WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report (i)

Nov 7, 2023 – 03:06 PM JST

PDB ID	:	7CNW
Title	:	Crystal structure of Apo PSD from E. coli (1.90 A)
Authors	:	Kim, J.; Cho, G.
Deposited on	:	2020-08-03
Resolution	:	1.90 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 (i) symbol.

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

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.
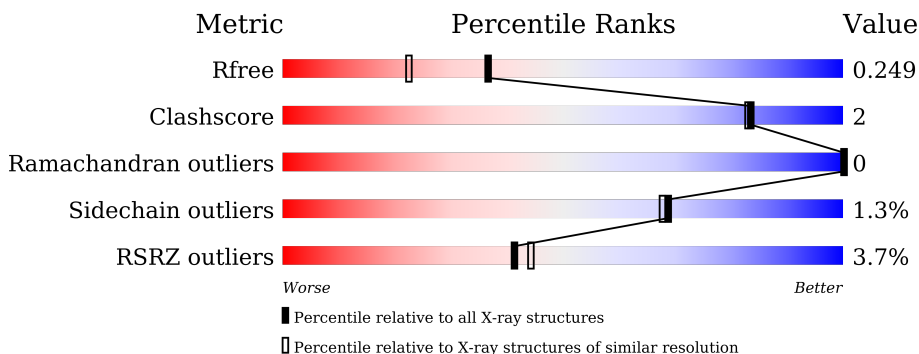
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 <=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	253	.% 93% 7%
1	C	253	6% 92% 7% •
2	B	42	76% 5% 19%
2	D	42	10% 69% 12% 19%

2 Entry composition ⓘ

There are 5 unique types of molecules in this entry. The entry contains 4717 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 Phosphatidylserine decarboxylase beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	253	Total 2005	C 1299	N 344	O 351	S 11	0	1	0
1	C	250	Total 1969	C 1274	N 335	O 351	S 9	0	0	0

- Molecule 2 is a protein called Phosphatidylserine decarboxylase alpha chain.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	34	Total 240	C 156	N 38	O 46	0	0	0
2	D	34	Total 236	C 154	N 38	O 44	0	0	0

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	254	PYR	SER	modified residue	UNP A0A6D2XQZ0
B	288	GLY	-	expression tag	UNP A0A6D2XQZ0
B	289	HIS	-	expression tag	UNP A0A6D2XQZ0
B	290	HIS	-	expression tag	UNP A0A6D2XQZ0
B	291	HIS	-	expression tag	UNP A0A6D2XQZ0
B	292	HIS	-	expression tag	UNP A0A6D2XQZ0
B	293	HIS	-	expression tag	UNP A0A6D2XQZ0
B	294	HIS	-	expression tag	UNP A0A6D2XQZ0
B	295	GLY	-	expression tag	UNP A0A6D2XQZ0
D	254	PYR	SER	modified residue	UNP A0A6D2XQZ0
D	288	GLY	-	expression tag	UNP A0A6D2XQZ0
D	289	HIS	-	expression tag	UNP A0A6D2XQZ0
D	290	HIS	-	expression tag	UNP A0A6D2XQZ0
D	291	HIS	-	expression tag	UNP A0A6D2XQZ0
D	292	HIS	-	expression tag	UNP A0A6D2XQZ0
D	293	HIS	-	expression tag	UNP A0A6D2XQZ0

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Chain	Residue	Modelled	Actual	Comment	Reference
D	294	HIS	-	expression tag	UNP A0A6D2XQZ0
D	295	GLY	-	expression tag	UNP A0A6D2XQZ0

- Molecule 3 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).
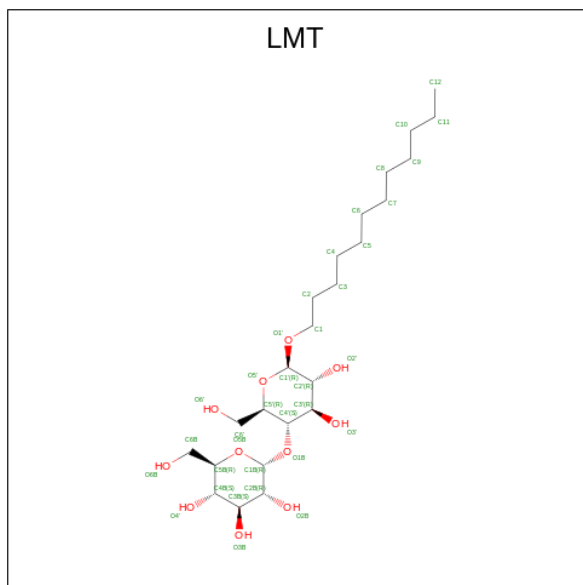
LMT

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total 25	C 14	O 11	0	0
3	A	1	Total 35	C 24	O 11	0	0
3	C	1	Total 26	C 15	O 11	0	0

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	2	Total 2	Na 2	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	110	Total 110	O 110	0	0

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| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	12	Total 12	O 12	0	0
5	C	53	Total 53	O 53	0	0
5	D	4	Total 4	O 4	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.
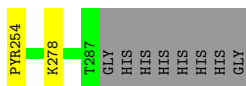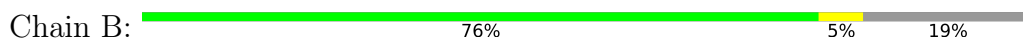
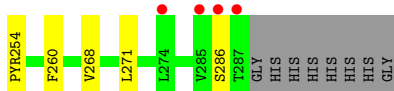• Molecule 1: Phosphatidylserine decarboxylase beta chain

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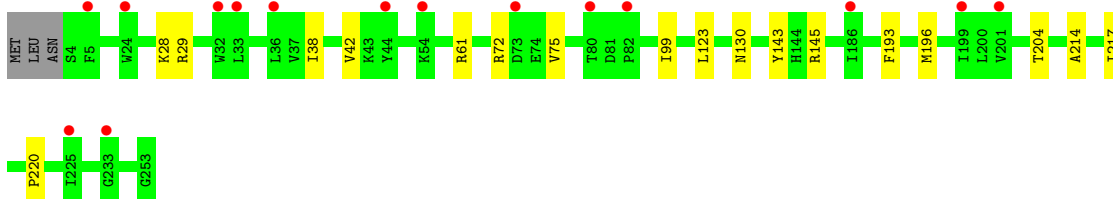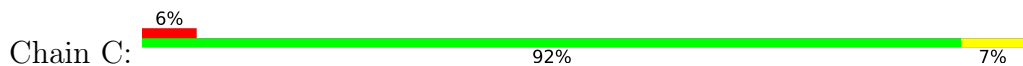
• Molecule 2: Phosphatidylserine decarboxylase alpha chain

• Molecule 2: Phosphatidylserine decarboxylase alpha chain

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	77.44Å 79.82Å 147.09Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.81 – 1.90	Depositor
	41.78 – 1.90	EDS
% Data completeness (in resolution range)	98.6 (41.81-1.90)	Depositor
	98.6 (41.78-1.90)	EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.28 (at 1.89Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.211 , 0.243	Depositor
	0.221 , 0.249	DCC
R_{free} test set	3593 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	33.9	Xtriage
Anisotropy	0.104	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.37 , 52.1	EDS
L-test for twinning[2]	$< |L| > = 0.48, < L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.026 for k,h,-l	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	4717	wwPDB-VP
Average B, all atoms (Å^2)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.11% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: NA, LMT, PYR

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	0/2058	0.84	1/2793 (0.0%)
1	C	0.70	0/2019	0.80	0/2745
2	B	0.76	0/237	0.84	0/324
2	D	0.76	0/233	0.79	0/319
All	All	0.71	0/4547	0.82	1/6181 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	1
2	D	0	1
All	All	0	2

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	181	ARG	NE-CZ-NH2	-6.46	117.07	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	254	PYR	Mainchain
2	D	254	PYR	Mainchain

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2005	0	2026	8	0
1	C	1969	0	1961	11	0
2	B	240	0	253	1	0
2	D	236	0	249	4	0
3	A	60	0	69	1	0
3	C	26	0	25	0	0
4	A	2	0	0	0	0
5	A	110	0	0	1	0
5	B	12	0	0	0	0
5	C	53	0	0	3	0
5	D	4	0	0	0	0
All	All	4717	0	4583	22	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 2.

All (22) 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)
5:A:401:HOH:O	2:B:278:LYS:HE2	1.88	0.72
1:C:72:ARG:O	1:C:75:VAL:HG22	2.01	0.60
1:A:123:LEU:HD11	1:C:123:LEU:HD11	1.87	0.55
1:A:51:GLU:HG2	1:A:75:VAL:HG21	1.89	0.53
1:C:99:ILE:O	1:C:130:ASN:HA	2.11	0.50
1:A:143:TYR:CZ	1:A:145:ARG:HB2	2.47	0.49
1:C:29:ARG:HA	1:C:61:ARG:O	2.15	0.47
1:A:99:ILE:O	1:A:130:ASN:HA	2.14	0.46
1:A:72:ARG:O	1:A:75:VAL:HG12	2.15	0.46
1:C:214:ALA:HB3	1:C:217:ILE:HD11	1.98	0.46
1:A:214:ALA:HB3	1:A:217:ILE:HD11	1.98	0.45
1:C:143:TYR:CZ	1:C:145:ARG:HB2	2.52	0.45
1:C:220:PRO:HD2	5:C:437:HOH:O	2.17	0.44
1:C:38:ILE:O	1:C:42:VAL:HG23	2.17	0.44
3:A:302:LMT:C1B	3:A:302:LMT:O3'	2.66	0.43
1:C:220:PRO:HG2	5:C:437:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:268:VAL:CG2	2:D:271:LEU:HG	2.49	0.42
1:C:196:MET:HG3	2:D:260:PHE:CE1	2.53	0.42
1:C:193:PHE:CE1	2:D:286:SER:HB2	2.55	0.41
1:A:227:ARG:HD2	5:C:404:HOH:O	2.20	0.41
1:A:38:ILE:O	1:A:42:VAL:HG23	2.20	0.41
2:D:268:VAL:HG23	2:D:271:LEU:HG	2.03	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	252/253 (100%)	244 (97%)	8 (3%)	0	100	100
1	C	248/253 (98%)	239 (96%)	9 (4%)	0	100	100
2	B	32/42 (76%)	30 (94%)	2 (6%)	0	100	100
2	D	32/42 (76%)	30 (94%)	2 (6%)	0	100	100
All	All	564/590 (96%)	543 (96%)	21 (4%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	212/216 (98%)	208 (98%)	4 (2%)	57	53
1	C	207/216 (96%)	205 (99%)	2 (1%)	76	76
2	B	27/35 (77%)	27 (100%)	0	100	100
2	D	26/35 (74%)	26 (100%)	0	100	100
All	All	472/502 (94%)	466 (99%)	6 (1%)	69	68

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	28	LYS
1	A	98	LYS
1	A	163	ASP
1	A	204	THR
1	C	28	LYS
1	C	204	THR

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 ⓘ

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

5.5   Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6   Ligand geometry ⓘ

Of 5 ligands modelled in this entry, 2 are monoatomic - leaving 3 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	$\#|Z| > 2$
3	LMT	C	301	-	27,27,36	0.71	0	37,38,47	1.04	3 (8%)
3	LMT	A	301	-	26,26,36	1.14	1 (3%)	37,37,47	2.02	9 (24%)
3	LMT	A	302	-	36,36,36	0.84	1 (2%)	47,47,47	1.09	5 (10%)

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
3	LMT	C	301	-	-	3/12/52/61	0/2/2/2
3	LMT	A	301	-	-	8/11/51/61	0/2/2/2
3	LMT	A	302	-	-	12/21/61/61	0/2/2/2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	302	LMT	O1'-C1'	2.88	1.45	1.40
3	A	301	LMT	O1'-C1'	2.58	1.44	1.40

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	301	LMT	O3'-C3'-C4'	4.94	123.04	109.94
3	A	301	LMT	C1'-C2'-C3'	4.36	119.07	110.00
3	A	301	LMT	C1B-O1B-C4'	3.98	127.82	117.96
3	A	301	LMT	O5'-C1'-C2'	3.60	117.97	110.35
3	A	301	LMT	O2'-C2'-C3'	-3.58	102.06	110.35
3	A	301	LMT	O1B-C4'-C3'	3.56	116.74	107.28
3	A	301	LMT	O1B-C4'-C5'	2.98	117.62	109.45
3	A	302	LMT	O2'-C2'-C3'	-2.98	103.47	110.35
3	A	301	LMT	C6B-C5B-C4B	2.93	119.87	113.00
3	A	301	LMT	C2'-C3'-C4'	-2.47	104.04	109.68
3	C	301	LMT	O2'-C2'-C1'	-2.41	104.19	110.05
3	A	302	LMT	C1-O1'-C1'	2.40	117.81	113.84
3	C	301	LMT	O5B-C5B-C6B	2.25	112.03	106.44
3	A	302	LMT	O5'-C5'-C4'	2.25	114.49	109.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	301	LMT	O1'-C1'-C2'	2.24	111.80	108.30
3	A	302	LMT	O1'-C1'-C2'	2.17	111.69	108.30
3	A	302	LMT	O5B-C1B-C2B	-2.05	106.00	110.35

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	LMT	O5'-C1'-O1'-C1
3	A	302	LMT	O5B-C1B-O1B-C4'
3	A	301	LMT	O5'-C5'-C6'-O6'
3	C	301	LMT	C4'-C5'-C6'-O6'
3	A	301	LMT	C4B-C5B-C6B-O6B
3	C	301	LMT	O5'-C5'-C6'-O6'
3	A	301	LMT	C5'-C4'-O1B-C1B
3	A	302	LMT	C3'-C4'-O1B-C1B
3	A	302	LMT	O5'-C5'-C6'-O6'
3	A	301	LMT	C4'-C5'-C6'-O6'
3	A	302	LMT	C4'-C5'-C6'-O6'
3	A	301	LMT	C2'-C1'-O1'-C1
3	A	301	LMT	O5B-C5B-C6B-O6B
3	A	302	LMT	C5'-C4'-O1B-C1B
3	A	302	LMT	C7-C8-C9-C10
3	A	302	LMT	C4-C5-C6-C7
3	A	302	LMT	C1-C2-C3-C4
3	A	302	LMT	C2-C3-C4-C5
3	A	302	LMT	C5-C6-C7-C8
3	A	302	LMT	C9-C10-C11-C12
3	C	301	LMT	O1'-C1-C2-C3
3	A	301	LMT	C3'-C4'-O1B-C1B
3	A	302	LMT	O5B-C5B-C6B-O6B

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302	LMT	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 then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand LMT C 301

Bond lengths

Bond angles

Torsions

Rings

Ligand LMT A 301

Bond lengths

Bond angles

Torsions

Rings

Ligand LMT A 302

Bond lengths

Bond angles

Torsions

Rings
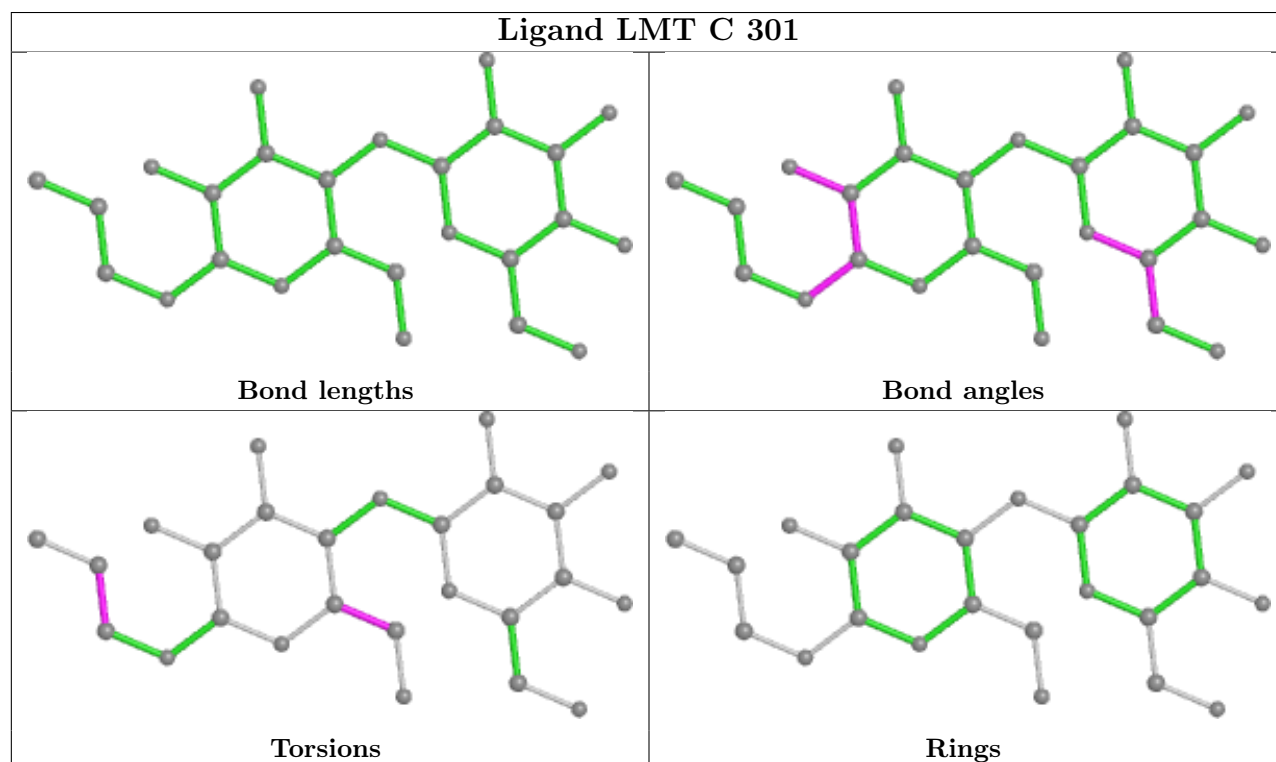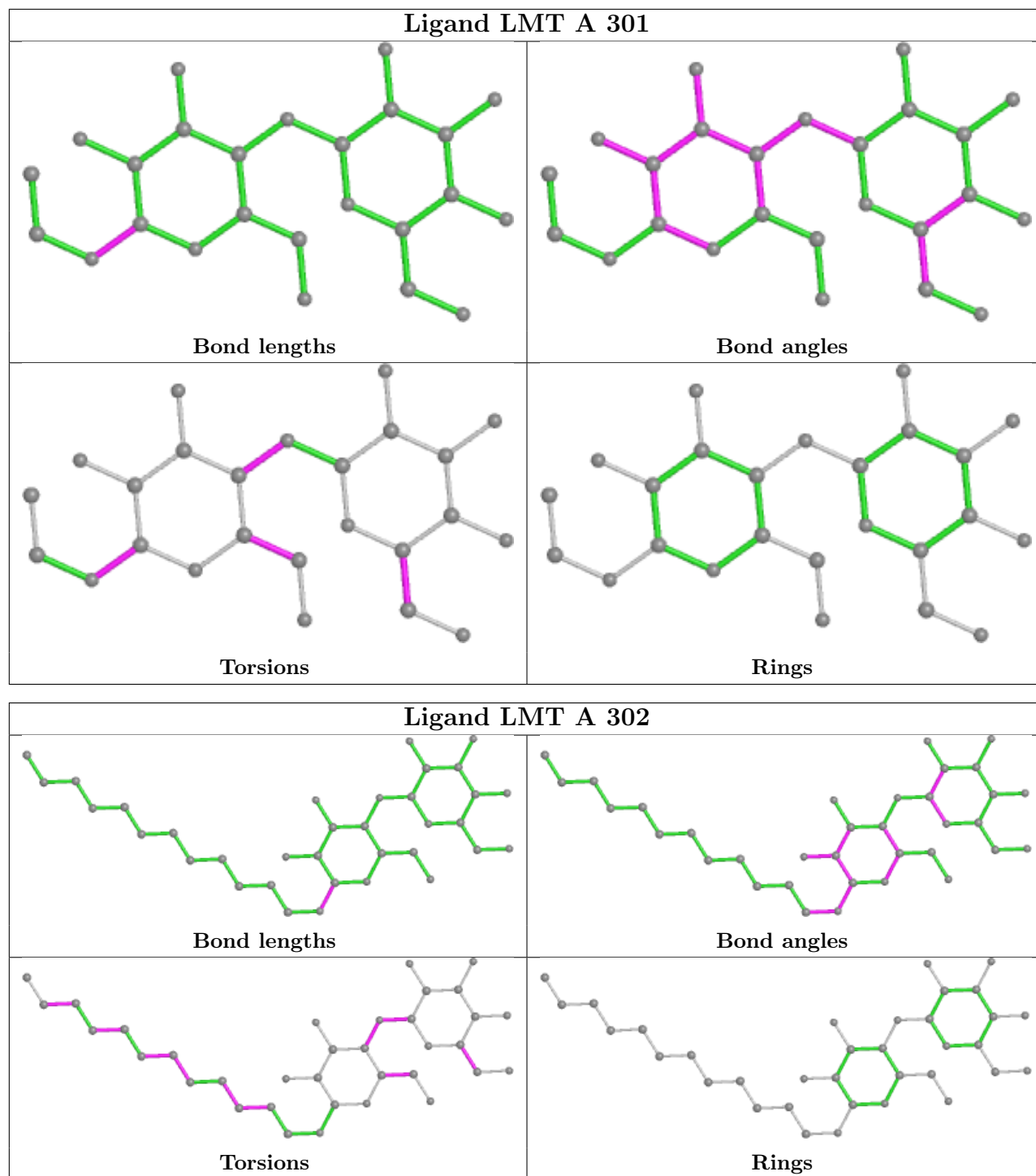
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data (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(Å²)	Q<0.9
1	A	253/253 (100%)	0.09	2 (0%)	86	87	22, 34, 54, 72	0
1	C	250/253 (98%)	0.51	15 (6%)	21	24	27, 46, 67, 81	0
2	B	33/42 (78%)	-0.06	0	100	100	24, 36, 48, 51	0
2	D	33/42 (78%)	0.64	4 (12%)	4	4	34, 50, 59, 65	0
All	All	569/590 (96%)	0.30	21 (3%)	41	44	22, 41, 63, 81	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	44	TYR	6.2
1	C	32	TRP	4.5
1	C	24	TRP	4.4
1	C	5	PHE	3.4
2	D	286	SER	3.3
1	C	186	ILE	3.0
1	C	225	ILE	2.9
1	A	44	TYR	2.9
1	C	33	LEU	2.7
1	C	199	ILE	2.6
2	D	287	THR	2.4
1	C	36	LEU	2.4
1	C	82	PRO	2.3
1	A	234	GLU	2.3
1	C	73	ASP	2.2
1	C	54	LYS	2.2
2	D	274	LEU	2.2
1	C	80	THR	2.2
1	C	201	VAL	2.2
2	D	285	VAL	2.0
1	C	233	GLY	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(Å^2)	Q<0.9
3	LMT	A	302	35/35	0.60	0.29	56,81,125,129	0
3	LMT	A	301	25/35	0.85	0.17	45,56,67,81	0
3	LMT	C	301	26/35	0.88	0.18	44,63,72,74	0
4	NA	A	303	1/1	0.89	0.11	47,47,47,47	0
4	NA	A	304	1/1	0.99	0.18	32,32,32,32	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.
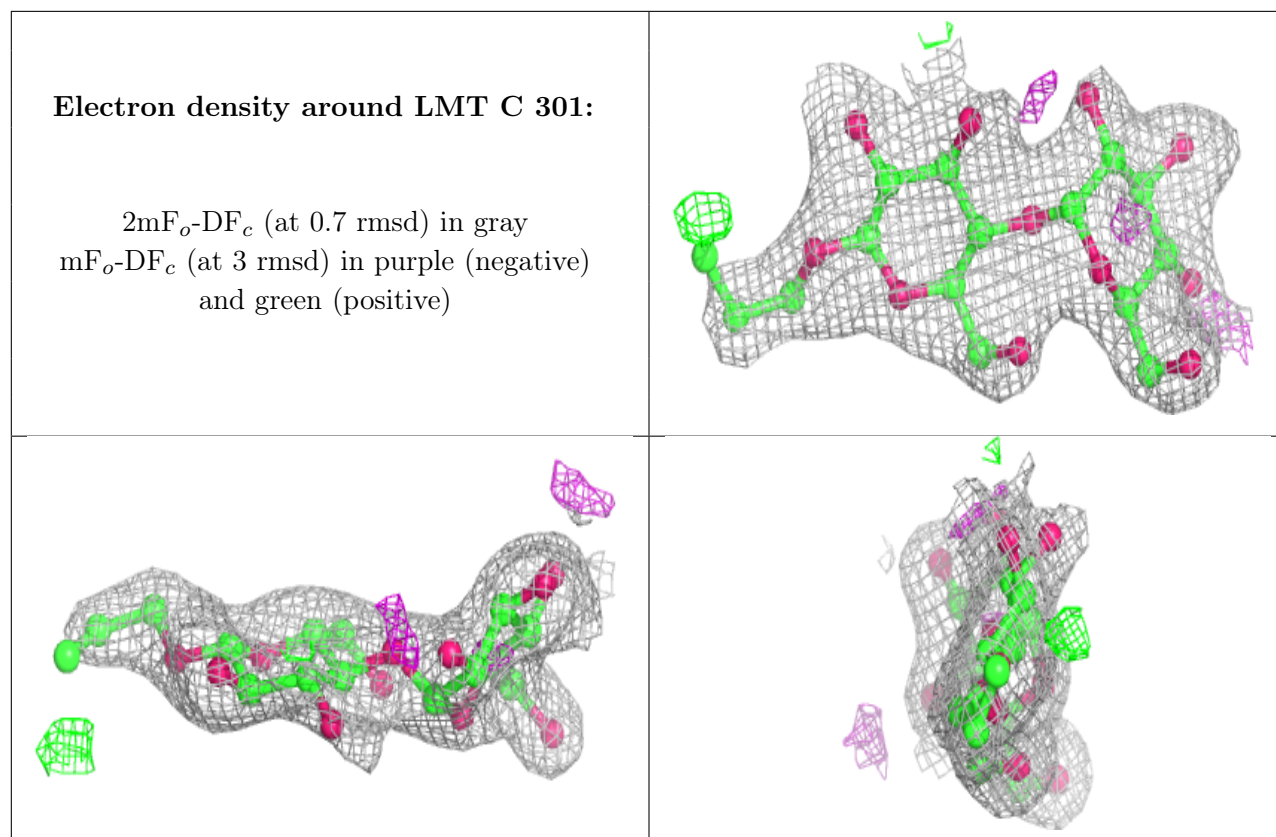
Electron density around LMT A 302:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
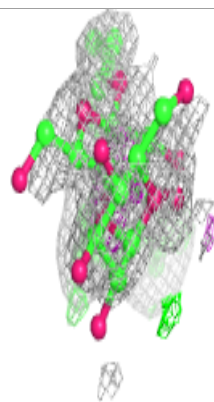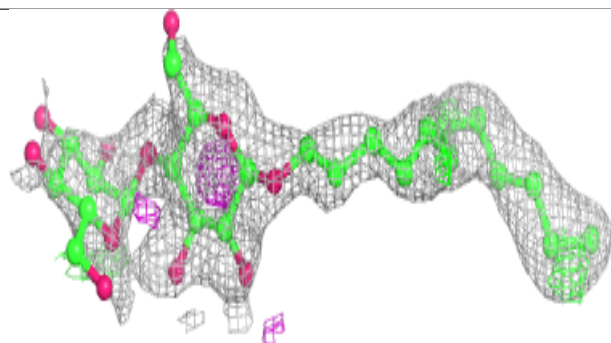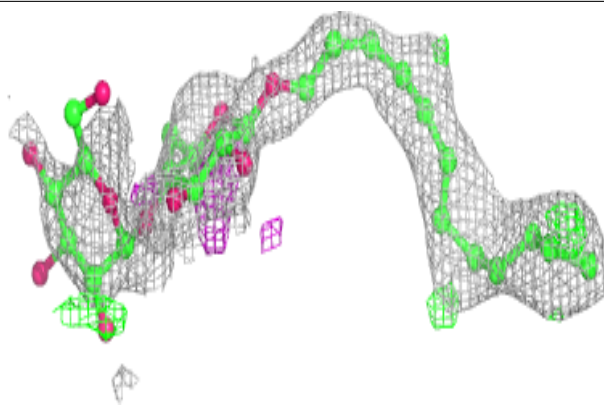
Electron density around LMT A 301:

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

Electron density around LMT C 301:

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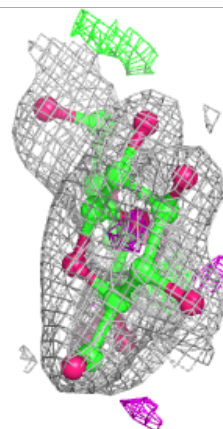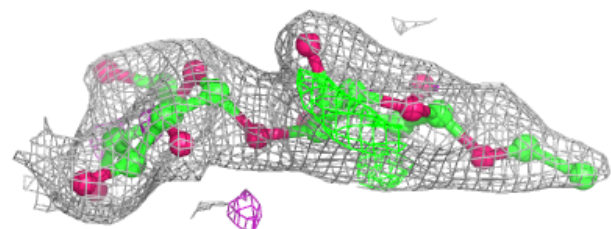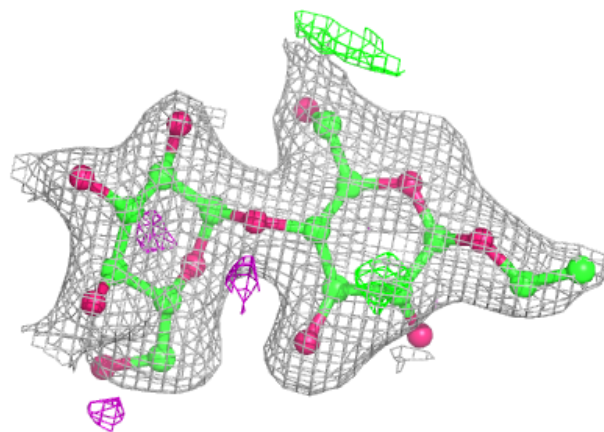
6.5 Other polymers (i)

There are no such residues in this entry.