



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 21, 2023 – 04:35 PM JST

PDB ID : 7VQU
Title : Crystal structure of LSD1 in complex with compound S1427
Authors : Niwa, H.; Koda, Y.; Sato, S.; Yamamoto, H.; Koyama, H.; Umehara, T.
Deposited on : 2021-10-20
Resolution : 2.94 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

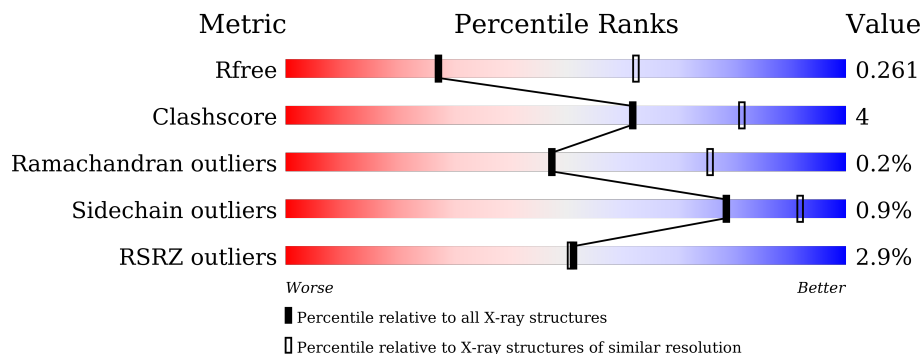
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.94 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}	130704	2969 (2.98-2.90)
Clashscore	141614	3218 (2.98-2.90)
Ramachandran outliers	138981	3122 (2.98-2.90)
Sidechain outliers	138945	3124 (2.98-2.90)
RSRZ outliers	127900	2902 (2.98-2.90)

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	669	

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
3	TLA	A	905	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 5170 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.

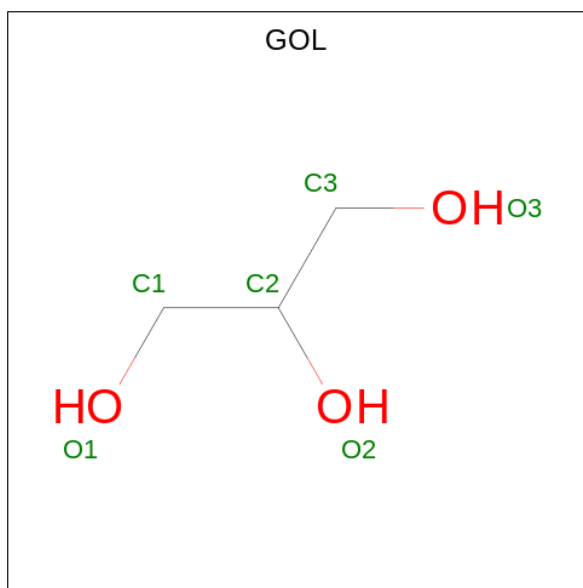
- Molecule 1 is a protein called Lysine-specific histone demethylase 1A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	645	5062	3224	880	939	19	0	0	0

There are 7 discrepancies between the modelled and reference sequences:

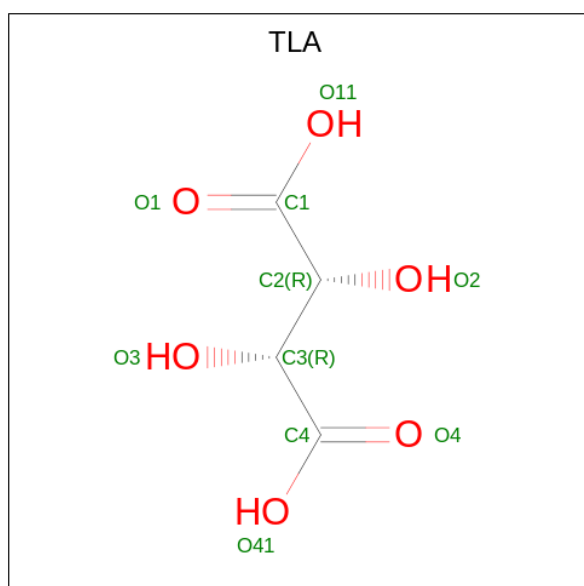
Chain	Residue	Modelled	Actual	Comment	Reference
A	165	GLY	-	expression tag	UNP O60341
A	166	PRO	-	expression tag	UNP O60341
A	167	LEU	-	expression tag	UNP O60341
A	168	GLY	-	expression tag	UNP O60341
A	169	SER	-	expression tag	UNP O60341
A	170	HIS	-	expression tag	UNP O60341
A	171	MET	-	expression tag	UNP O60341

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



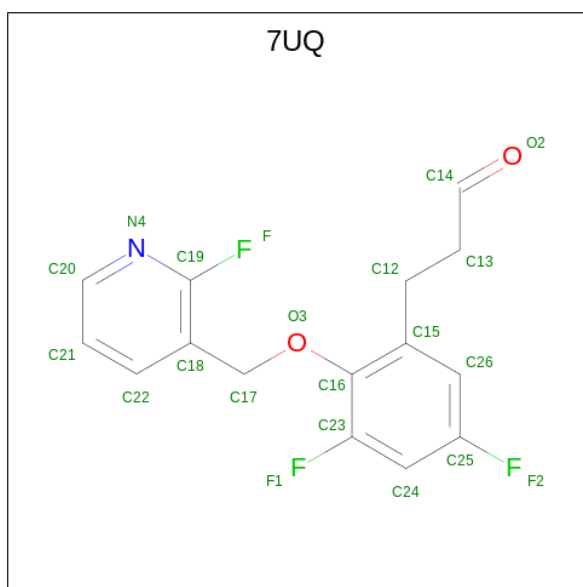
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is L(+)-TARTARIC ACID (three-letter code: TLA) (formula: C₄H₆O₆).



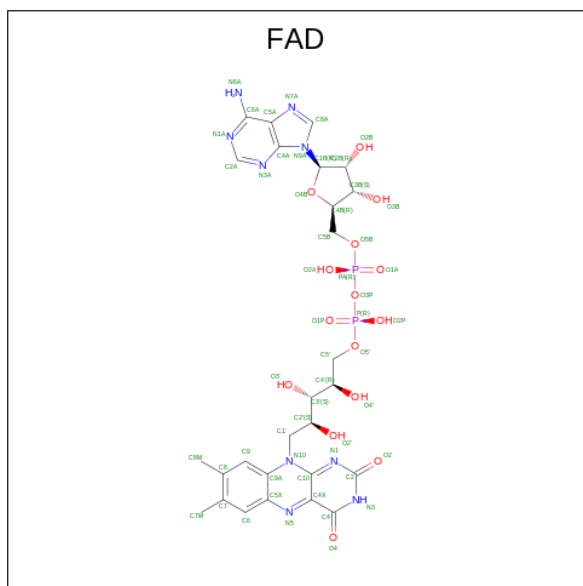
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			10	4	6		

- Molecule 4 is 3-[3,5-bis(fluoranyl)-2-[(2-fluoranylpyridin-3-yl)methoxy]phenyl]propanal (three-letter code: 7UQ) (formula: C₁₅H₁₂F₃NO₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	F	N	O		
4	A	1	21	15	3	1	2	0	0

- Molecule 5 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula: $C_{27}H_{33}N_9O_{15}P_2$) (labeled as "Ligand of Interest" by depositor).

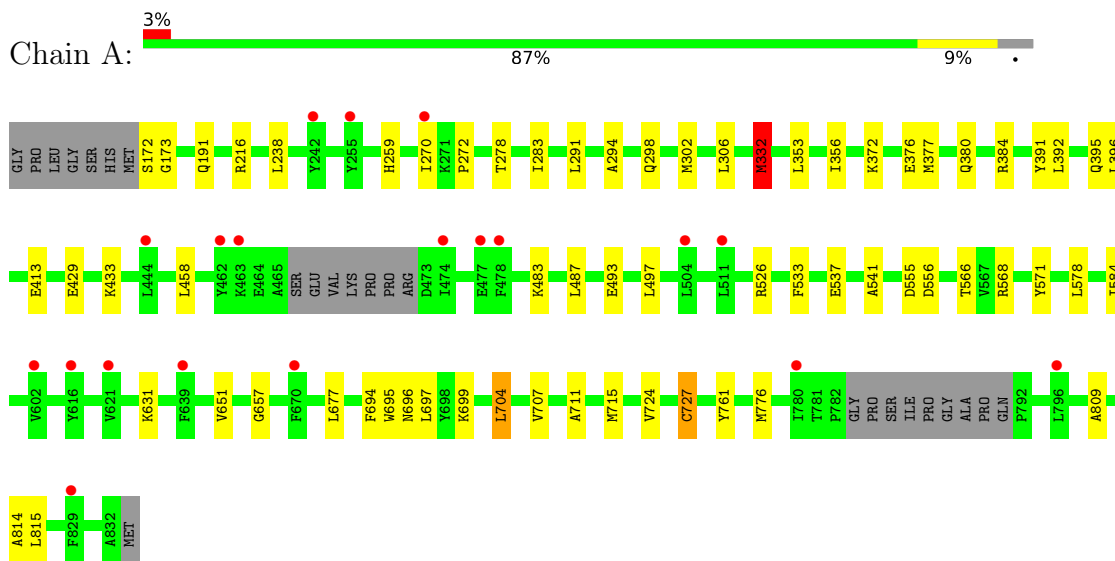


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
5	A	1	53	27	9	15	2	0	0

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Lysine-specific histone demethylase 1A



4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α , β , γ	188.25Å 188.25Å 107.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	48.45 – 2.94 48.45 – 2.94	Depositor EDS
% Data completeness (in resolution range)	99.9 (48.45-2.94) 100.0 (48.45-2.94)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.11	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.16 (at 2.96Å)	Xtrriage
Refinement program	PHENIX 1.18.2_3874+SVN	Depositor
R, R_{free}	0.219 , 0.258 0.224 , 0.261	Depositor DCC
R_{free} test set	1268 reflections (5.22%)	wwPDB-VP
Wilson B-factor (Å ²)	91.1	Xtrriage
Anisotropy	0.508	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 73.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5170	wwPDB-VP
Average B, all atoms (Å ²)	122.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.26% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, FAD, 7UQ, TLA

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	0.50	1/5167 (0.0%)	0.75	2/7002 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	727	CYS	CB-SG	-6.04	1.72	1.82

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	526	ARG	NE-CZ-NH1	-6.94	116.83	120.30
1	A	704	LEU	CB-CG-CD2	-5.09	102.34	111.00

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	5062	0	5091	44	0
2	A	24	0	32	3	0
3	A	10	0	4	0	0
4	A	21	0	0	2	0
5	A	53	0	31	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	5170	0	5158	45	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 4.

All (45) 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:332:MET:HE1	1:A:697:LEU:HD12	1.52	0.90
1:A:695:TRP:CE3	1:A:697:LEU:HD11	2.17	0.80
1:A:298:GLN:HE21	2:A:903:GOL:H11	1.50	0.77
1:A:391:TYR:CE1	1:A:395:GLN:HG2	2.30	0.66
1:A:814:ALA:HB2	5:A:907:FAD:H5'2	1.82	0.61
1:A:695:TRP:HE3	1:A:697:LEU:HD11	1.65	0.61
1:A:707:VAL:HG11	1:A:715:MET:HG3	1.82	0.61
1:A:566:THR:HG21	1:A:697:LEU:HD13	1.82	0.60
1:A:377:MET:O	1:A:380:GLN:HG2	2.04	0.57
1:A:493:GLU:O	1:A:497:LEU:HD13	2.06	0.56
1:A:429:GLU:HG3	1:A:433:LYS:HE3	1.87	0.56
1:A:413:GLU:HG3	2:A:901:GOL:H32	1.87	0.55
1:A:306:LEU:HD13	1:A:584:ILE:HG12	1.87	0.55
1:A:541:ALA:HB2	1:A:761:TYR:CZ	2.45	0.52
1:A:380:GLN:HG3	1:A:384:ARG:NH1	2.24	0.52
1:A:172:SER:OG	1:A:173:GLY:N	2.43	0.51
1:A:356:ILE:HD11	1:A:566:THR:HG23	1.93	0.51
1:A:380:GLN:HG3	1:A:384:ARG:HH12	1.74	0.51
1:A:695:TRP:HE3	1:A:697:LEU:HD21	1.77	0.50
1:A:372:LYS:HE2	1:A:376:GLU:OE2	2.11	0.50
1:A:776:MET:HE2	1:A:776:MET:HA	1.94	0.49
1:A:631:LYS:NZ	1:A:651:VAL:O	2.44	0.49
1:A:541:ALA:O	1:A:657:GLY:HA3	2.12	0.48
1:A:711:ALA:O	1:A:715:MET:HG2	2.14	0.48
1:A:677:LEU:HD21	1:A:695:TRP:CZ3	2.48	0.48
1:A:278:THR:O	1:A:302:MET:HG2	2.15	0.47
1:A:761:TYR:CD2	1:A:809:ALA:HB1	2.49	0.47
1:A:270:ILE:O	1:A:272:PRO:HD3	2.15	0.46
1:A:298:GLN:NE2	2:A:903:GOL:H11	2.25	0.46
1:A:216:ARG:HG2	1:A:238:LEU:HD23	1.98	0.45
1:A:392:LEU:HD23	1:A:396:LEU:HD12	1.98	0.45
1:A:761:TYR:OH	4:A:906:7UQ:C14	2.65	0.45
1:A:694:PHE:HA	1:A:704:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:LYS:HD3	1:A:483:LYS:HA	1.66	0.43
1:A:724:VAL:O	1:A:727:CYS:HB2	2.19	0.42
1:A:458:LEU:HD22	1:A:487:LEU:HB2	2.02	0.42
4:A:906:7UQ:C26	5:A:907:FAD:C4X	2.96	0.42
1:A:555:ASP:OD1	1:A:555:ASP:N	2.45	0.42
1:A:695:TRP:HB3	1:A:697:LEU:HG	2.01	0.42
1:A:191:GLN:HE21	1:A:259:HIS:CE1	2.38	0.42
1:A:568:ARG:HH11	1:A:699:LYS:HB2	1.85	0.41
1:A:283:ILE:HD12	1:A:294:ALA:HB2	2.03	0.41
1:A:353:LEU:HA	1:A:566:THR:O	2.20	0.41
1:A:533:PHE:O	1:A:537:GLU:HG3	2.21	0.40
1:A:291:LEU:HD13	1:A:578:LEU:HB2	2.03	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	639/669 (96%)	629 (98%)	9 (1%)	1 (0%)	47 76

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	332	MET

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	548/567 (97%)	543 (99%)	5 (1%)	78 92

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	332	MET
1	A	556	ASP
1	A	571	TYR
1	A	696	ASN
1	A	815	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	298	GLN

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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$
3	TLA	A	905	-	9,9,9	0.98	0	12,12,12	1.19	1 (8%)
2	GOL	A	901	-	5,5,5	0.88	0	5,5,5	1.19	0
4	7UQ	A	906	5	22,22,22	0.28	0	27,29,29	1.10	3 (11%)
2	GOL	A	903	-	5,5,5	1.01	0	5,5,5	0.84	0
2	GOL	A	902	-	5,5,5	0.98	0	5,5,5	0.91	0
5	FAD	A	907	4	53,58,58	0.97	3 (5%)	68,89,89	1.76	11 (16%)
2	GOL	A	904	-	5,5,5	1.09	0	5,5,5	1.07	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	TLA	A	905	-	-	9/12/12/12	-
2	GOL	A	901	-	-	2/4/4/4	-
4	7UQ	A	906	5	-	1/8/9/9	0/2/2/2
2	GOL	A	903	-	-	4/4/4/4	-
2	GOL	A	902	-	-	2/4/4/4	-
5	FAD	A	907	4	-	7/30/50/50	0/6/6/6
2	GOL	A	904	-	-	2/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	907	FAD	C4X-N5	3.49	1.37	1.30
5	A	907	FAD	P-O2P	-2.70	1.42	1.55
5	A	907	FAD	P-O1P	-2.50	1.42	1.50

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	907	FAD	C10-C4X-N5	-6.16	111.78	124.86
5	A	907	FAD	C4-C4X-N5	6.06	126.86	118.23
5	A	907	FAD	C9A-C5X-N5	-5.79	116.14	122.43
5	A	907	FAD	C4X-C10-N10	4.94	123.70	116.48
5	A	907	FAD	C10-N1-C2	2.95	122.79	116.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	906	7UQ	C12-C15-C26	2.93	125.31	119.41
4	A	906	7UQ	C17-C18-C19	2.80	124.14	120.77
5	A	907	FAD	C6-C5X-N5	2.79	123.39	118.51
5	A	907	FAD	C4X-C10-N1	-2.65	118.58	124.73
5	A	907	FAD	C9A-N10-C10	-2.54	116.81	120.77
4	A	906	7UQ	C12-C15-C16	-2.51	115.86	121.27
5	A	907	FAD	C4-C4X-C10	2.48	120.96	116.79
3	A	905	TLA	O41-C4-C3	2.17	119.14	113.27
5	A	907	FAD	C5A-C6A-N6A	2.12	123.58	120.35
5	A	907	FAD	P-O3P-PA	-2.12	125.54	132.83

There are no chirality outliers.

All (27) torsion outliers are listed below:

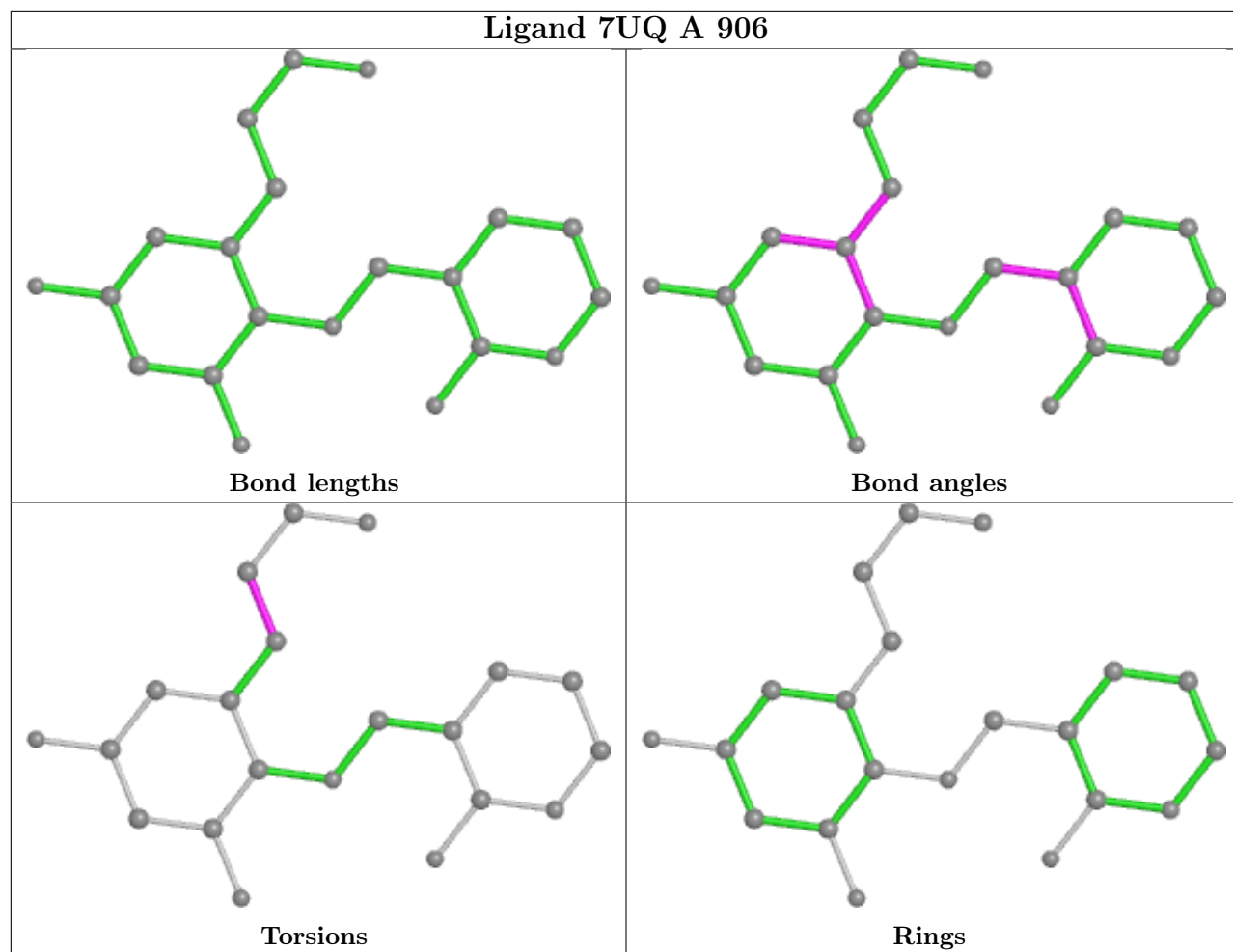
Mol	Chain	Res	Type	Atoms
2	A	901	GOL	O1-C1-C2-C3
2	A	903	GOL	O1-C1-C2-C3
2	A	903	GOL	C1-C2-C3-O3
5	A	907	FAD	O4'-C4'-C5'-O5'
5	A	907	FAD	C5'-O5'-P-O2P
2	A	902	GOL	O2-C2-C3-O3
2	A	903	GOL	O2-C2-C3-O3
3	A	905	TLA	C2-C3-C4-O4
3	A	905	TLA	C2-C3-C4-O41
2	A	902	GOL	C1-C2-C3-O3
2	A	904	GOL	O1-C1-C2-C3
2	A	903	GOL	O1-C1-C2-O2
3	A	905	TLA	O1-C1-C2-C3
3	A	905	TLA	O11-C1-C2-C3
2	A	901	GOL	O1-C1-C2-O2
2	A	904	GOL	O1-C1-C2-O2
3	A	905	TLA	O2-C2-C3-O3
4	A	906	7UQ	C15-C12-C13-C14
5	A	907	FAD	C5'-O5'-P-O3P
5	A	907	FAD	C5'-O5'-P-O1P
3	A	905	TLA	O3-C3-C4-O4
3	A	905	TLA	O2-C2-C3-C4
3	A	905	TLA	C1-C2-C3-O3
5	A	907	FAD	C2'-C1'-N10-C10
3	A	905	TLA	O3-C3-C4-O41
5	A	907	FAD	O4B-C4B-C5B-O5B
5	A	907	FAD	C3'-C4'-C5'-O5'

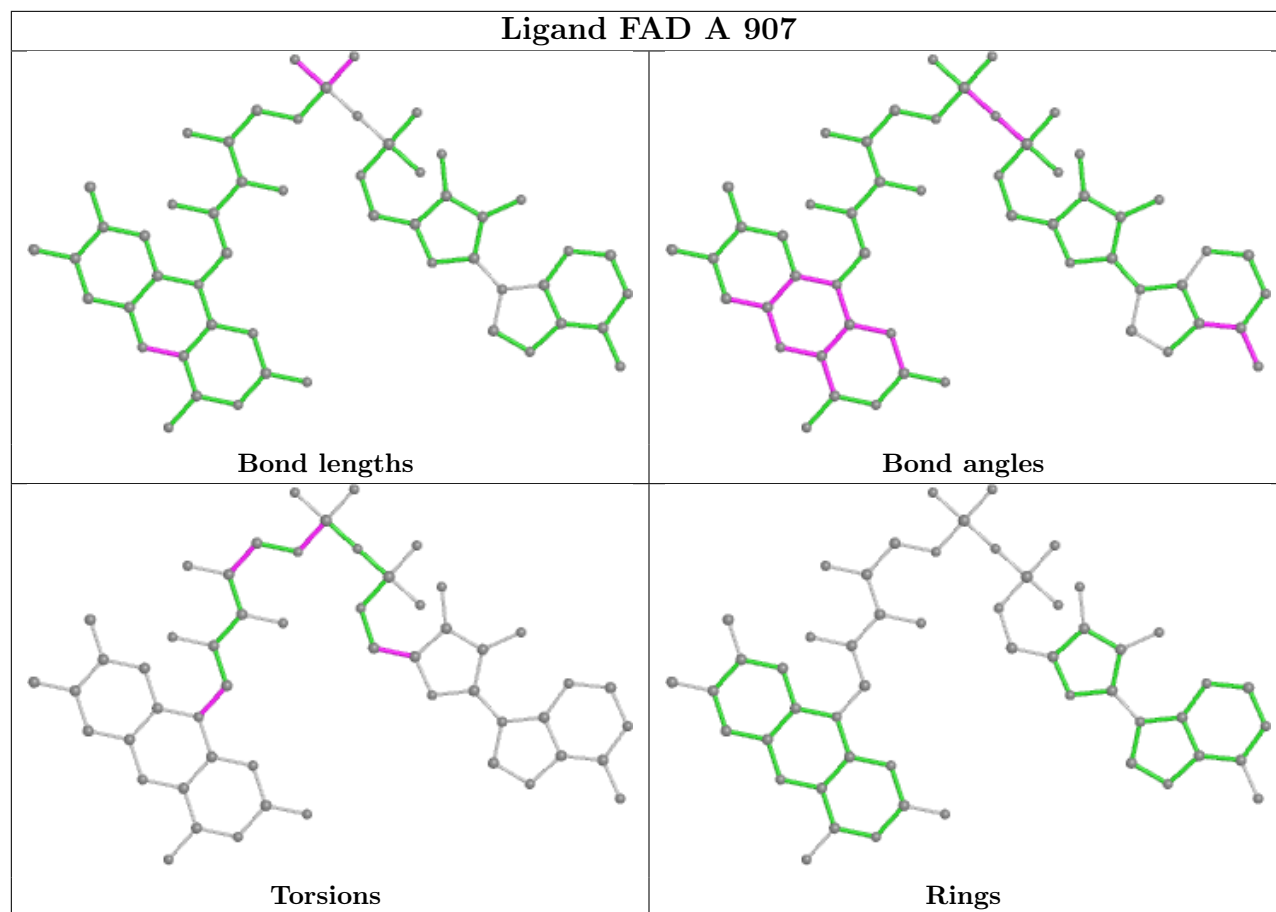
There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	901	GOL	1	0
4	A	906	7UQ	2	0
2	A	903	GOL	2	0
5	A	907	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 [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, 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	645/669 (96%)	0.22	19 (2%) 51 51	84, 118, 163, 223	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	780	ILE	4.7
1	A	478	PHE	3.9
1	A	477	GLU	3.8
1	A	796	LEU	2.9
1	A	511	LEU	2.9
1	A	242	TYR	2.9
1	A	602	VAL	2.8
1	A	504	LEU	2.7
1	A	444	LEU	2.6
1	A	462	TYR	2.5
1	A	474	ILE	2.4
1	A	621	VAL	2.4
1	A	270	ILE	2.3
1	A	670	PHE	2.3
1	A	639	PHE	2.2
1	A	829	PHE	2.2
1	A	616	TYR	2.2
1	A	255	TYR	2.0
1	A	463	LYS	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 monosaccharides in this entry.

6.4 Ligands [i](#)

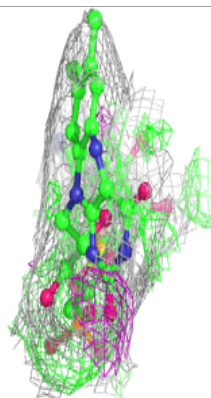
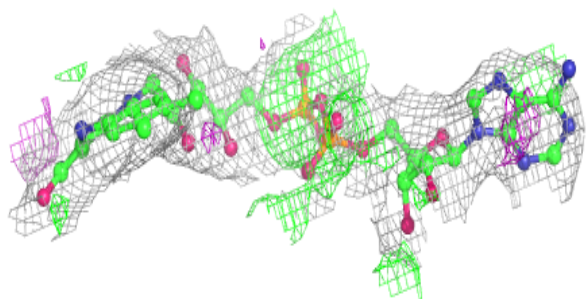
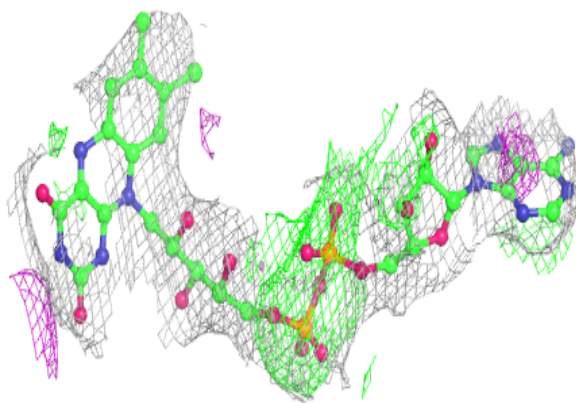
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	TLA	A	905	10/10	0.69	0.43	129,145,172,184	0
2	GOL	A	904	6/6	0.77	0.38	118,124,131,132	0
2	GOL	A	903	6/6	0.84	0.21	121,126,131,132	0
2	GOL	A	902	6/6	0.87	0.28	102,105,108,118	0
5	FAD	A	907	53/53	0.88	0.28	69,95,123,283	0
4	7UQ	A	906	21/21	0.93	0.26	76,89,101,107	0
2	GOL	A	901	6/6	0.97	0.23	87,93,101,103	0

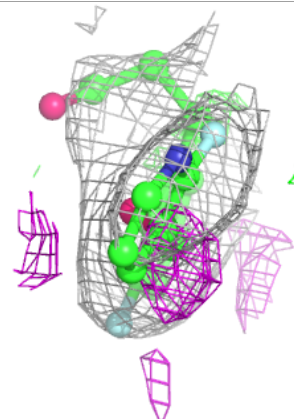
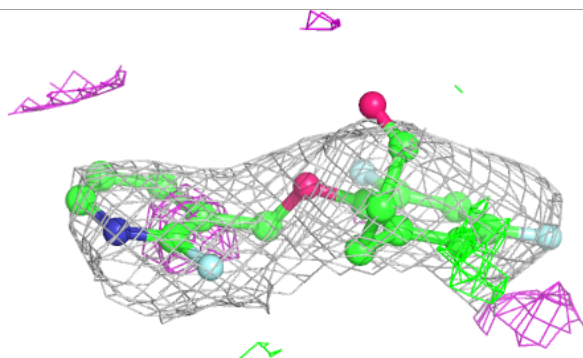
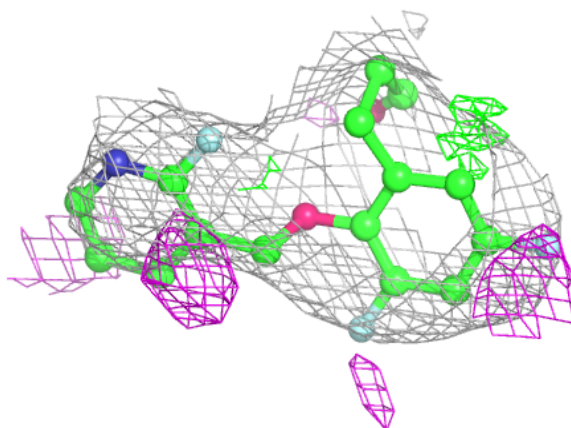
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around FAD A 907:

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

**Electron density around 7UQ A 906:**

$2mF_o-DF_c$ (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.