



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 27, 2014 – 11:40 AM GMT

PDB ID : 2UXN  
Title : STRUCTURAL BASIS OF HISTONE DEMETHYLATION BY LSD1 REVEALED BY SUICIDE INACTIVATION  
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Deposited on : 2007-03-28  
Resolution : 2.72 Å(reported)

This is a full wwPDB validation 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 <http://wwpdb.org/ValidationPDFNotes.html>

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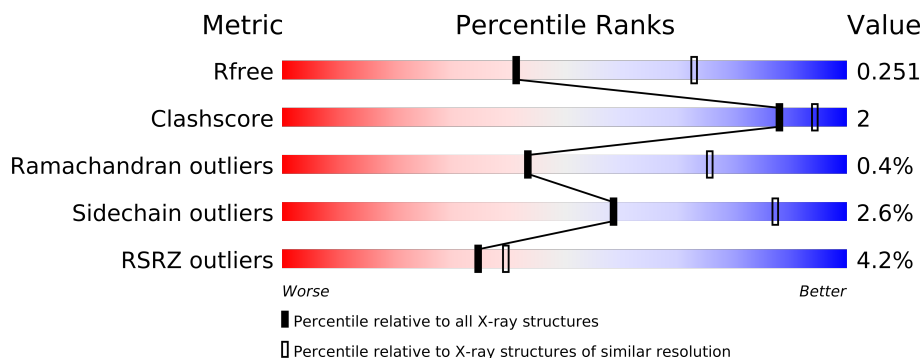
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.15 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable22639  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable22683

# 1 Overall quality at a glance

The reported resolution of this entry is 2.72 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))
$R_{free}$	66092	1770 (2.74-2.70)
Clashscore	79885	2183 (2.74-2.70)
Ramachandran outliers	78287	2147 (2.74-2.70)
Sidechain outliers	78261	2148 (2.74-2.70)
RSRZ outliers	66119	1772 (2.74-2.70)

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	666	
2	B	235	
3	E	21	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
6	CL	A	1838	-	X
6	CL	A	1839	-	X

## 2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 6469 atoms, of which 0 are hydrogen and 0 are deuterium.

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 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	664	5215	3322	908	965	20	0	1	0

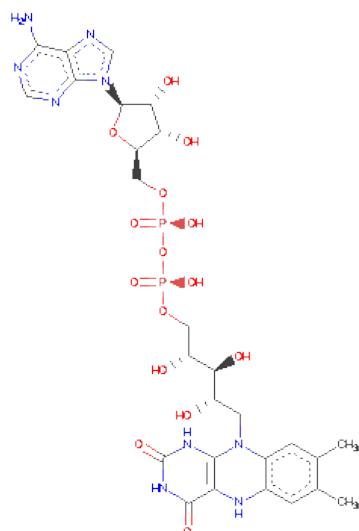
- Molecule 2 is a protein called REST COREPRESSOR 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	133	1085	681	195	206	3	0	1	0

- Molecule 3 is a protein called HISTONE H3.1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	E	7	57	35	12	10	0	0	0

- Molecule 4 is DIHYDROFLAVINE-ADENINEDINUCLEOTIDE (three-letter code: FDA) (formula: C<sub>27</sub>H<sub>35</sub>N<sub>9</sub>O<sub>15</sub>P<sub>2</sub>).



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

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



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

- Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula:  $Cl$ ).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	2	Total	Cl	0	0
			2	2		

- Molecule 7 is water.

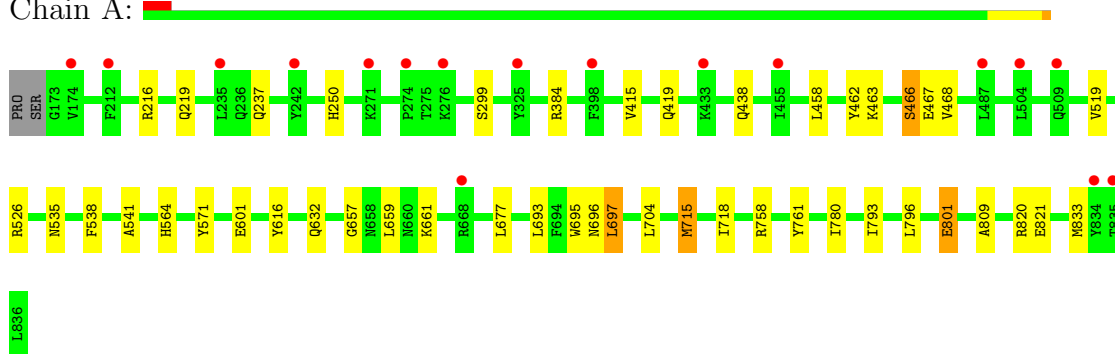
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	49	Total	O	0	0
			49	49		
7	B	1	Total	O	0	0
			1	1		
7	E	1	Total	O	0	0
			1	1		

### 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.

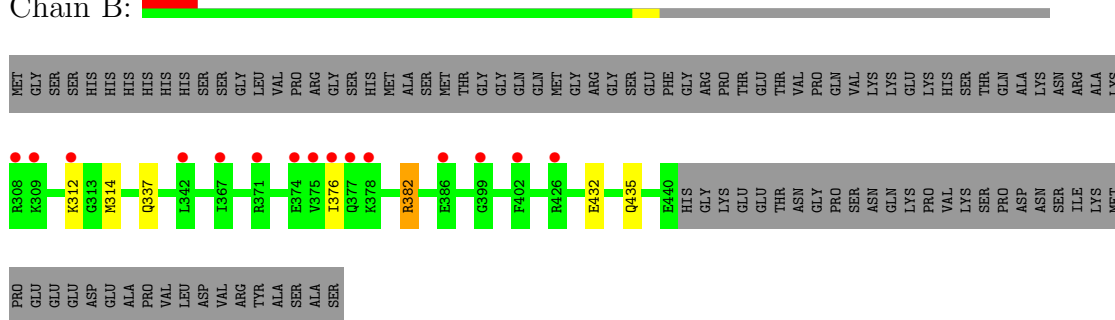
#### • Molecule 1: LYSINE-SPECIFIC HISTONE DEMETHYLASE 1

Chain A:



#### • Molecule 2: REST COREPRESSOR 1

Chain B:



#### • Molecule 3: HISTONE H3.1

Chain E:



## 4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	119.95Å 178.65Å 234.93Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.00 – 2.72 48.57 – 2.69	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.00-2.72) 99.0 (48.57-2.69)	Depositor EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.91 (at 2.69Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, $R_{free}$	0.241 , 0.272 0.232 , 0.251	Depositor DCC
$R_{free}$ test set	1542 reflections (2.27%)	DCC
Wilson B-factor (Å <sup>2</sup> )	65.8	Xtriage
Anisotropy	0.620	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 38.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.52$ , $\langle L^2 \rangle = 0.36$	Xtriage
Outliers	0 of 69395 reflections	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	6469	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	75.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.92% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: FDA, GOL, LYP, CL

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	0.37	0/5328	0.58	0/7227
2	B	0.38	0/1100	0.48	0/1483
3	E	0.61	0/42	0.68	0/54
All	All	0.38	0/6470	0.57	0/8764

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5215	0	5251	29	0
2	B	1085	0	1096	5	0
3	E	57	0	64	2	0
4	A	53	0	32	0	0
5	A	6	0	8	0	0
6	A	2	0	0	0	0
7	A	49	0	0	0	0
7	B	1	0	0	0	0
7	E	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	6469	0	6451	31	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 2.

All (31) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:384:ARG:HB3	2:B:314:MET:HE1	1.58	0.86
1:A:801:GLU:CG	1:A:809:ALA:H	1.88	0.84
1:A:801:GLU:HG2	1:A:809:ALA:H	1.41	0.83
1:A:801:GLU:HG3	1:A:809:ALA:HA	1.61	0.82
1:A:801:GLU:HG3	1:A:809:ALA:CA	2.18	0.73
1:A:801:GLU:HG3	1:A:809:ALA:N	2.12	0.64
1:A:801:GLU:CG	1:A:809:ALA:N	2.61	0.62
1:A:384:ARG:HB3	2:B:314:MET:CE	2.28	0.62
1:A:695:TRP:HE3	1:A:697:LEU:HD21	1.70	0.56
1:A:761:TYR:CD1	1:A:809:ALA:HB1	2.43	0.53
1:A:793:ILE:H	1:A:793:ILE:HD12	1.74	0.53
1:A:661:LYS:HD3	1:A:704:LEU:HD21	1.91	0.51
1:A:801:GLU:HG3	1:A:809:ALA:H	1.65	0.50
1:A:761:TYR:CZ	3:E:4:LYP:HCC2	2.47	0.50
1:A:715:MET:HA	1:A:718:ILE:HD12	1.93	0.49
1:A:216:ARG:NH1	1:A:219:GLN:OE1	2.46	0.49
2:B:432:GLU:O	2:B:435:GLN:HG2	2.14	0.47
1:A:780:ILE:HB	1:A:796:LEU:HB3	1.96	0.47
1:A:463:LYS:O	1:A:467:GLU:HG2	2.15	0.47
1:A:415:VAL:O	1:A:419:GLN:HG2	2.17	0.45
1:A:541:ALA:O	1:A:657:GLY:HA3	2.17	0.44
1:A:384:ARG:NH1	2:B:312:LYS:O	2.49	0.44
1:A:535:ASN:HD21	3:E:5:GLN:HE22	1.66	0.44
1:A:632:GLN:HG3	1:A:758[B]:ARG:CZ	2.49	0.43
1:A:820:ARG:NE	1:A:821:GLU:OE2	2.45	0.42
2:B:382:ARG:HB3	2:B:382:ARG:HE	1.58	0.42
1:A:601:GLU:HA	1:A:616:TYR:O	2.19	0.42
1:A:526:ARG:HD2	1:A:526:ARG:HA	1.91	0.42
1:A:695:TRP:HB2	1:A:704:LEU:HB3	2.02	0.41
1:A:462:TYR:O	1:A:466:SER:HB2	2.21	0.41
1:A:677:LEU:HB2	1:A:693: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	663/666 (100%)	645 (97%)	17 (3%)	1 (0%)	56	85
2	B	132/235 (56%)	126 (96%)	5 (4%)	1 (1%)	27	58
3	E	4/21 (19%)	1 (25%)	2 (50%)	1 (25%)	0	0
All	All	799/922 (87%)	772 (97%)	24 (3%)	3 (0%)	43	76

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	468	VAL
2	B	376	ILE
3	E	5	GLN

### 5.3.2 Protein sidechains ⓘ

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	565/566 (100%)	549 (97%)	16 (3%)	56	85
2	B	118/203 (58%)	116 (98%)	2 (2%)	73	93
3	E	4/14 (29%)	4 (100%)	0	100	100
All	All	687/783 (88%)	669 (97%)	18 (3%)	59	87

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	237	GLN
1	A	250	HIS
1	A	299	SER

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Mol	Chain	Res	Type
1	A	438	GLN
1	A	458	LEU
1	A	466	SER
1	A	519	VAL
1	A	538	PHE
1	A	564	HIS
1	A	571	TYR
1	A	659	LEU
1	A	696	ASN
1	A	697	LEU
1	A	715	MET
1	A	801	GLU
1	A	833	MET
2	B	337	GLN
2	B	382	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	237	GLN
1	A	535	ASN
2	B	337	GLN

### 5.3.3 RNA ⓘ

There are no RNA chains in this entry.

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

1 non-standard protein/DNA/RNA residue is 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	LYP	E	4	3,4	12,12,13	5.34	2 (16%)	11,13,15	1.15	1 (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	LYP	E	4	3,4	-	0/10/12/14	0/0/0/0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	4	LYP	O-C	18.08	1.23	1.11
3	E	4	LYP	CA-C	3.08	1.54	1.48

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	4	LYP	CCC-CCD-NZ	-3.29	109.52	114.55

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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
5	GOL	A	1837	-	5,5,5	0.36	0	5,5,5	0.23	0
4	FDA	A	900	3	58,58,58	2.82	14 (24%)	83,89,89	2.17	19 (22%)

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
5	GOL	A	1837	-	-	0/4/4/4	0/0/0/0
4	FDA	A	900	3	-	0/34/50/50	0/1/6/6

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	900	FDA	C4X-N5	8.63	1.50	1.36
4	A	900	FDA	C10-N1	8.60	1.48	1.37
4	A	900	FDA	C9A-N10	7.07	1.49	1.38
4	A	900	FDA	C5X-N5	6.43	1.48	1.36
4	A	900	FDA	C4-N3	6.36	1.47	1.37
4	A	900	FDA	C4-C4X	6.34	1.51	1.41
4	A	900	FDA	C2-N3	5.71	1.48	1.37
4	A	900	FDA	C2-N1	5.61	1.48	1.37
4	A	900	FDA	C10-N10	4.13	1.47	1.38
4	A	900	FDA	C1'-C2'	3.27	1.54	1.51
4	A	900	FDA	C4A-N9A	-2.63	1.33	1.37
4	A	900	FDA	PA-O1A	2.60	1.61	1.51
4	A	900	FDA	P-O1P	2.37	1.60	1.51
4	A	900	FDA	C5A-N7A	-2.12	1.32	1.40

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	900	FDA	N3A-C2A-N1A	-10.04	120.32	128.71
4	A	900	FDA	C4-N3-C2	-5.92	113.34	125.36
4	A	900	FDA	C4B-O4B-C1B	-5.47	103.81	109.75
4	A	900	FDA	C4X-N5-C5X	-5.35	113.01	123.00
4	A	900	FDA	C9A-N10-C10	-5.32	116.55	121.77
4	A	900	FDA	C4-C4X-C10	5.28	118.17	114.55
4	A	900	FDA	N3A-C4A-N9A	4.05	132.75	125.43
4	A	900	FDA	C5A-C4A-N3A	-2.99	119.18	125.70
4	A	900	FDA	C4X-C10-N1	2.85	122.48	118.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	900	FDA	O4B-C1B-C2B	-2.83	102.43	106.77
4	A	900	FDA	P-O3P-PA	-2.72	123.71	131.68
4	A	900	FDA	C2A-N3A-C4A	2.63	121.51	114.01
4	A	900	FDA	C2B-C1B-N9A	-2.63	106.51	113.27
4	A	900	FDA	C9A-C5X-N5	2.47	121.07	117.75
4	A	900	FDA	O2P-P-O3P	2.44	116.70	105.14
4	A	900	FDA	C5'-C4'-C3'	-2.25	107.80	112.06
4	A	900	FDA	C10-C4X-N5	2.19	122.26	117.77
4	A	900	FDA	C1'-N10-C9A	2.09	120.91	118.87
4	A	900	FDA	O4'-C4'-C3'	2.07	114.21	109.05

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 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 ⓘ

### 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, 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	664/666 (99%)	0.39	17 (2%) 53 59	40, 69, 96, 106	0
2	B	133/235 (56%)	0.69	15 (11%) 6 6	75, 100, 124, 136	0
3	E	6/21 (28%)	1.87	2 (33%) 1 1	112, 118, 121, 122	0
All	All	803/922 (87%)	0.45	34 (4%) 35 39	40, 74, 111, 136	0

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	376	ILE	6.0
1	A	834	TYR	4.4
3	E	1	ALA	4.4
2	B	399	GLY	3.7
2	B	374	GLU	2.9
1	A	835	THR	2.8
2	B	378	LYS	2.8
2	B	312	LYS	2.7
2	B	377	GLN	2.7
2	B	309	LYS	2.6
2	B	402	PHE	2.6
2	B	342	LEU	2.6
1	A	274	PRO	2.5
1	A	242	TYR	2.5
2	B	375	VAL	2.5
1	A	504	LEU	2.5
1	A	325	TYR	2.5
1	A	455	ILE	2.4
1	A	276	LYS	2.4
1	A	271	LYS	2.4
1	A	174	VAL	2.4
1	A	668	ARG	2.4
3	E	6	THR	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	235	LEU	2.2
2	B	426	ARG	2.2
1	A	212	PHE	2.2
2	B	386[A]	GLU	2.2
1	A	398	PHE	2.1
1	A	487	LEU	2.1
1	A	509	GLN	2.1
2	B	367	ILE	2.1
1	A	433	LYS	2.0
2	B	308	ARG	2.0
2	B	371	ARG	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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, 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	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
3	LYP	E	4	13/14	0.32	1.30	65,91,111,111	0

## 6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 6.4 Ligands ⓘ

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, 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	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
6	CL	A	1839	1/1	0.30	5.87	87,87,87,87	0
6	CL	A	1838	1/1	0.40	4.51	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
4	FDA	A	900	53/53	0.21	0.23	37,48,59,62	0
5	GOL	A	1837	6/6	0.20	-0.63	64,65,66,67	0

## 6.5 Other polymers ⓘ

There are no such residues in this entry.