



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 13, 2026 – 12:09 PM JST

PDB ID : 9LMH / pdb_00009lmh
Title : Crystal structure of LooH in complex with FAD
Authors : Zhang, F.; Li, Y.C.; Zhu, Y.; Wang, K.; Chang, C.Y.; Xu, Z.
Deposited on : 2025-01-19
Resolution : 2.44 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 1.8.5 (274361), 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) : 2.47

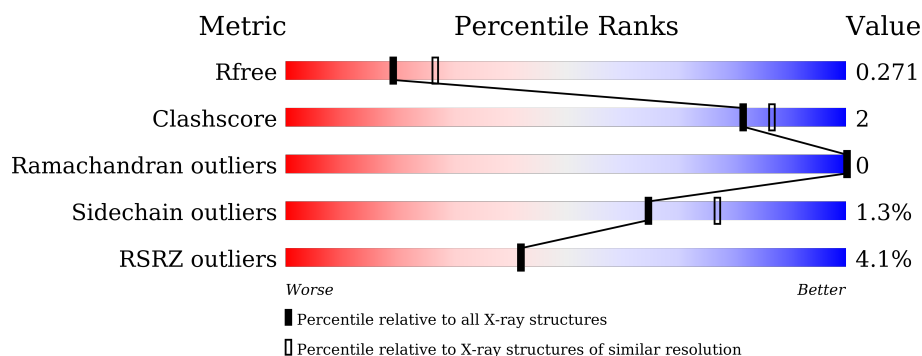
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.44 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	2124 (2.46-2.42)
Clashscore	180529	2259 (2.46-2.42)
Ramachandran outliers	177936	2244 (2.46-2.42)
Sidechain outliers	177891	2244 (2.46-2.42)
RSRZ outliers	164620	2124 (2.46-2.42)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	550	<div> <div>2%</div> <div> <div></div> <div>90%</div> <div>6%</div> <div>.</div> </div> </div>
1	B	550	<div> <div>6%</div> <div> <div></div> <div>89%</div> <div>7%</div> <div>.</div> </div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 8684 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 LooH.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	527	Total	C	N	O	S	0	0	0
			4214	2675	734	784	21			
1	B	527	Total	C	N	O	S	0	0	0
			4214	2675	734	784	21			

There are 40 discrepancies between the modelled and reference sequences:

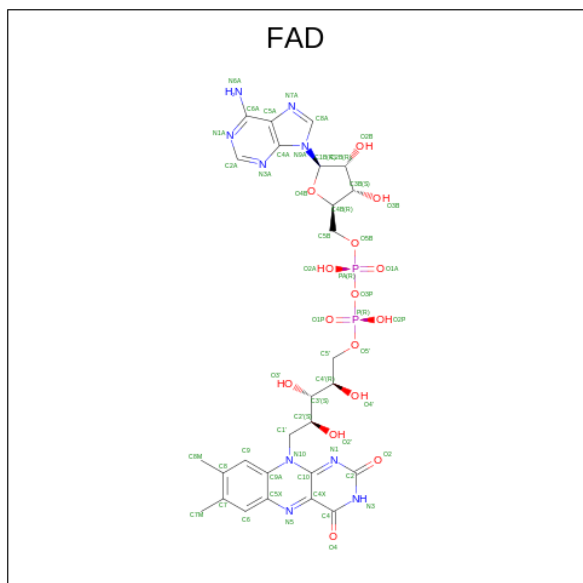
Chain	Residue	Modelled	Actual	Comment	Reference
A	-19	MET	-	initiating methionine	UNP A0A6M5K9A4
A	-18	GLY	-	expression tag	UNP A0A6M5K9A4
A	-17	SER	-	expression tag	UNP A0A6M5K9A4
A	-16	SER	-	expression tag	UNP A0A6M5K9A4
A	-15	HIS	-	expression tag	UNP A0A6M5K9A4
A	-14	HIS	-	expression tag	UNP A0A6M5K9A4
A	-13	HIS	-	expression tag	UNP A0A6M5K9A4
A	-12	HIS	-	expression tag	UNP A0A6M5K9A4
A	-11	HIS	-	expression tag	UNP A0A6M5K9A4
A	-10	HIS	-	expression tag	UNP A0A6M5K9A4
A	-9	SER	-	expression tag	UNP A0A6M5K9A4
A	-8	SER	-	expression tag	UNP A0A6M5K9A4
A	-7	GLY	-	expression tag	UNP A0A6M5K9A4
A	-6	LEU	-	expression tag	UNP A0A6M5K9A4
A	-5	VAL	-	expression tag	UNP A0A6M5K9A4
A	-4	PRO	-	expression tag	UNP A0A6M5K9A4
A	-3	ARG	-	expression tag	UNP A0A6M5K9A4
A	-2	GLY	-	expression tag	UNP A0A6M5K9A4
A	-1	SER	-	expression tag	UNP A0A6M5K9A4
A	0	HIS	-	expression tag	UNP A0A6M5K9A4
B	-19	MET	-	initiating methionine	UNP A0A6M5K9A4
B	-18	GLY	-	expression tag	UNP A0A6M5K9A4
B	-17	SER	-	expression tag	UNP A0A6M5K9A4
B	-16	SER	-	expression tag	UNP A0A6M5K9A4
B	-15	HIS	-	expression tag	UNP A0A6M5K9A4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-14	HIS	-	expression tag	UNP A0A6M5K9A4
B	-13	HIS	-	expression tag	UNP A0A6M5K9A4
B	-12	HIS	-	expression tag	UNP A0A6M5K9A4
B	-11	HIS	-	expression tag	UNP A0A6M5K9A4
B	-10	HIS	-	expression tag	UNP A0A6M5K9A4
B	-9	SER	-	expression tag	UNP A0A6M5K9A4
B	-8	SER	-	expression tag	UNP A0A6M5K9A4
B	-7	GLY	-	expression tag	UNP A0A6M5K9A4
B	-6	LEU	-	expression tag	UNP A0A6M5K9A4
B	-5	VAL	-	expression tag	UNP A0A6M5K9A4
B	-4	PRO	-	expression tag	UNP A0A6M5K9A4
B	-3	ARG	-	expression tag	UNP A0A6M5K9A4
B	-2	GLY	-	expression tag	UNP A0A6M5K9A4
B	-1	SER	-	expression tag	UNP A0A6M5K9A4
B	0	HIS	-	expression tag	UNP A0A6M5K9A4

- Molecule 2 is FLAVIN-ADENINE DINUCLEOTIDE (CCD ID: FAD) (formula: $C_{27}H_{33}N_9O_{15}P_2$) (labeled as "Ligand of Interest" by depositor).

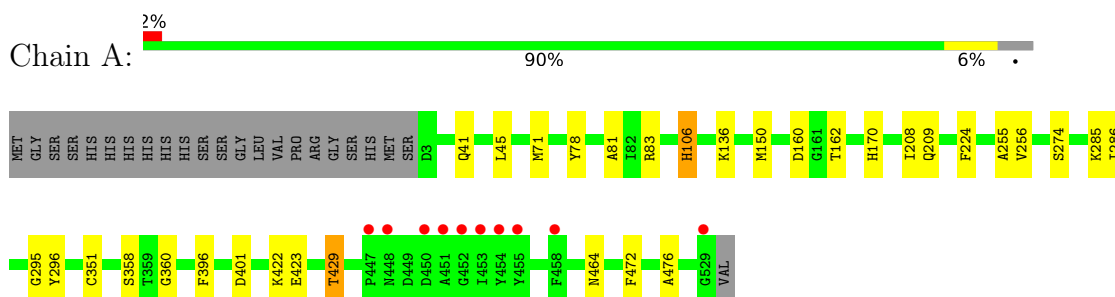


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	106	Total 106	O 106	0	0
3	B	44	Total 44	O 44	0	0

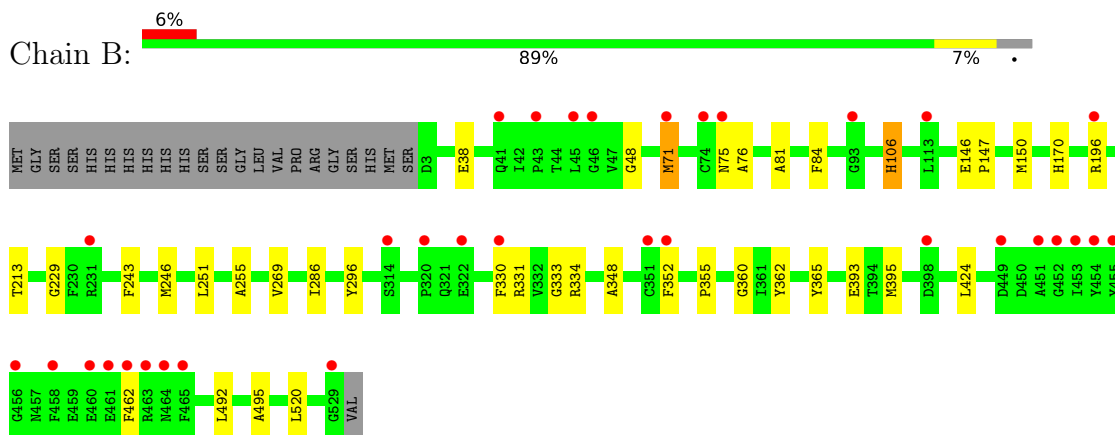
3 Residue-property plots

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: LooH



• Molecule 1: LooH



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	92.30Å 101.62Å 125.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.39 – 2.44 28.39 – 2.44	Depositor EDS
% Data completeness (in resolution range)	99.5 (28.39-2.44) 99.7 (28.39-2.44)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	17.27 (at 2.45Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.206 , 0.267 0.210 , 0.271	Depositor DCC
R_{free} test set	2245 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	33.4	Xtriage
Anisotropy	0.084	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 24.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	8684	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.07% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: FAD

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	0.97	0/4329	1.35	0/5872
1	B	0.98	0/4329	1.37	0/5872
All	All	0.98	0/8658	1.36	0/11744

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

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	4214	0	4020	15	0
1	B	4214	0	4020	25	0
2	A	53	0	31	2	0
2	B	53	0	31	6	0
3	A	106	0	0	1	0
3	B	44	0	0	0	0
All	All	8684	0	8102	40	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (40) 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:71:MET:HE1	1:A:78:TYR:CZ	2.35	0.61
1:A:160:ASP:OD1	1:A:162:THR:HG23	2.05	0.56
1:B:246:MET:HG3	1:B:333:GLY:HA2	1.89	0.55
1:A:351:CYS:HB2	1:A:396:PHE:CD1	2.44	0.53
1:A:255:ALA:HA	1:A:296:TYR:O	2.09	0.52
1:B:229:GLY:HA2	1:B:348:ALA:HB3	1.93	0.50
1:B:330:PHE:CE1	2:B:601:FAD:HM72	2.47	0.50
1:A:81:ALA:HB3	1:A:150:MET:SD	2.52	0.49
1:A:45:LEU:HD12	2:A:601:FAD:H5'1	1.95	0.49
1:B:84:PHE:O	1:B:106:HIS:HA	2.12	0.49
1:B:360:GLY:HA3	2:B:601:FAD:H1'2	1.95	0.49
1:B:251:LEU:HG	1:B:424:LEU:HD11	1.95	0.48
1:B:395:MET:HB2	1:B:462:PHE:CZ	2.51	0.46
1:A:83:ARG:HE	1:A:106:HIS:HD2	1.63	0.46
1:A:472:PHE:O	1:A:476:ALA:HB3	2.16	0.45
1:B:146:GLU:N	1:B:147:PRO:CD	2.80	0.45
1:B:255:ALA:HA	1:B:296:TYR:O	2.17	0.45
1:B:48:GLY:HA2	2:B:601:FAD:C4X	2.47	0.45
1:A:209:GLN:OE1	3:A:701:HOH:O	2.20	0.44
1:B:269:VAL:HG12	1:B:520:LEU:HD23	1.99	0.44
1:B:492:LEU:HB3	1:B:495:ALA:HB3	1.99	0.44
1:B:243:PHE:CE2	1:B:331:ARG:HG2	2.52	0.44
1:B:362:TYR:HA	1:B:365:TYR:CE2	2.53	0.43
1:B:170:HIS:CD2	1:B:286:ILE:HG23	2.54	0.43
1:A:208:ILE:HG22	1:A:224:PHE:CZ	2.54	0.43
1:B:352:PHE:CE2	2:B:601:FAD:C9	3.03	0.42
1:A:401:ASP:OD2	1:A:429:THR:HG22	2.18	0.42
1:B:71:MET:HB2	1:B:76:ALA:HB3	2.01	0.42
1:B:330:PHE:CZ	2:B:601:FAD:HM72	2.55	0.42
1:B:81:ALA:HB3	1:B:150:MET:SD	2.60	0.42
1:B:355:PRO:HB3	2:B:601:FAD:N5	2.33	0.41
1:B:334:ARG:CZ	1:B:393:GLU:HG2	2.50	0.41
1:A:274:SER:HB2	1:A:285:LYS:HB3	2.02	0.41
1:B:196:ARG:O	1:B:213:THR:HA	2.20	0.41
1:A:256:VAL:O	1:A:295:GLY:HA2	2.20	0.41
1:A:170:HIS:CG	1:A:286:ILE:HG23	2.56	0.41
1:B:75:ASN:CG	1:B:75:ASN:O	2.63	0.41
1:B:362:TYR:HA	1:B:365:TYR:CZ	2.56	0.40
1:A:360:GLY:HA3	2:A:601:FAD:H1'2	2.03	0.40
1:B:251:LEU:HD21	1:B:424:LEU:HD21	2.04	0.40

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	525/550 (96%)	505 (96%)	20 (4%)	0	100	100
1	B	525/550 (96%)	504 (96%)	21 (4%)	0	100	100
All	All	1050/1100 (96%)	1009 (96%)	41 (4%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	439/459 (96%)	431 (98%)	8 (2%)	54	67
1	B	439/459 (96%)	436 (99%)	3 (1%)	81	89
All	All	878/918 (96%)	867 (99%)	11 (1%)	65	77

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	GLN
1	A	106	HIS
1	A	136	LYS
1	A	358	SER
1	A	422	LYS

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Mol	Chain	Res	Type
1	A	423	GLU
1	A	429	THR
1	A	464	ASN
1	B	38	GLU
1	B	71	MET
1	B	106	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	GLN
1	A	94	GLN
1	A	249	HIS
1	A	259	GLN
1	A	321	GLN
1	A	370	GLN
1	A	448	ASN
1	A	508	GLN
1	B	166	ASN
1	B	191	HIS
1	B	305	GLN
1	B	370	GLN
1	B	448	ASN
1	B	494	GLN
1	B	508	GLN
1	B	526	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

2 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
2	FAD	B	601	-	53,58,58	0.61	0	68,89,89	0.78	2 (2%)
2	FAD	A	601	-	53,58,58	0.58	0	68,89,89	0.85	3 (4%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	FAD	B	601	-	-	11/30/50/50	0/6/6/6
2	FAD	A	601	-	-	9/30/50/50	0/6/6/6

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	FAD	O5'-P-O1P	-2.47	99.41	109.07
2	A	601	FAD	C5A-C6A-N6A	2.22	123.72	120.35
2	B	601	FAD	C5A-C6A-N6A	2.18	123.67	120.35
2	B	601	FAD	C1'-C2'-C3'	2.17	115.86	109.79
2	A	601	FAD	O2P-P-O1P	2.12	122.74	112.24

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	FAD	P-O3P-PA-O5B
2	A	601	FAD	C2'-C3'-C4'-O4'
2	A	601	FAD	O3'-C3'-C4'-O4'

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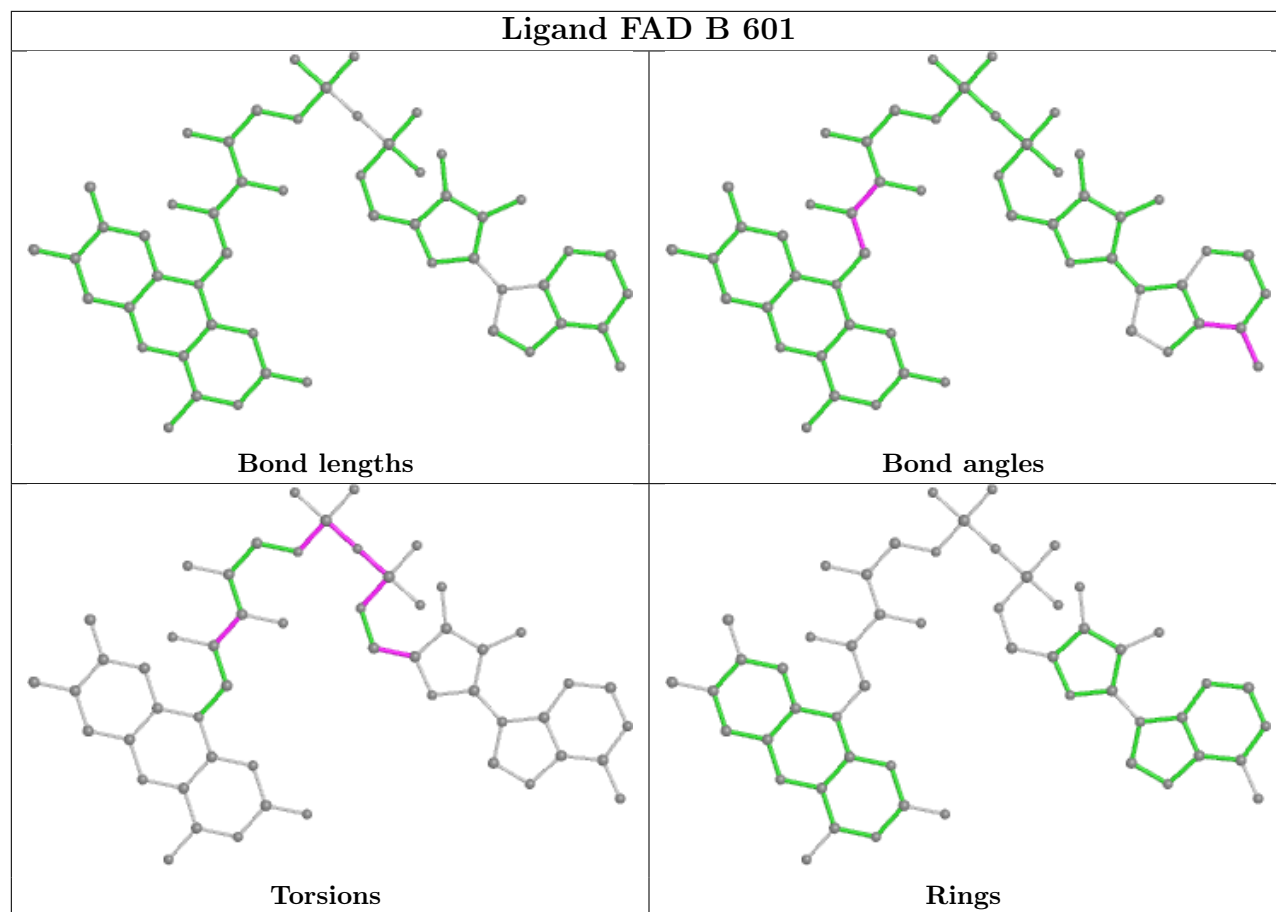
Mol	Chain	Res	Type	Atoms
2	A	601	FAD	C3'-C4'-C5'-O5'
2	A	601	FAD	O4'-C4'-C5'-O5'
2	B	601	FAD	C5B-O5B-PA-O1A
2	B	601	FAD	C5B-O5B-PA-O2A
2	B	601	FAD	C5'-O5'-P-O2P
2	B	601	FAD	C5'-O5'-P-O3P
2	B	601	FAD	O4B-C4B-C5B-O5B
2	B	601	FAD	C3B-C4B-C5B-O5B
2	A	601	FAD	O3'-C3'-C4'-C5'
2	A	601	FAD	C2'-C3'-C4'-C5'
2	B	601	FAD	P-O3P-PA-O5B
2	A	601	FAD	C5'-O5'-P-O3P
2	B	601	FAD	PA-O3P-P-O1P
2	B	601	FAD	C5B-O5B-PA-O3P
2	B	601	FAD	PA-O3P-P-O2P
2	A	601	FAD	O4B-C4B-C5B-O5B
2	B	601	FAD	C1'-C2'-C3'-O3'

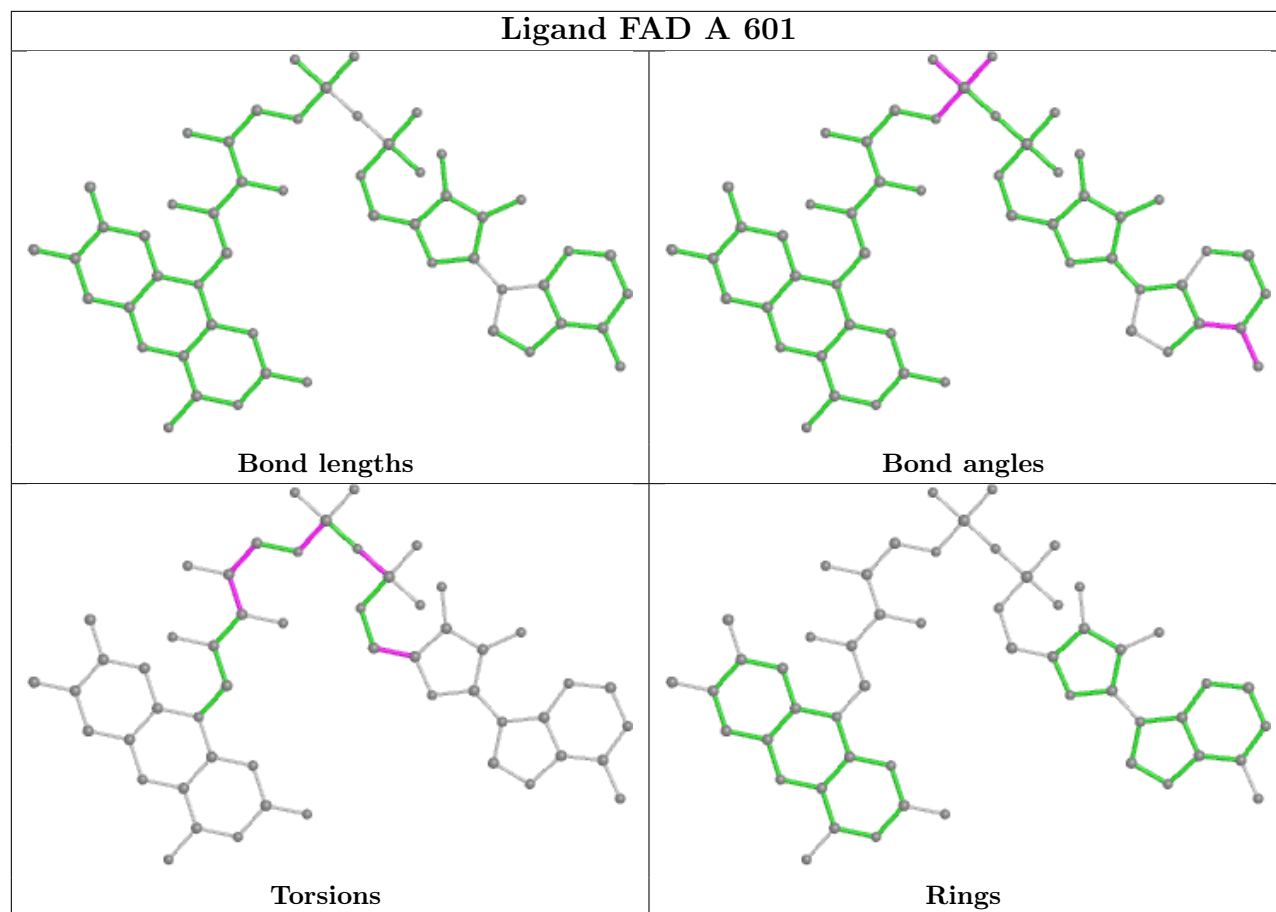
There are no ring outliers.

2 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	601	FAD	6	0
2	A	601	FAD	2	0

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	527/550 (95%)	-0.21	10 (1%) 66 67	18, 29, 51, 140	0
1	B	527/550 (95%)	0.29	33 (6%) 27 27	22, 39, 69, 135	0
All	All	1054/1100 (95%)	0.04	43 (4%) 42 42	18, 33, 65, 140	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	453	ILE	8.7
1	A	454	TYR	7.4
1	A	451	ALA	5.6
1	B	453	ILE	5.5
1	B	454	TYR	5.1
1	B	455	TYR	5.1
1	A	455	TYR	5.1
1	B	452	GLY	4.3
1	B	456	GLY	4.1
1	B	464	ASN	3.9
1	B	451	ALA	3.8
1	B	41	GLN	3.4
1	B	463	ARG	3.4
1	B	461	GLU	3.0
1	B	71	MET	3.0
1	B	330	PHE	2.9
1	B	75	ASN	2.8
1	B	322	GLU	2.8
1	A	450	ASP	2.7
1	B	458	PHE	2.7
1	B	449	ASP	2.7
1	B	462	PHE	2.7
1	B	43	PRO	2.6
1	A	452	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	231	ARG	2.5
1	A	448	ASN	2.4
1	B	113	LEU	2.4
1	B	351	CYS	2.3
1	B	46	GLY	2.3
1	A	458	PHE	2.2
1	A	447	PRO	2.2
1	B	460	GLU	2.2
1	A	529	GLY	2.2
1	B	529	GLY	2.2
1	B	465	PHE	2.2
1	B	352	PHE	2.1
1	B	398	ASP	2.1
1	B	320	PRO	2.1
1	B	45	LEU	2.1
1	B	196	ARG	2.1
1	B	74	CYS	2.1
1	B	93	GLY	2.0
1	B	314	SER	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

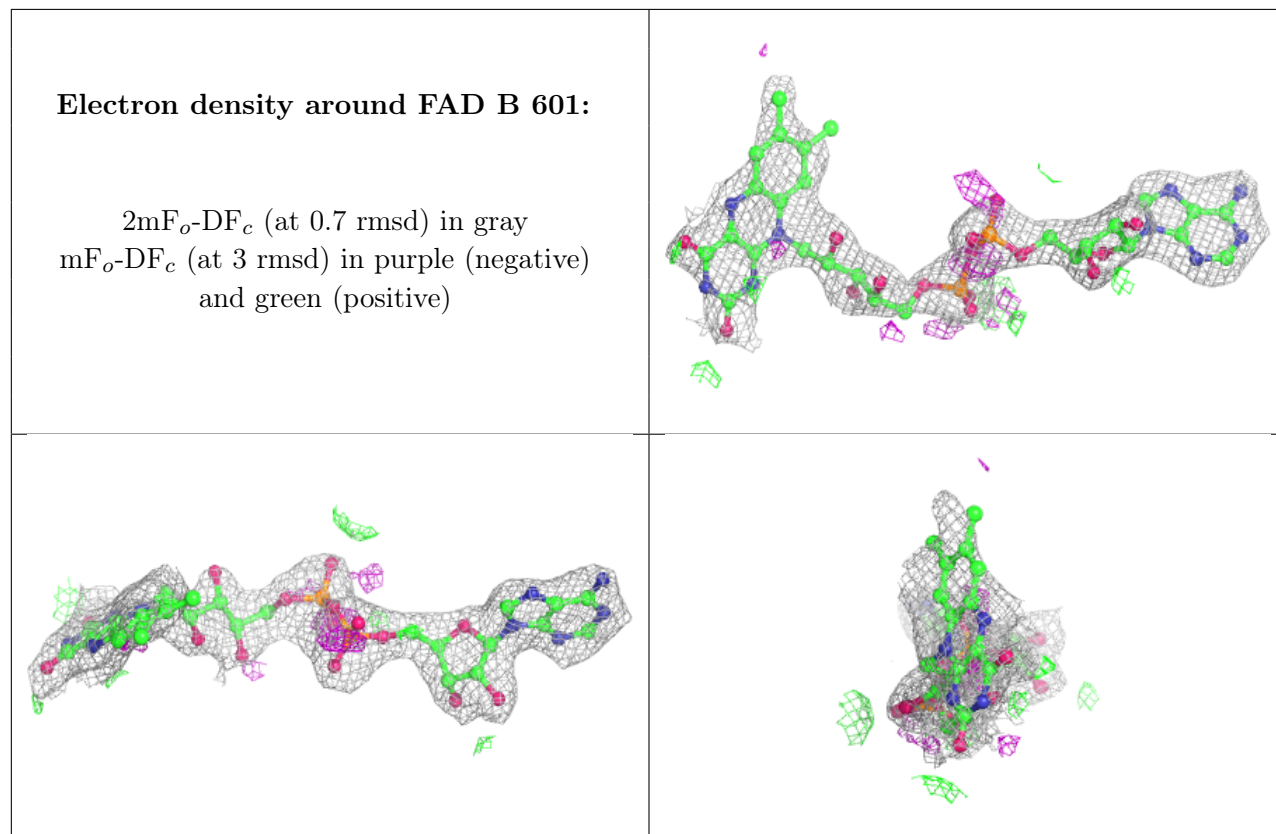
6.4 Ligands [i](#)

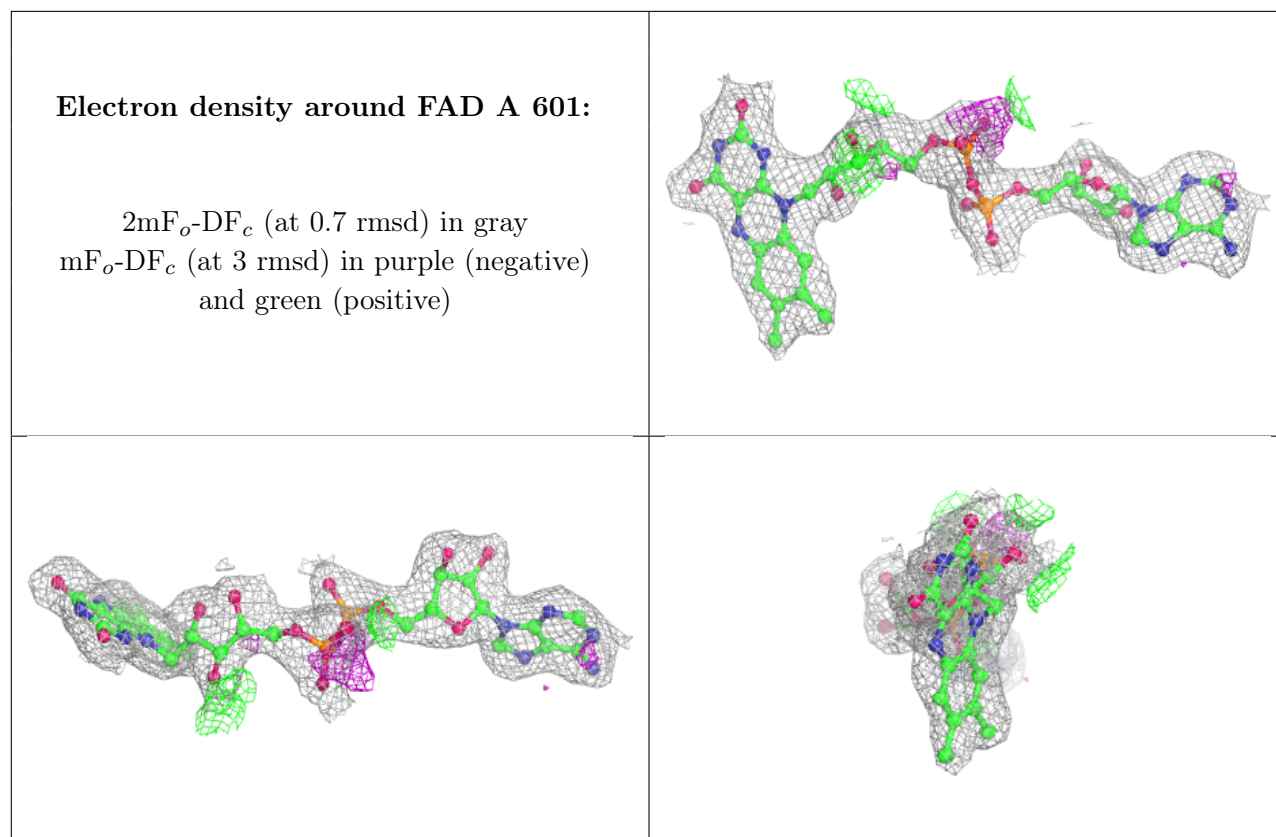
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	FAD	B	601	53/53	0.84	0.12	41,58,70,70	0
2	FAD	A	601	53/53	0.94	0.08	23,27,31,35	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.





6.5 Other polymers [i](#)

There are no such residues in this entry.