



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 5, 2024 – 12:30 am GMT

PDB ID : 5BZB
Title : NavMs voltage-gated sodium channel pore and C-terminal domain
Authors : Naylor, C.E.; Bagneris, C.; Wallace, B.A.
Deposited on : 2015-06-11
Resolution : 2.70 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 : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

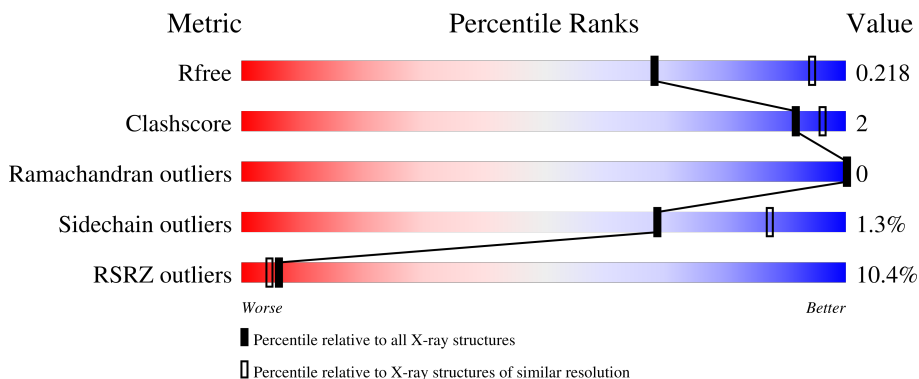
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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}	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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	149	 6% 59% 38%
1	B	149	 7% 58% 40%
1	C	149	 7% 58% 39%
1	D	149	 6% 56% 5% 39%

2 Entry composition i

There are 5 unique types of molecules in this entry. The entry contains 3269 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.

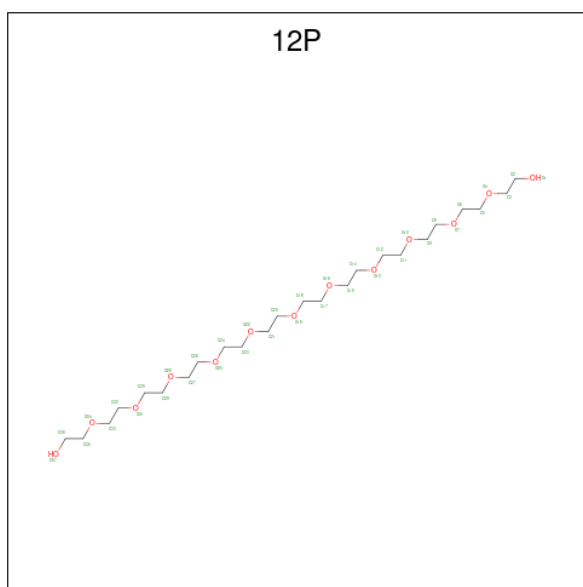
- Molecule 1 is a protein called Ion transport protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	92	718	488	106	119	5	0	0	0
1	B	90	711	483	104	119	5	0	0	0
1	C	91	715	485	105	120	5	0	0	0
1	D	91	712	482	105	120	5	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	126	GLY	-	expression tag	UNP A0L5S6
A	127	SER	-	expression tag	UNP A0L5S6
A	128	HIS	-	expression tag	UNP A0L5S6
A	129	MET	-	expression tag	UNP A0L5S6
B	126	GLY	-	expression tag	UNP A0L5S6
B	127	SER	-	expression tag	UNP A0L5S6
B	128	HIS	-	expression tag	UNP A0L5S6
B	129	MET	-	expression tag	UNP A0L5S6
C	126	GLY	-	expression tag	UNP A0L5S6
C	127	SER	-	expression tag	UNP A0L5S6
C	128	HIS	-	expression tag	UNP A0L5S6
C	129	MET	-	expression tag	UNP A0L5S6
D	126	GLY	-	expression tag	UNP A0L5S6
D	127	SER	-	expression tag	UNP A0L5S6
D	128	HIS	-	expression tag	UNP A0L5S6
D	129	MET	-	expression tag	UNP A0L5S6

- Molecule 2 is DODECAETHYLENE GLYCOL (three-letter code: 12P) (formula: C₂₄H₅₀O₁₃).

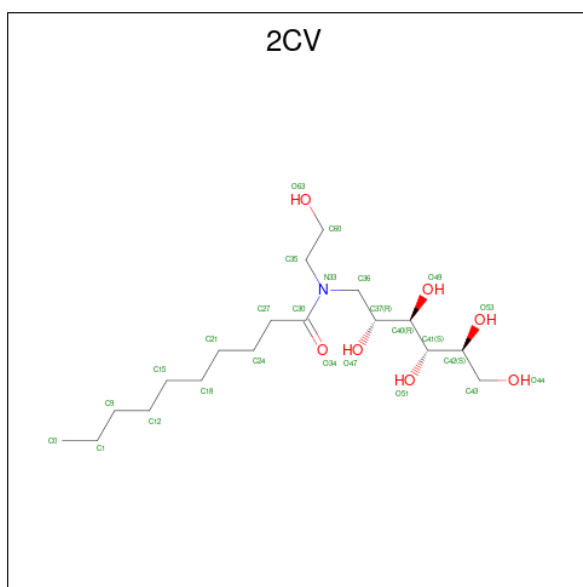


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	C O	0	0
			16	10 6		
2	B	1	Total	C O	0	0
			16	10 6		
2	C	1	Total	C O	0	0
			16	10 6		

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

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

- Molecule 4 is HEGA-10 (three-letter code: 2CV) (formula: C₁₈H₃₇NO₇).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
4	B	1	Total	C	N	O	0	0
			26	18	1	7		
4	B	1	Total	C	N	O	0	0
			26	18	1	7		
4	D	1	Total	C	N	O	0	0
			26	18	1	7		
4	D	1	Total	C	N	O	0	0
			26	18	1	7		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	60	Total	O	0	0
			60	60		
5	B	61	Total	O	0	0
			61	61		
5	C	66	Total	O	0	0
			66	66		
5	D	68	Total	O	0	0
			68	68		

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	80.34Å 332.76Å 80.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	57.81 – 2.70 57.81 – 2.70	Depositor EDS
% Data completeness (in resolution range)	99.8 (57.81-2.70) 99.8 (57.81-2.70)	Depositor EDS
R_{merge}	0.24	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.92 (at 2.69Å)	Xtrriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.178 , 0.214 0.186 , 0.218	Depositor DCC
R_{free} test set	1548 reflections (5.14%)	wwPDB-VP
Wilson B-factor (Å ²)	26.8	Xtrriage
Anisotropy	1.280	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 80.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	3269	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.51% 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: 2CV, 12P, NA

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	0.52	0/740	0.62	0/1015
1	B	0.51	0/733	0.62	0/1005
1	C	0.52	0/737	0.61	0/1010
1	D	0.51	0/734	0.61	0/1006
All	All	0.51	0/2944	0.61	0/4036

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	718	0	726	2	0
1	B	711	0	721	3	0
1	C	715	0	724	2	0
1	D	712	0	715	3	0
2	A	16	0	21	0	0
2	B	16	0	21	0	0
2	C	16	0	21	0	0
3	A	3	0	0	0	0
3	C	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	1	0	0	0	0
4	B	52	0	74	2	0
4	D	52	0	74	0	0
5	A	60	0	0	0	0
5	B	61	0	0	0	0
5	C	66	0	0	0	0
5	D	68	0	0	0	0
All	All	3269	0	3097	10	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 (10) 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:B:166:LYS:HG2	4:B:301:2CV:H41	1.78	0.66
1:B:189:MET:HB3	4:B:302:2CV:H431	1.90	0.54
1:C:194:ASN:O	1:C:197:VAL:HG12	2.10	0.52
1:B:157:PHE:CZ	1:B:188:VAL:HA	2.50	0.45
1:A:157:PHE:CZ	1:A:188:VAL:HA	2.53	0.44
1:A:142:PHE:HZ	1:A:172:PHE:HA	1.84	0.43
1:D:189:MET:HA	1:D:192:HIS:O	2.20	0.41
1:D:157:PHE:CZ	1:D:188:VAL:HA	2.55	0.41
1:C:189:MET:HA	1:C:192:HIS:O	2.20	0.41
1:D:180:TRP:O	1:D:185:VAL:HG23	2.21	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	90/149 (60%)	86 (96%)	4 (4%)	0	100	100
1	B	88/149 (59%)	86 (98%)	2 (2%)	0	100	100
1	C	89/149 (60%)	85 (96%)	4 (4%)	0	100	100
1	D	89/149 (60%)	85 (96%)	4 (4%)	0	100	100
All	All	356/596 (60%)	342 (96%)	14 (4%)	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	77/129 (60%)	76 (99%)	1 (1%)	69	87
1	B	78/129 (60%)	78 (100%)	0	100	100
1	C	78/129 (60%)	77 (99%)	1 (1%)	69	87
1	D	77/129 (60%)	75 (97%)	2 (3%)	46	75
All	All	310/516 (60%)	306 (99%)	4 (1%)	69	87

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	142	PHE
1	C	142	PHE
1	D	142	PHE
1	D	211	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 13 ligands modelled in this entry, 6 are monoatomic - leaving 7 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	12P	C	301	-	15,15,36	0.12	0	14,14,35	0.13	0
2	12P	B	303	-	15,15,36	0.14	0	14,14,35	0.14	0
2	12P	A	301	-	15,15,36	0.15	0	14,14,35	0.10	0
4	2CV	B	301	-	25,25,25	0.36	0	29,30,30	0.69	2 (6%)
4	2CV	D	301	-	25,25,25	0.22	0	29,30,30	0.78	1 (3%)
4	2CV	D	302	-	25,25,25	0.17	0	29,30,30	0.63	0
4	2CV	B	302	-	25,25,25	0.20	0	29,30,30	0.99	3 (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
2	12P	C	301	-	-	7/13/13/34	-
2	12P	B	303	-	-	8/13/13/34	-
2	12P	A	301	-	-	9/13/13/34	-
4	2CV	B	301	-	-	7/34/34/34	-
4	2CV	D	301	-	-	13/34/34/34	-
4	2CV	D	302	-	-	10/34/34/34	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	2CV	B	302	-	-	9/34/34/34	-

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	302	2CV	O47-C37-C40	3.13	116.70	109.10
4	D	301	2CV	C35-N33-C36	2.86	119.81	116.41
4	B	302	2CV	C37-C40-C41	2.48	116.35	112.47
4	B	301	2CV	O47-C37-C40	2.29	114.67	109.10
4	B	302	2CV	C35-N33-C36	2.26	119.09	116.41
4	B	301	2CV	C37-C40-C41	2.09	115.73	112.47

There are no chirality outliers.

All (63) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	301	2CV	N33-C36-C37-C40
4	B	301	2CV	N33-C36-C37-O47
4	B	301	2CV	C36-C37-C40-C41
4	B	301	2CV	C36-C37-C40-O49
4	B	301	2CV	O47-C37-C40-C41
4	B	301	2CV	O47-C37-C40-O49
4	B	302	2CV	N33-C36-C37-C40
4	B	302	2CV	N33-C36-C37-O47
4	B	302	2CV	C36-C37-C40-C41
4	B	302	2CV	C36-C37-C40-O49
4	B	302	2CV	O47-C37-C40-C41
4	B	302	2CV	O47-C37-C40-O49
4	B	302	2CV	O49-C40-C41-C42
4	D	301	2CV	N33-C36-C37-O47
4	D	301	2CV	C36-C37-C40-C41
4	D	301	2CV	C36-C37-C40-O49
4	D	301	2CV	O47-C37-C40-C41
4	D	301	2CV	O47-C37-C40-O49
4	D	301	2CV	C37-C40-C41-C42
4	D	301	2CV	C37-C40-C41-O51
4	D	301	2CV	O49-C40-C41-C42
4	D	301	2CV	O49-C40-C41-O51
4	D	302	2CV	N33-C36-C37-O47
4	D	302	2CV	C36-C37-C40-C41

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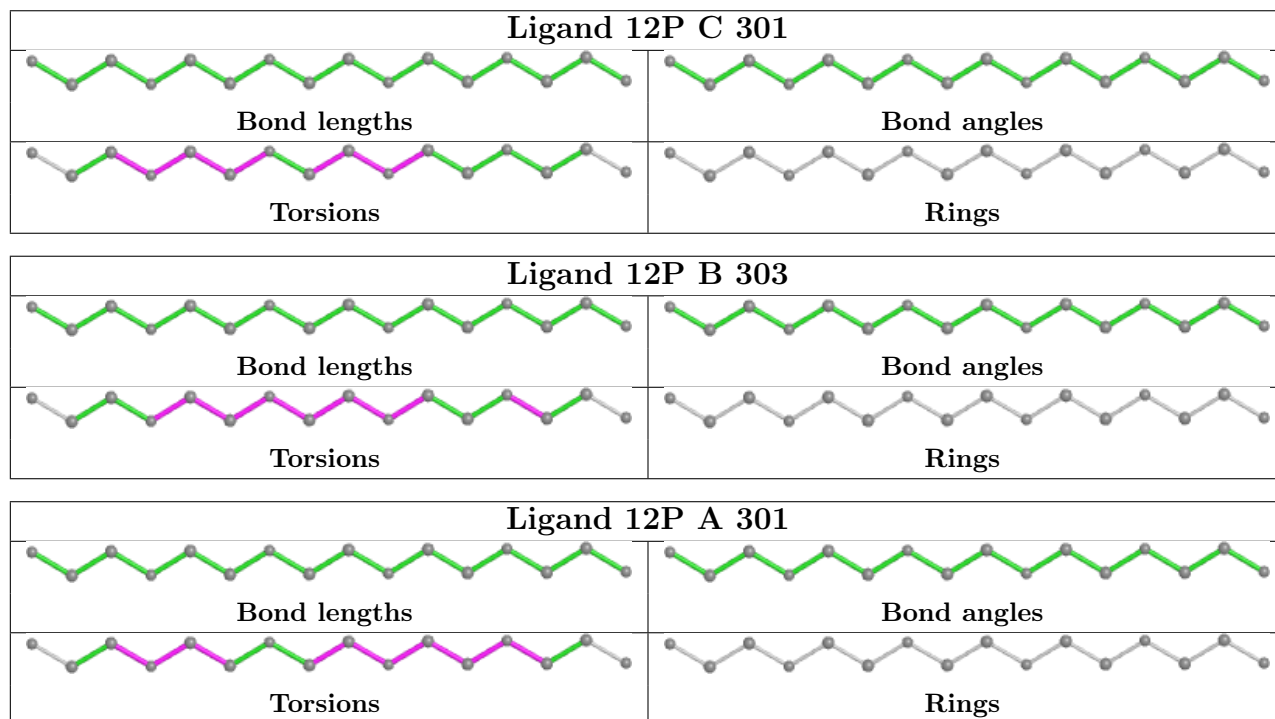
Mol	Chain	Res	Type	Atoms
4	D	302	2CV	C36-C37-C40-O49
4	D	302	2CV	C37-C40-C41-C42
4	D	302	2CV	O49-C40-C41-C42
4	D	302	2CV	O47-C37-C40-C41
4	D	302	2CV	O49-C40-C41-O51
4	D	302	2CV	O47-C37-C40-O49
4	B	302	2CV	C37-C40-C41-C42
4	D	302	2CV	C37-C40-C41-O51
2	C	301	12P	O7-C8-C9-O10
2	B	303	12P	C12-C11-O10-C9
2	A	301	12P	C12-C11-O10-C9
2	A	301	12P	C8-C9-O10-C11
2	A	301	12P	C15-C14-O13-C12
2	B	303	12P	C15-C14-O13-C12
2	C	301	12P	C8-C9-O10-C11
2	C	301	12P	C5-C6-O7-C8
2	B	303	12P	C9-C8-O7-C6
2	A	301	12P	C6-C5-O4-C3
2	B	303	12P	C5-C6-O7-C8
4	D	301	2CV	C37-C36-N33-C35
2	C	301	12P	C12-C11-O10-C9
2	A	301	12P	C2-C3-O4-C5
2	B	303	12P	C8-C9-O10-C11
2	C	301	12P	C2-C3-O4-C5
2	A	301	12P	C11-C12-O13-C14
2	C	301	12P	O4-C5-C6-O7
2	A	301	12P	O7-C8-C9-O10
2	C	301	12P	C6-C5-O4-C3
4	D	301	2CV	O51-C41-C42-C43
2	A	301	12P	O4-C5-C6-O7
4	D	301	2CV	C9-C12-C15-C18
4	D	302	2CV	O51-C41-C42-C43
2	B	303	12P	C6-C5-O4-C3
4	B	301	2CV	C41-C42-C43-O44
4	D	301	2CV	O51-C41-C42-O53
4	B	302	2CV	O49-C40-C41-O51
2	A	301	12P	O10-C11-C12-O13
2	B	303	12P	O4-C5-C6-O7
2	B	303	12P	O7-C8-C9-O10

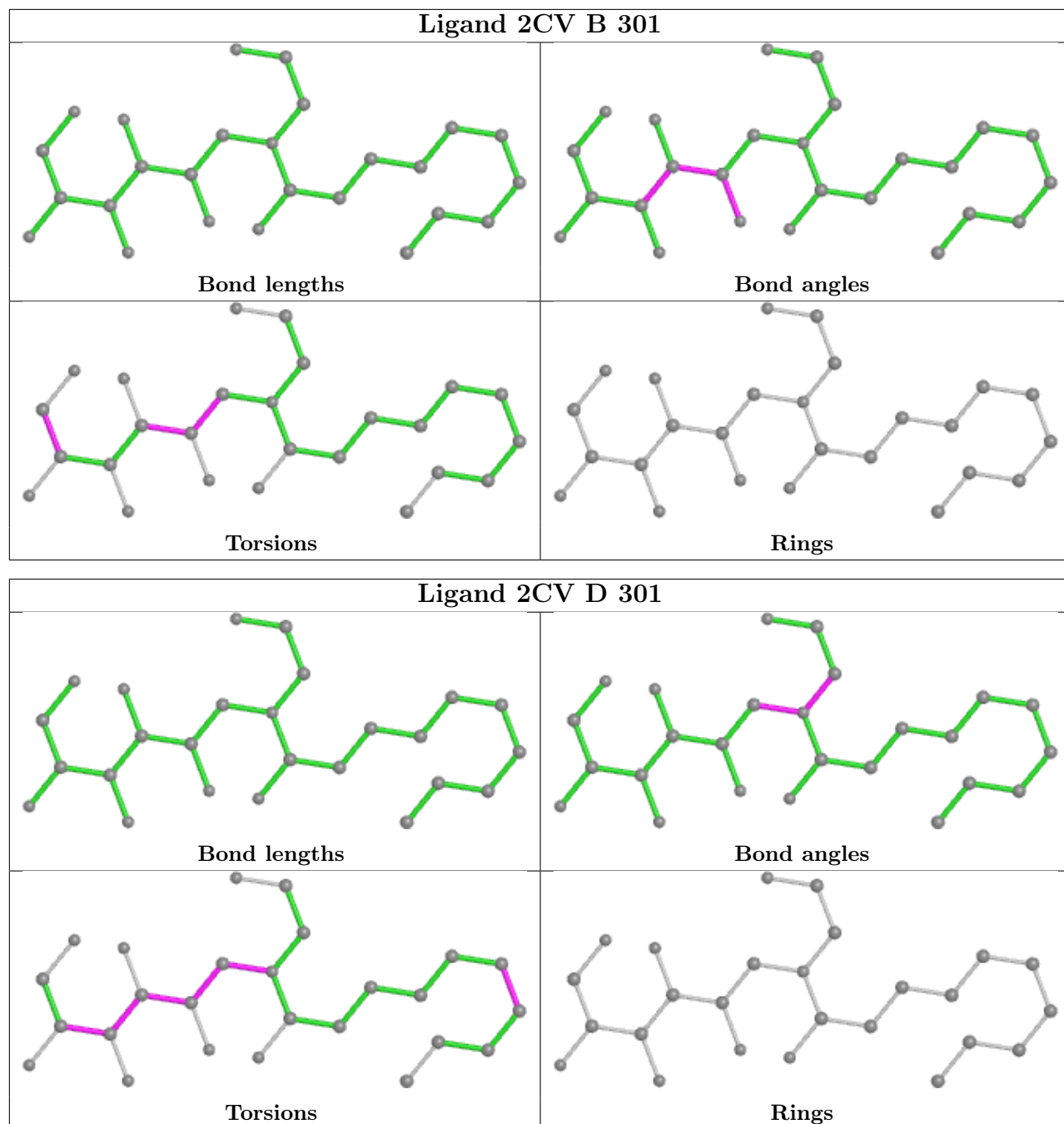
There are no ring outliers.

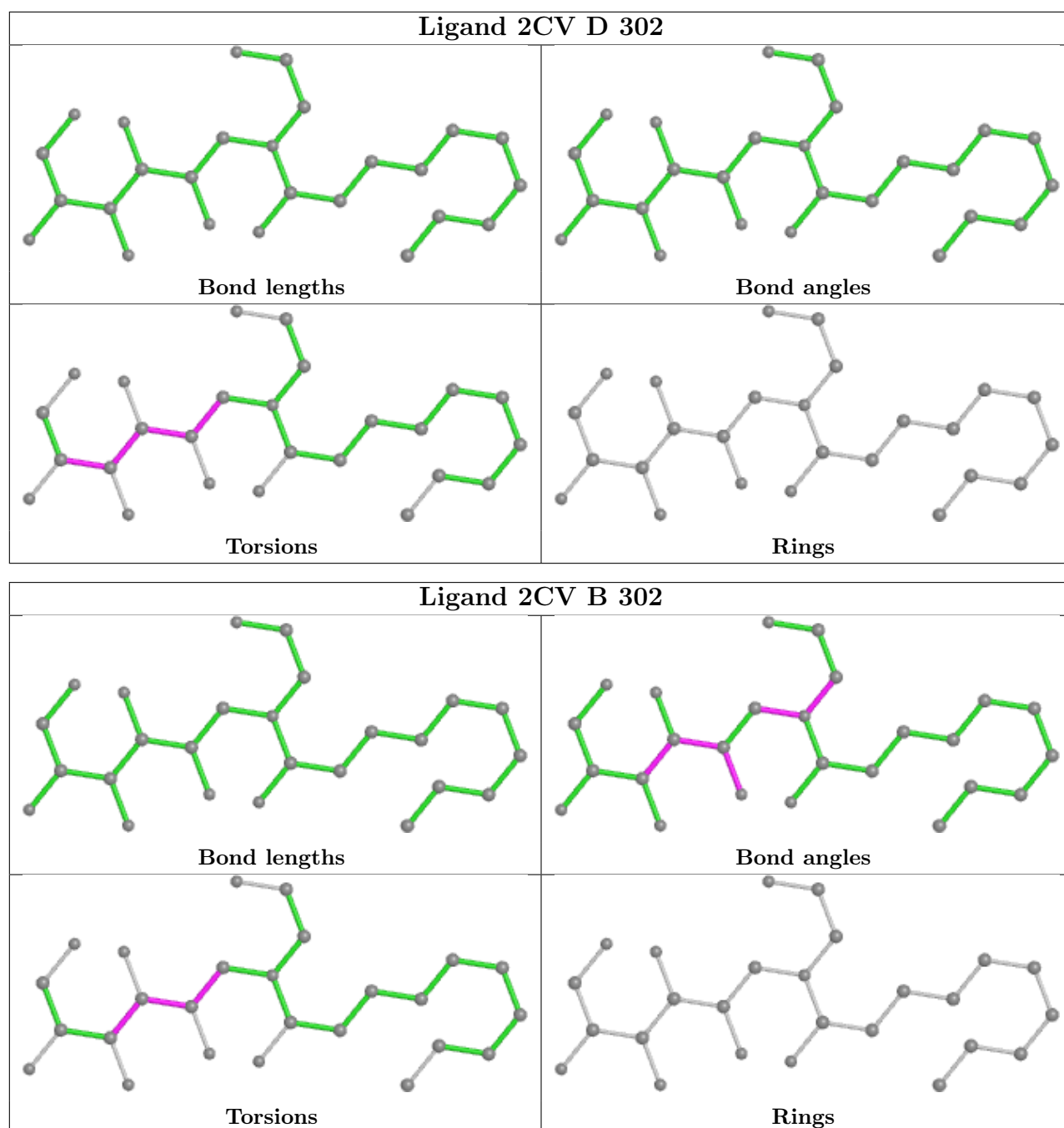
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	301	2CV	1	0
4	B	302	2CV	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 [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	92/149 (61%)	0.10	9 (9%) 7 5	22, 32, 110, 163	0
1	B	90/149 (60%)	0.14	10 (11%) 5 4	23, 32, 103, 161	0
1	C	91/149 (61%)	0.14	10 (10%) 5 4	22, 31, 104, 158	0
1	D	91/149 (61%)	0.18	9 (9%) 7 5	24, 32, 107, 159	0
All	All	364/596 (61%)	0.14	38 (10%) 6 4	22, 32, 108, 163	0

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	214	PHE	9.0
1	D	218	ILE	8.0
1	C	218	ILE	7.8
1	C	214	PHE	7.0
1	C	217	ILE	6.2
1	D	217	ILE	5.5
1	A	134	VAL	5.5
1	D	132	GLY	5.3
1	B	134	VAL	5.1
1	C	213	LEU	5.0
1	D	210	VAL	4.9
1	C	132	GLY	4.2
1	A	214	PHE	3.7
1	D	131	VAL	3.6
1	B	214	PHE	3.4
1	A	217	ILE	3.4
1	A	218	ILE	3.3
1	B	208	PHE	3.3
1	A	211	LEU	3.3
1	C	210	VAL	3.2
1	B	211	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
1	C	131	VAL	3.2
1	B	133	SER	3.1
1	C	134	VAL	3.1
1	D	134	VAL	2.8
1	B	218	ILE	2.8
1	B	217	ILE	2.8
1	A	208	PHE	2.7
1	B	132	GLY	2.6
1	A	213	LEU	2.5
1	D	211	LEU	2.4
1	B	213	LEU	2.4
1	A	133	SER	2.4
1	C	211	LEU	2.1
1	B	212	ASN	2.1
1	C	133	SER	2.1
1	A	212	ASN	2.1
1	D	133	SER	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.

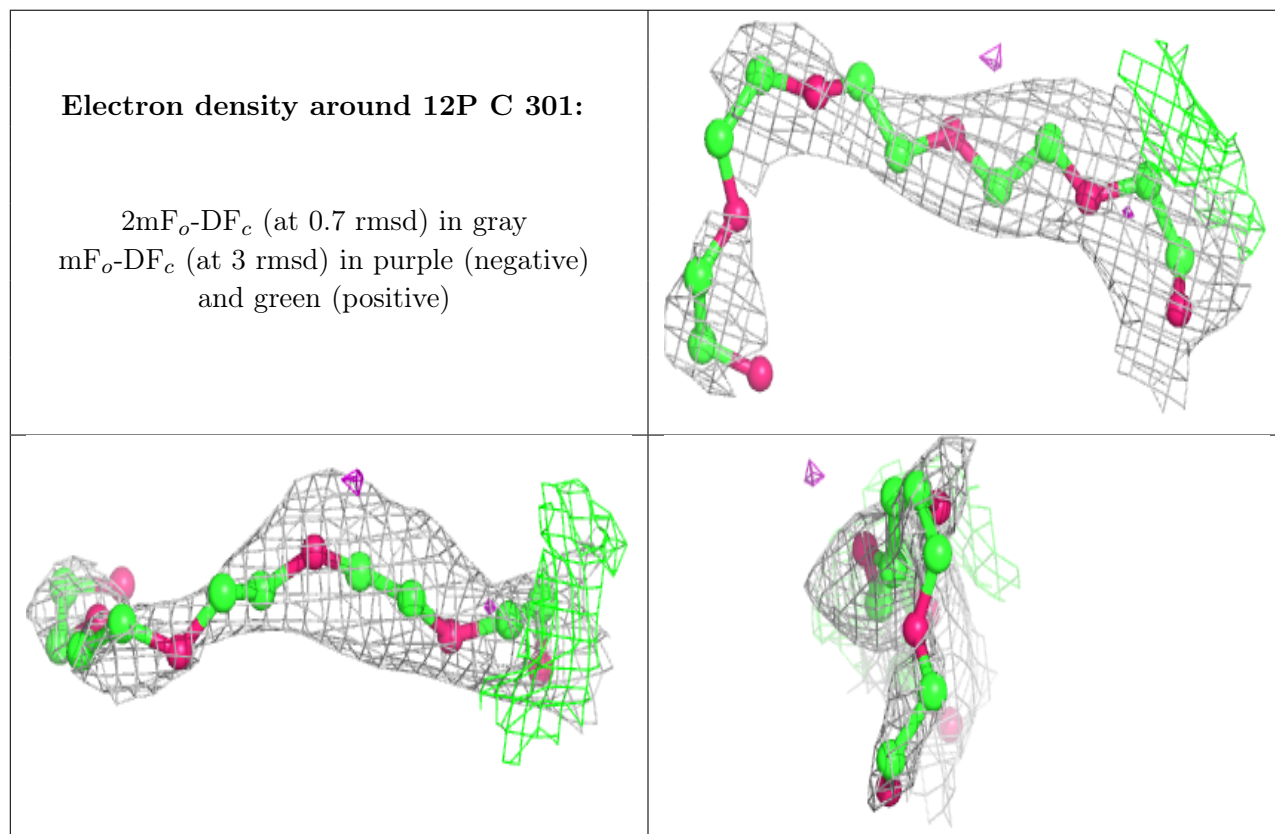
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	12P	C	301	16/37	0.76	0.38	67,75,84,84	0
3	NA	A	303	1/1	0.81	0.27	58,58,58,58	1
4	2CV	B	302	26/26	0.87	0.28	42,56,64,67	0
4	2CV	B	301	26/26	0.89	0.30	43,59,71,72	0
2	12P	A	301	16/37	0.89	0.37	56,67,70,71	0
4	2CV	D	302	26/26	0.89	0.29	47,70,79,82	0

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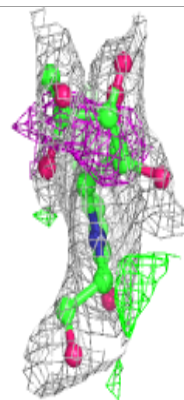
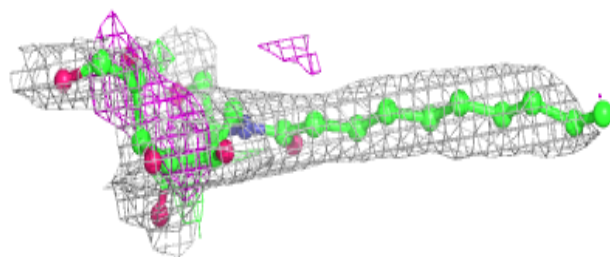
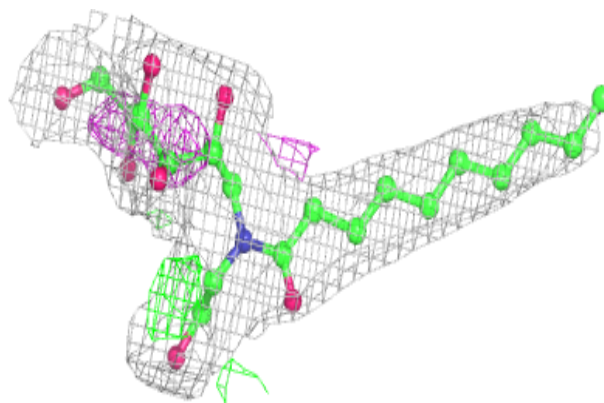
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	2CV	D	301	26/26	0.90	0.27	45,66,74,75	0
2	12P	B	303	16/37	0.90	0.32	61,65,67,68	0
3	NA	C	303	1/1	0.92	0.23	47,47,47,47	1
3	NA	C	302	1/1	0.94	0.10	23,23,23,23	1
3	NA	D	303	1/1	0.96	0.24	70,70,70,70	1
3	NA	A	304	1/1	0.97	0.14	62,62,62,62	1
3	NA	A	302	1/1	0.98	0.31	67,67,67,67	1

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.

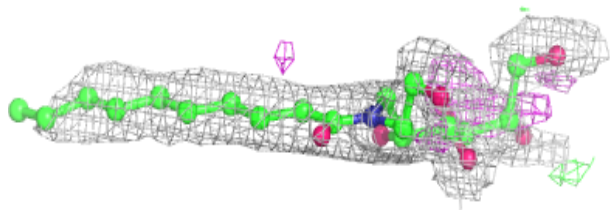
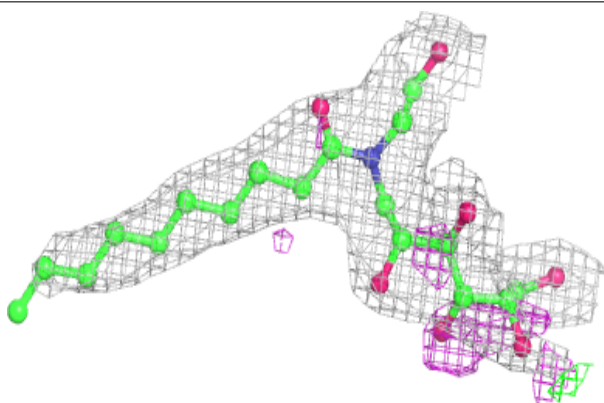


Electron density around 2CV B 302:

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

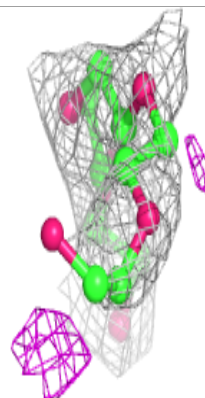
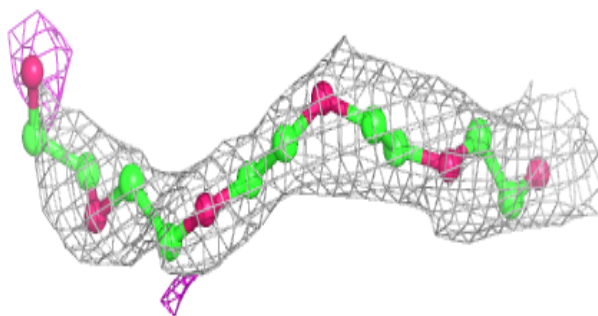
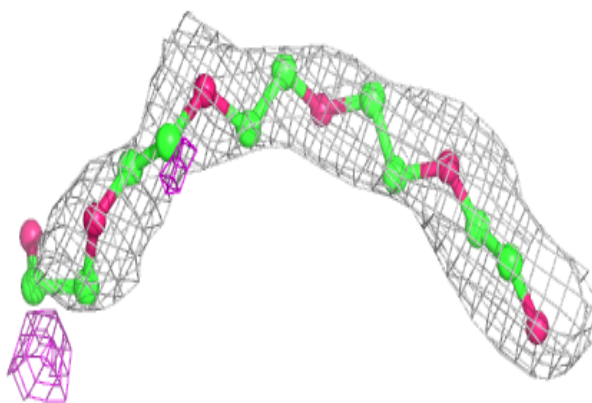
**Electron density around 2CV B 301:**

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

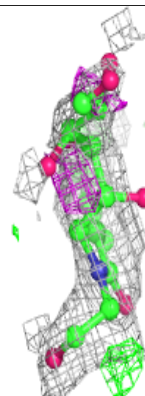
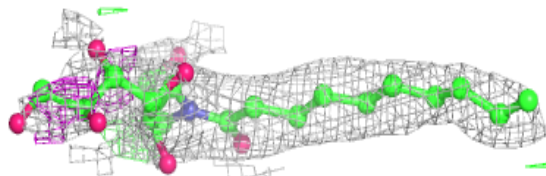
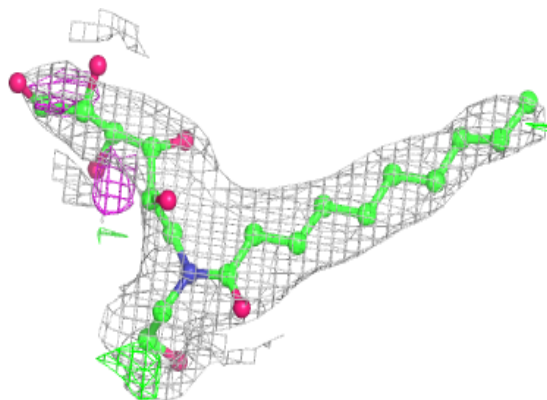


Electron density around 12P A 301:

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

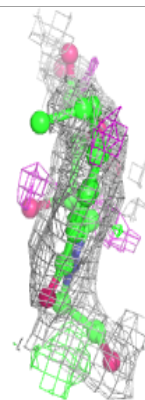
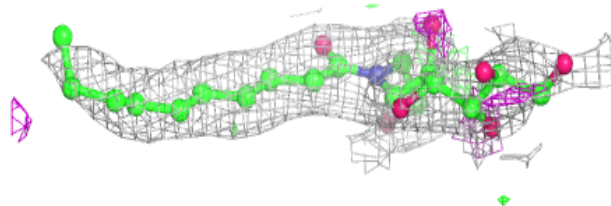
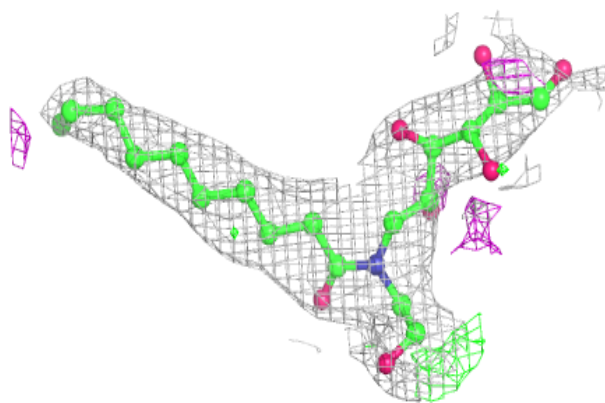
**Electron density around 2CV D 302:**

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

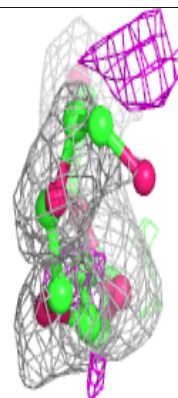
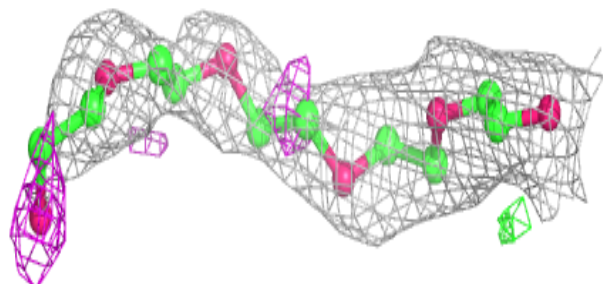
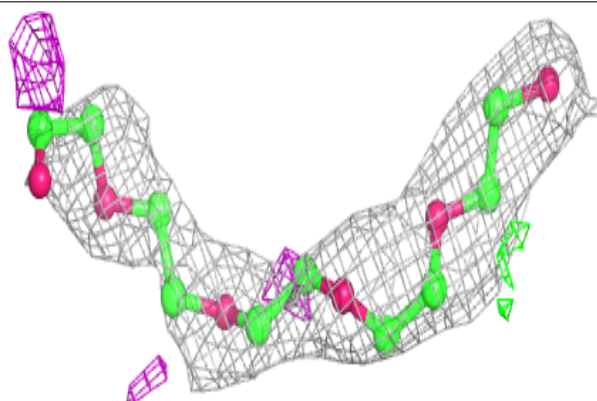


Electron density around 2CV D 301:

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

**Electron density around 12P B 303:**

$2mF_o-DF_c$ (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.