0/1631
All	All	0.66	0/7486	0.67	1/10111 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	626	SER	N-CA-CB	-5.29	102.47	111.31

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	1142	1088	993	6	0
1	B	1151	1106	1038	10	0
1	C	1157	1107	1024	10	0
1	D	1194	1143	1070	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	1185	1134	1060	6	0
1	F	1132	1082	1027	10	0
2	A	1	0	0	0	0
2	D	1	0	0	0	0
3	A	20	35	35	3	0
3	D	20	35	35	0	0
4	A	20	33	33	3	0
4	F	20	33	33	0	0
5	B	18	31	31	2	0
5	F	18	31	31	2	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
7	A	190	0	0	3	4
7	B	205	0	0	2	5
7	C	225	0	0	5	2
7	D	189	0	0	2	3
7	E	196	0	0	3	2
7	F	198	0	0	3	1
All	All	8284	6858	6410	42	11

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.

The worst 5 of 42 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:F:566:GLU:OE1	7:F:801:HOH:O	1.65	1.10
1:B:603:ASP:OD1	7:B:801:HOH:O	1.93	0.86
1:E:523[B]:GLU:OE1	1:F:531:ASN:ND2	2.08	0.86
1:A:557[B]:MET:SD	7:A:981:HOH:O	2.34	0.86
1:C:566:GLU:OE1	7:C:801:HOH:O	1.97	0.81

The worst 5 of 11 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)
7:B:801:HOH:O	7:C:835:HOH:O[4_455]	1.63	0.57
7:B:949:HOH:O	7:B:985:HOH:O[3_564]	1.93	0.27
7:A:917:HOH:O	7:B:853:HOH:O[4_455]	2.00	0.20
7:D:940:HOH:O	7:F:982:HOH:O[3_554]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:907:HOH:O	7:B:1001:HOH:O[4_455]	2.10	0.10

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	165/148 (112%)	162 (98%)	3 (2%)	0	100	100
1	B	164/148 (111%)	161 (98%)	3 (2%)	0	100	100
1	C	167/148 (113%)	166 (99%)	1 (1%)	0	100	100
1	D	171/148 (116%)	170 (99%)	1 (1%)	0	100	100
1	E	170/148 (115%)	169 (99%)	1 (1%)	0	100	100
1	F	160/148 (108%)	159 (99%)	1 (1%)	0	100	100
All	All	997/888 (112%)	987 (99%)	10 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	130/112 (116%)	130 (100%)	0	100	100
1	B	127/112 (113%)	127 (100%)	0	100	100
1	C	129/112 (115%)	129 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	132/112 (118%)	132 (100%)	0	100	100
1	E	131/112 (117%)	131 (100%)	0	100	100
1	F	125/112 (112%)	125 (100%)	0	100	100
All	All	774/672 (115%)	774 (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. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	528	ASN
1	F	526	GLN
1	F	528	ASN
1	B	528	ASN
1	C	526	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 4 are monoatomic - leaving 6 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
5	PLM	B	701	-	17,17,17	0.65	0	17,17,17	1.22	2 (11%)
4	ELA	A	703	-	19,19,19	0.51	0	19,19,19	0.87	1 (5%)
3	STE	D	703	-	19,19,19	0.64	0	19,19,19	0.94	0
3	STE	A	702	-	19,19,19	0.55	0	19,19,19	1.09	0
4	ELA	F	701	-	19,19,19	0.55	0	19,19,19	0.70	0
5	PLM	F	702	-	17,17,17	0.65	0	17,17,17	1.03	1 (5%)

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
5	PLM	B	701	-	-	5/15/15/15	-
4	ELA	A	703	-	-	11/17/17/17	-
3	STE	D	703	-	-	9/17/17/17	-
3	STE	A	702	-	-	12/17/17/17	-
4	ELA	F	701	-	-	10/17/17/17	-
5	PLM	F	702	-	-	8/15/15/15	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	701	PLM	C3-C2-C1	-2.40	108.25	114.51
5	F	702	PLM	O1-C1-C2	2.38	121.51	114.00
4	A	703	ELA	C3-CA-C	-2.17	108.85	114.51
5	B	701	PLM	O1-C1-C2	2.11	120.66	114.00

There are no chirality outliers.

5 of 55 torsion outliers are listed below:

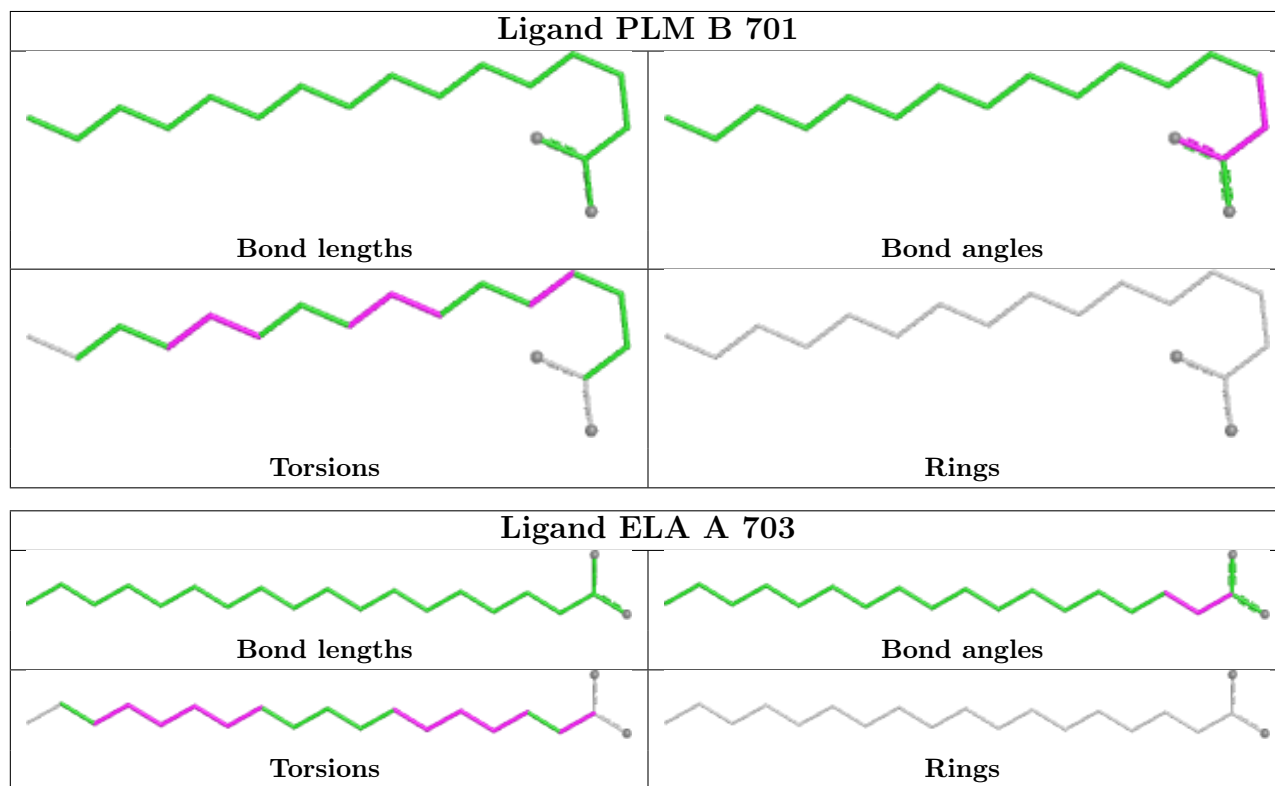
Mol	Chain	Res	Type	Atoms
4	F	701	ELA	C14-C15-C16-C17
3	A	702	STE	C11-C10-C9-C8
3	A	702	STE	C3-C4-C5-C6
4	A	703	ELA	C14-C15-C16-C17
4	F	701	ELA	CA-C3-C4-C5

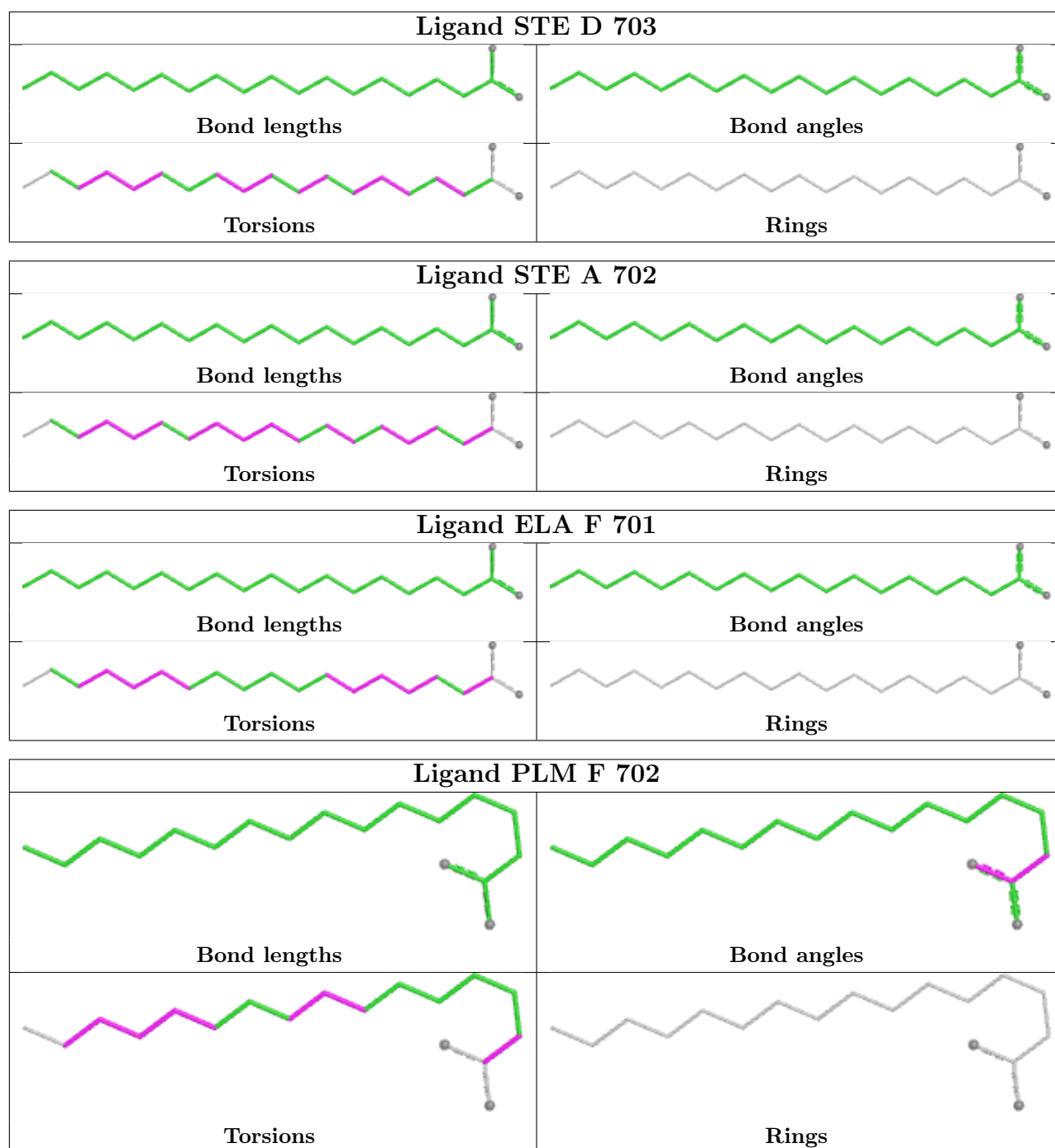
There are no ring outliers.

4 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	701	PLM	2	0
4	A	703	ELA	3	0
3	A	702	STE	3	0
5	F	702	PLM	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.





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	145/148 (97%)	-0.80	1 (0%) 84 86	8, 25, 48, 110	11 (7%)
1	B	145/148 (97%)	-0.75	1 (0%) 84 86	7, 24, 56, 117	11 (7%)
1	C	146/148 (98%)	-0.68	3 (2%) 63 67	12, 25, 50, 88	12 (8%)
1	D	145/148 (97%)	-0.73	2 (1%) 73 76	9, 23, 49, 112	17 (11%)
1	E	145/148 (97%)	-0.68	1 (0%) 84 86	7, 24, 59, 109	16 (11%)
1	F	145/148 (97%)	-0.69	3 (2%) 63 67	9, 25, 58, 102	10 (6%)
All	All	871/888 (98%)	-0.72	11 (1%) 75 78	7, 24, 56, 117	77 (8%)

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	482	GLY	3.9
1	A	483	SER	3.0
1	B	483	SER	2.9
1	F	483	SER	2.8
1	D	627	ALA	2.8

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

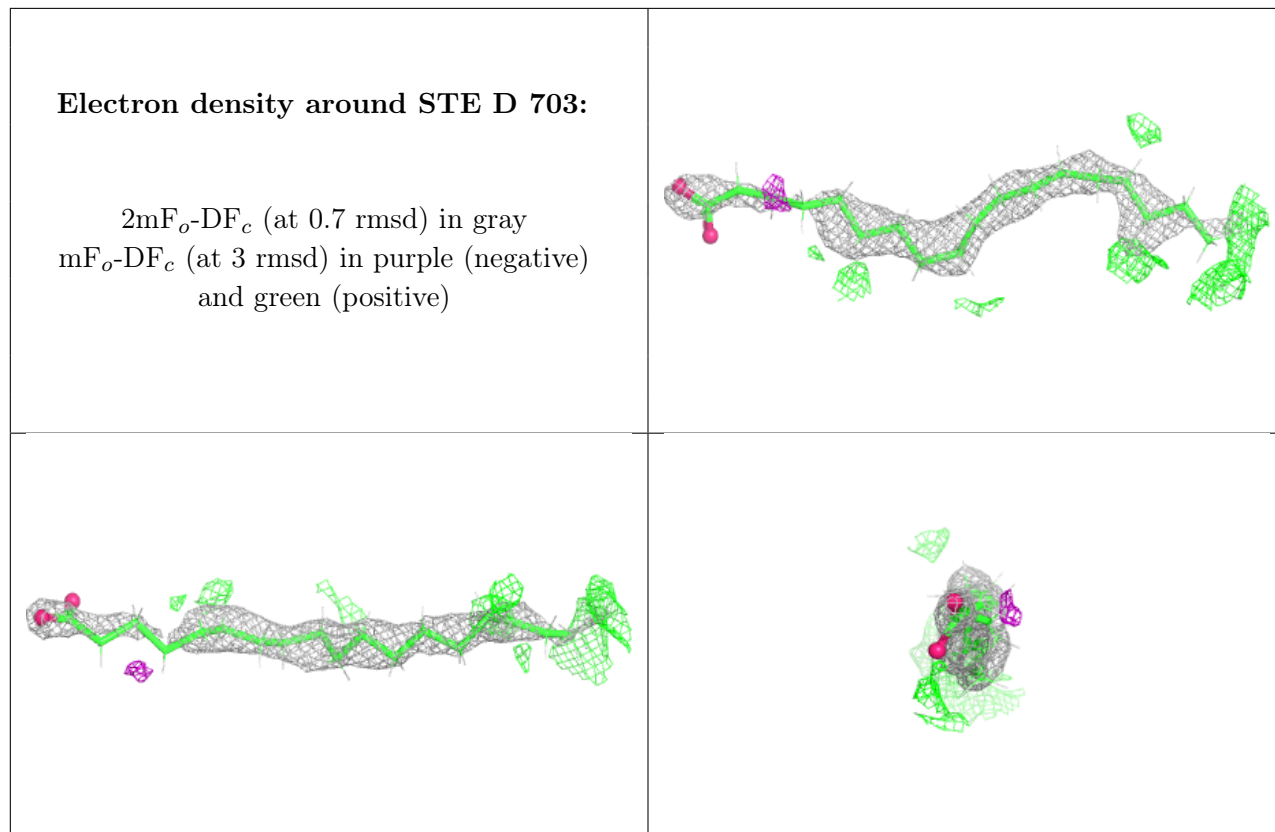
There are no oligosaccharides in this entry.

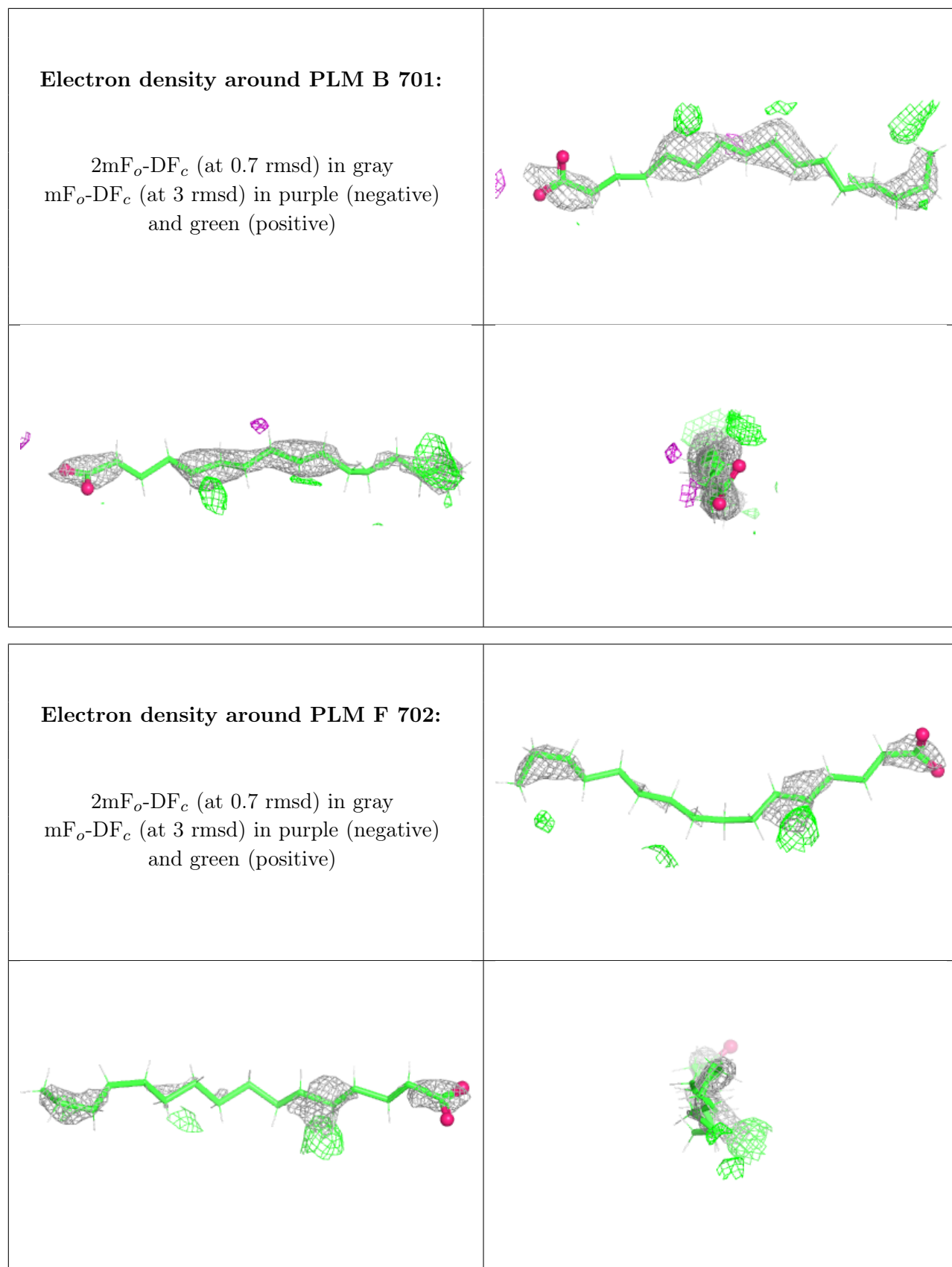
6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	STE	D	703	20/20	0.83	0.19	55,77,96,105	0
5	PLM	B	701	18/18	0.83	0.22	56,81,96,102	0
5	PLM	F	702	18/18	0.84	0.20	59,84,99,99	0
4	ELA	F	701	20/20	0.85	0.20	54,75,94,97	0
4	ELA	A	703	20/20	0.88	0.19	56,75,101,101	0
3	STE	A	702	20/20	0.89	0.17	39,77,93,93	0
2	FE2	A	701	1/1	0.99	0.04	12,12,12,12	0
2	FE2	D	701	1/1	0.99	0.04	13,13,13,13	0
6	MG	C	701	1/1	1.00	0.02	22,22,22,22	0
6	MG	D	702	1/1	1.00	0.01	21,21,21,21	0

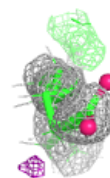
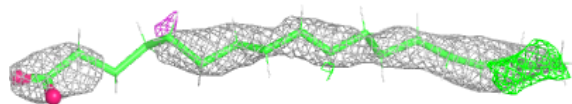
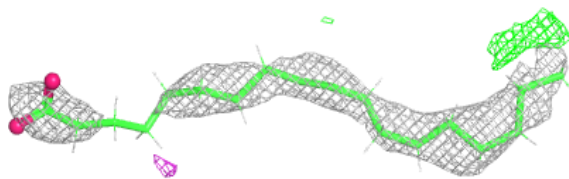
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



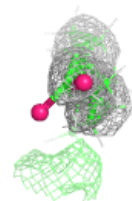
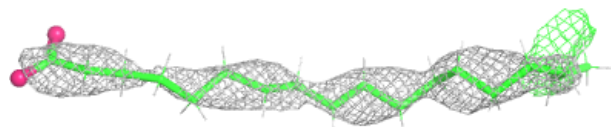
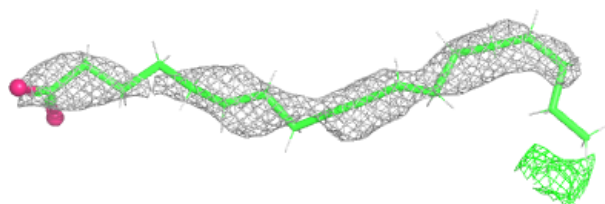


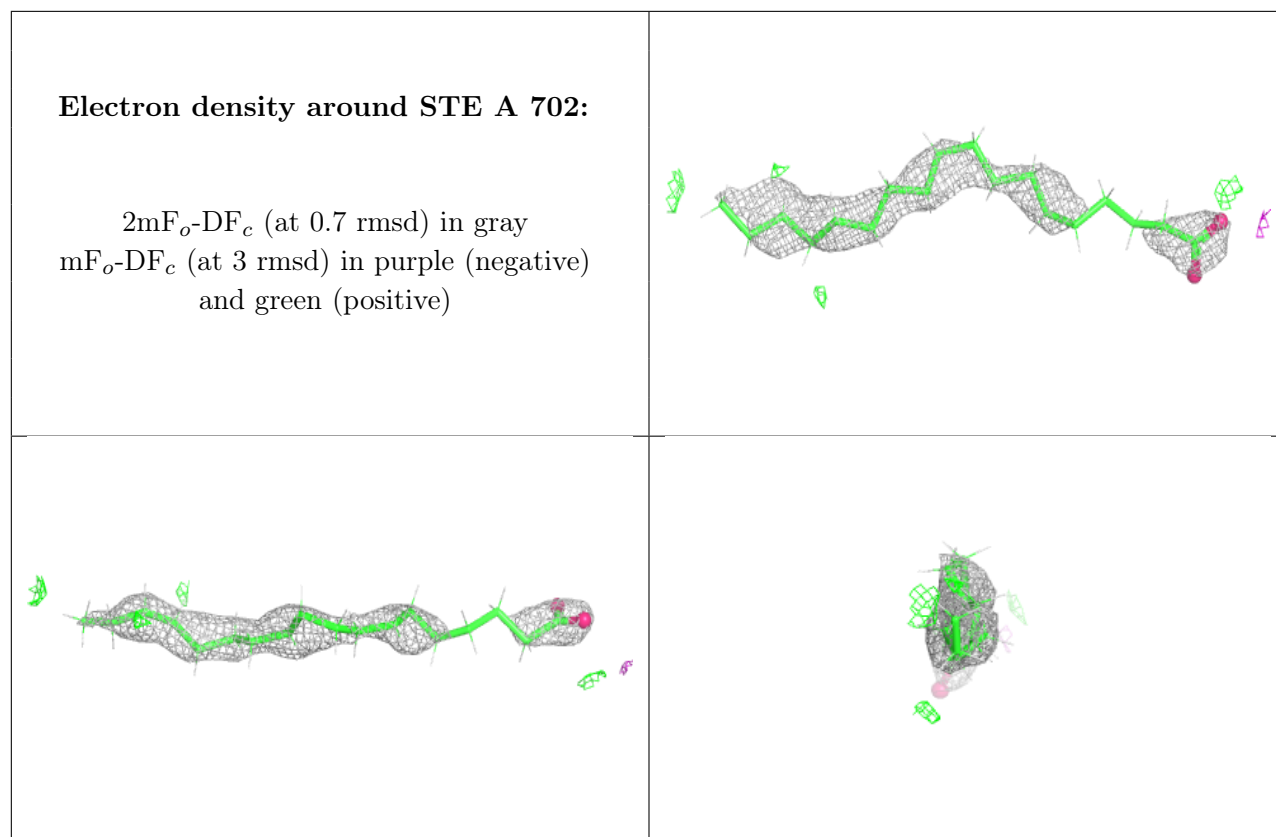
Electron density around ELA F 701:

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

**Electron density around ELA A 703:**

$2mF_o-DF_c$ (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.