



# Full wwPDB X-ray Structure Validation Report ⓘ

Sep 23, 2025 – 12:47 am BST

PDB ID : 9GV1 / pdb\_00009gv1  
Title : NavMs F208L bound to sevoflurane  
Authors : Hollingworth, D.; Wallace, B.A.  
Deposited on : 2024-09-20  
Resolution : 2.20 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](mailto: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>.

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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 : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
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) : 2.46

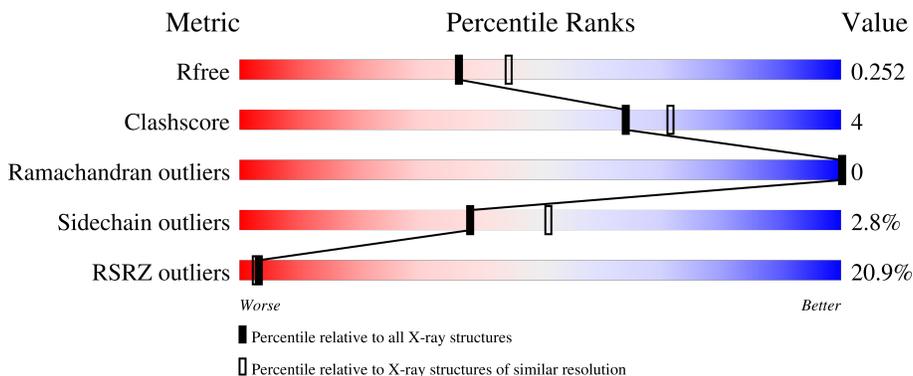
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.20 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))
$R_{free}$	164625	5791 (2.20-2.20)
Clashscore	180529	6634 (2.20-2.20)
Ramachandran outliers	177936	6560 (2.20-2.20)
Sidechain outliers	177891	6561 (2.20-2.20)
RSRZ outliers	164620	5791 (2.20-2.20)

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  $\geq 3$ , 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	276	

## 2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 2120 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.

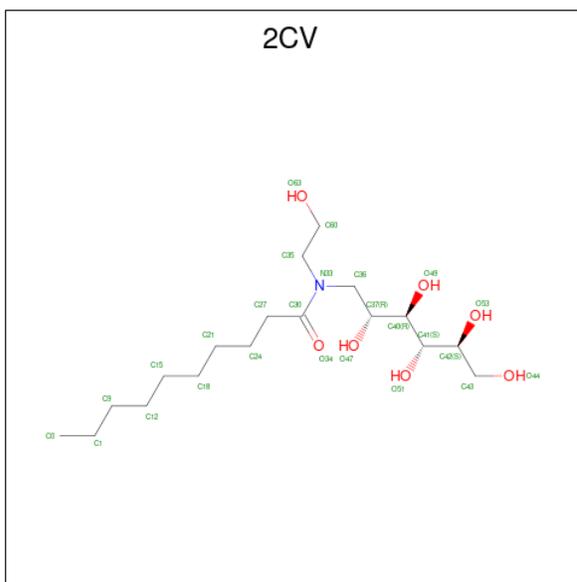
- Molecule 1 is a protein called Ion transport protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	253	1977	1294	325	345	13	0	2	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP A0L5S6
A	0	HIS	-	expression tag	UNP A0L5S6
A	208	LEU	PHE	engineered mutation	UNP A0L5S6

- Molecule 2 is HEGA-10 (CCD ID: 2CV) (formula: C<sub>18</sub>H<sub>37</sub>NO<sub>7</sub>).



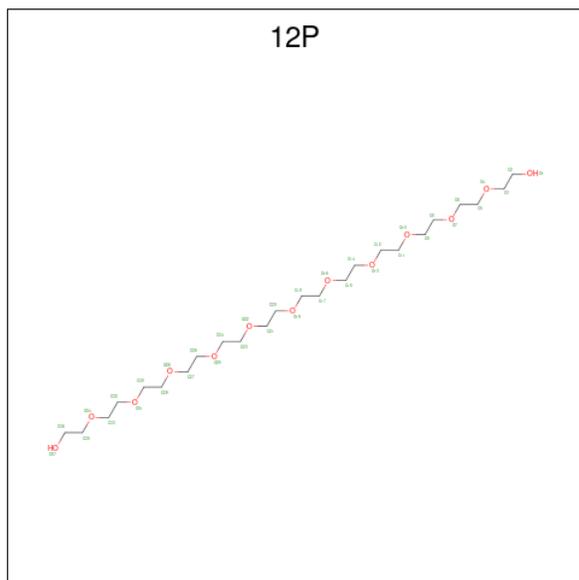
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	A	1	23	17	1	5	0	0
2	A	1	9	9			0	0

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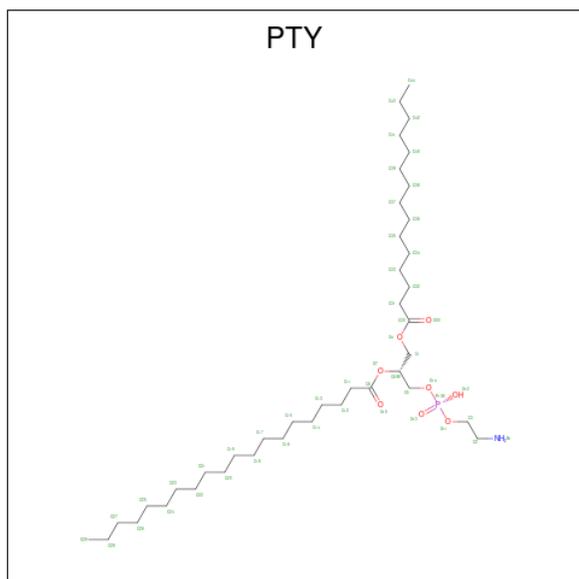
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C 8 8	0	0

- Molecule 3 is DODECAETHYLENE GLYCOL (CCD ID: 12P) (formula:  $C_{24}H_{50}O_{13}$ ).



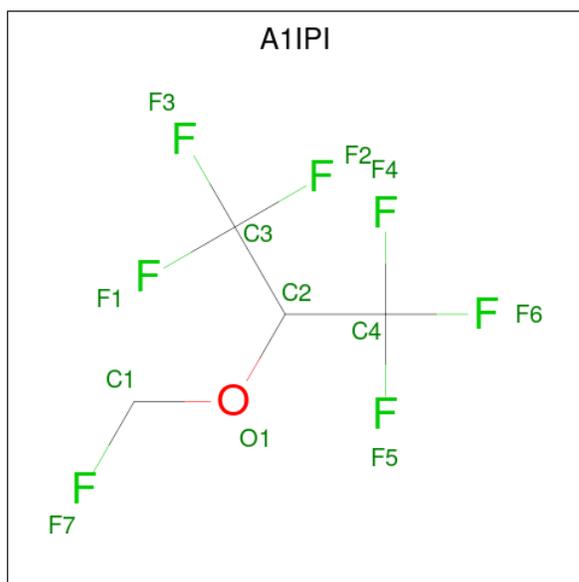
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 20 13 7	0	0

- Molecule 4 is PHOSPHATIDYLETHANOLAMINE (CCD ID: PTY) (formula:  $C_{40}H_{80}NO_8P$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C 20 20	0	0

- Molecule 5 is sevoffurane (CCD ID: A1IPI) (formula:  $C_4H_3F_7O$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C F O 12 4 7 1	0	0

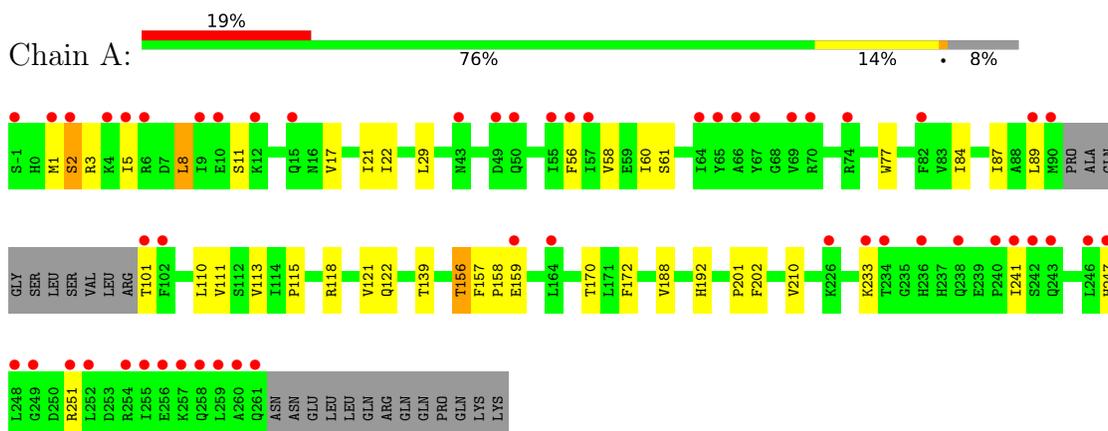
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	51	Total O 51 51	0	0

### 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: Ion transport protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	108.70Å 108.70Å 209.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.20 – 2.20 48.20 – 2.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.20-2.20) 100.0 (48.20-2.20)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.45 (at 2.20Å)	Xtrriage
Refinement program	REFMAC 5.8.0425	Depositor
R, $R_{free}$	0.221 , 0.252 0.222 , 0.252	Depositor DCC
$R_{free}$ test set	1656 reflections (5.14%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	46.7	Xtrriage
Anisotropy	0.031	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 62.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	2120	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	66.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.14% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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, A1IPI, 12P, PTY

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	0.81	2/2019 (0.1%)	1.53	17/2745 (0.6%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	201	PRO	CA-CB	6.10	1.62	1.53
1	A	158	PRO	CA-CB	5.76	1.62	1.53

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	157	PHE	CA-CB-CG	-8.39	105.41	113.80
1	A	8	LEU	CA-C-N	7.49	130.58	120.77
1	A	8	LEU	C-N-CA	7.49	130.58	120.77
1	A	29	LEU	CA-C-N	6.55	127.08	119.94
1	A	29	LEU	C-N-CA	6.55	127.08	119.94
1	A	170	THR	CA-CB-OG1	-6.50	99.85	109.60
1	A	188	VAL	N-CA-CB	6.31	117.93	110.55
1	A	113	VAL	CA-C-N	-6.14	118.17	122.59
1	A	113	VAL	C-N-CA	-6.14	118.17	122.59
1	A	159	GLU	CB-CG-CD	5.96	122.73	112.60
1	A	233	LYS	CB-CA-C	5.70	118.64	109.07
1	A	115	PRO	N-CA-C	5.63	121.36	113.53
1	A	202	PHE	CA-CB-CG	-5.60	108.20	113.80
1	A	156	THR	CA-CB-OG1	-5.31	101.64	109.60
1	A	139	THR	CA-CB-OG1	-5.30	101.64	109.60
1	A	157	PHE	N-CA-CB	5.28	118.13	110.74
1	A	172	PHE	CA-CB-CG	-5.01	108.79	113.80

There are no chirality outliers.

There are no planarity outliers.

## 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	1977	0	2026	15	0
2	A	40	0	64	0	0
3	A	20	0	24	0	0
4	A	20	0	39	0	0
5	A	12	0	0	1	0
6	A	51	0	0	0	0
All	All	2120	0	2153	16	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 4.

All (16) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:8:LEU:O	1:A:11:SER:HB3	1.74	0.86
1:A:118:ARG:O	1:A:122:GLN:HG3	1.84	0.76
5:A:306:A1IPI:C1	5:A:306:A1IPI:F3	2.25	0.74
1:A:8:LEU:O	1:A:11:SER:CB	2.36	0.72
1:A:156:THR:OG1	1:A:192:HIS:HE1	1.86	0.58
1:A:241:ILE:HD12	1:A:241:ILE:H	1.70	0.56
1:A:17:VAL:O	1:A:21:ILE:HG12	2.09	0.51
1:A:56:PHE:O	1:A:60:ILE:HG12	2.10	0.51
1:A:2[A]:SER:OG	1:A:3:ARG:N	2.43	0.51
1:A:247:HIS:HB3	1:A:251:ARG:HH22	1.78	0.48
1:A:1:MET:HA	1:A:1:MET:HE3	1.98	0.45
1:A:5:ILE:O	1:A:8:LEU:HB3	2.17	0.44
1:A:58:VAL:O	1:A:61:SER:HB2	2.19	0.43
1:A:111:VAL:HG11	1:A:121:VAL:HG21	2.01	0.43
1:A:22:ILE:HG21	1:A:110:LEU:HG	2.02	0.42
1:A:77:TRP:CE2	1:A:118:ARG:HG3	2.55	0.42

There are no symmetry-related clashes.

## 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	251/276 (91%)	236 (94%)	15 (6%)	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	214/242 (88%)	207 (97%)	7 (3%)	33 44

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2[A]	SER
1	A	2[B]	SER
1	A	84	ILE
1	A	87	ILE
1	A	89	LEU
1	A	101	THR
1	A	210	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	192	HIS

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Mol	Chain	Res	Type
1	A	194	ASN

### 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](#)

6 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	12P	A	302	-	19,19,36	0.30	0	18,18,35	0.21	0
2	2CV	A	303	-	8,8,25	0.17	0	7,7,30	0.27	0
2	2CV	A	304	-	7,7,25	0.59	0	6,6,30	0.51	0
2	2CV	A	301	-	21,22,25	1.14	2 (9%)	22,26,30	1.41	2 (9%)
5	A1IPI	A	306	-	10,11,11	0.52	0	15,17,17	2.19	2 (13%)
4	PTY	A	305	-	19,19,49	0.31	0	18,18,54	0.25	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
3	12P	A	302	-	-	12/17/17/34	-
2	2CV	A	303	-	-	2/6/6/34	-
2	2CV	A	304	-	-	2/5/5/34	-
2	2CV	A	301	-	-	12/28/28/34	-
5	A1IPI	A	306	-	-	0/12/15/15	-
4	PTY	A	305	-	-	8/17/17/53	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	2CV	O51-C41	4.06	1.54	1.43
2	A	301	2CV	C37-C40	2.37	1.57	1.53

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	306	A1IPI	O1-C2-C4	7.76	113.77	107.93
2	A	301	2CV	C37-C40-C41	4.84	120.06	112.47
5	A	306	A1IPI	O1-C2-C3	-2.63	105.95	107.93
2	A	301	2CV	C36-C37-C40	2.45	116.64	109.79

There are no chirality outliers.

All (36) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	2CV	N33-C36-C37-C40
2	A	301	2CV	N33-C36-C37-O47
2	A	301	2CV	C36-C37-C40-C41
2	A	301	2CV	C36-C37-C40-O49
2	A	301	2CV	O47-C37-C40-C41
2	A	301	2CV	O47-C37-C40-O49
3	A	302	12P	O31-C32-C33-O34
2	A	304	2CV	C15-C12-C9-C1
2	A	301	2CV	C21-C24-C27-C30
4	A	305	PTY	C18-C19-C20-C21
3	A	302	12P	O16-C17-C18-O19
2	A	301	2CV	O49-C40-C41-O51
2	A	301	2CV	C18-C21-C24-C27
4	A	305	PTY	C14-C15-C16-C17
3	A	302	12P	O28-C29-C30-O31
4	A	305	PTY	C13-C14-C15-C16

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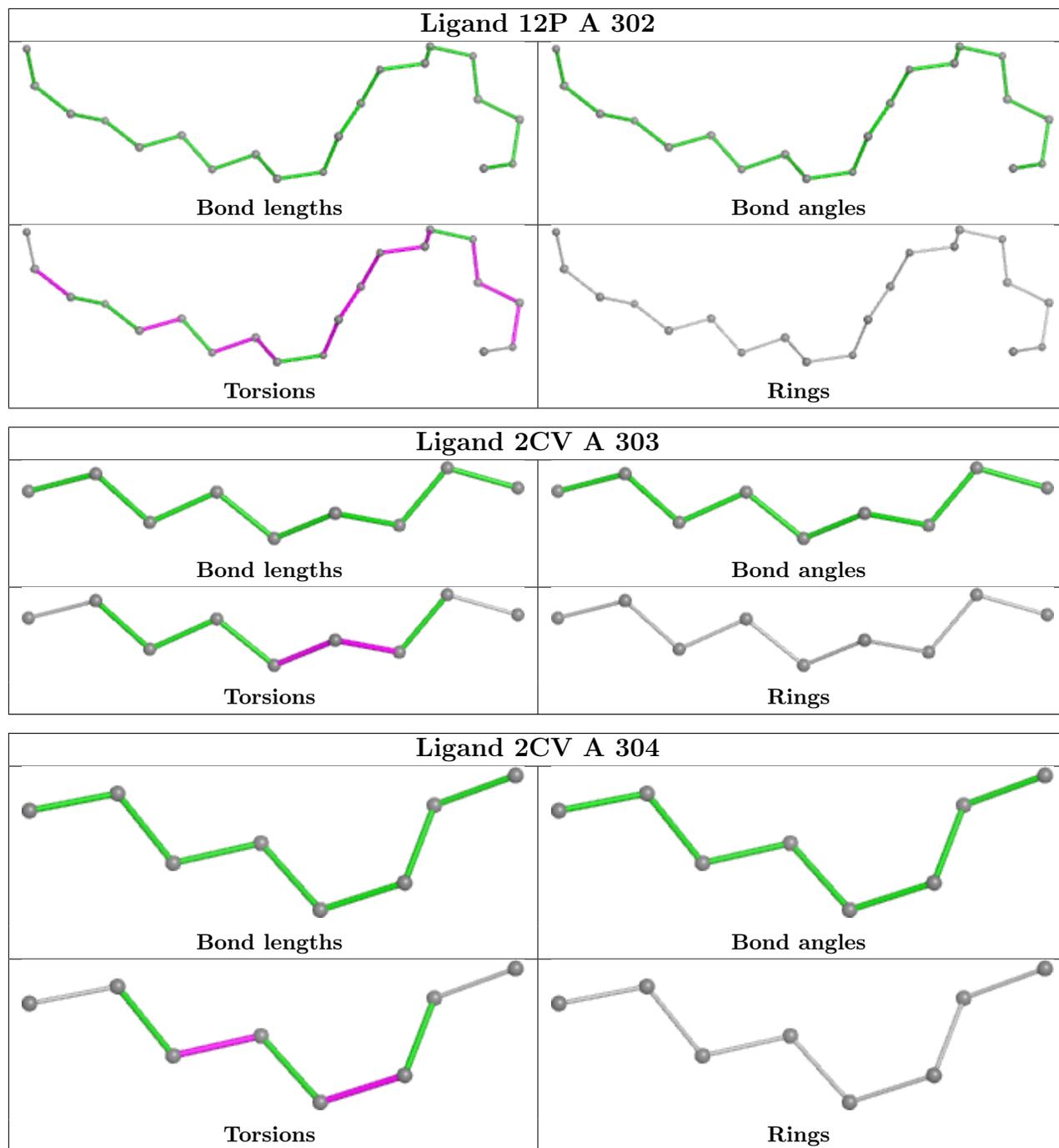
Mol	Chain	Res	Type	Atoms
2	A	301	2CV	C15-C18-C21-C24
4	A	305	PTY	C16-C17-C18-C19
2	A	301	2CV	C37-C36-N33-C35
4	A	305	PTY	C17-C18-C19-C20
2	A	303	2CV	C15-C18-C21-C24
2	A	303	2CV	C12-C15-C18-C21
4	A	305	PTY	C19-C20-C21-C22
4	A	305	PTY	C12-C13-C14-C15
3	A	302	12P	C27-C26-O25-C24
3	A	302	12P	C26-C27-O28-C29
3	A	302	12P	C33-C32-O31-C30
2	A	301	2CV	C37-C40-C41-O51
4	A	305	PTY	C15-C16-C17-C18
3	A	302	12P	C32-C33-O34-C35
3	A	302	12P	O22-C23-C24-O25
3	A	302	12P	O19-C20-C21-O22
3	A	302	12P	C24-C23-O22-C21
2	A	304	2CV	C12-C15-C18-C21
3	A	302	12P	C30-C29-O28-C27
3	A	302	12P	O25-C26-C27-O28

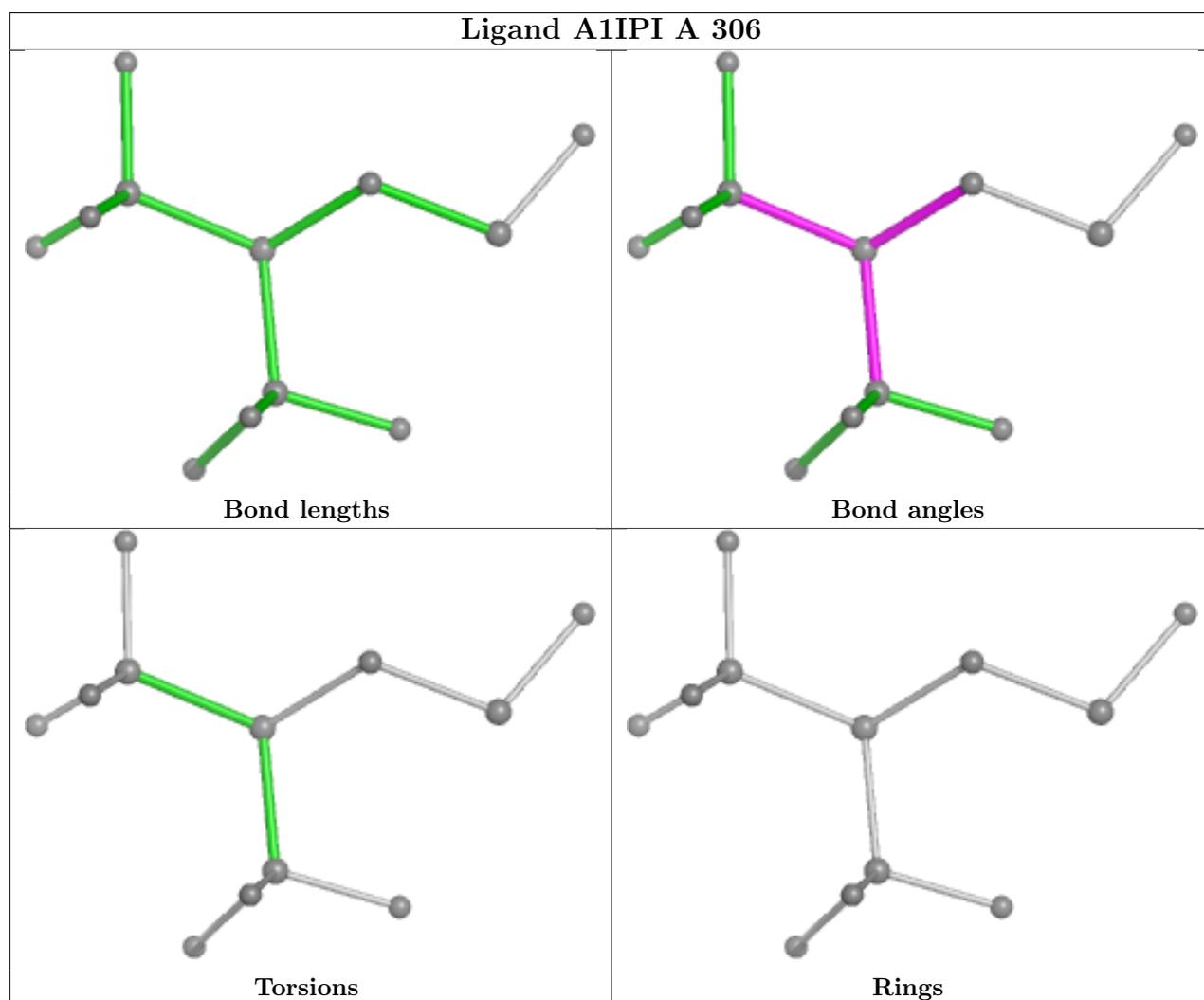
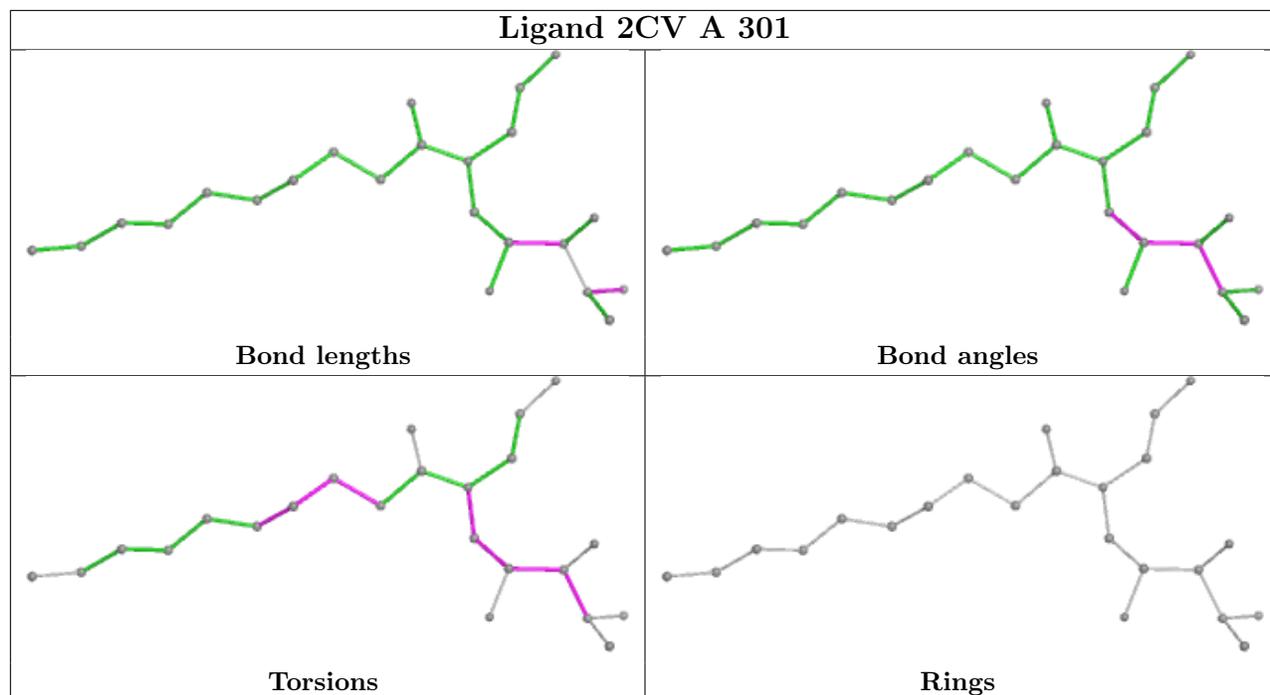
There are no ring outliers.

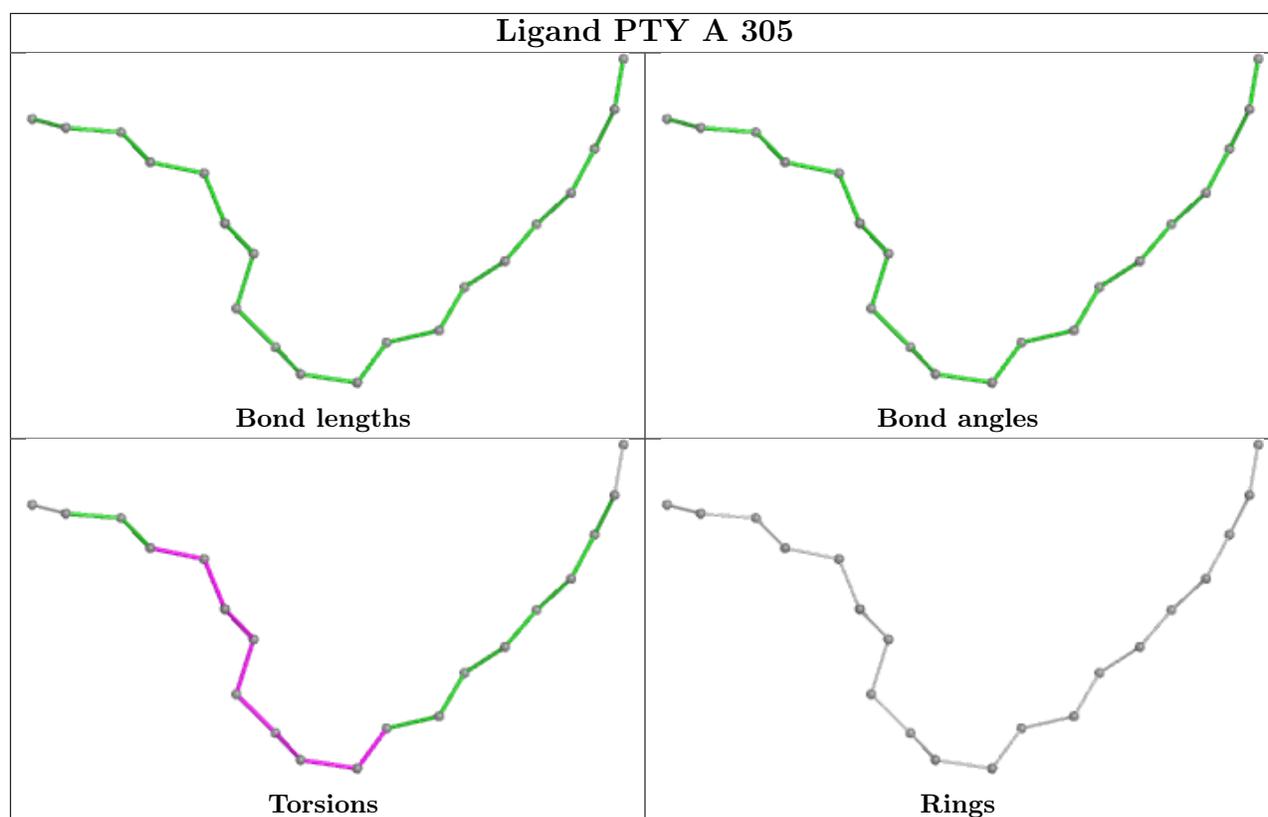
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	306	A1IPI	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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	253/276 (91%)	1.10	53 (20%) <b>3</b> <b>3</b>	26, 59, 130, 161	2 (0%)

All (53) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	255	ILE	8.3
1	A	90	MET	6.1
1	A	9	ILE	5.9
1	A	246	LEU	5.0
1	A	252	LEU	5.0
1	A	64	ILE	4.9
1	A	65	TYR	4.9
1	A	260	ALA	4.8
1	A	258	GLN	4.6
1	A	256	GLU	4.5
1	A	101	THR	4.5
1	A	6	ARG	4.1
1	A	102	PHE	4.1
1	A	261	GLN	4.1
1	A	57	ILE	4.1
1	A	241	ILE	4.0
1	A	259	LEU	4.0
1	A	248	LEU	3.9
1	A	242	SER	3.7
1	A	89	LEU	3.6
1	A	1	MET	3.4
1	A	233	LYS	3.4
1	A	238	GLN	3.3
1	A	257	LYS	3.2
1	A	159	GLU	3.2
1	A	12	LYS	3.1
1	A	-1	SER	2.9

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	A	55	ILE	2.8
1	A	254	ARG	2.7
1	A	240	PRO	2.5
1	A	43	ASN	2.5
1	A	66	ALA	2.4
1	A	2[A]	SER	2.4
1	A	50	GLN	2.4
1	A	10	GLU	2.3
1	A	49	ASP	2.3
1	A	69	VAL	2.3
1	A	249	GLY	2.3
1	A	226	LYS	2.2
1	A	74	ARG	2.2
1	A	5	ILE	2.2
1	A	56	PHE	2.2
1	A	82	PHE	2.2
1	A	247	HIS	2.1
1	A	251	ARG	2.1
1	A	164	LEU	2.1
1	A	67	TYR	2.1
1	A	234	THR	2.1
1	A	236	HIS	2.1
1	A	4	LYS	2.1
1	A	15	GLN	2.1
1	A	243	GLN	2.1
1	A	70	ARG	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 [\(i\)](#)

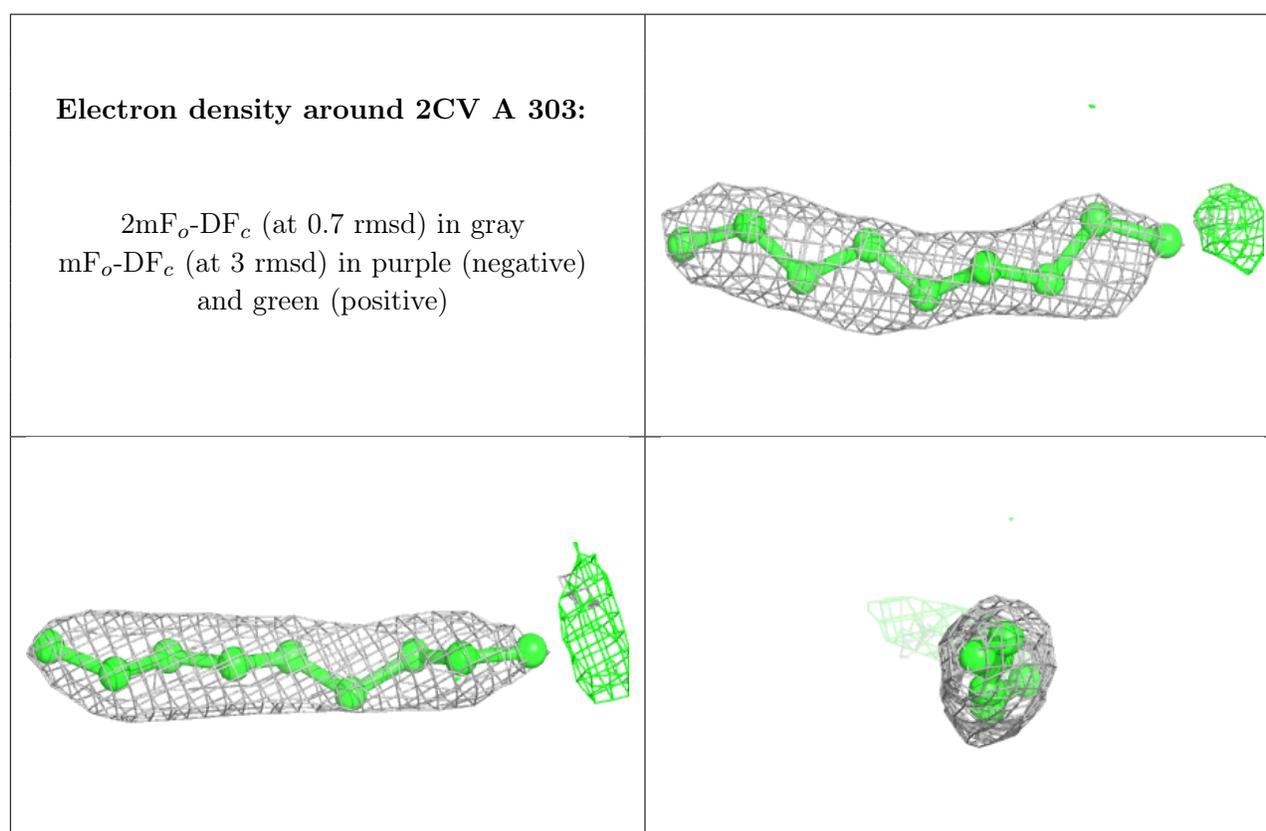
There are no oligosaccharides in this entry.

## 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, 95<sup>th</sup> 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.

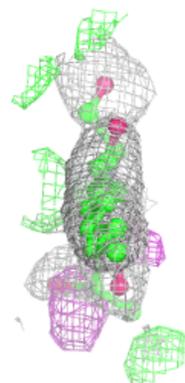
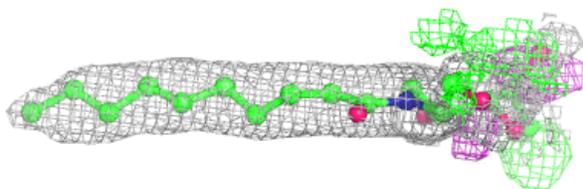
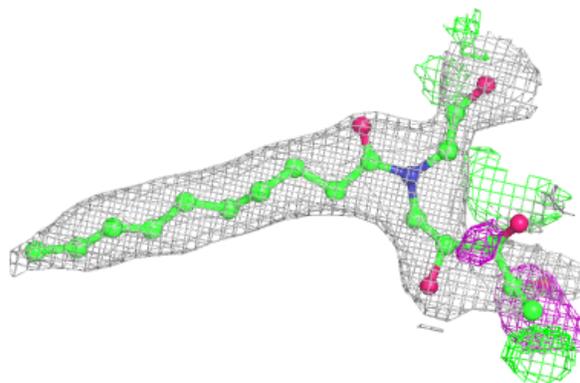
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	2CV	A	303	9/26	0.82	0.32	63,71,100,103	0
2	2CV	A	301	23/26	0.83	0.23	45,61,89,106	0
4	PTY	A	305	20/50	0.86	0.27	68,82,94,100	0
5	A1IPI	A	306	12/12	0.88	0.18	74,107,125,154	0
3	12P	A	302	20/37	0.89	0.20	49,82,107,114	0
2	2CV	A	304	8/26	0.90	0.21	45,68,80,80	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.

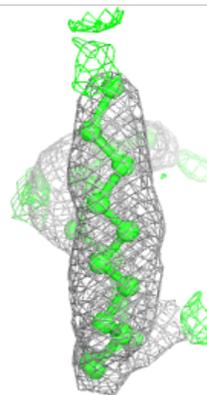
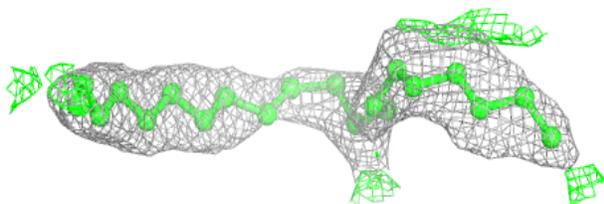
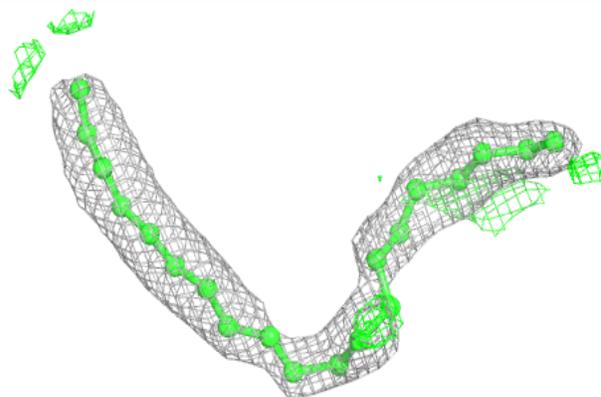


**Electron density around 2CV A 301:**

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

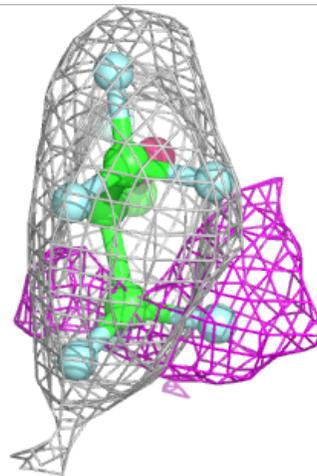
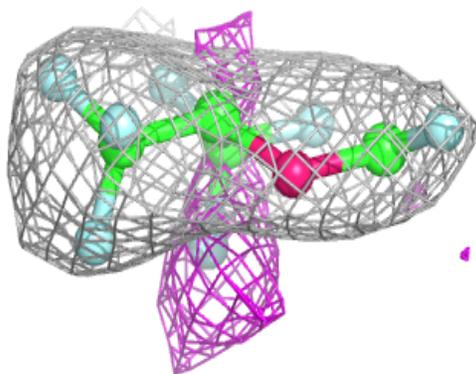
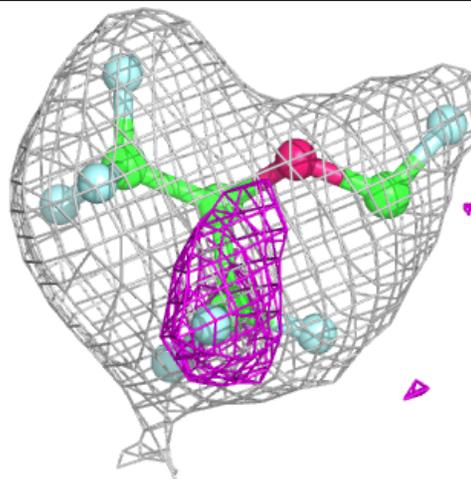
**Electron density around PTY A 305:**

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



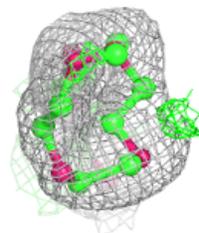
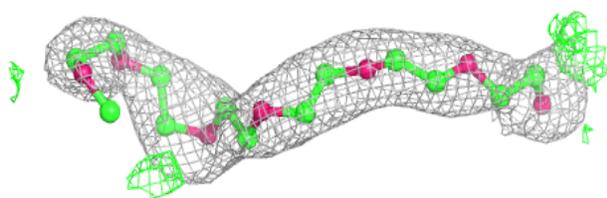
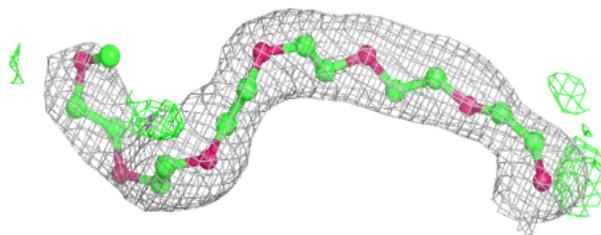
**Electron density around A1IPI A 306:**

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

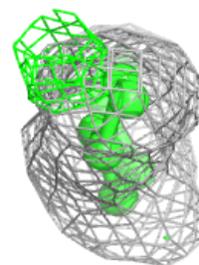
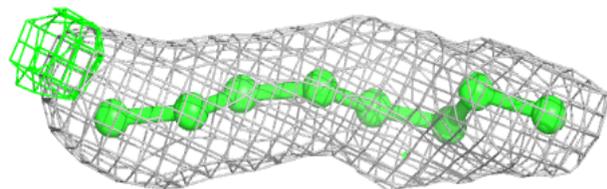
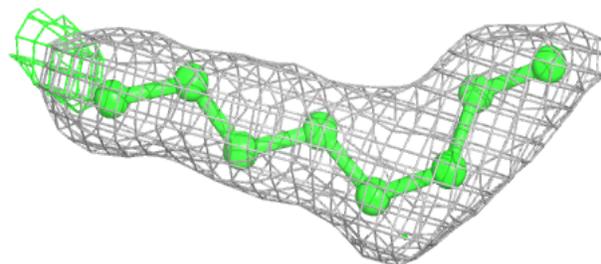


**Electron density around 12P A 302:**

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

**Electron density around 2CV A 304:**

$2mF_o-DF_c$  (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.