



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 05:23 PM EST

PDB ID : 5LHG
Title : Structure of the KDM1A/CoREST complex with the inhibitor 4-methyl-N-[4-
-[4-(1-methylpiperidin-4-yl)oxyphenoxy]methyl]phenyl]thieno[3,2-b]pyrrole-5
-carboxamide
Authors : Cecatiello, V.; Pasqualato, S.
Deposited on : 2016-07-11
Resolution : 3.34 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028442
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

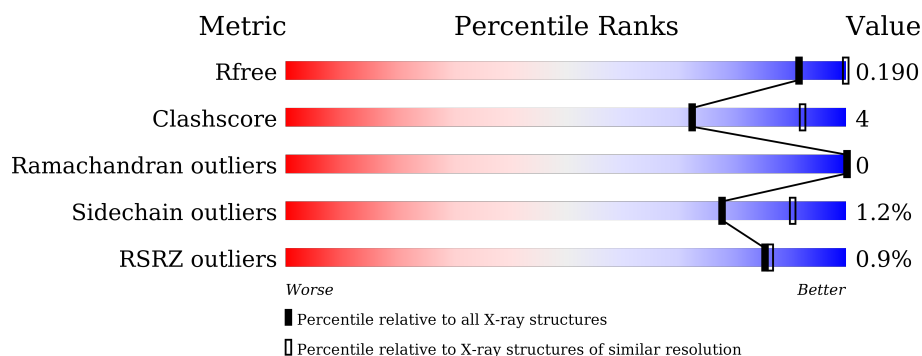
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.34 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}	91344	1004 (3.40-3.28)
Clashscore	102246	1072 (3.40-3.28)
Ramachandran outliers	100387	1055 (3.40-3.28)
Sidechain outliers	100360	1054 (3.40-3.28)
RSRZ outliers	91569	1009 (3.40-3.28)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	852	<div> <div></div> <div>69%</div> <div>9%</div> <div>22%</div> </div>
2	B	482	<div> <div>25%</div> <div>72%</div> </div>

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	A	902	-	-	-	X
4	GOL	A	903	-	-	-	X
4	GOL	A	904	-	-	-	X
5	6X3	A	906	-	-	-	X
5	6X3	A	907	-	-	-	X

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 6458 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.

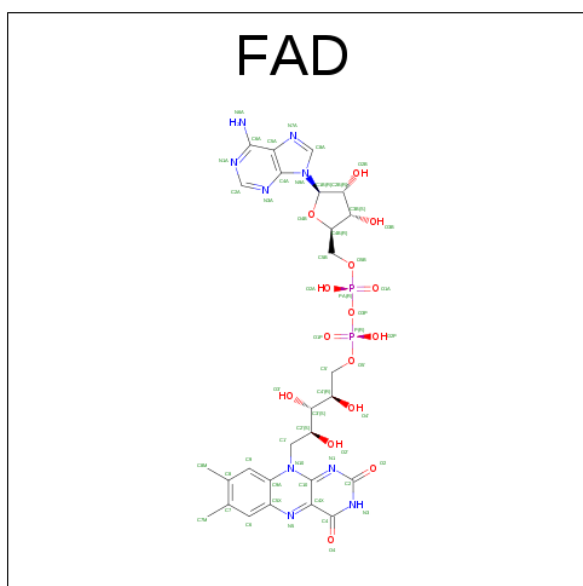
- Molecule 1 is a protein called Lysine-specific histone demethylase 1A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	666	Total	C	N	O	S	0	0	0
			5217	3324	906	967	20			

- Molecule 2 is a protein called REST corepressor 1.

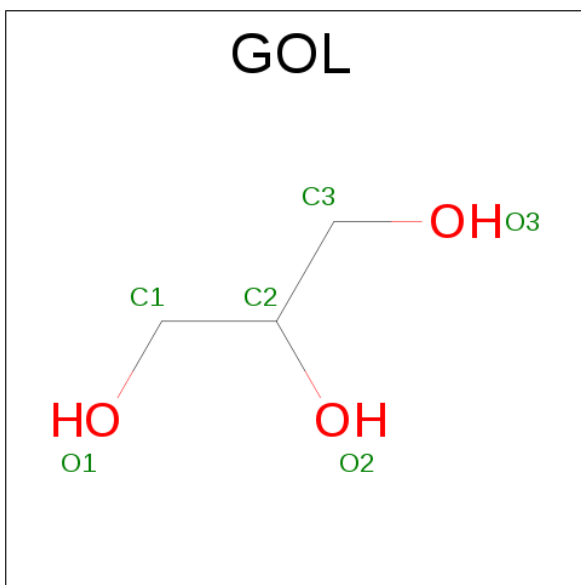
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	133	Total	C	N	O	S	0	0	0
			1076	676	194	203	3			

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



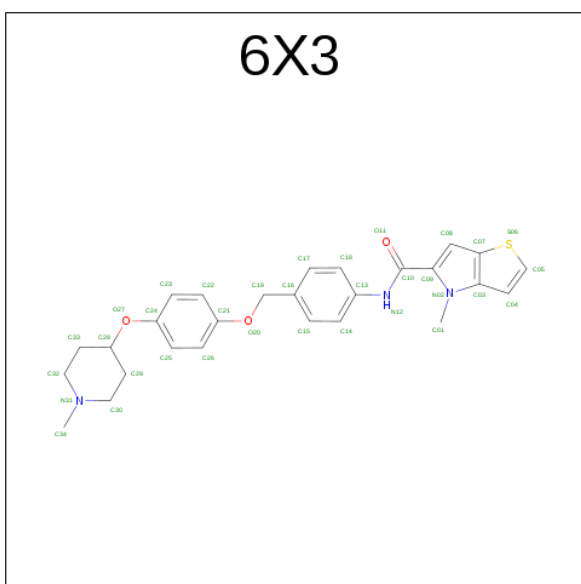
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			53	27	9	15	2		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 5 is 4-methyl-N-[4-[[4-[(1-methyl-4-piperidyl)oxy]phenoxy]methyl]phenyl]thieno[3,2-b]pyrrole-5-carboxamide (three-letter code: 6X3) (formula: C₂₇H₂₉N₃O₃S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	N	O	S	0	0
			34	27	3	3	1		
5	A	1	Total	C	N	O	S	0	0
			34	27	3	3	1		

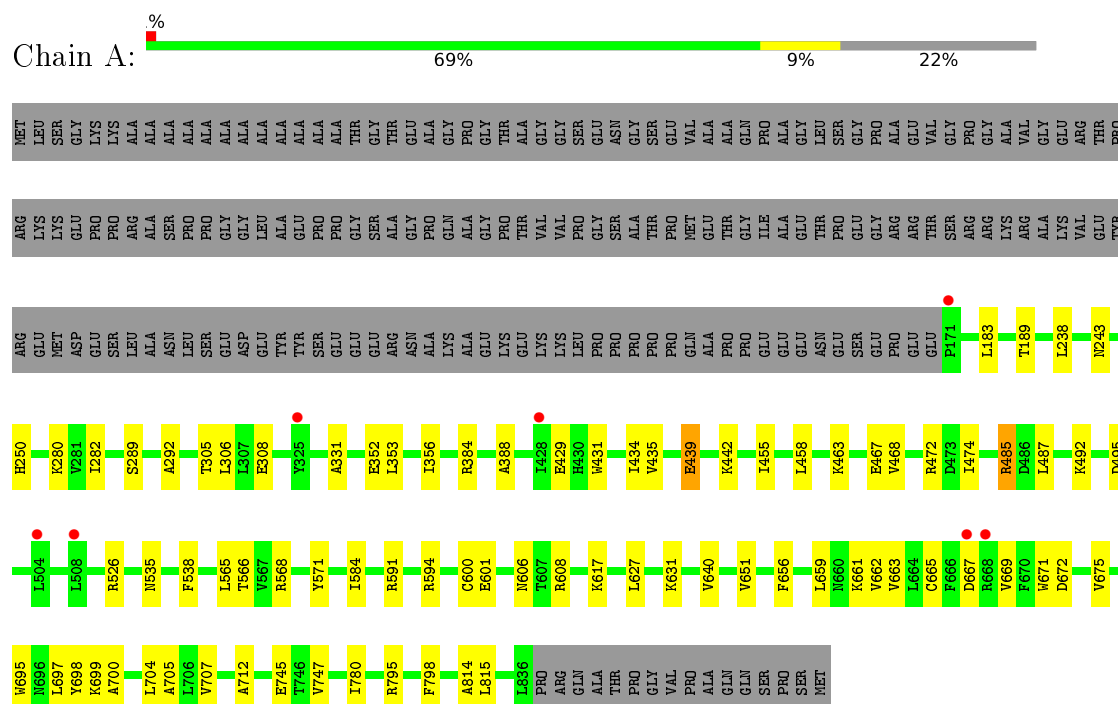
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	20	Total	O	0	0
			20	20		

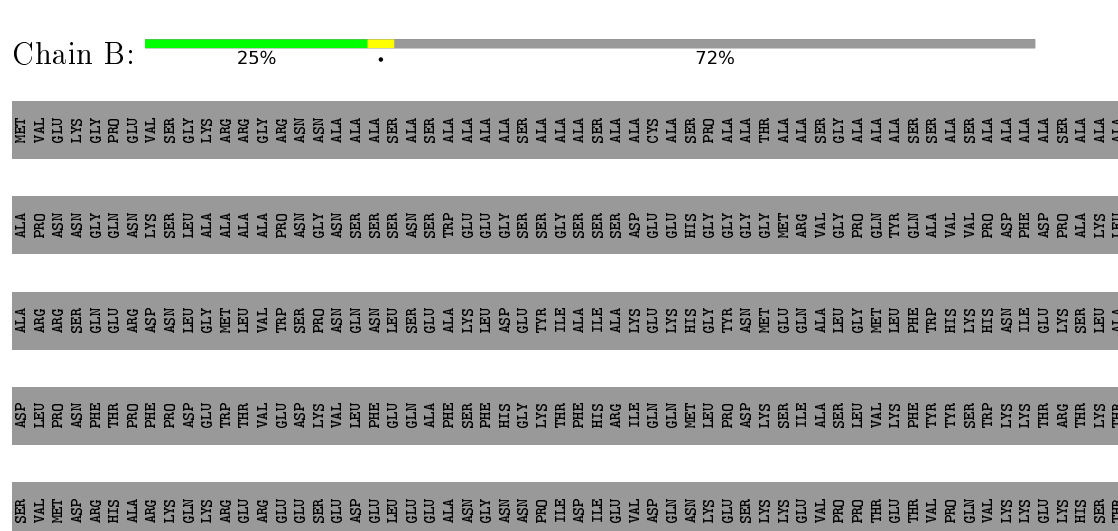
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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



- Molecule 2: REST corepressor 1



GLN	ALA	LYS	ASN	ARG	ALA	LYS	R308	G313	M314	F315	L316	R347	Q348	I349	T356	R371	I389	D407	S413	Q416	F421	R425	E440	HIS	GLY	LYS	GLU	GLU	THR	ASN	GLY	PRO	SER	ASN	GLN	LYS	PRO	VAL	LYS	SER	PRO	ASP	ASN	SER	ILE	LYS	MET	PRO
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GLU	GLU	GLU	ASP	GLU	ALA	PRO	VAL	LEU	ASP	VAL	ARG	TYR	ALA	SER	ALA	SER
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4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	120.36 Å 180.58 Å 234.58 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	69.03 – 3.34 71.76 – 3.34	Depositor EDS
% Data completeness (in resolution range)	99.9 (69.03-3.34) 99.9 (71.76-3.34)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.98 (at 3.33 Å)	Xtriage
Refinement program	PHENIX (1.10 _2155: ???)	Depositor
R, R_{free}	0.157 , 0.192 0.155 , 0.190	Depositor DCC
R_{free} test set	1934 reflections (5.17%)	DCC
Wilson B-factor (Å ²)	86.5	Xtriage
Anisotropy	0.537	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 81.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6458	wwPDB-VP
Average B, all atoms (Å ²)	100.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.76% 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: GOL, FAD, 6X3

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	0.25	1/5331 (0.0%)	0.39	0/7232
2	B	0.23	0/1091	0.36	0/1471
All	All	0.24	1/6422 (0.0%)	0.38	0/8703

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	700	ALA	C-N	5.45	1.44	1.34

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	5217	0	5251	51	0
2	B	1076	0	1091	10	0
3	A	53	0	31	3	0
4	A	24	0	31	3	0
5	A	68	0	0	0	0
6	A	20	0	0	0	0
All	All	6458	0	6404	54	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 (54) 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:384:ARG:HH22	2:B:313:GLY:HA3	1.49	0.74
1:A:384:ARG:HB3	2:B:314:MET:HE1	1.79	0.64
1:A:495:ASP:OD1	2:B:371:ARG:NH2	2.31	0.64
1:A:695:TRP:HB2	1:A:704:LEU:HB3	1.81	0.62
1:A:606:ASN:HD21	1:A:608:ARG:HB2	1.68	0.59
1:A:306:LEU:HD13	1:A:584:ILE:HG12	1.85	0.58
1:A:780:ILE:HG12	1:A:798:PHE:HE1	1.68	0.57
1:A:289:SER:HB3	1:A:814:ALA:HB1	1.87	0.57
1:A:661:LYS:HD3	1:A:704:LEU:HD21	1.85	0.57
1:A:665:CYS:HB2	1:A:745:GLU:HB2	1.89	0.55
1:A:538:PHE:CD1	1:A:659:LEU:HD11	2.41	0.55
1:A:594:ARG:HB2	1:A:601:GLU:HG3	1.89	0.53
1:A:435:VAL:HG13	2:B:349:ILE:HG12	1.91	0.53
2:B:413:SER:H	2:B:416:GLN:HE21	1.57	0.52
1:A:568:ARG:HH22	1:A:699:LYS:HG3	1.75	0.51
1:A:388:ALA:HB1	2:B:316:LEU:HD11	1.93	0.50
1:A:601:GLU:HB3	1:A:617:LYS:HD3	1.93	0.50
1:A:526:ARG:NH2	4:A:903:GOL:O1	2.44	0.50
1:A:458:LEU:HB3	1:A:487:LEU:HD13	1.93	0.49
1:A:662:VAL:HB	1:A:705:ALA:HB3	1.94	0.49
1:A:697:LEU:HD22	1:A:698:TYR:CE2	2.47	0.49
1:A:667:ASP:N	1:A:667:ASP:OD1	2.45	0.49
1:A:594:ARG:HG2	1:A:640:VAL:HB	1.94	0.48
1:A:331:ALA:HA	3:A:901:FAD:N5	2.28	0.48
1:A:308:GLU:OE2	3:A:901:FAD:O2B	2.29	0.48
1:A:669:VAL:HG13	1:A:671:TRP:CE2	2.49	0.48
1:A:672:ASP:HB3	1:A:675:VAL:HB	1.97	0.47
1:A:468:VAL:O	1:A:472:ARG:NH1	2.48	0.47
1:A:631:LYS:HZ1	4:A:904:GOL:H31	1.81	0.45
1:A:463:LYS:O	1:A:467:GLU:HG2	2.15	0.45
1:A:631:LYS:NZ	4:A:904:GOL:H31	2.31	0.45
1:A:474:ILE:HG12	2:B:389:LEU:HB2	1.98	0.45
1:A:568:ARG:HA	1:A:698:TYR:CE2	2.51	0.45
1:A:485:ARG:HG3	2:B:407:ASP:HB2	1.98	0.45
1:A:435:VAL:O	1:A:439:GLU:HB2	2.17	0.45
1:A:356:ILE:HD11	1:A:566:THR:HG23	1.99	0.44
1:A:442:LYS:HE3	2:B:355:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:421:PHE:O	2:B:425:ARG:HB2	2.18	0.44
1:A:663:VAL:HB	1:A:747:VAL:HB	2.00	0.44
1:A:352:GLU:HB3	1:A:568:ARG:HB3	2.00	0.44
1:A:492:LYS:HE3	1:A:492:LYS:HB2	1.81	0.44
3:A:901:FAD:H9	3:A:901:FAD:H1'1	1.80	0.44
1:A:600:CYS:SG	1:A:795:ARG:HB3	2.58	0.43
1:A:627:LEU:HB3	1:A:656:PHE:CD1	2.53	0.43
1:A:431:TRP:CE3	1:A:434:ILE:HD12	2.53	0.43
1:A:282:ILE:HD13	1:A:305:THR:HB	2.00	0.42
1:A:353:LEU:HB3	1:A:565:LEU:HD22	2.01	0.42
1:A:292:ALA:HB2	1:A:815:LEU:HD22	2.02	0.41
1:A:707:VAL:HG12	1:A:712:ALA:HA	2.02	0.41
1:A:238:LEU:HB3	1:A:243:ASN:HB3	2.02	0.41
1:A:631:LYS:NZ	1:A:651:VAL:O	2.53	0.41
1:A:183:LEU:HD22	1:A:189:THR:HG21	2.02	0.41
1:A:280:LYS:NZ	1:A:305:THR:OG1	2.50	0.40
1:A:455:ILE:HG23	1:A:487:LEU:HD11	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	664/852 (78%)	644 (97%)	20 (3%)	0	100	100
2	B	131/482 (27%)	123 (94%)	8 (6%)	0	100	100
All	All	795/1334 (60%)	767 (96%)	28 (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	566/699 (81%)	559 (99%)	7 (1%)	78	90
2	B	117/395 (30%)	116 (99%)	1 (1%)	84	93
All	All	683/1094 (62%)	675 (99%)	8 (1%)	78	90

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	250	HIS
1	A	429	GLU
1	A	439	GLU
1	A	485	ARG
1	A	535	ASN
1	A	571	TYR
1	A	591	ARG
2	B	347	ARG

Some 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 carbohydrates in this entry.

5.6 Ligand geometry

7 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FAD	A	901	-	52,58,58	0.82	0	52,89,89	2.03	6 (11%)
4	GOL	A	902	-	5,5,5	0.36	0	5,5,5	0.24	0
4	GOL	A	903	1	5,5,5	0.36	0	5,5,5	0.23	0
4	GOL	A	904	-	5,5,5	0.34	0	5,5,5	0.22	0
4	GOL	A	905	-	5,5,5	0.35	0	5,5,5	0.20	0
5	6X3	A	906	-	34,38,38	2.21	6 (17%)	42,53,53	1.46	3 (7%)
5	6X3	A	907	-	34,38,38	2.24	7 (20%)	42,53,53	1.43	4 (9%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	FAD	A	901	-	-	0/30/50/50	0/6/6/6
4	GOL	A	902	-	-	0/4/4/4	0/0/0/0
4	GOL	A	903	1	-	0/4/4/4	0/0/0/0
4	GOL	A	904	-	-	0/4/4/4	0/0/0/0
4	GOL	A	905	-	-	0/4/4/4	0/0/0/0
5	6X3	A	906	-	-	0/14/27/27	0/5/5/5
5	6X3	A	907	-	-	0/14/27/27	0/5/5/5

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	907	6X3	C34-N31	-10.45	1.21	1.46
5	A	906	6X3	C34-N31	-10.43	1.21	1.46
5	A	906	6X3	C29-C28	-2.83	1.44	1.51
5	A	906	6X3	C33-C28	-2.78	1.44	1.51
5	A	907	6X3	C29-C28	-2.32	1.45	1.51
5	A	907	6X3	C33-C28	-2.31	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	906	6X3	O11-C10	-2.10	1.19	1.23
5	A	907	6X3	O11-C10	-2.10	1.19	1.23
5	A	906	6X3	C13-N12	2.30	1.46	1.41
5	A	907	6X3	O27-C24	2.48	1.42	1.38
5	A	907	6X3	C13-N12	2.65	1.46	1.41
5	A	906	6X3	C10-N12	3.96	1.45	1.35
5	A	907	6X3	C10-N12	4.24	1.46	1.35

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	901	FAD	N3A-C2A-N1A	-9.78	121.19	128.87
5	A	906	6X3	C24-O27-C28	-5.05	109.82	118.93
3	A	901	FAD	N3-C2-N1	-4.07	120.84	127.69
3	A	901	FAD	C4X-C4-N3	-3.08	119.50	123.52
3	A	901	FAD	C5X-C9A-N10	2.51	119.45	117.58
5	A	907	6X3	C33-C28-C29	2.53	115.74	111.56
5	A	907	6X3	C30-C29-C28	2.91	113.22	110.23
5	A	906	6X3	C32-N31-C30	3.01	113.60	109.50
5	A	907	6X3	C32-C33-C28	3.81	114.14	110.23
3	A	901	FAD	C4X-N5-C5X	3.89	121.30	116.72
5	A	906	6X3	C05-S06-C07	5.80	98.04	91.56
5	A	907	6X3	C05-S06-C07	6.00	98.26	91.56
3	A	901	FAD	C4-N3-C2	6.48	120.57	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	901	FAD	3	0
4	A	903	GOL	1	0
4	A	904	GOL	2	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	666/852 (78%)	0.26	7 (1%) 82 83	47, 89, 150, 188	0
2	B	133/482 (27%)	0.34	0 100 100	79, 123, 162, 187	0
All	All	799/1334 (59%)	0.27	7 (0%) 85 86	47, 95, 152, 188	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	325	TYR	2.9
1	A	504	LEU	2.6
1	A	667	ASP	2.4
1	A	171	PRO	2.3
1	A	508	LEU	2.3
1	A	428	ILE	2.1
1	A	668	ARG	2.1

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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
5	6X3	A	907	34/34	0.58	0.67	10.77	114,159,178,187	34
4	GOL	A	904	6/6	0.91	0.59	8.66	115,132,141,147	0
4	GOL	A	902	6/6	0.87	0.54	5.18	100,114,121,121	0
5	6X3	A	906	34/34	0.88	0.56	4.21	98,193,214,216	0
4	GOL	A	903	6/6	0.90	0.40	2.16	94,99,100,113	0
3	FAD	A	901	53/53	0.99	0.24	-0.66	28,64,86,94	0
4	GOL	A	905	6/6	0.73	0.37	-	107,129,137,144	0

6.5 Other polymers [i](#)

There are no such residues in this entry.