



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 05:54 PM UTC

PDB ID : 5AE3 / pdb\_00005ae3  
Title : Ether Lipid-Generating Enzyme AGPS in complex with antimycin A  
Authors : Piano, V.; Benjamin, D.I.; Valente, S.; Nenci, S.; Marrocco, B.; Mai, A.;  
Aliverti, A.; Nomura, D.K.; Mattevi, A.  
Deposited on : 2015-08-25  
Resolution : 2.18 Å (reported)

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

We welcome your comments at [validation@mail.wwpdb.org](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 : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 2.0  
EDS : 3.0  
Buster-report : wwPDB partial adaption of 1.1.7 (2018)  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.010 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

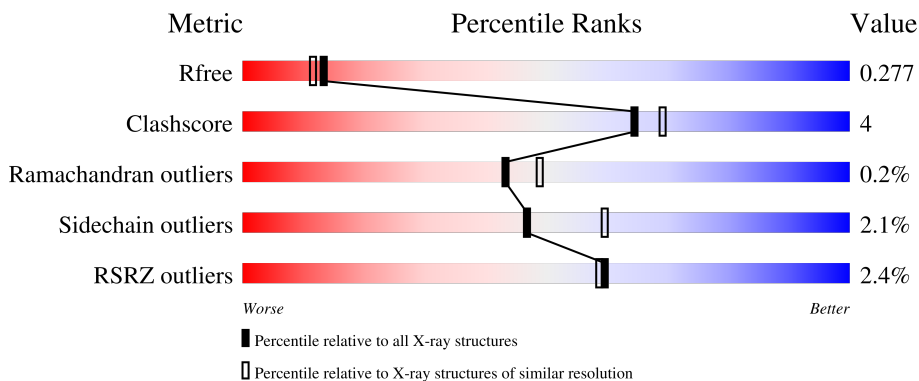
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

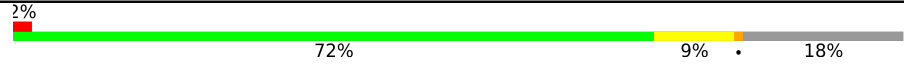



The reported resolution of this entry is 2.18 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	180053	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

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	658	 2% 72% 9% 18%
1	B	658	 3% 71% 10% 18%
1	C	658	 2% 76% 8% 16%
1	D	658	 2% 74% 9% 17%

## 2 Entry composition [i](#)

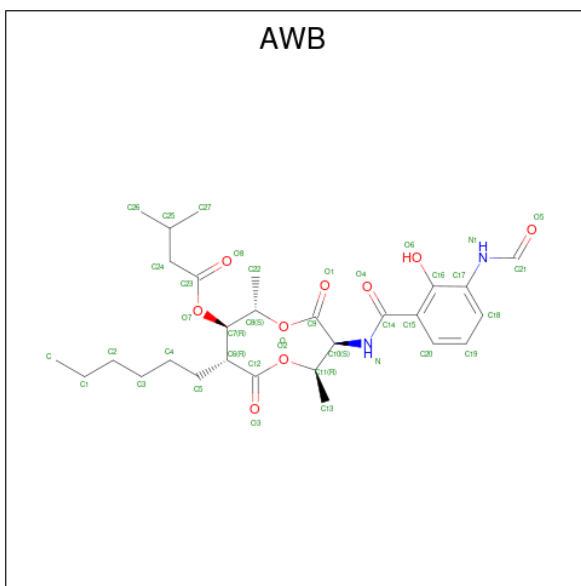
There are 5 unique types of molecules in this entry. The entry contains 18106 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ALKYLDIHYDROXYACETONEPHOSPHATE SYNTHASE, PEROXISOMAL.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	539	Total 4252	C 2697	N 740	O 791	S 24	0	0	0
1	B	539	Total 4241	C 2696	N 734	O 787	S 24	0	0	0
1	C	551	Total 4333	C 2746	N 747	O 815	S 25	0	2	0
1	D	547	Total 4308	C 2729	N 752	O 803	S 24	0	1	0

- Molecule 2 is [(2R,3S,6S,7R,8R)-3-[(3-formamido-2-oxidanyl-phenyl)carbonylamino]-8-hexyl-2,6-dimethyl-4,9-bis(oxidanylidene)-1,5-dioxonan-7-yl] 3-methylbutanoate (CCD ID: AWB) (formula: C<sub>28</sub>H<sub>40</sub>N<sub>2</sub>O<sub>9</sub>).



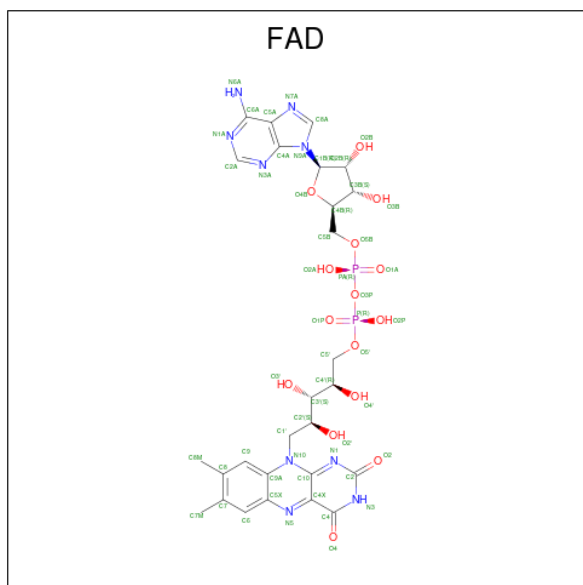
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	A	1	Total 39	C 28	N 2	O 9	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	B	1	Total	C	N	O	0	0
			39	28	2	9		
2	C	1	Total	C	N	O	0	0
			39	28	2	9		
2	D	1	Total	C	N	O	0	0
			39	28	2	9		

- Molecule 3 is FLAVIN-ADENINE DINUCLEOTIDE (CCD ID: FAD) (formula:  $C_{27}H_{33}N_9O_{15}P_2$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			53	27	9	15	2		
3	B	1	Total	C	N	O	P	0	0
			53	27	9	15	2		
3	C	1	Total	C	N	O	P	0	0
			53	27	9	15	2		
3	D	1	Total	C	N	O	P	0	0
			53	27	9	15	2		

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula:  $O_4S$ ).

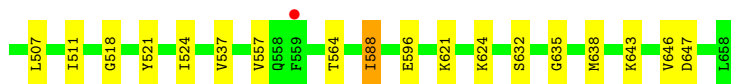


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total O S 5 4 1	0	0
4	B	1	Total O S 5 4 1	0	0
4	D	1	Total O S 5 4 1	0	0

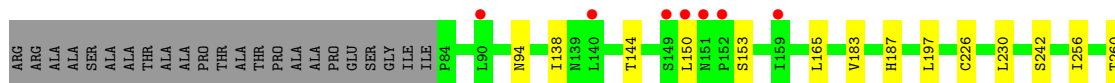
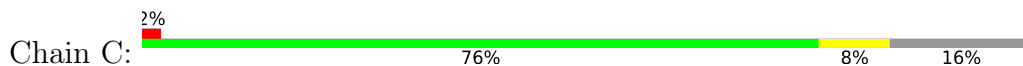
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	162	Total O 162 162	0	0
5	B	119	Total O 119 119	0	0
5	C	174	Total O 174 174	0	0
5	D	134	Total O 134 134	0	0

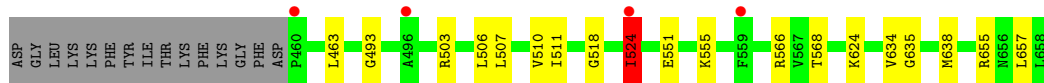
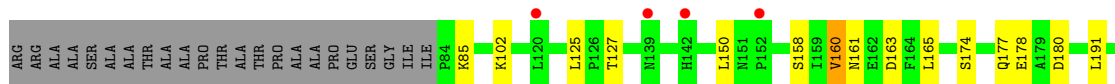
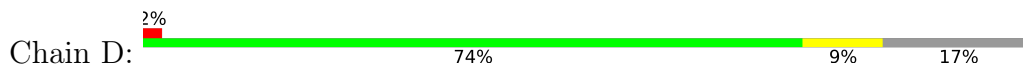




- Molecule 1: ALKYLDIHYDROXYACETONEPHOSPHATE SYNTHASE, PEROXISOMAL



- Molecule 1: ALKYLDIHYDROXYACETONEPHOSPHATE SYNTHASE, PEROXISOMAL



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	61.16Å 98.85Å 107.72Å 90.80° 90.50° 94.79°	Depositor
Resolution (Å)	107.71 – 2.18 107.71 – 2.18	Depositor EDS
% Data completeness (in resolution range)	94.2 (107.71-2.18) 94.2 (107.71-2.18)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.97 (at 2.18Å)	Xtrriage
Refinement program	REFMAC 5.8.0124	Depositor
R, $R_{free}$	0.191 , 0.259 (Not available) , 0.277	Depositor DCC
$R_{free}$ test set	1333 reflections (1.08%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	31.7	Xtrriage
Anisotropy	0.034	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 33.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	0.022 for -h,-k,l	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	18106	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	38.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.65% 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: AWB, FAD, SO4

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	1.10	3/4347 (0.1%)	1.07	10/5876 (0.2%)
1	B	1.08	3/4337 (0.1%)	1.09	4/5867 (0.1%)
1	C	1.13	3/4436 (0.1%)	1.10	8/6002 (0.1%)
1	D	1.09	3/4407 (0.1%)	1.08	8/5959 (0.1%)
All	All	1.10	12/17527 (0.1%)	1.09	30/23704 (0.1%)

The worst 5 of 12 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	333	VAL	C-O	-7.33	1.16	1.24
1	B	233	ILE	CA-C	7.26	1.59	1.53
1	C	325	ILE	C-O	-6.28	1.16	1.23
1	A	560	PRO	CA-C	6.27	1.57	1.52
1	C	379	ILE	C-O	-6.00	1.18	1.24

The worst 5 of 30 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	414	ALA	CA-C-N	-7.36	113.15	120.21
1	C	414	ALA	C-N-CA	-7.36	113.15	120.21
1	A	156	PRO	N-CA-C	6.88	119.09	110.70
1	D	325	ILE	CB-CA-C	-6.43	103.83	111.94
1	D	524	ILE	N-CA-CB	6.14	118.00	111.00

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	4252	0	4163	36	0
1	B	4241	0	4157	45	0
1	C	4333	0	4242	24	0
1	D	4308	0	4238	32	0
2	A	39	0	40	8	0
2	B	39	0	40	5	0
2	C	39	0	39	4	0
2	D	39	0	39	4	0
3	A	53	0	31	0	0
3	B	53	0	31	1	0
3	C	53	0	31	0	0
3	D	53	0	31	0	0
4	A	5	0	0	0	0
4	B	5	0	0	0	0
4	D	5	0	0	0	0
5	A	162	0	0	1	0
5	B	119	0	0	2	0
5	C	174	0	0	1	0
5	D	134	0	0	4	0
All	All	18106	0	17082	135	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.

The worst 5 of 135 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:D:191:LEU:HD21	1:D:524:ILE:HG22	1.61	0.79
1:A:635:GLY:HA2	1:A:638:MET:HE3	1.65	0.78
1:D:210:LEU:HD13	1:D:256:ILE:HG23	1.67	0.75
1:C:388:GLN:NE2	1:C:471:GLU:OE1	2.23	0.70
1:B:635:GLY:HA2	1:B:638:MET:HE3	1.73	0.69

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	531/658 (81%)	512 (96%)	16 (3%)	3 (1%)	21	20
1	B	533/658 (81%)	515 (97%)	18 (3%)	0	100	100
1	C	549/658 (83%)	528 (96%)	21 (4%)	0	100	100
1	D	544/658 (83%)	530 (97%)	13 (2%)	1 (0%)	43	49
All	All	2157/2632 (82%)	2085 (97%)	68 (3%)	4 (0%)	43	49

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	141	ASP
1	A	142	HIS
1	D	657	LEU
1	A	156	PRO

### 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	456/545 (84%)	444 (97%)	12 (3%)	40	51
1	B	454/545 (83%)	444 (98%)	10 (2%)	45	58
1	C	467/545 (86%)	459 (98%)	8 (2%)	53	66
1	D	463/545 (85%)	454 (98%)	9 (2%)	50	63
All	All	1840/2180 (84%)	1801 (98%)	39 (2%)	47	59

5 of 39 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	536	ARG
1	D	384	THR
1	C	568	THR
1	D	180	ASP
1	D	510	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 11 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	480	HIS
1	D	133	GLN
1	D	277	HIS
1	D	192	HIS
1	B	423	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](#)

11 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	FAD	A	999	-	58,58,58	2.06	12 (20%)	85,89,89	1.70	21 (24%)
4	SO4	A	1659	-	4,4,4	0.54	0	6,6,6	0.63	0
2	AWB	D	800	-	40,40,40	1.84	9 (22%)	34,54,54	2.11	11 (32%)
3	FAD	C	999	-	58,58,58	1.56	9 (15%)	85,89,89	1.83	20 (23%)
3	FAD	B	999	-	58,58,58	1.78	12 (20%)	85,89,89	1.74	22 (25%)
3	FAD	D	999	-	58,58,58	1.72	15 (25%)	85,89,89	1.71	26 (30%)
2	AWB	A	800	-	40,40,40	1.97	7 (17%)	34,54,54	1.87	8 (23%)
4	SO4	D	1659	-	4,4,4	0.50	0	6,6,6	0.70	0
2	AWB	C	800	-	40,40,40	1.87	7 (17%)	34,54,54	1.52	4 (11%)
4	SO4	B	1659	-	4,4,4	0.61	0	6,6,6	0.62	0
2	AWB	B	800	-	40,40,40	1.84	7 (17%)	34,54,54	2.20	10 (29%)

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	FAD	A	999	-	-	2/34/50/50	0/6/6/6
2	AWB	D	800	-	-	7/38/53/53	0/1/2/2
3	FAD	C	999	-	-	2/34/50/50	0/6/6/6
3	FAD	B	999	-	-	2/34/50/50	0/6/6/6
3	FAD	D	999	-	-	2/34/50/50	0/6/6/6
2	AWB	A	800	-	-	9/38/53/53	0/1/2/2
2	AWB	C	800	-	-	14/38/53/53	0/1/2/2
2	AWB	B	800	-	-	10/38/53/53	0/1/2/2

The worst 5 of 78 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	999	FAD	C9A-C5X	8.01	1.54	1.41
3	A	999	FAD	P-O3P	6.11	1.66	1.59
2	C	800	AWB	O2-C12	6.05	1.48	1.34
2	A	800	AWB	C17-C16	6.04	1.49	1.40
3	D	999	FAD	C9A-C5X	5.65	1.50	1.41

The worst 5 of 122 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	800	AWB	O7-C23-C24	5.92	122.05	111.43
2	A	800	AWB	O7-C23-C24	5.64	121.54	111.43
2	D	800	AWB	C7-O7-C23	-5.31	108.95	117.59
2	B	800	AWB	C17-N1-C21	-4.83	117.20	126.87
3	C	999	FAD	N3A-C2A-N1A	-4.74	121.41	128.58

There are no chirality outliers.

5 of 48 torsion outliers are listed below:

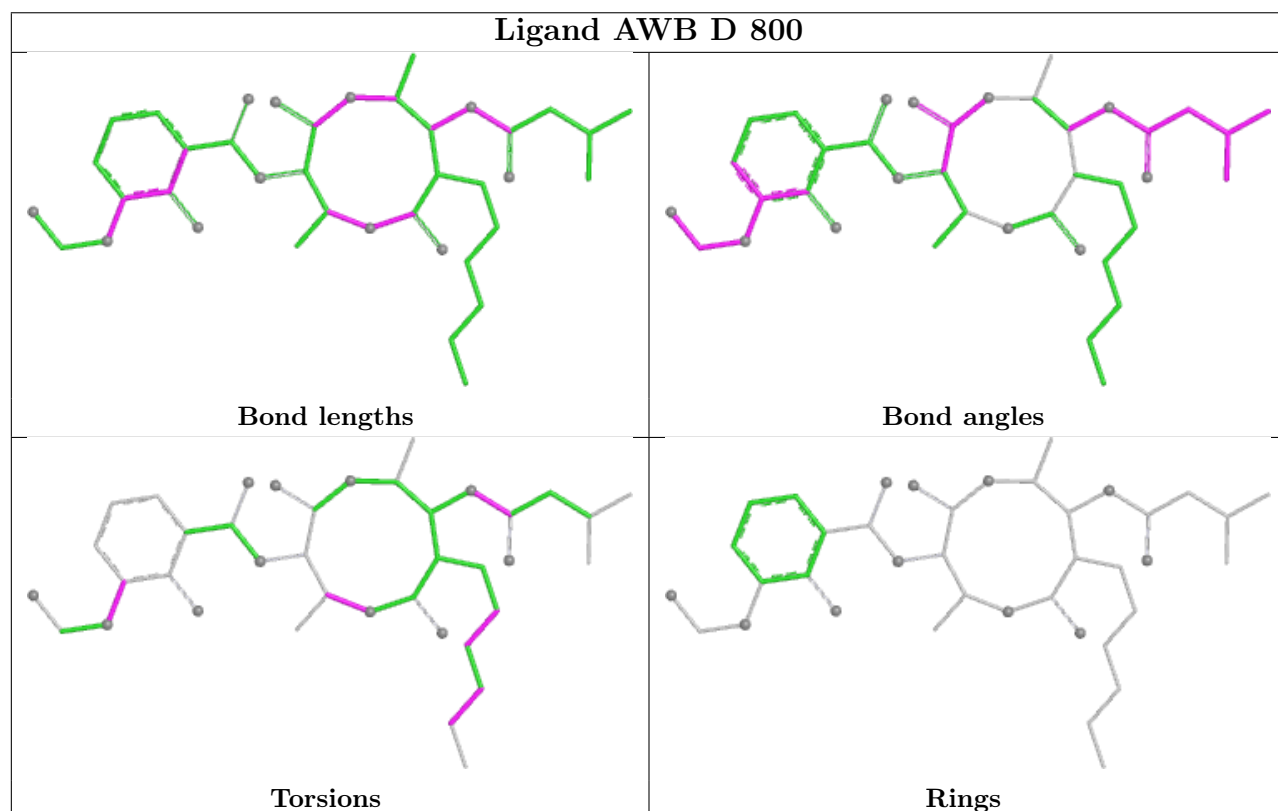
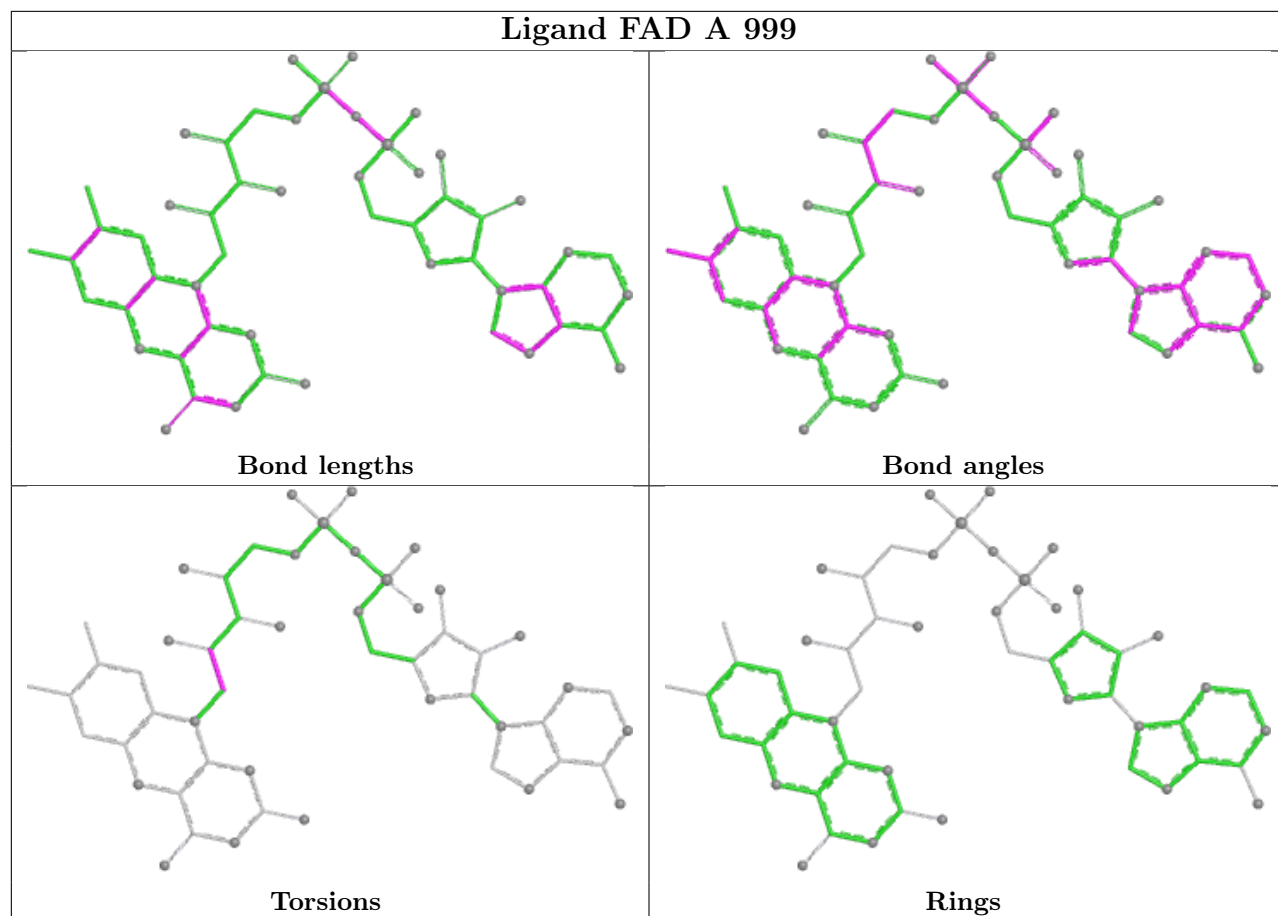
Mol	Chain	Res	Type	Atoms
2	A	800	AWB	C10-C11-O2-C12
2	A	800	AWB	C23-C24-C25-C26
2	A	800	AWB	C23-C24-C25-C27
2	B	800	AWB	C16-C17-N1-C21
2	B	800	AWB	O5-C21-N1-C17

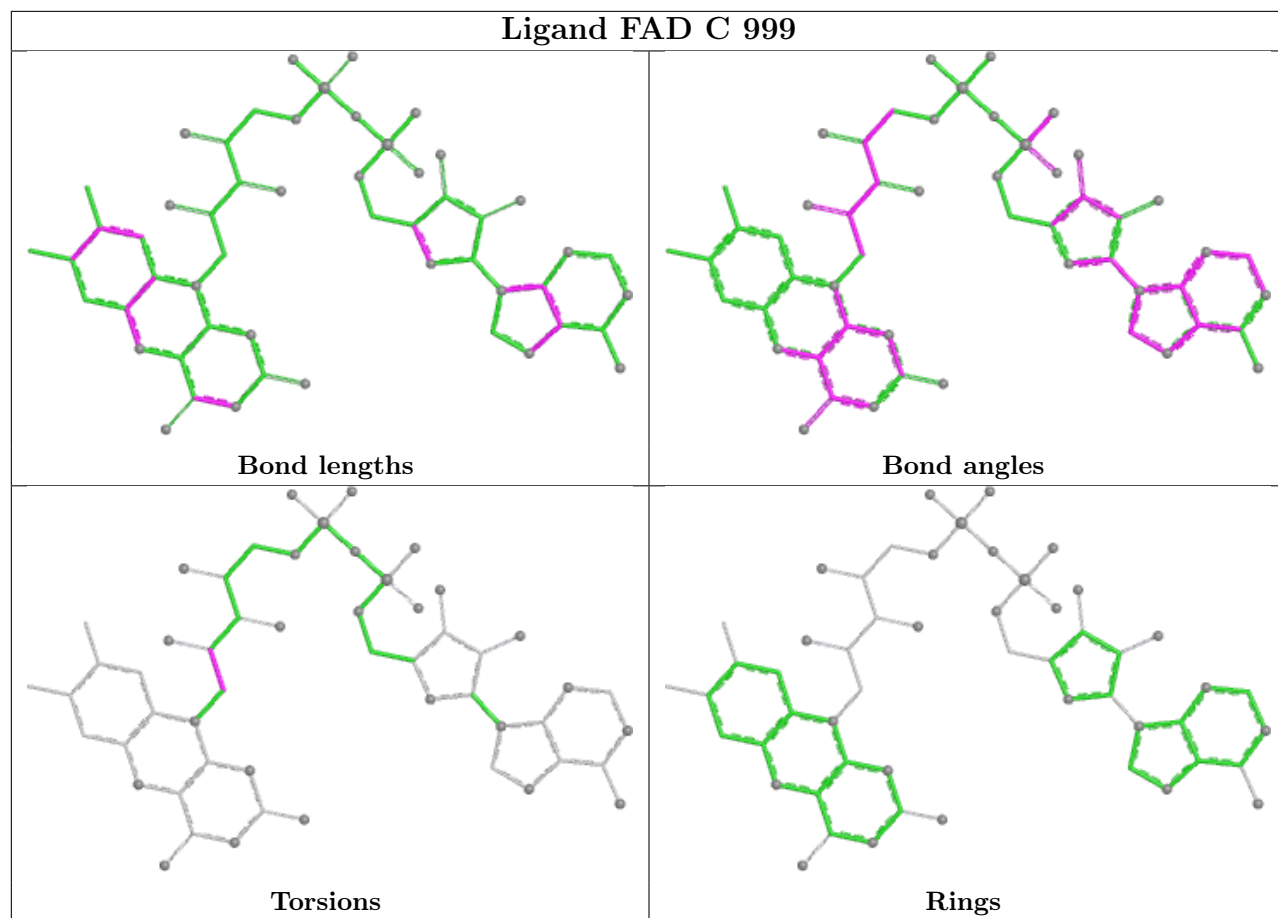
There are no ring outliers.

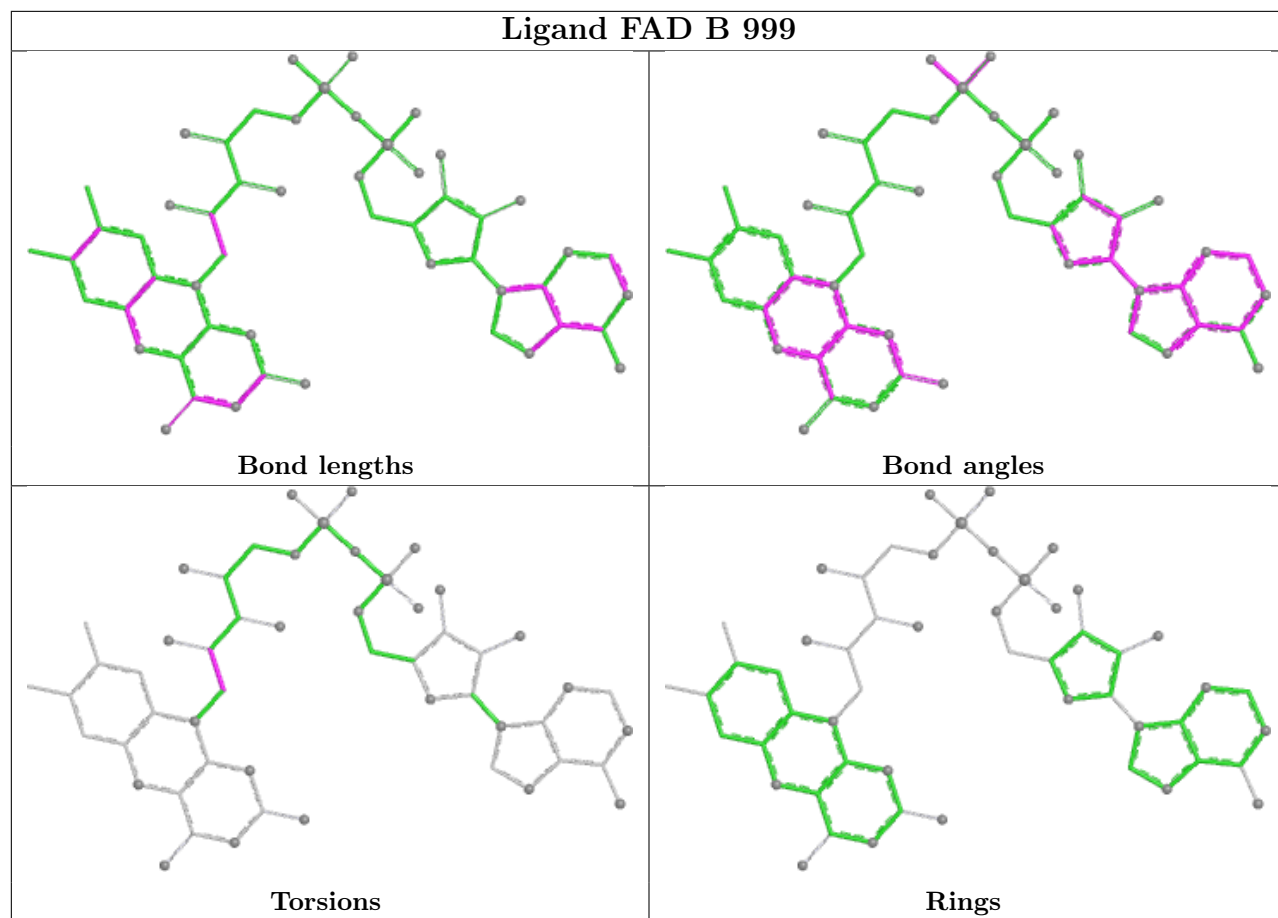
5 monomers are involved in 22 short contacts:

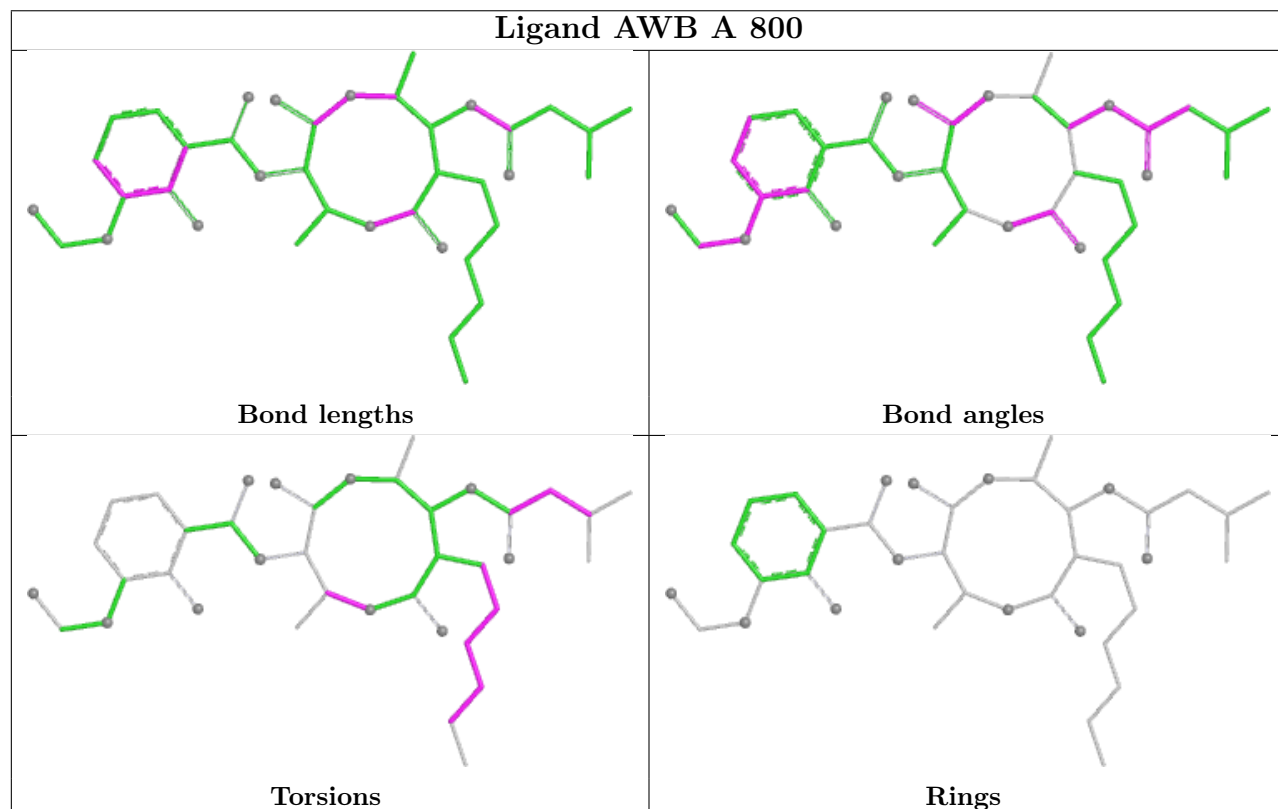
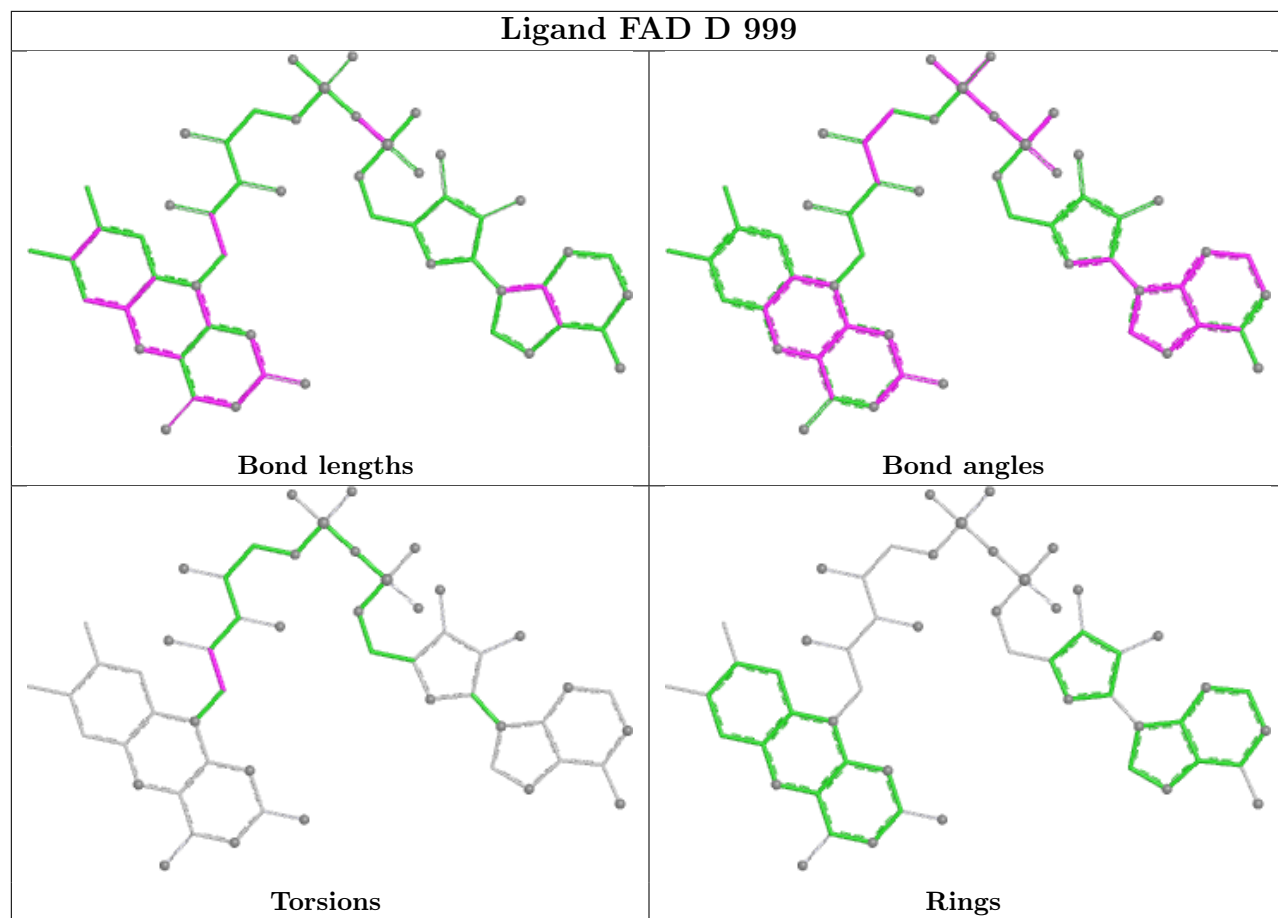
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	800	AWB	4	0
3	B	999	FAD	1	0
2	A	800	AWB	8	0
2	C	800	AWB	4	0
2	B	800	AWB	5	0

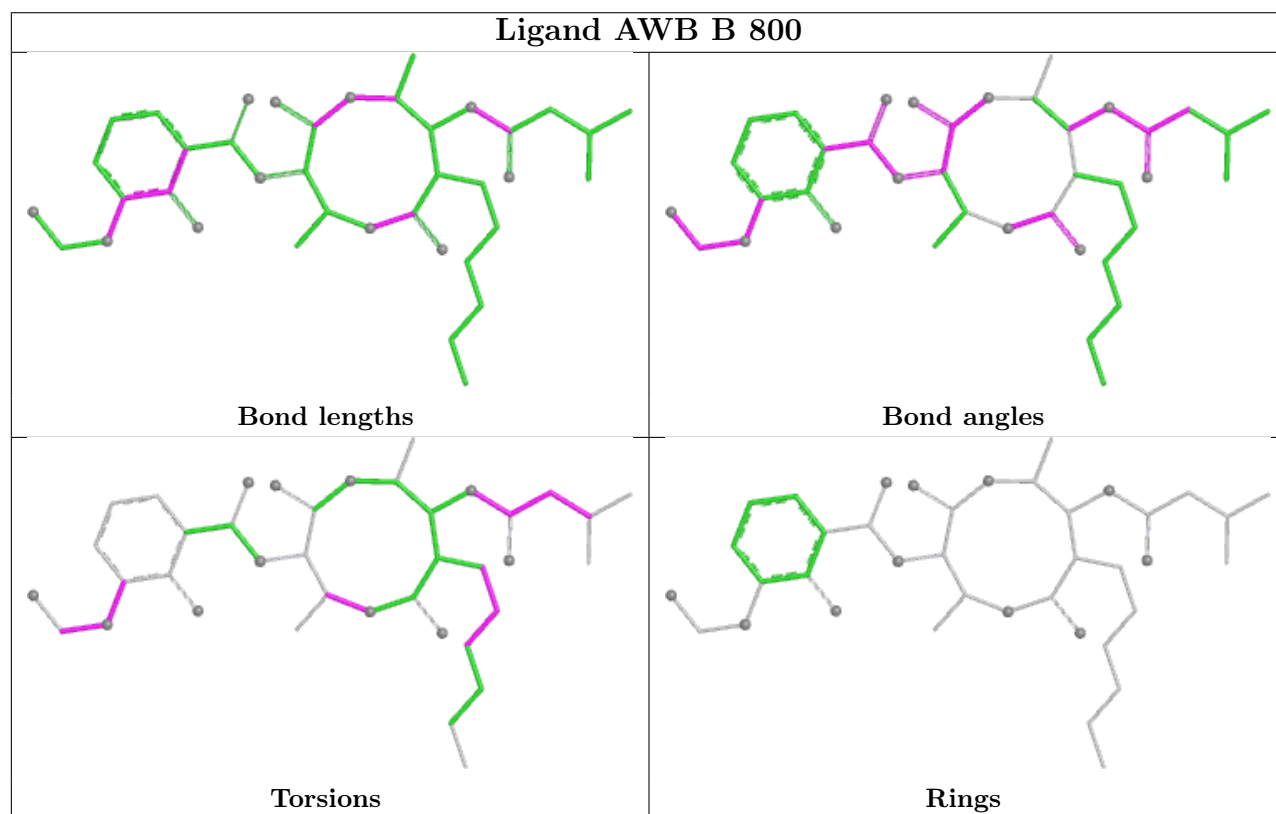
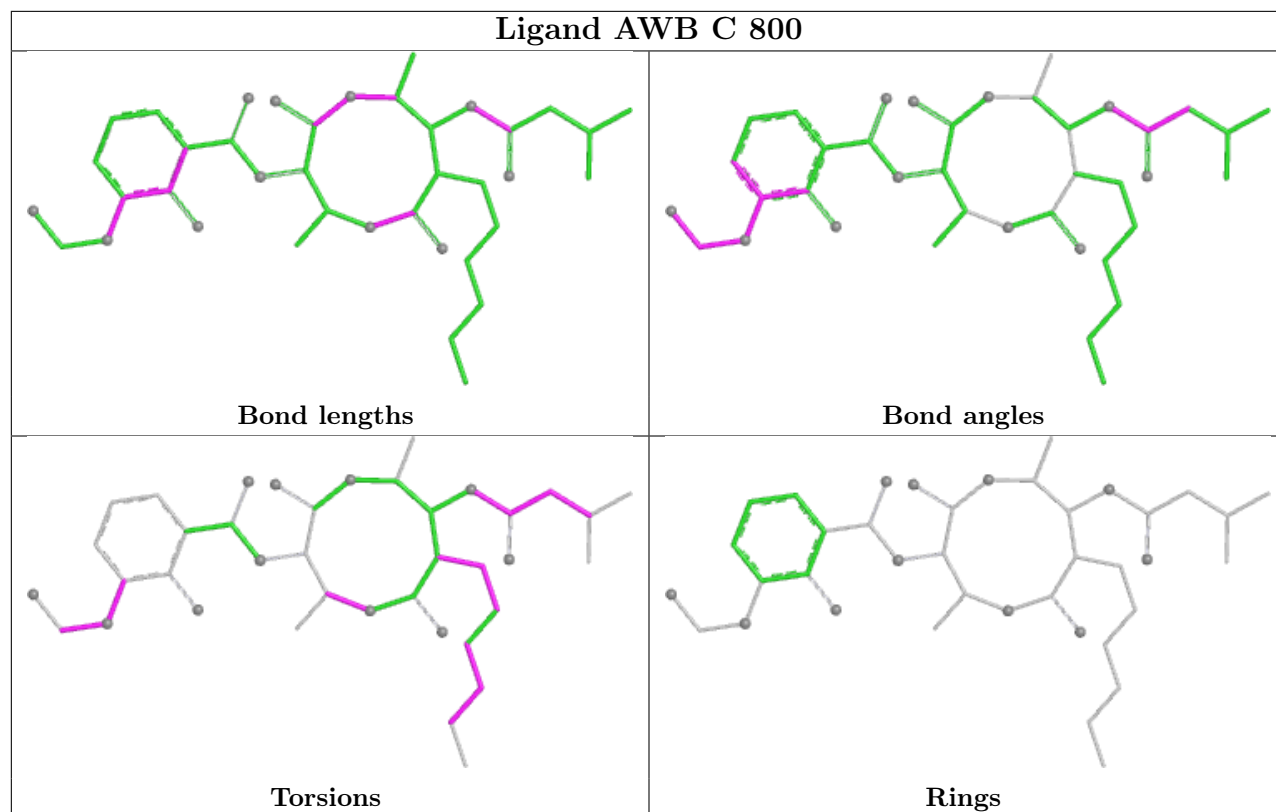
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.











## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	539/658 (81%)	0.18	15 (2%) 55 54	18, 35, 64, 81	0
1	B	539/658 (81%)	0.28	17 (3%) 50 49	18, 38, 66, 81	0
1	C	551/658 (83%)	0.08	10 (1%) 67 67	14, 33, 60, 78	2 (0%)
1	D	547/658 (83%)	0.19	10 (1%) 67 67	12, 35, 61, 79	1 (0%)
All	All	2176/2632 (82%)	0.18	52 (2%) 59 59	12, 35, 63, 81	3 (0%)

The worst 5 of 52 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	431	ALA	4.6
1	C	159	ILE	4.2
1	C	150	LEU	4.0
1	A	559	PHE	3.7
1	B	140	LEU	3.6

### 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](#)

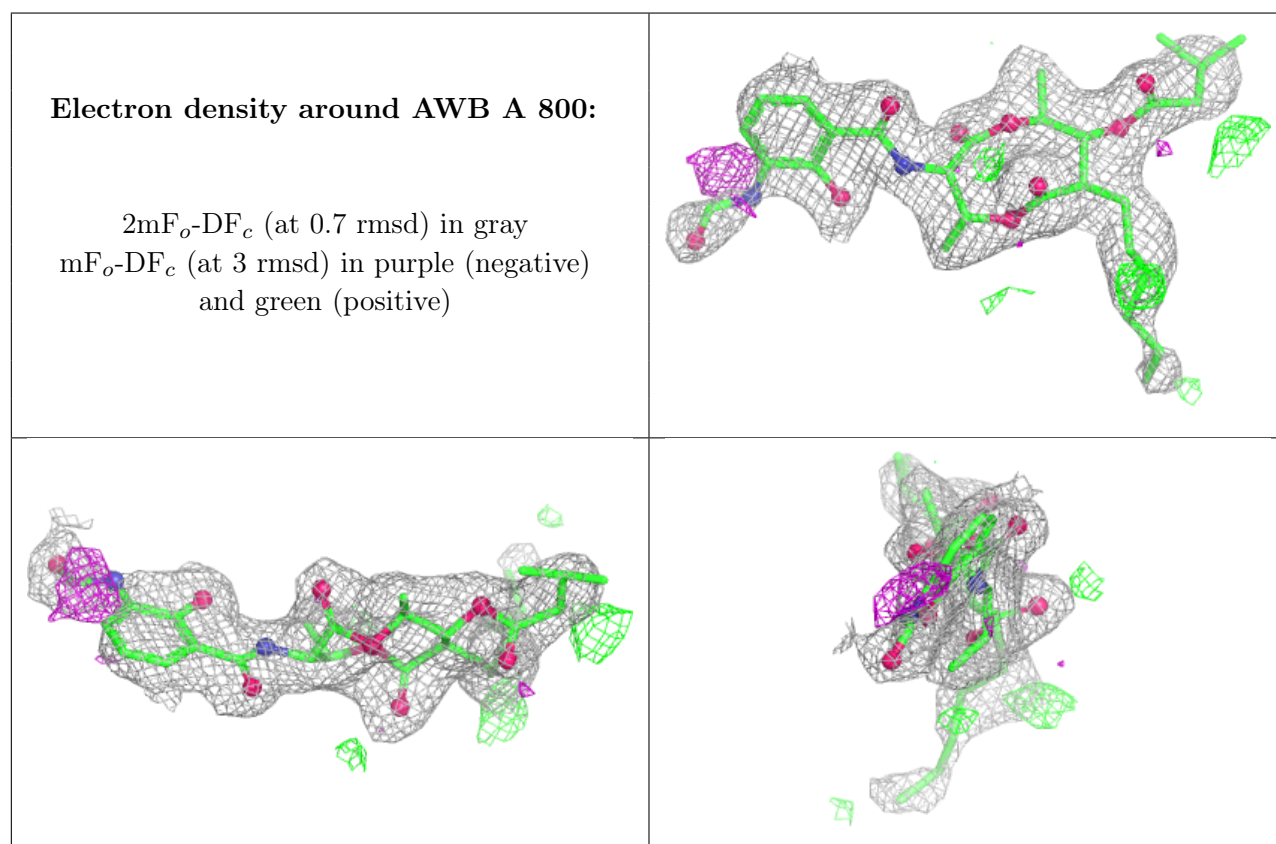
There are no oligosaccharides in this entry.

### 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.

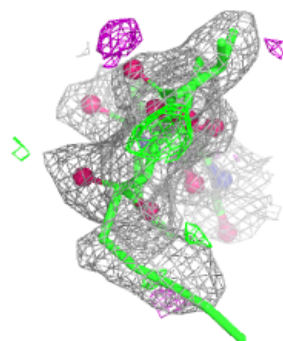
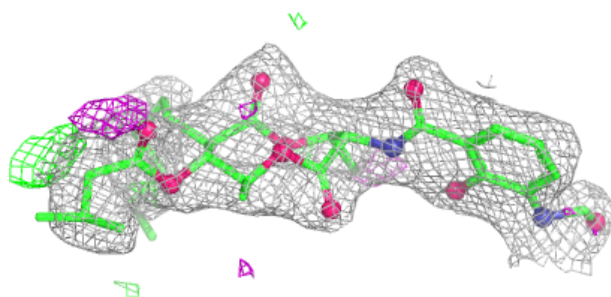
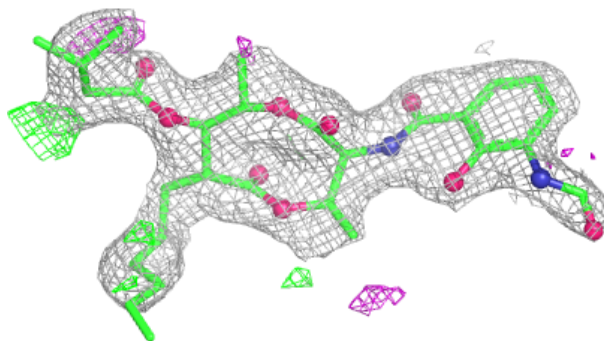
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	AWB	A	800	39/39	0.87	0.14	32,44,63,67	0
2	AWB	B	800	39/39	0.88	0.13	39,46,71,74	0
4	SO4	B	1659	5/5	0.88	0.16	49,60,66,69	0
2	AWB	D	800	39/39	0.91	0.12	32,43,61,63	0
4	SO4	D	1659	5/5	0.92	0.14	57,59,61,73	0
2	AWB	C	800	39/39	0.94	0.09	28,38,55,59	0
4	SO4	A	1659	5/5	0.96	0.12	47,49,61,65	0
3	FAD	A	999	53/53	0.98	0.04	15,19,24,25	0
3	FAD	B	999	53/53	0.98	0.05	19,21,23,26	0
3	FAD	D	999	53/53	0.98	0.06	15,19,23,24	0
3	FAD	C	999	53/53	0.99	0.04	15,18,20,21	0

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

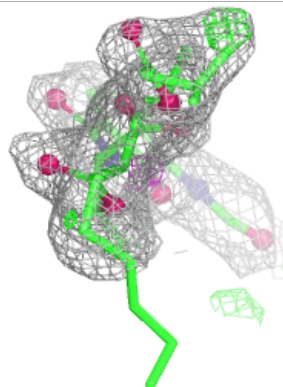
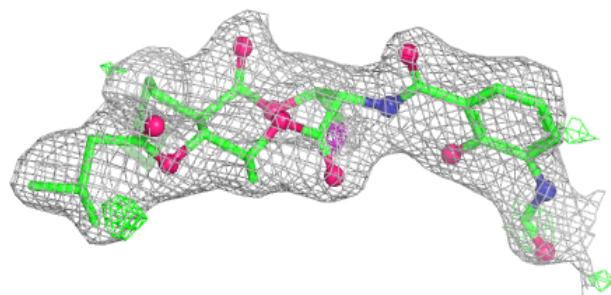
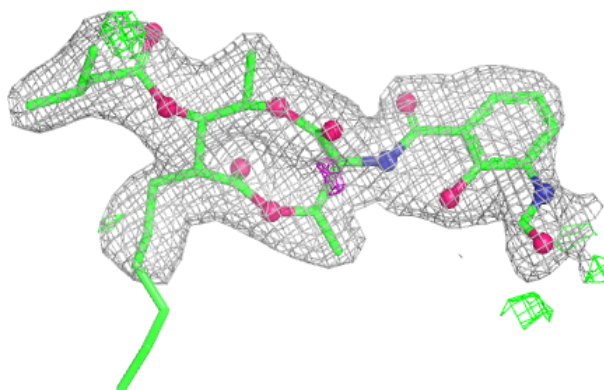


**Electron density around AWB B 800:**

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

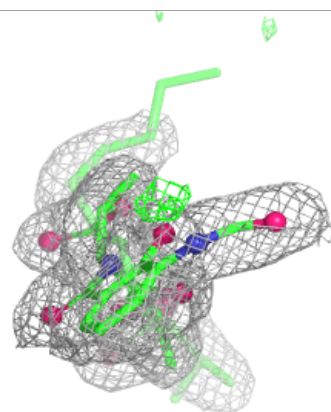
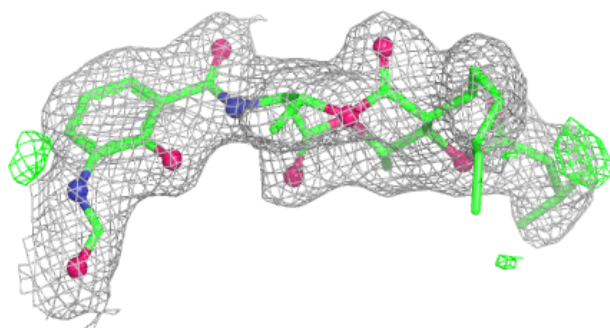
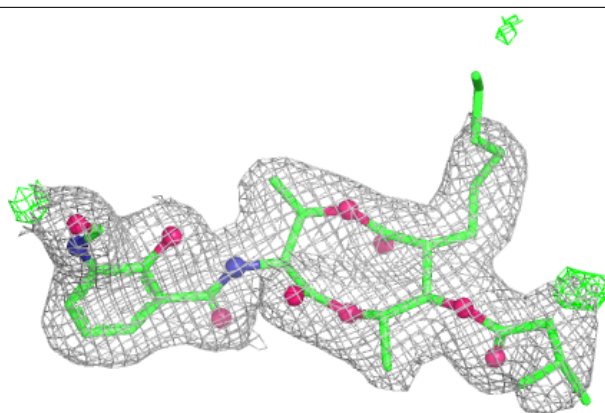
**Electron density around AWB D 800:**

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

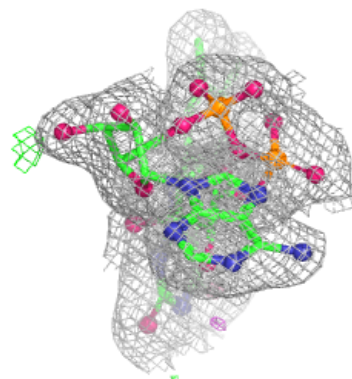
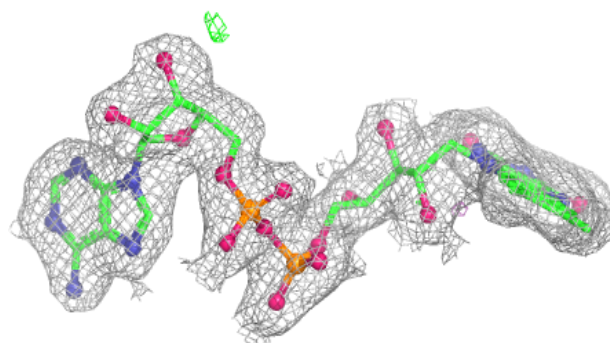
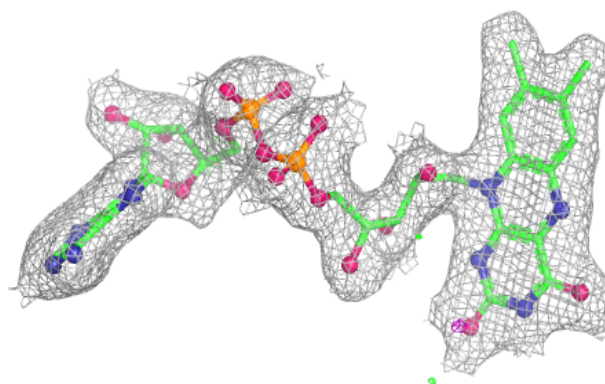


**Electron density around AWB C 800:**

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

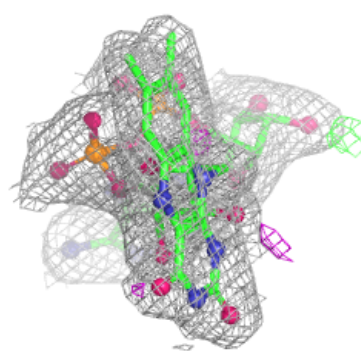
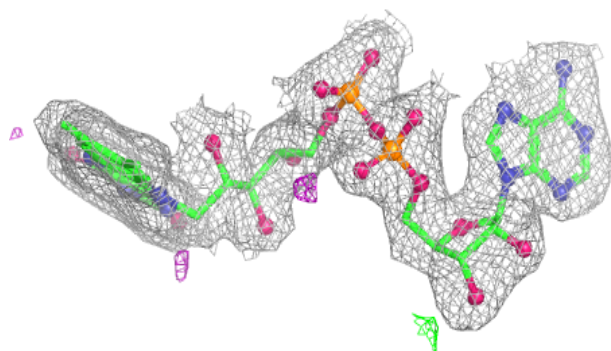
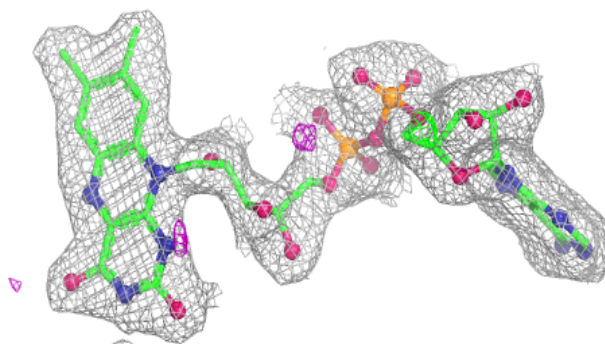
**Electron density around FAD A 999:**

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

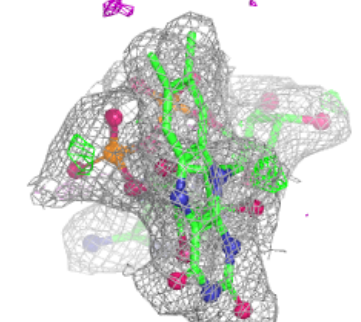
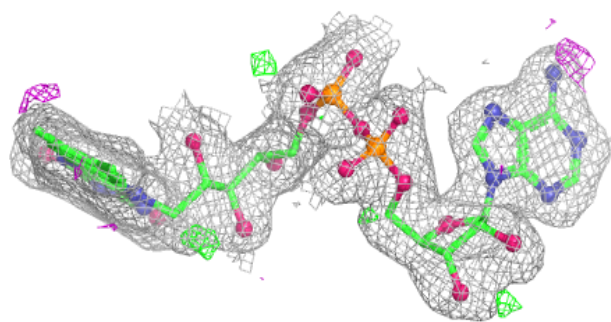
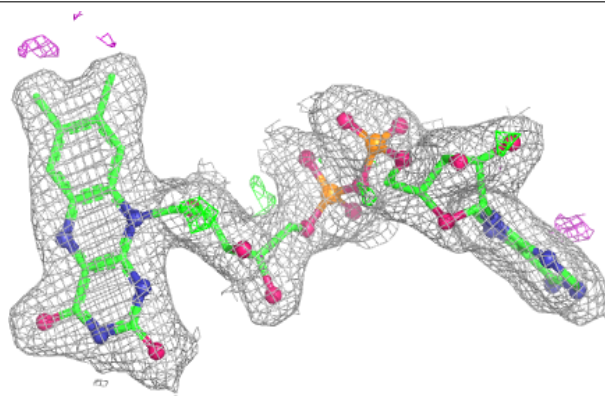


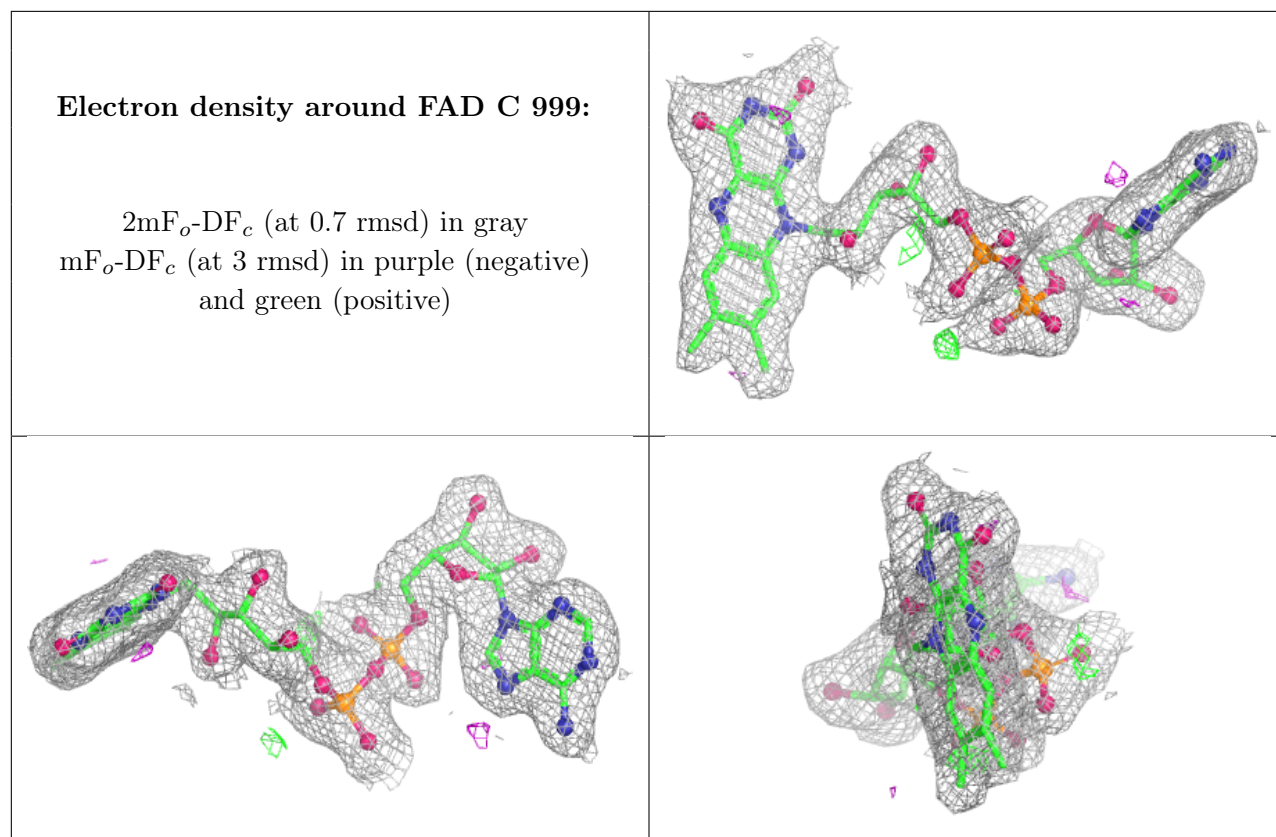
**Electron density around FAD B 999:**

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

**Electron density around FAD D 999:**

$2mF_o-DF_c$  (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.