WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report ⓘ

Nov 25, 2025 – 03:49 PM EST

PDB ID	:	9C00 / pdb_00009c00
Title	:	UIC-1 soaked with R/S 1-chloroethylbenzene
Authors	:	Heinz-Kunert, S.L.; Nguyen, A.I.
Deposited on	:	2024-05-24
Resolution	:	0.90 Å(reported)

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

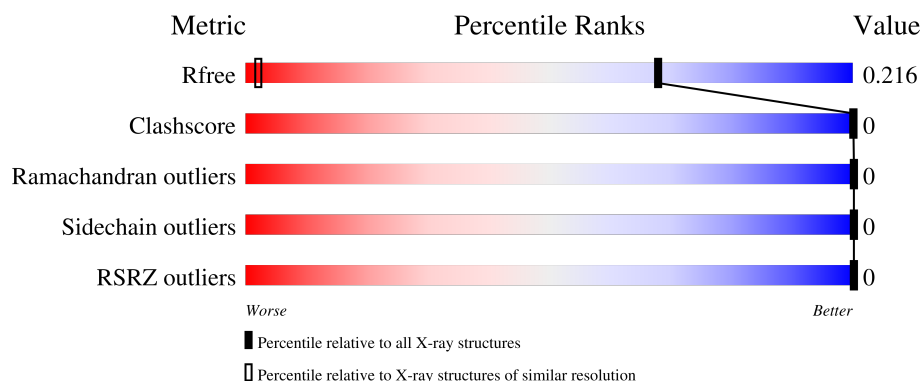|		
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	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:
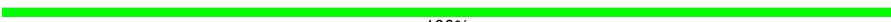*X-RAY DIFFRACTION*

The reported resolution of this entry is 0.90 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	Percentile Ranks	Value
Rfree		0.216
Clashscore		0
Ramachandran outliers		0
Sidechain outliers		0
RSRZ outliers		0

Worse　　　　　　　　　　　　　　*Better*

▮ Percentile relative to all X-ray structures
▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	1232 (1.00-0.80)
Clashscore	180529	1367 (1.00-0.80)
Ramachandran outliers	177936	1294 (1.00-0.80)
Sidechain outliers	177891	1295 (1.00-0.80)
RSRZ outliers	164620	1231 (1.00-0.80)

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	9	100%

2 Entry composition ⓘ

There are 5 unique types of molecules in this entry. The entry contains 327 atoms, of which 154 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 UIC-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	9	Total	C	H	N	O	0	1	0
			155	48	85	11	11			

- Molecule 2 is 5'-(hydrazinecarbonyl)[2,2'-bipyridine]-5-carboxamide (CCD ID: I77) (formula: $C_{12}H_{11}N_5O_2$).

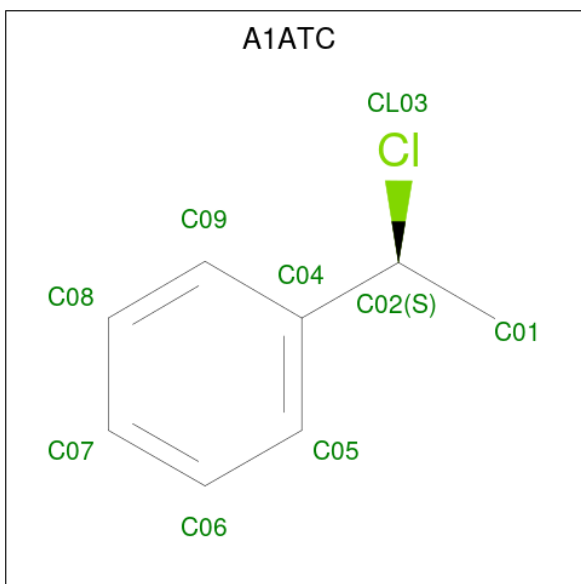| Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	H	N	O	0	1
			58	24	20	10	4		

- Molecule 3 is ethyl 5'-formyl[2,2'-bipyridine]-5-carboxylate (CCD ID: I6W) (formula: $C_{14}H_{12}N_2O_4$).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total 60	C 28	H 22	N 4	O 6	0	1

- Molecule 4 is [(1S)-1-chloroethyl]benzene (CCD ID: A1ATC) (formula: C_8H_9Cl) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total 18	C 8	Cl 1	H 9	0	1
4	A	1	Total 18	C 8	Cl 1	H 9	0	0

- Molecule 5 is [(1R)-1-chloroethyl]benzene (CCD ID: A1C1V) (formula: C_8H_9Cl) (labeled as "Ligand of Interest" by depositor).
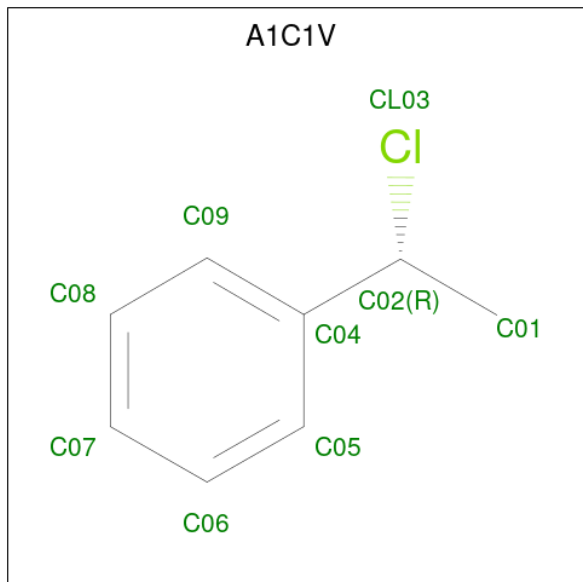
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	Cl	H	0	1
			18	8	1	9		

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: UIC-1

Chain A:

100%

There are no outlier residues recorded for this chain.

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	13.98Å 13.46Å 28.59Å 90.00° 90.19° 90.00°	Depositor
Resolution (Å)	14.30 – 0.90 14.30 – 0.90	Depositor EDS
% Data completeness (in resolution range)	99.8 (14.30-0.90) 90.8 (14.30-0.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.55 (at 0.90Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.182 , 0.211 0.184 , 0.216	Depositor DCC
R_{free} test set	798 reflections (9.83%)	wwPDB-VP
Wilson B-factor (Å^2)	8.3	Xtriage
Anisotropy	0.170	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.44 , 28.0	EDS
L-test for twinning[2]	$< |L| > = 0.47, < L^2 > = 0.30$	Xtriage
Estimated twinning fraction	0.040 for k,h,-l 0.032 for -k,-h,-l 0.098 for h,-k,-l	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	327	wwPDB-VP
Average B, all atoms (Å^2)	11.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 31.63 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.0723e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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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 (i)

5.1   Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: A1ATC, I77, I6W, AIB, A1C1V

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	0.40	0/44	0.56	0/57

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	70	85	84	0	0
2	A	38	20	0	0	0
3	A	38	22	0	0	0
4	A	18	18	0	0	0
5	A	9	9	0	0	0
All	All	173	154	84	0	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 0.

There are no clashes within the asymmetric unit.

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	3/9 (33%)	3 (100%)	0	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	5/4 (125%)	5 (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. 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 ⓘ

4 non-standard protein/DNA/RNA residues 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	$\#|Z| > 2$
1	AIB	A	9	1	1,5,6	1.25	0	0,7,9	-	-
1	AIB	A	3	1	1,5,6	1.12	0	0,7,9	-	-
1	AIB	A	7	1	1,5,6	1.13	0	0,7,9	-	-
1	AIB	A	5	1	1,5,6	0.63	0	0,7,9	-	-

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
1	AIB	A	9	1	-	0/2/3/6	-
1	AIB	A	3	1	-	0/2/3/6	-
1	AIB	A	7	1	-	<mark>2/2/3/6</mark>	-
1	AIB	A	5	1	-	0/2/3/6	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	7	AIB	O-C-CA-CB1
1	A	7	AIB	O-C-CA-CB2

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

7 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	$\#|Z| > 2$
4	A1ATC	A	103[A]	-	7,9,9	0.67	0	10,11,11	0.71	0
2	I77	A	101[B]	1	20,20,20	3.58	4 (20%)	27,27,27	1.64	9 (33%)
5	A1C1V	A	104[B]	-	7,9,9	0.64	0	10,11,11	0.50	0
2	I77	A	101[A]	1	20,20,20	2.94	4 (20%)	27,27,27	1.62	8 (29%)
3	I6W	A	102[B]	1	20,20,21	1.51	3 (15%)	25,26,28	2.35	12 (48%)
4	A1ATC	A	105	-	7,9,9	0.52	0	10,11,11	1.08	1 (10%)
3	I6W	A	102[A]	1	20,20,21	1.40	2 (10%)	25,26,28	2.01	11 (44%)

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
4	A1ATC	A	103[A]	-	-	0/4/4/4	0/1/1/1
2	I77	A	101[B]	1	-	0/14/14/14	0/2/2/2
5	A1C1V	A	104[B]	-	-	0/4/4/4	0/1/1/1
2	I77	A	101[A]	1	-	0/14/14/14	0/2/2/2
3	I6W	A	102[B]	1	-	3/13/13/15	0/2/2/2
4	A1ATC	A	105	-	-	2/4/4/4	0/1/1/1
3	I6W	A	102[A]	1	-	2/13/13/15	0/2/2/2

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	101[B]	I77	C13-N14	13.42	1.47	1.33
2	A	101[A]	I77	C13-N14	10.25	1.44	1.33
2	A	101[B]	I77	C02-N01	6.88	1.45	1.33
2	A	101[A]	I77	C02-N01	6.17	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	102[B]	I6W	O14-C13	3.36	1.41	1.33
2	A	101[B]	I77	O19-C02	-3.14	1.18	1.24
3	A	102[B]	I6W	C12-C13	2.92	1.56	1.50
3	A	102[A]	I6W	O14-C13	2.68	1.40	1.33
2	A	101[B]	I77	C03-C02	2.60	1.54	1.50
2	A	101[A]	I77	N15-N14	-2.58	1.37	1.41
3	A	102[A]	I6W	C18-C12	-2.52	1.35	1.39
3	A	102[B]	I6W	C03-C02	2.30	1.54	1.47
2	A	101[A]	I77	O19-C02	-2.12	1.20	1.24

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	102[A]	I6W	C03-C06-N07	-5.14	119.55	124.39
3	A	102[B]	I6W	C03-C06-N07	-4.68	119.98	124.39
3	A	102[B]	I6W	C15-O14-C13	-4.55	106.25	116.45
3	A	102[B]	I6W	O14-C13-C12	4.08	118.98	112.15
3	A	102[B]	I6W	C06-N07-C08	3.81	122.88	117.93
3	A	102[B]	I6W	C08-C09-N10	3.33	122.49	116.77
2	A	101[B]	I77	C05-C04-C03	-3.31	117.27	120.80
2	A	101[A]	I77	C18-C17-C12	-3.28	117.30	120.80
3	A	102[A]	I6W	C06-N07-C08	3.12	121.98	117.93
3	A	102[A]	I6W	C19-C18-C12	-3.08	117.50	120.80
3	A	102[A]	I6W	C18-C12-C11	3.03	120.99	117.61
3	A	102[B]	I6W	C11-N10-C09	3.02	121.85	117.93
2	A	101[B]	I77	C11-N10-C09	2.91	121.72	117.93
2	A	101[B]	I77	C06-N07-C08	2.89	121.69	117.93
2	A	101[A]	I77	C05-C04-C03	-2.88	117.72	120.80
3	A	102[A]	I6W	C04-C03-C02	-2.78	113.10	120.33
4	A	105	A1ATC	C04-C02-CL03	-2.71	104.76	109.70
2	A	101[B]	I77	C04-C03-C06	2.69	120.61	117.61
3	A	102[A]	I6W	C04-C03-C06	2.63	119.78	117.07
2	A	101[B]	I77	C18-C17-C12	-2.57	118.05	120.80
3	A	102[B]	I6W	C04-C03-C06	2.54	119.68	117.07
2	A	101[B]	I77	C03-C06-N07	-2.52	119.88	123.59
3	A	102[B]	I6W	C19-C18-C12	-2.49	118.14	120.80
2	A	101[A]	I77	C17-C12-C11	2.48	120.37	117.61
3	A	102[A]	I6W	C12-C11-N10	-2.47	119.95	123.59
2	A	101[B]	I77	C03-C02-N01	2.40	120.70	117.74
3	A	102[A]	I6W	C11-N10-C09	2.38	121.03	117.93
3	A	102[B]	I6W	C05-C04-C03	-2.38	118.15	121.22
3	A	102[B]	I6W	C19-C09-C08	-2.27	117.30	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	101[B]	I77	C12-C11-N10	-2.19	120.36	123.59
3	A	102[B]	I6W	C12-C11-N10	-2.16	120.41	123.59
2	A	101[A]	I77	O19-C02-C03	2.14	122.22	119.60
2	A	101[A]	I77	C03-C06-N07	-2.14	120.44	123.59
2	A	101[A]	I77	C11-N10-C09	2.13	120.71	117.93
3	A	102[B]	I6W	O01-C02-C03	-2.13	117.33	124.56
3	A	102[A]	I6W	O01-C02-C03	-2.12	117.38	124.56
2	A	101[A]	I77	C12-C11-N10	-2.07	120.54	123.59
2	A	101[A]	I77	C06-N07-C08	2.07	120.62	117.93
3	A	102[A]	I6W	C09-C08-N07	2.06	120.32	116.77
3	A	102[A]	I6W	C05-C04-C03	-2.06	118.56	121.22
2	A	101[B]	I77	O19-C02-N01	-2.02	119.70	122.62

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	102[B]	I6W	O17-C13-O14-C15
3	A	102[B]	I6W	C12-C13-O14-C15
3	A	102[A]	I6W	O01-C02-C03-C04
3	A	102[A]	I6W	O01-C02-C03-C06
3	A	102[B]	I6W	C16-C15-O14-C13
4	A	105	A1ATC	C01-C02-C04-C05
4	A	105	A1ATC	C01-C02-C04-C09

There are no ring outliers.

No monomer is involved in short contacts.

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.
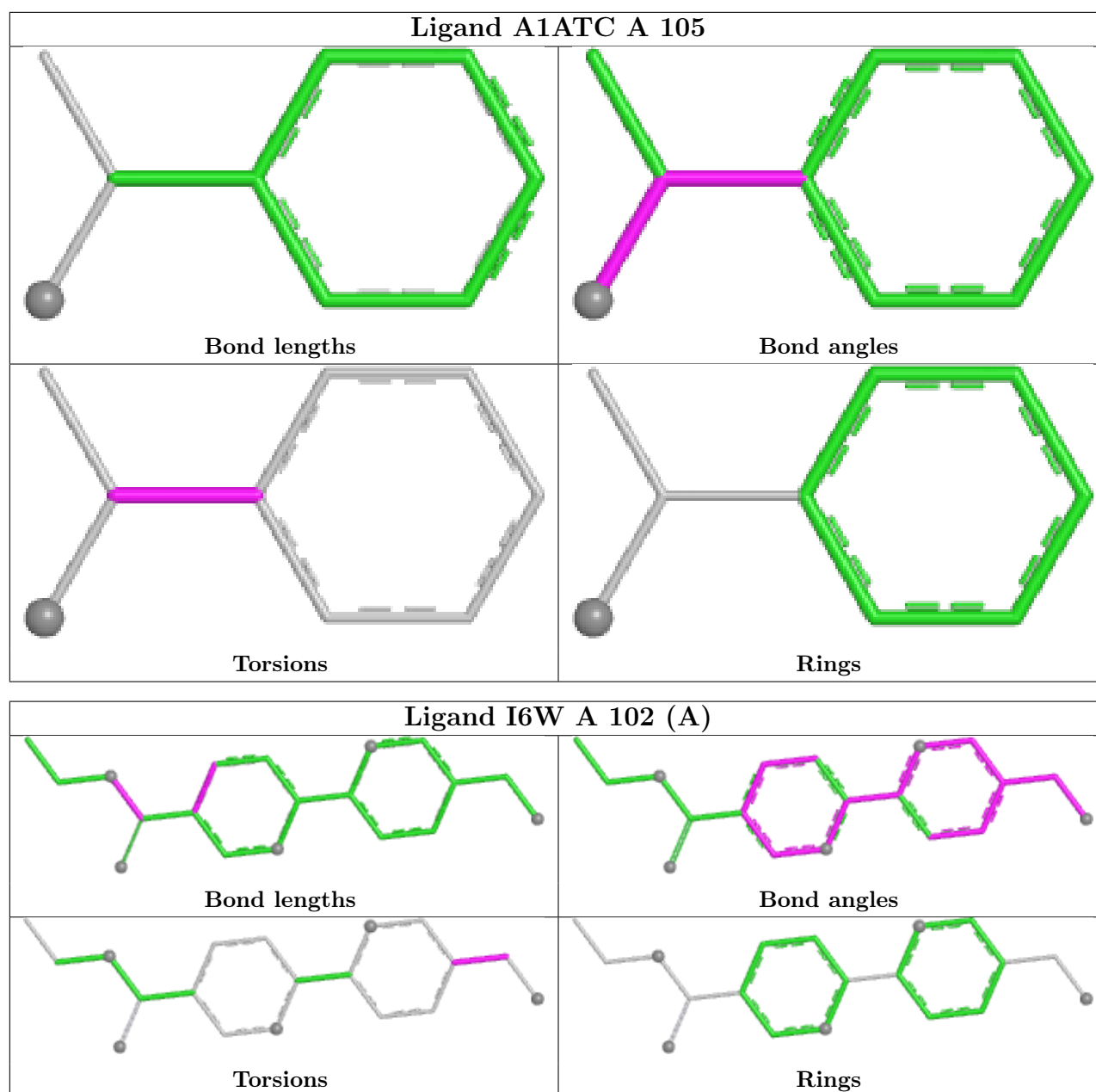
Ligand A1ATC A 103 (A)

Bond lengths

Bond angles

Torsions

Rings

Ligand I77 A 101 (B)

Bond lengths

Bond angles

Torsions

Rings

Ligand A1C1V A 104 (B)

Bond lengths

Bond angles

Torsions

Rings

Ligand I77 A 101 (A)

Bond lengths

Bond angles

Torsions

Rings

Ligand I6W A 102 (B)

Bond lengths

Bond angles

Torsions

Rings

Ligand A1ATC A 105

Bond lengths

Bond angles

Torsions

Rings

Ligand I6W A 102 (A)

Bond lengths

Bond angles

Torsions

Rings
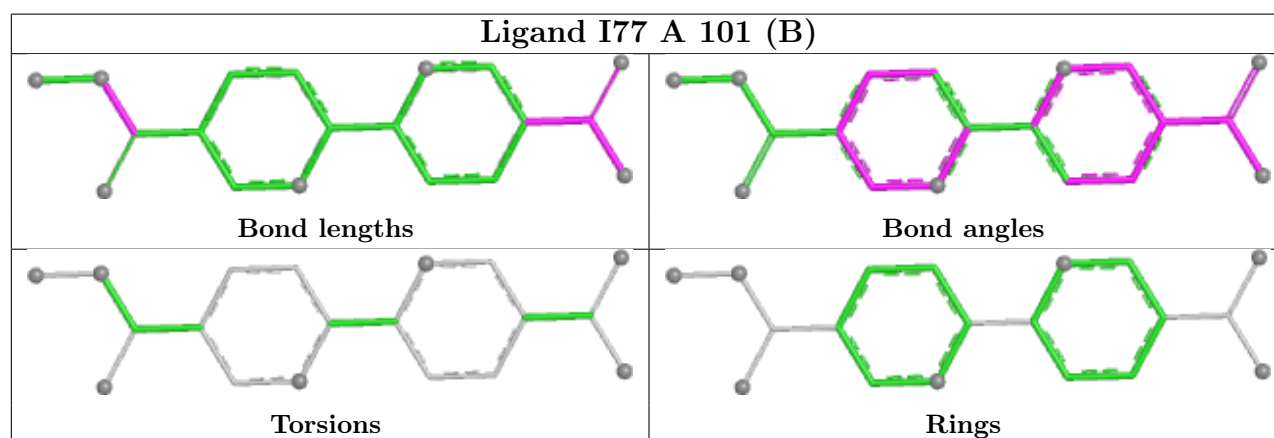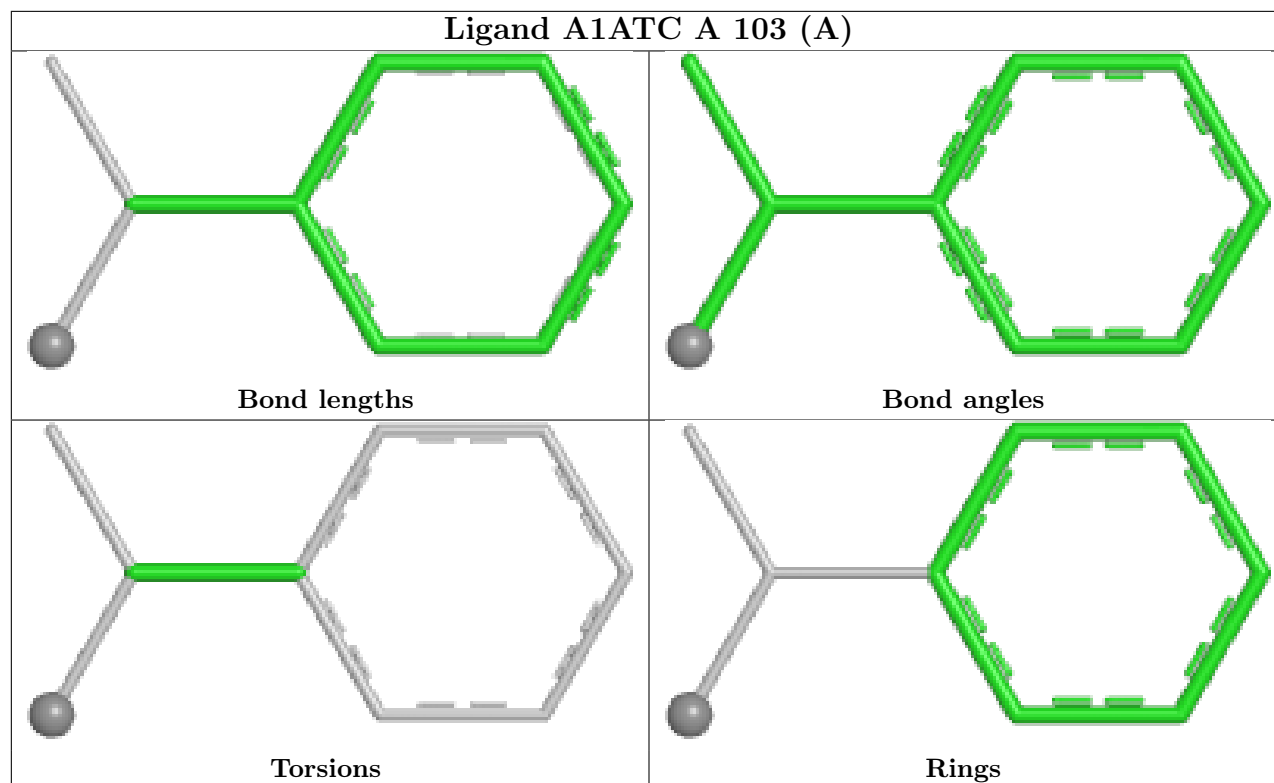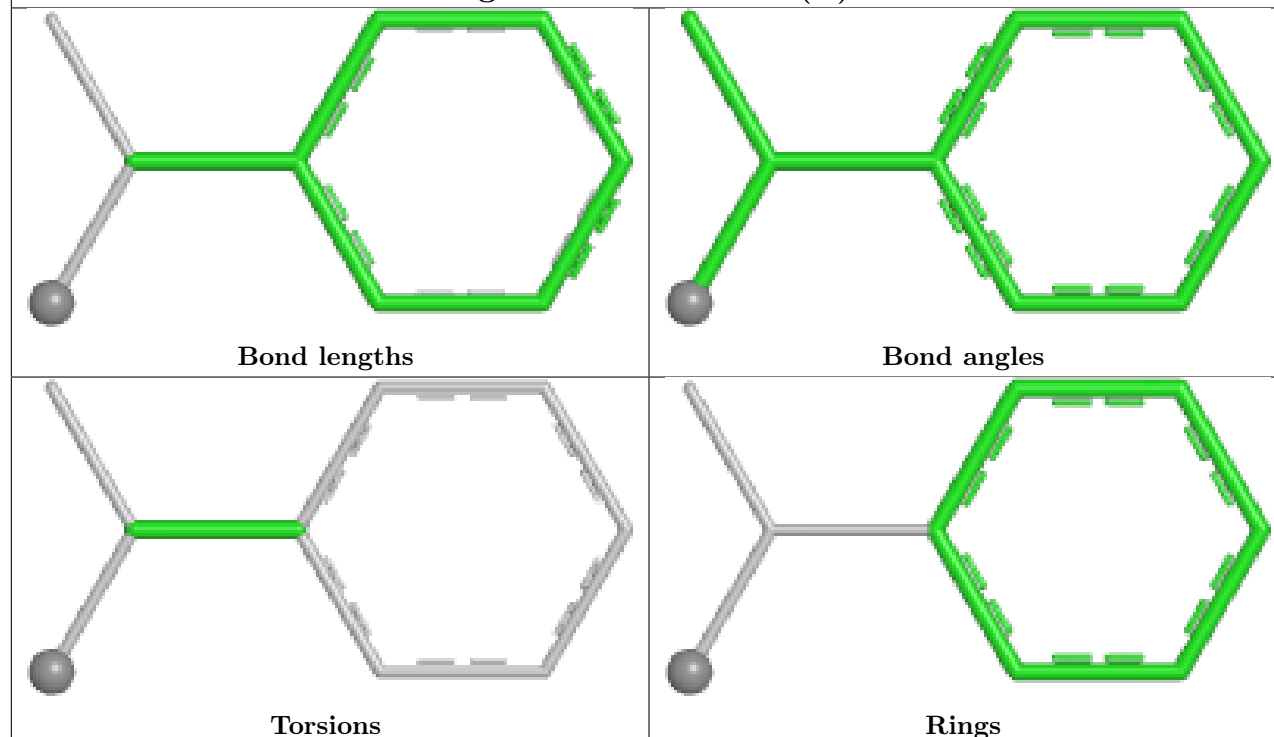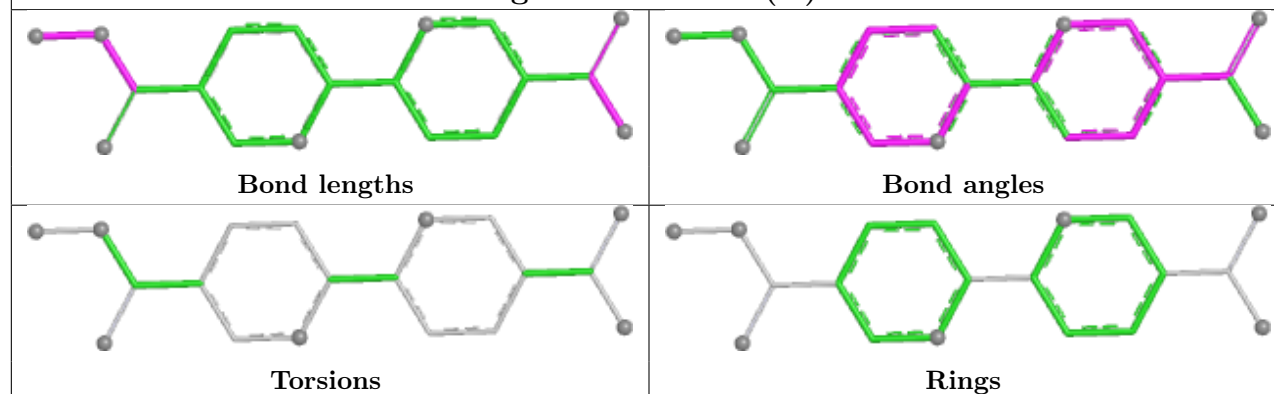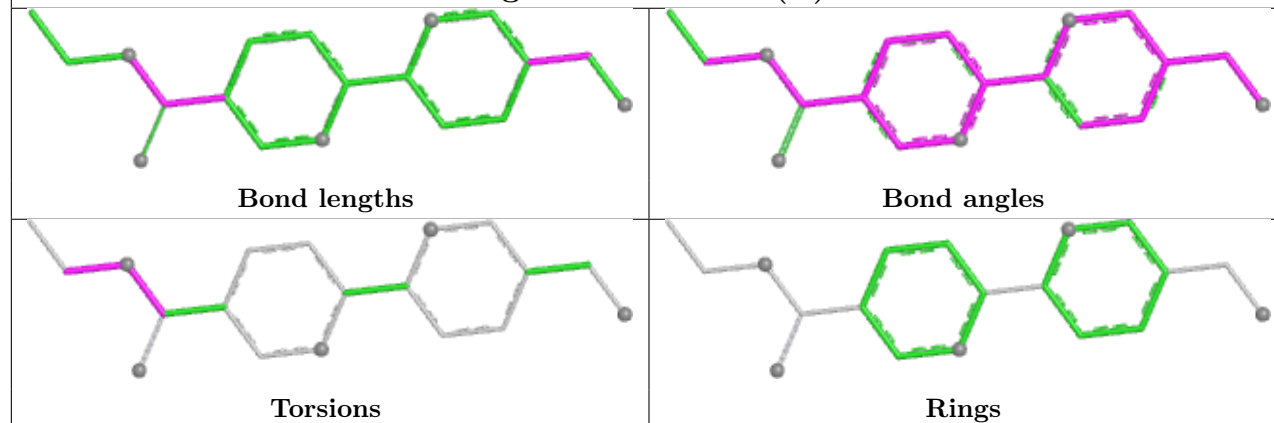
5.7 Other polymers (i)

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	5/9 (55%)	-0.27	0	100	100	4, 7, 10, 10	1 (20%)

There are no RSRZ outliers to report.

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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
1	AIB	A	7	6/7	0.98	0.04	6,9,11,11	0
1	AIB	A	5	6/7	0.99	0.04	7,9,10,10	0
1	AIB	A	3	6/7	0.99	0.04	5,7,8,8	0
1	AIB	A	9	6/7	0.99	0.04	5,7,8,8	0

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	A1ATC	A	105	9/9	0.85	0.17	17,20,24,25	18

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	A1C1V	A	104[B]	9/9	0.85	0.12	20,22,25,25	18
4	A1ATC	A	103[A]	9/9	0.90	0.10	6,9,14,14	18
2	I77	A	101[B]	19/19	0.96	0.06	9,11,14,14	29
2	I77	A	101[A]	19/19	0.96	0.06	6,7,9,11	29
3	I6W	A	102[B]	19/20	0.97	0.06	8,12,18,18	30
3	I6W	A	102[A]	19/20	0.97	0.06	7,9,12,12	30

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 A1ATC A 105:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative) and green (positive)
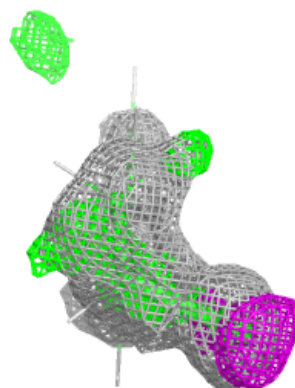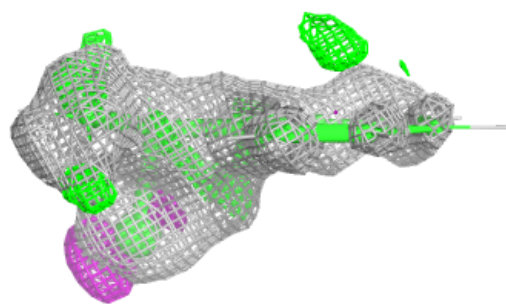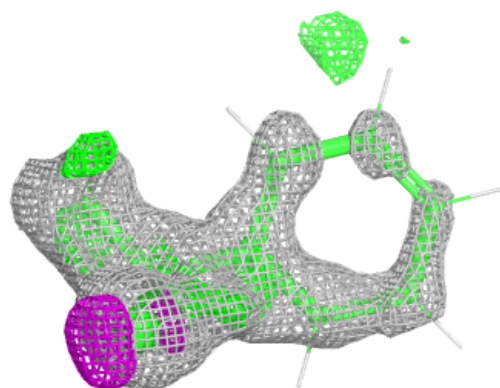
Electron density around A1C1V A 104 (B):

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
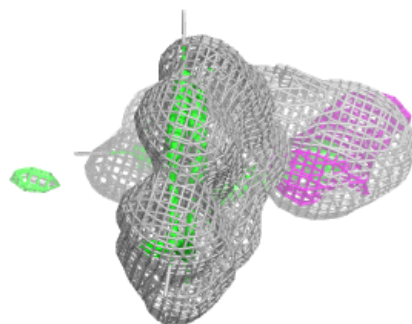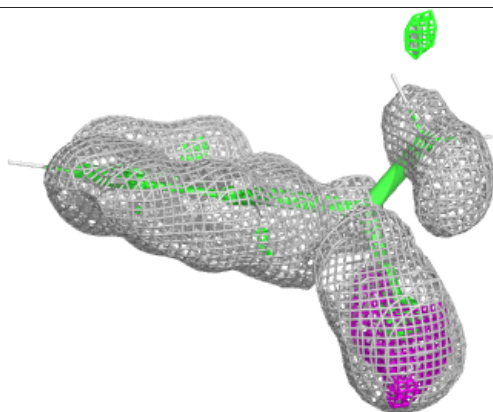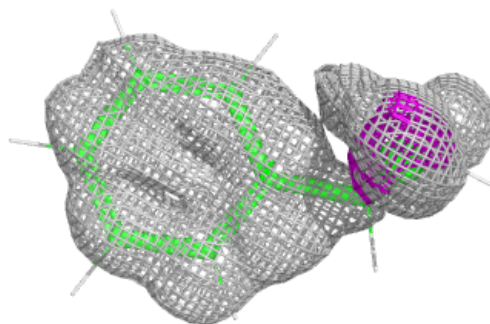
Electron density around A1ATC A 103 (A):

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
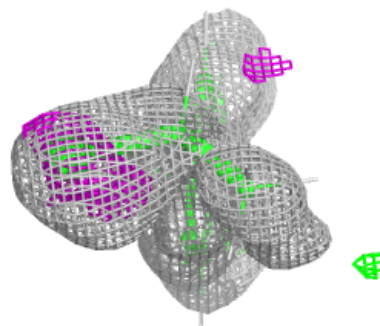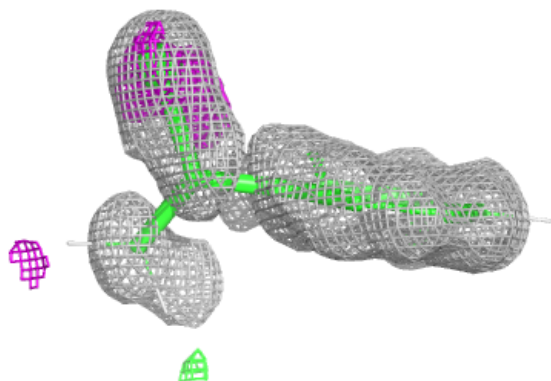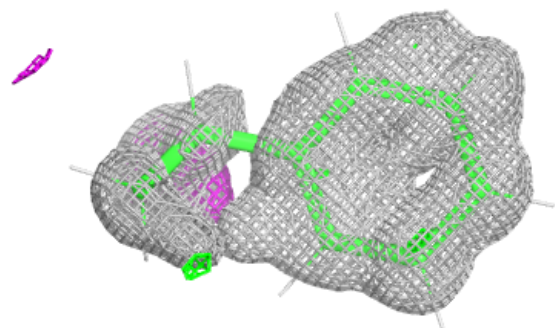
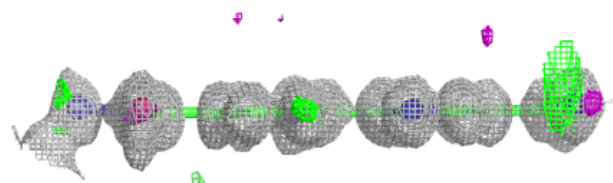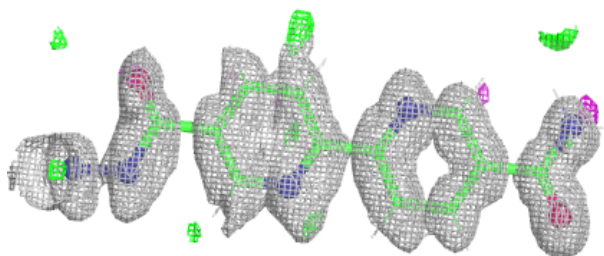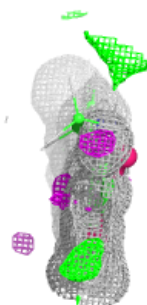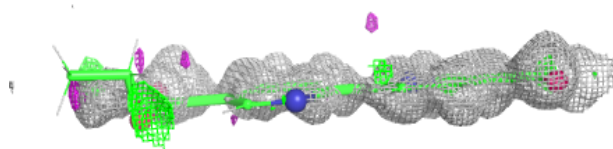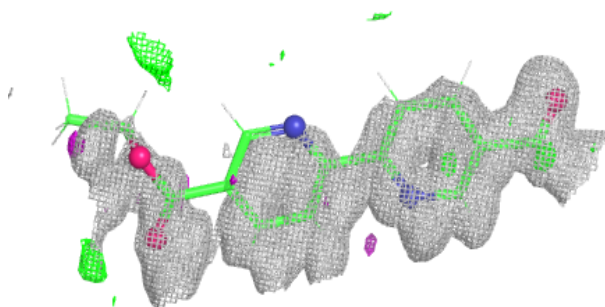**Electron density around I77 A 101 (B):**

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
and green (positive)
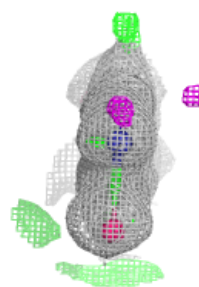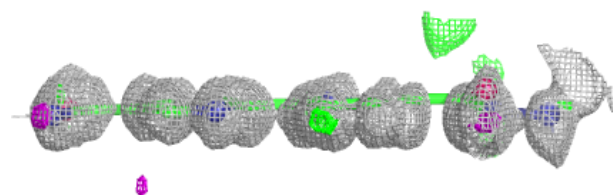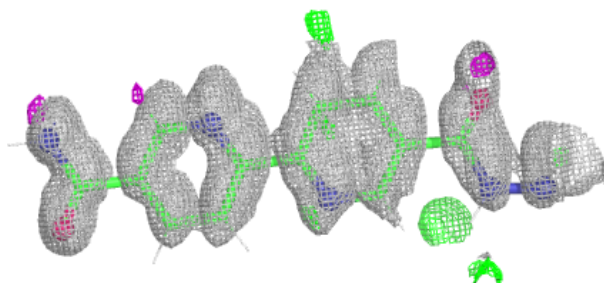
Electron density around I77 A 101 (A):

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
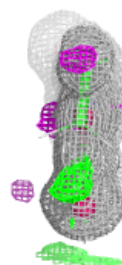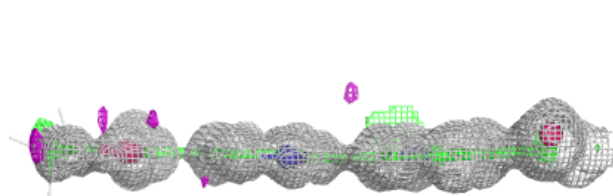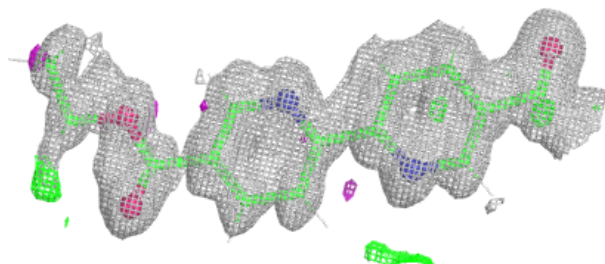and green (positive)
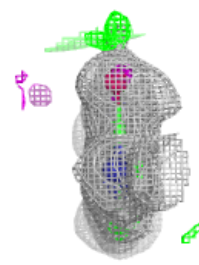
Electron density around I6W A 102 (B):

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

Electron density around I6W A 102 (A):

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

6.5 Other polymers ⓘ

There are no such residues in this entry.