



# wwPDB X-ray Structure Validation Summary Report

Mar 5, 2026 – 03:49 AM UTC

PDB ID : 7PGX / pdb\_00007pgx  
Title : Structure of dark-adapted AsLOV2 wild type  
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Deposited on : 2021-08-16  
Resolution : 1.00 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)

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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)  
Xtrriage (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

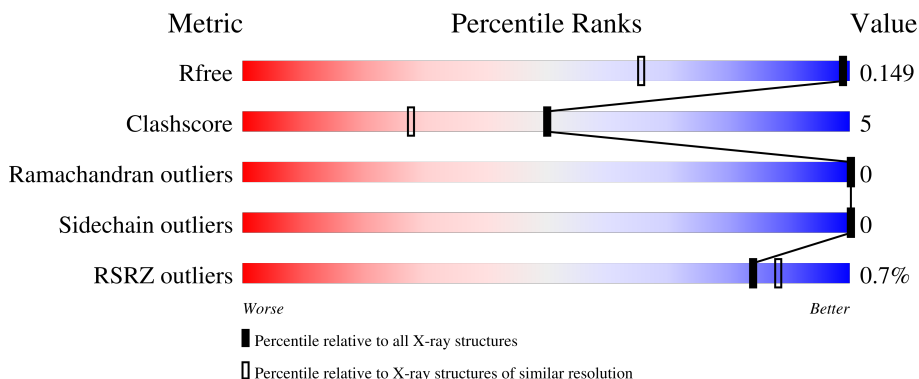
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.00 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	1358 (1.04-0.96)
Clashscore	190562	1411 (1.04-0.96)
Ramachandran outliers	187476	1347 (1.04-0.96)
Sidechain outliers	187428	1348 (1.04-0.96)
RSRZ outliers	180081	1355 (1.04-0.96)

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	AAA	146	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	GOL	AAA	609[A]	-	-	X	-

## 2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 1877 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 NPH1-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	AAA	146	1511	960	258	287	6	0	44	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AAA	401	GLY	-	expression tag	UNP O49003
AAA	402	GLU	-	expression tag	UNP O49003
AAA	403	PHE	-	expression tag	UNP O49003

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	AAA	1	Total	Ca	0	1
			2	2		

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	AAA	1	Total	Cl	0	1
			2	2		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	AAA	1	Total C O 12 6 6	0	1
4	AAA	1	Total C O 6 3 3	0	1
4	AAA	1	Total C O 6 3 3	0	0
4	AAA	1	Total C O 12 6 6	0	1
4	AAA	1	Total C O 12 6 6	0	1
4	AAA	1	Total C O 12 6 6	0	1
4	AAA	1	Total C O 6 3 3	0	1
4	AAA	1	Total C O 6 3 3	0	0
4	AAA	1	Total C O 6 3 3	0	1
4	AAA	1	Total C O 6 3 3	0	0

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



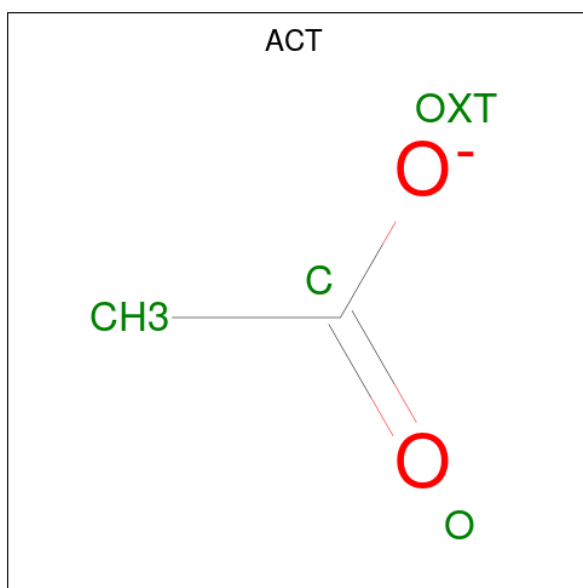
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	AAA	1	Total	C	O	0	0
			5	3	2		
5	AAA	1	Total	C	O	0	1
			7	4	3		

- Molecule 6 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



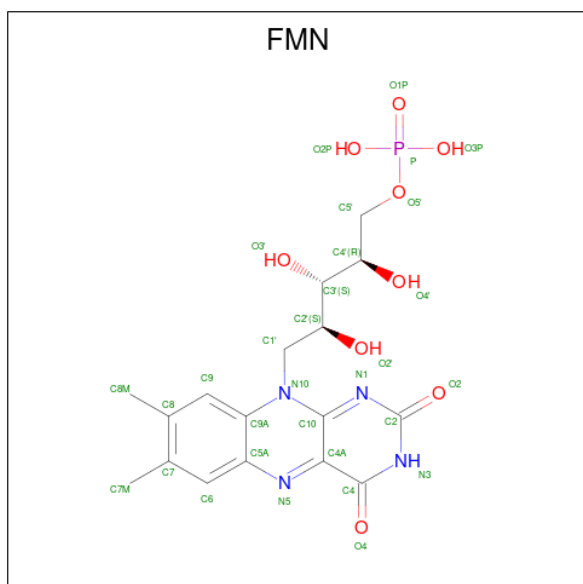
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	AAA	1	Total	C	O	0	0
			4	2	2		
6	AAA	1	Total	C	O	0	0
			4	2	2		

- Molecule 7 is ACETATE ION (CCD ID: ACT) (formula:  $C_2H_3O_2$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	AAA	1	Total	C	O	0	1
			4	2	2		

- Molecule 8 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula:  $C_{17}H_{21}N_4O_9P$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
8	AAA	1	Total	C	N	O	P	0	0
			31	17	4	9	1		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	AAA	183	Total 223	O 223	0	64

### 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: NPH1-1



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	35.50Å 56.42Å 66.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.06 – 1.00 43.06 – 1.00	Depositor EDS
% Data completeness (in resolution range)	93.1 (43.06-1.00) 93.1 (43.06-1.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.98 (at 1.00Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, $R_{free}$	0.114 , 0.147 0.117 , 0.149	Depositor DCC
$R_{free}$ test set	3394 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	9.3	Xtrriage
Anisotropy	0.319	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 49.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	1877	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	13.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.76% 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: EDO, ACT, GOL, PEG, CA, CL, FMN

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	AAA	0.77	0/1609	0.78	1/2160 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	482	ASN	CA-CB-CG	6.01	118.61	112.60

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	AAA	1511	0	1574	13	0
2	AAA	2	0	0	0	0
3	AAA	2	0	0	0	0
4	AAA	84	0	112	8	0
5	AAA	12	0	15	3	0
6	AAA	8	0	12	2	0
7	AAA	4	0	3	0	0
8	AAA	31	0	19	0	0
9	AAA	223	0	0	3	0
All	All	1877	0	1735	18	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 5.

The worst 5 of 18 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:AAA:401:GLY:N	5:AAA:613:PEG:HO4	1.86	0.73
4:AAA:611[A]:GOL:H31	9:AAA:824:HOH:O	1.87	0.72
1:AAA:442:ARG:H	5:AAA:613:PEG:C2	2.04	0.69
4:AAA:608[B]:GOL:O3	4:AAA:608[B]:GOL:O1	2.13	0.62
1:AAA:479:GLN:HE21	4:AAA:609[A]:GOL:H31	1.64	0.61

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	AAA	190/146 (130%)	189 (100%)	1 (0%)	0	<a href="#">100</a> <a href="#">100</a>

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	AAA	175/129 (136%)	175 (100%)	0	<a href="#">100</a> <a href="#">100</a>

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 [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](#)

Of 24 ligands modelled in this entry, 4 are monoatomic - leaving 20 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
4	GOL	AAA	603[B]	-	5,5,5	0.26	0	5,5,5	0.34	0
4	GOL	AAA	609[A]	-	5,5,5	0.39	0	5,5,5	0.65	0
4	GOL	AAA	607[B]	-	5,5,5	0.12	0	5,5,5	0.40	0
4	GOL	AAA	611[A]	-	5,5,5	0.12	0	5,5,5	0.37	0
7	ACT	AAA	617[A]	-	3,3,3	0.74	0	3,3,3	0.85	0
8	FMN	AAA	618	-	33,33,33	0.77	1 (3%)	48,50,50	0.72	1 (2%)
4	GOL	AAA	603[A]	-	5,5,5	0.26	0	5,5,5	0.27	0
6	EDO	AAA	615	-	3,3,3	0.29	0	2,2,2	0.30	0
4	GOL	AAA	608[B]	-	5,5,5	0.17	0	5,5,5	0.17	0
4	GOL	AAA	607[A]	-	5,5,5	0.11	0	5,5,5	0.12	0
4	GOL	AAA	610	-	5,5,5	0.10	0	5,5,5	0.52	0
5	PEG	AAA	614[A]	-	6,6,6	0.17	0	5,5,5	0.20	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	GOL	AAA	605	-	5,5,5	0.22	0	5,5,5	0.64	0
4	GOL	AAA	606[B]	-	5,5,5	0.16	0	5,5,5	0.63	0
6	EDO	AAA	616	-	3,3,3	0.08	0	2,2,2	0.18	0
5	PEG	AAA	613	-	4,4,6	0.31	0	3,3,5	0.32	0
4	GOL	AAA	612	-	5,5,5	0.13	0	5,5,5	0.47	0
4	GOL	AAA	608[A]	-	5,5,5	0.10	0	5,5,5	0.38	0
4	GOL	AAA	604[A]	-	5,5,5	0.26	0	5,5,5	0.88	0
4	GOL	AAA	606[A]	-	5,5,5	0.13	0	5,5,5	0.65	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GOL	AAA	603[B]	-	-	0/4/4/4	-
4	GOL	AAA	609[A]	-	-	4/4/4/4	-
4	GOL	AAA	607[B]	-	-	2/4/4/4	-
4	GOL	AAA	611[A]	-	-	4/4/4/4	-
8	FMN	AAA	618	-	-	1/18/18/18	0/3/3/3
4	GOL	AAA	603[A]	-	-	0/4/4/4	-
6	EDO	AAA	615	-	-	1/1/1/1	-
4	GOL	AAA	608[B]	-	-	2/4/4/4	-
4	GOL	AAA	607[A]	-	-	0/4/4/4	-
4	GOL	AAA	610	-	-	4/4/4/4	-
5	PEG	AAA	614[A]	-	-	1/4/4/4	-
4	GOL	AAA	605	-	-	0/4/4/4	-
4	GOL	AAA	606[B]	-	-	0/4/4/4	-
6	EDO	AAA	616	-	-	1/1/1/1	-
5	PEG	AAA	613	-	-	0/2/2/4	-
4	GOL	AAA	612	-	-	2/4/4/4	-
4	GOL	AAA	608[A]	-	-	1/4/4/4	-
4	GOL	AAA	604[A]	-	-	2/4/4/4	-
4	GOL	AAA	606[A]	-	-	0/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	AAA	618	FMN	C6-C7	-2.34	1.36	1.39

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	AAA	618	FMN	C5A-C9A-N10	2.13	119.89	117.97

There are no chirality outliers.

5 of 25 torsion outliers are listed below:

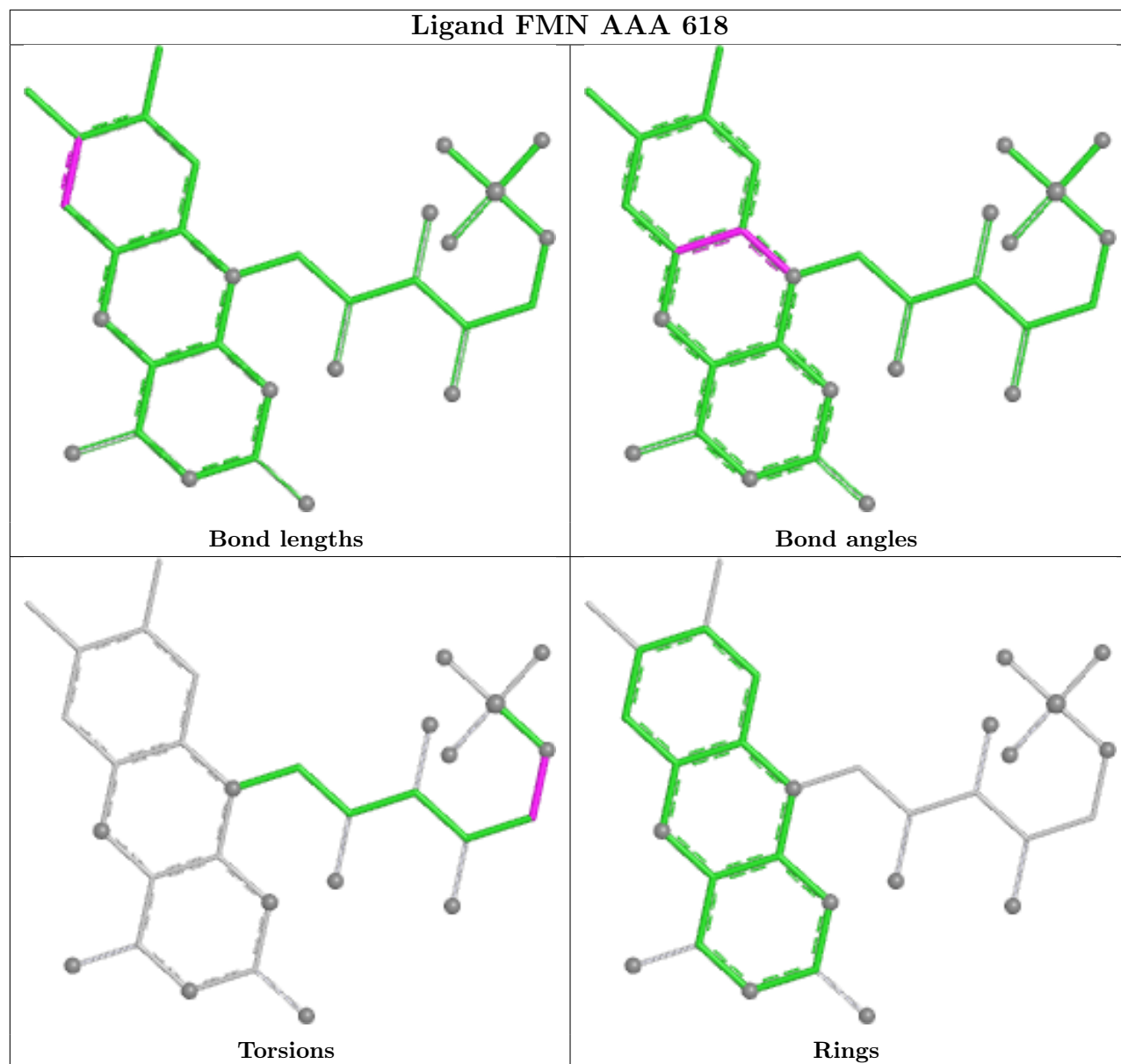
Mol	Chain	Res	Type	Atoms
4	AAA	604[A]	GOL	C1-C2-C3-O3
4	AAA	607[B]	GOL	C1-C2-C3-O3
4	AAA	609[A]	GOL	O1-C1-C2-O2
4	AAA	609[A]	GOL	O1-C1-C2-C3
4	AAA	609[A]	GOL	C1-C2-C3-O3

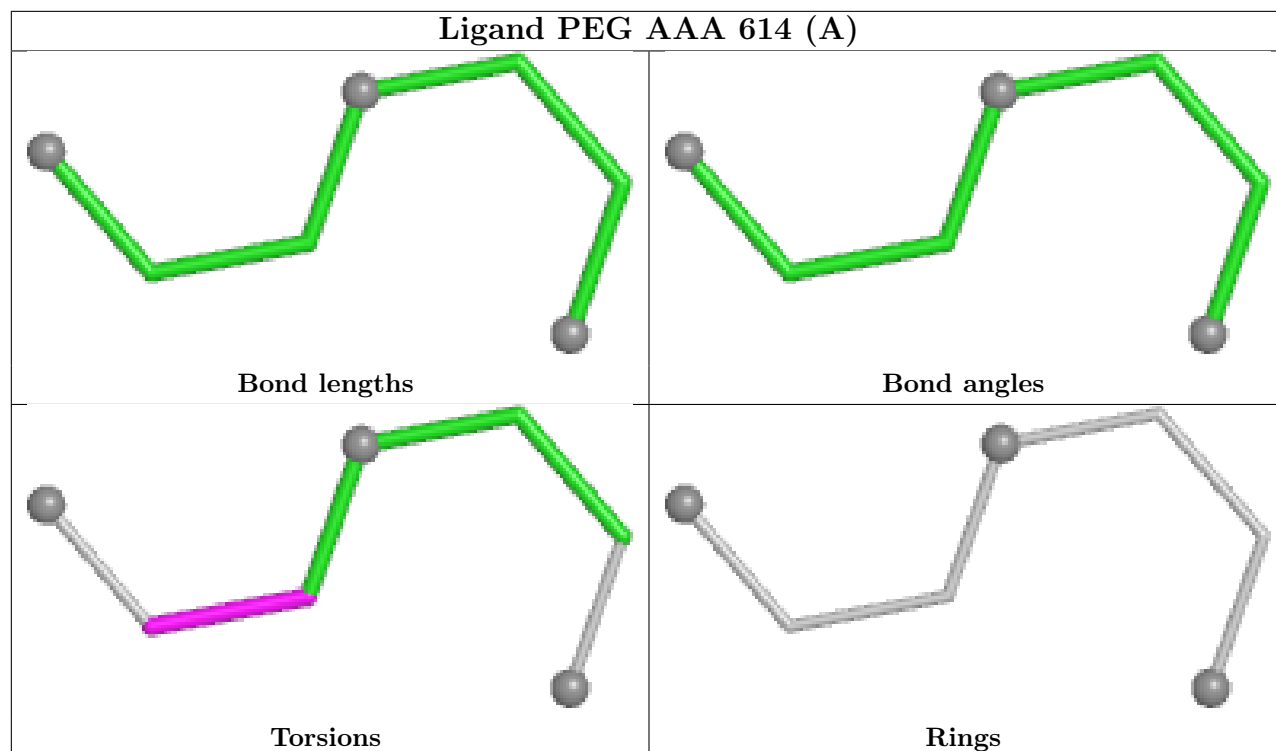
There are no ring outliers.

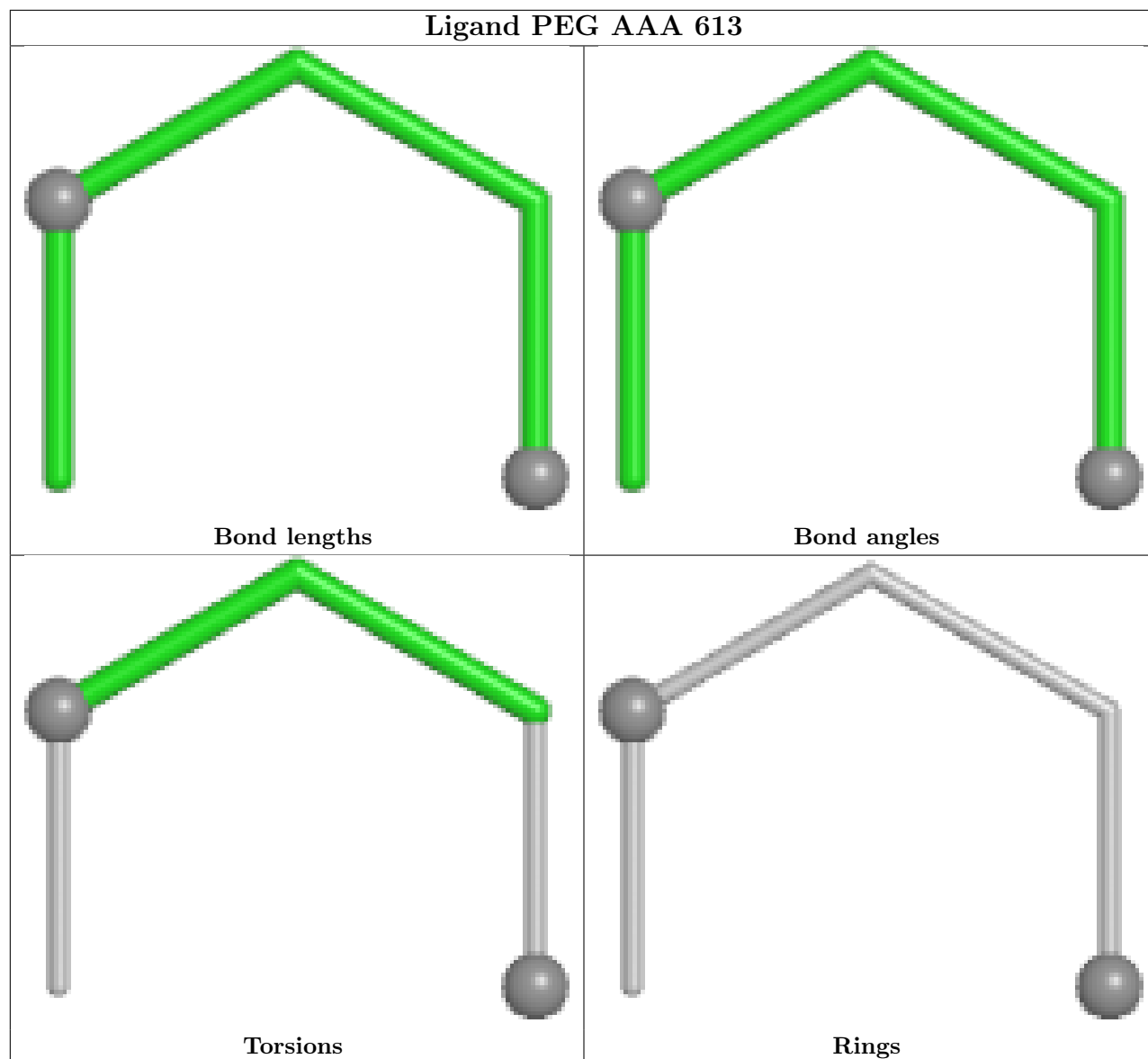
6 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	AAA	609[A]	GOL	4	0
4	AAA	611[A]	GOL	1	0
6	AAA	615	EDO	2	0
4	AAA	608[B]	GOL	2	0
4	AAA	610	GOL	1	0
5	AAA	613	PEG	3	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	AAA	146/146 (100%)	-0.28	1 (0%) 84   88	3, 8, 13, 19	46 (31%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AAA	401	GLY	2.2

### 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(Å <sup>2</sup> )	Q<0.9
5	PEG	AAA	614[A]	7/7	0.71	0.18	20,26,31,32	7
4	GOL	AAA	609[A]	6/6	0.75	0.17	23,29,35,44	6
6	EDO	AAA	616	4/4	0.75	0.14	44,47,48,53	0
4	GOL	AAA	610	6/6	0.80	0.15	23,33,39,41	6
4	GOL	AAA	611[A]	6/6	0.80	0.17	30,30,32,35	6
5	PEG	AAA	613	5/7	0.82	0.15	15,34,37,42	0

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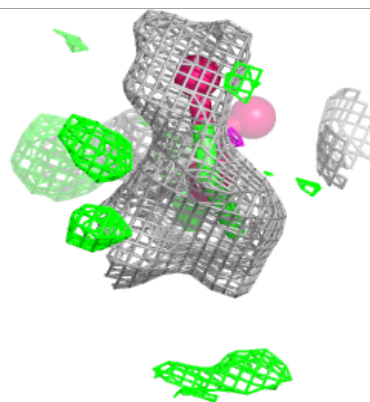
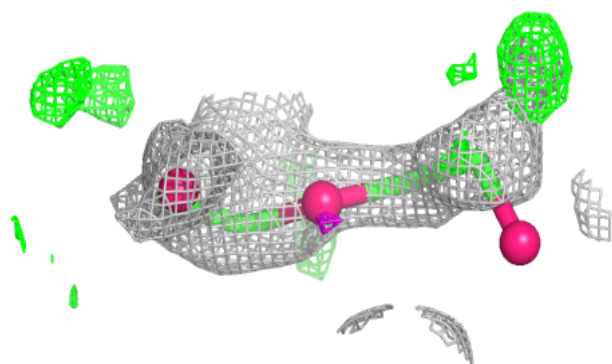
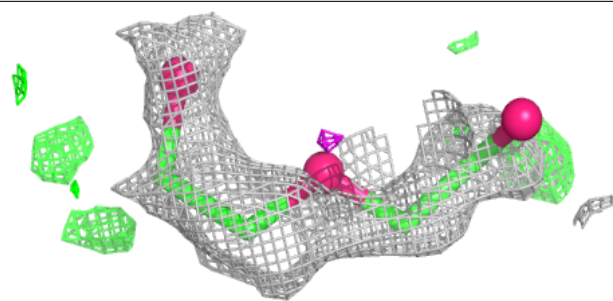
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
4	GOL	AAA	608[A]	6/6	0.85	0.12	23,27,32,42	6
4	GOL	AAA	612	6/6	0.85	0.13	34,44,47,47	0
4	GOL	AAA	608[B]	6/6	0.85	0.12	19,22,24,25	6
4	GOL	AAA	607[A]	6/6	0.85	0.15	19,25,27,37	6
4	GOL	AAA	607[B]	6/6	0.85	0.15	13,15,16,17	6
6	EDO	AAA	615	4/4	0.87	0.10	27,32,33,43	0
4	GOL	AAA	604[A]	6/6	0.89	0.10	24,25,28,29	6
2	CA	AAA	601[B]	1/1	0.91	0.11	44,44,44,44	1
2	CA	AAA	601[A]	1/1	0.91	0.11	36,36,36,36	1
7	ACT	AAA	617[A]	4/4	0.92	0.11	18,22,23,33	4
4	GOL	AAA	603[A]	6/6	0.95	0.09	10,17,19,20	6
4	GOL	AAA	603[B]	6/6	0.95	0.09	7,10,11,14	6
4	GOL	AAA	606[A]	6/6	0.96	0.08	10,13,15,22	6
4	GOL	AAA	606[B]	6/6	0.96	0.08	9,9,9,10	6
4	GOL	AAA	605	6/6	0.96	0.06	12,13,15,19	6
3	CL	AAA	602[B]	1/1	0.99	0.07	35,35,35,35	1
3	CL	AAA	602[A]	1/1	0.99	0.07	18,18,18,18	1
8	FMN	AAA	618	31/31	0.99	0.03	6,7,12,14	0

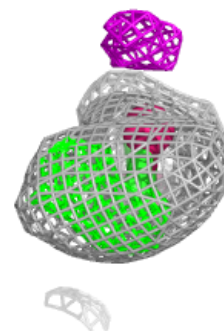
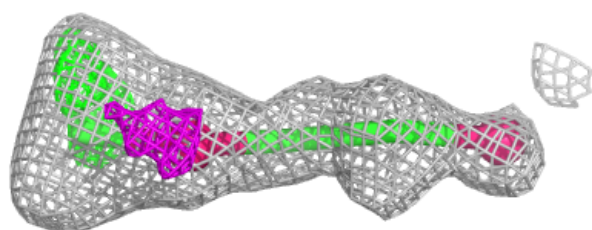
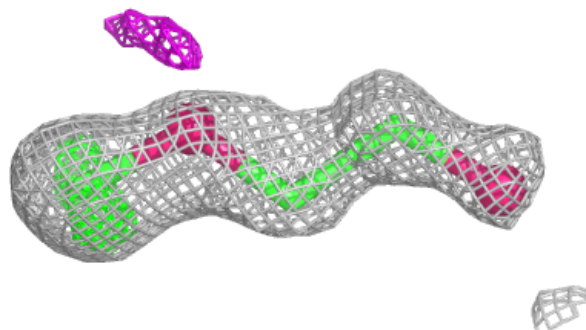
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

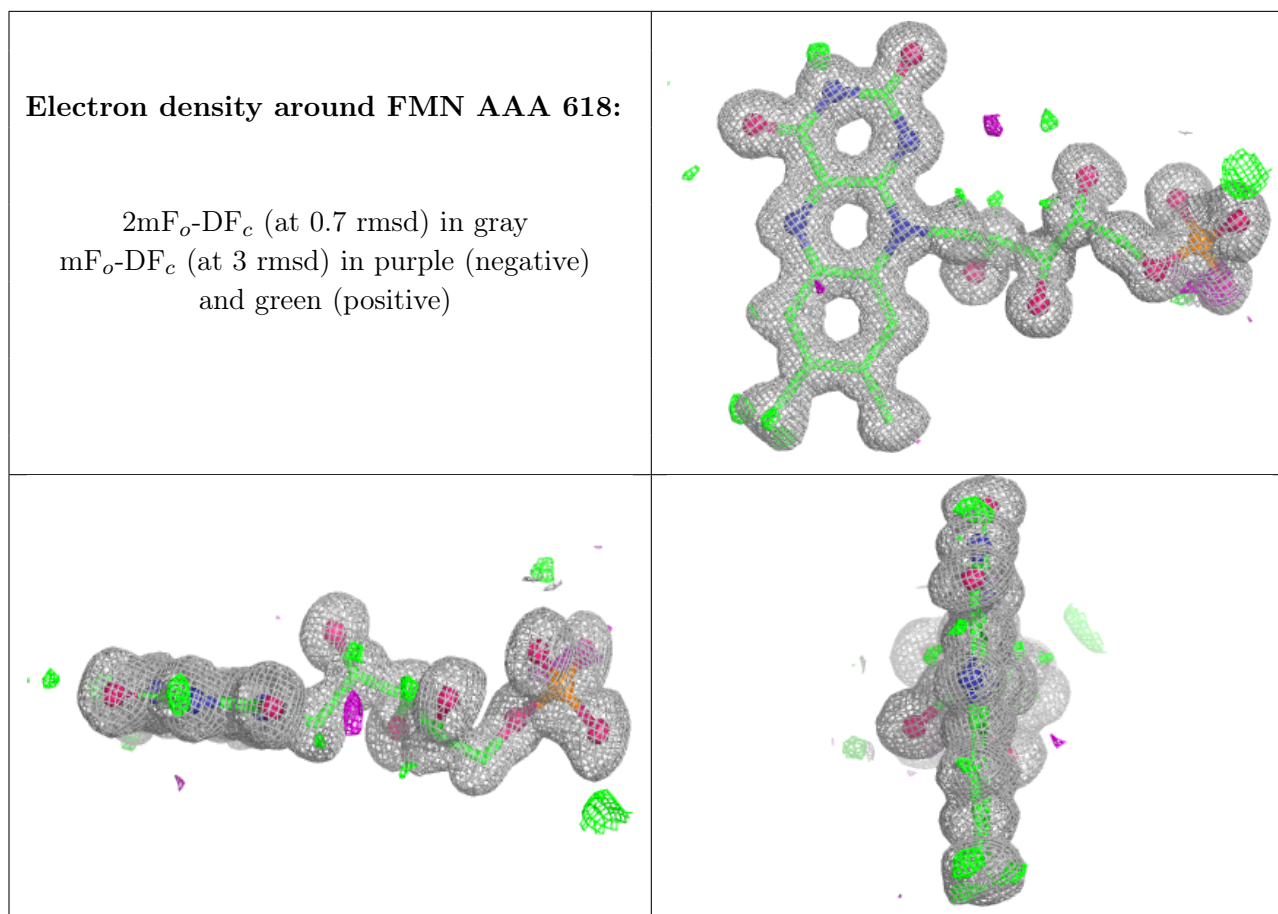
**Electron density around PEG AAA 614 (A):**

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

**Electron density around PEG AAA 613:**

$2mF_o-DF_c$  (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.