



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 30, 2017 – 07:09 PM EDT

PDB ID : 3Q0F  
Title : Crystal structure of SUVH5 SRA- methylated CHH DNA complex  
Authors : Eerappa, R.; Simanshu, D.K.; Patel, D.J.  
Deposited on : unknown  
Resolution : 2.75 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](mailto: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.

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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 : 1.7.2 (RC1), CSD as538be (2017)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20030345  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
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-20030345

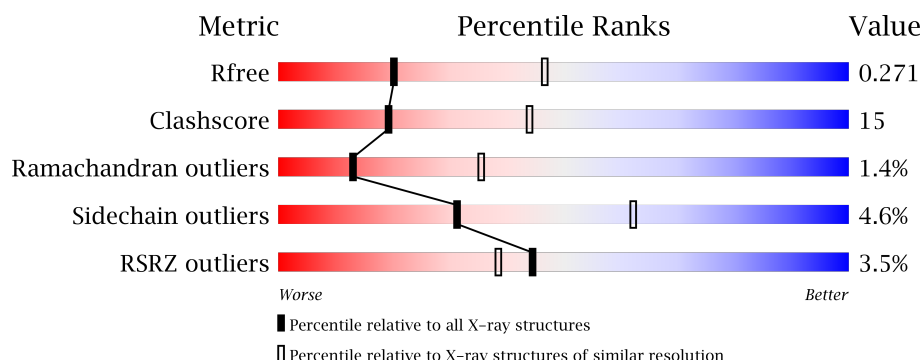
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.75 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))
$R_{free}$	100719	3666 (2.80-2.72)
Clashscore	112137	4174 (2.80-2.72)
Ramachandran outliers	110173	4103 (2.80-2.72)
Sidechain outliers	110143	4106 (2.80-2.72)
RSRZ outliers	101464	3697 (2.80-2.72)

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. 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	167	<div> <div>2%</div> <div>65%</div> <div>20%</div> <div>13%</div> </div>
1	X	167	<div> <div>2%</div> <div>68%</div> <div>16%</div> <div>13%</div> </div>
2	B	11	<div> <div>18%</div> <div>18%</div> <div>27%</div> <div>55%</div> </div>
3	C	10	<div> <div>20%</div> <div>70%</div> <div>30%</div> </div>

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2682 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 Histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	X	145	Total	C	N	O	S	0	0	0
			1112	706	192	212	2			
1	A	146	Total	C	N	O	S	0	0	0
			1127	718	193	214	2			

- Molecule 2 is a DNA chain called DNA (5'-D(\*CP\*TP\*GP\*AP\*GP\*GP\*AP\*GP\*TP\*AP\*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	11	Total	C	N	O	P	0	0	0
			227	109	44	64	10			

- Molecule 3 is a DNA chain called DNA (5'-D(\*TP\*AP\*CP\*TP\*(5CM)P\*CP\*TP\*CP\*AP\*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	10	Total	C	N	O	P	0	0	0
			198	97	33	59	9			

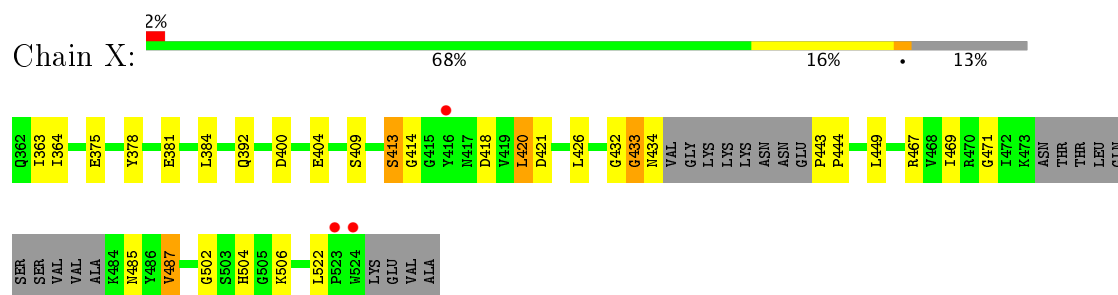
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	X	7	Total	O	0	0
			7	7		
4	A	6	Total	O	0	0
			6	6		
4	B	2	Total	O	0	0
			2	2		
4	C	3	Total	O	0	0
			3	3		

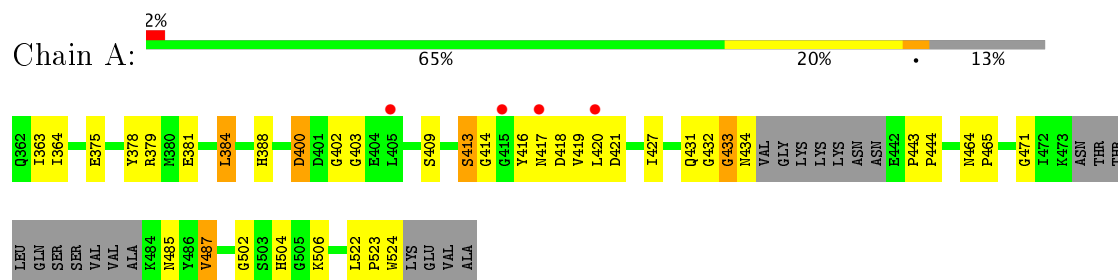
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

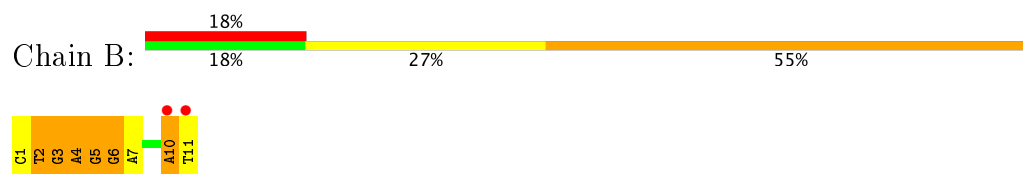
- Molecule 1: Histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH5



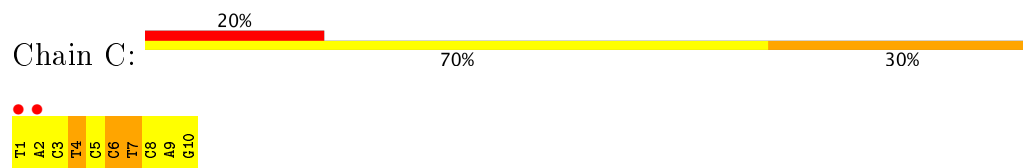
- Molecule 1: Histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH5



- Molecule 2: DNA (5'-D(\*CP\*TP\*GP\*AP\*GP\*GP\*AP\*GP\*TP\*AP\*T)-3')



- Molecule 3: DNA (5'-D(\*TP\*AP\*CP\*TP\*(5CM)P\*CP\*TP\*CP\*AP\*G)-3')



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	102.97Å 102.97Å 170.49Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.28 – 2.75 47.93 – 2.75	Depositor EDS
% Data completeness (in resolution range)	99.7 (29.28-2.75) 99.6 (47.93-2.75)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	0.09	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.20 (at 2.73Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, $R_{free}$	0.229 , 0.273 0.222 , 0.271	Depositor DCC
$R_{free}$ test set	729 reflections (5.04%)	DCC
Wilson B-factor (Å <sup>2</sup> )	74.4	Xtriage
Anisotropy	0.294	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 52.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	2682	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.98% 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

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 5CM

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	0.36	0/1149	0.52	0/1555
1	X	0.37	0/1132	0.56	0/1530
2	B	0.73	0/255	1.86	11/393 (2.8%)
3	C	0.93	0/197	1.85	4/299 (1.3%)
All	All	0.47	0/2733	0.93	15/3777 (0.4%)

There are no bond length outliers.

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	11	DT	O4'-C1'-N1	10.97	115.68	108.00
3	C	7	DT	O4'-C1'-N1	-9.18	101.58	108.00
2	B	5	DG	O4'-C1'-N9	8.96	114.27	108.00
3	C	6	DC	P-O3'-C3'	7.90	129.19	119.70
2	B	1	DC	O4'-C4'-C3'	-7.38	101.55	104.50
2	B	3	DG	C3'-C2'-C1'	-7.33	93.70	102.50
2	B	5	DG	C1'-O4'-C4'	-5.72	104.38	110.10
3	C	7	DT	N1-C1'-C2'	5.68	123.38	112.60
2	B	2	DT	C5-C4-O4	-5.60	120.98	124.90
2	B	6	DG	C3'-C2'-C1'	-5.51	95.89	102.50
3	C	4	DT	N3-C4-O4	5.50	123.20	119.90
2	B	11	DT	O4'-C1'-C2'	-5.37	101.60	105.90
2	B	6	DG	C4'-C3'-C2'	-5.33	98.30	103.10
2	B	4	DA	O4'-C4'-C3'	-5.13	102.45	104.50
2	B	10	DA	P-O5'-C5'	-5.13	112.69	120.90

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	1127	0	1101	27	0
1	X	1112	0	1092	20	0
2	B	227	0	126	8	0
3	C	198	0	117	27	0
4	A	6	0	0	0	0
4	B	2	0	0	0	0
4	C	3	0	0	1	0
4	X	7	0	0	1	0
All	All	2682	0	2436	74	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 15.

All (74) 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)
3:C:3:DC:H2'	3:C:4:DT:H71	1.39	1.04
3:C:2:DA:H2'	3:C:3:DC:C6	1.98	0.99
3:C:6:DC:H6	3:C:6:DC:H5'	1.40	0.84
3:C:3:DC:H2'	3:C:4:DT:C7	2.07	0.83
3:C:1:DT:H2''	3:C:2:DA:N7	1.93	0.82
3:C:2:DA:H2''	3:C:3:DC:H5'	1.69	0.75
3:C:6:DC:H5'	3:C:6:DC:C6	2.22	0.74
1:A:400:ASP:O	1:A:403:GLY:HA3	1.89	0.71
1:A:416:TYR:HE1	1:A:431:GLN:HA	1.56	0.71
1:A:400:ASP:O	1:A:402:GLY:HA2	1.92	0.70
3:C:3:DC:H2'	3:C:4:DT:C5	2.28	0.68
3:C:6:DC:H2'	3:C:7:DT:H71	1.78	0.64
1:X:392:GLN:HA	3:C:6:DC:H5''	1.80	0.62
1:A:416:TYR:CE1	1:A:431:GLN:HA	2.34	0.62
3:C:3:DC:H2'	3:C:4:DT:C6	2.35	0.61
1:X:504:HIS:HD2	1:X:506:LYS:H	1.52	0.58
3:C:2:DA:C2'	3:C:3:DC:H5'	2.35	0.56
1:A:433:GLY:O	1:A:434:ASN:HB2	2.05	0.55
3:C:1:DT:H2''	3:C:2:DA:C8	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:504:HIS:HD2	1:A:506:LYS:H	1.55	0.54
1:X:433:GLY:O	1:X:434:ASN:HB2	2.08	0.53
3:C:3:DC:C2'	3:C:4:DT:C6	2.91	0.53
2:B:10:DA:N1	3:C:1:DT:H72	2.24	0.52
1:A:416:TYR:HB2	2:B:6:DG:C5	2.46	0.51
1:A:502:GLY:HA3	1:A:504:HIS:NE2	2.27	0.50
3:C:5:5CM:H4'	3:C:6:DC:OP2	2.11	0.50
1:X:418:ASP:OD1	3:C:5:5CM:N3	2.45	0.50
1:X:502:GLY:HA3	1:X:504:HIS:NE2	2.26	0.50
1:A:432:GLY:O	1:A:434:ASN:N	2.47	0.48
1:X:443:PRO:N	4:X:3:HOH:O	2.47	0.48
1:X:363:ILE:HG22	1:X:364:ILE:N	2.29	0.48
1:A:363:ILE:HG22	1:A:364:ILE:N	2.29	0.47
1:X:378:TYR:N	1:X:381:GLU:OE2	2.42	0.47
1:A:443:PRO:HA	1:A:444:PRO:HD3	1.71	0.47
1:A:418:ASP:HB2	1:A:427:ILE:O	2.15	0.47
2:B:3:DG:O6	3:C:8:DC:N3	2.48	0.47
1:A:471:GLY:HA2	1:A:485:ASN:O	2.16	0.46
1:X:432:GLY:O	1:X:434:ASN:N	2.48	0.46
3:C:1:DT:H72	3:C:2:DA:N6	2.31	0.46
1:A:433:GLY:O	1:A:434:ASN:CB	2.64	0.45
3:C:1:DT:C2'	3:C:2:DA:N7	2.74	0.45
3:C:3:DC:C6	3:C:4:DT:H73	2.52	0.45
1:X:502:GLY:HA3	1:X:504:HIS:CE1	2.51	0.45
2:B:10:DA:C2	3:C:2:DA:N1	2.85	0.45
3:C:8:DC:H2''	3:C:9:DA:N7	2.33	0.44
1:A:419:VAL:HB	1:A:427:ILE:HB	1.99	0.44
1:A:378:TYR:N	1:A:381:GLU:OE2	2.46	0.44
1:A:502:GLY:HA3	1:A:504:HIS:CE1	2.53	0.44
3:C:3:DC:H5'	4:C:13:HOH:O	2.17	0.44
3:C:2:DA:C2'	3:C:3:DC:C6	2.87	0.44
3:C:9:DA:H2''	3:C:10:DG:OP2	2.18	0.43
1:X:449:LEU:HA	1:X:449:LEU:HD12	1.76	0.43
1:A:413:SER:HB2	1:A:414:GLY:H	1.59	0.43
2:B:2:DT:H2''	2:B:3:DG:OP2	2.17	0.43
1:A:416:TYR:CZ	2:B:6:DG:OP2	2.71	0.43
1:A:524:TRP:CD1	1:A:524:TRP:C	2.92	0.43
1:X:409:SER:HB3	1:X:467:ARG:HB2	1.99	0.43
1:X:433:GLY:O	1:X:434:ASN:CB	2.66	0.43
1:A:384:LEU:HD12	1:A:384:LEU:HA	1.75	0.42
1:X:413:SER:HB2	1:X:414:GLY:H	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:379:ARG:NH1	2:B:7:DA:H5''	2.34	0.42
1:X:375:GLU:HG2	1:X:487:VAL:HG13	2.01	0.42
1:X:400:ASP:OD2	1:X:404:GLU:N	2.53	0.42
3:C:2:DA:H2'	3:C:3:DC:H6	1.73	0.42
1:X:469:ILE:HD12	1:X:469:ILE:N	2.35	0.42
1:A:522:LEU:HA	1:A:523:PRO:HD3	1.91	0.42
1:X:443:PRO:HA	1:X:444:PRO:HD3	1.73	0.42
2:B:4:DA:C6	2:B:5:DG:C6	3.08	0.41
1:X:471:GLY:HA2	1:X:485:ASN:O	2.19	0.41
1:A:375:GLU:HG2	1:A:487:VAL:HG13	2.02	0.41
1:A:464:ASN:HA	1:A:465:PRO:HD3	1.90	0.41
1:A:388:HIS:HD2	1:A:409:SER:HB2	1.86	0.40
1:X:420:LEU:HB3	1:X:426:LEU:HD13	2.02	0.40
1:A:402:GLY:HA2	1:A:403:GLY:HA3	1.74	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	140/167 (84%)	124 (89%)	13 (9%)	3 (2%)	8	24
1	X	139/167 (83%)	129 (93%)	9 (6%)	1 (1%)	25	56
All	All	279/334 (84%)	253 (91%)	22 (8%)	4 (1%)	13	35

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	417	ASN
1	X	433	GLY
1	A	433	GLY
1	A	421	ASP

### 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	120/144 (83%)	115 (96%)	5 (4%)	34	66
1	X	119/144 (83%)	113 (95%)	6 (5%)	28	59
All	All	239/288 (83%)	228 (95%)	11 (5%)	31	62

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

Mol	Chain	Res	Type
1	X	384	LEU
1	X	413	SER
1	X	420	LEU
1	X	421	ASP
1	X	487	VAL
1	X	522	LEU
1	A	384	LEU
1	A	400	ASP
1	A	413	SER
1	A	420	LEU
1	A	487	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	X	377	GLN
1	X	388	HIS
1	X	392	GLN
1	X	448	GLN
1	A	377	GLN
1	A	388	HIS
1	A	392	GLN
1	A	448	GLN
1	A	504	HIS

### 5.3.3 RNA ⓘ

There are no RNA molecules 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	5CM	C	5	3	14,21,22	5.08	6 (42%)	18,30,33	0.94	1 (5%)

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	5CM	C	5	3	-	0/3/21/22	0/2/2/2

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	5	5CM	O5'-C5'	-2.97	1.40	1.44
3	C	5	5CM	C4-N4	4.86	1.46	1.34
3	C	5	5CM	C6-C5	5.70	1.54	1.40
3	C	5	5CM	C2-N3	8.44	1.54	1.38
3	C	5	5CM	C4-N3	10.38	1.50	1.35
3	C	5	5CM	C5-C4	10.53	1.57	1.41

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	5	5CM	C5-C6-N1	-2.24	119.73	122.15

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	5	5CM	2	0

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 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, 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	146/167 (87%)	0.17	4 (2%) 55 49	46, 64, 103, 126	0
1	X	145/167 (86%)	0.31	3 (2%) 64 59	41, 62, 100, 132	0
2	B	11/11 (100%)	0.55	2 (18%) 1 1	62, 72, 116, 121	0
3	C	9/10 (90%)	0.62	2 (22%) 1 1	59, 73, 117, 127	0
All	All	311/355 (87%)	0.26	11 (3%) 44 38	41, 63, 105, 132	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	X	524	TRP	7.1
1	A	420	LEU	4.8
3	C	1	DT	4.2
2	B	11	DT	4.1
3	C	2	DA	3.3
1	A	417	ASN	3.0
1	X	416	TYR	2.4
2	B	10	DA	2.3
1	A	415	GLY	2.2
1	X	523	PRO	2.2
1	A	405	LEU	2.1

### 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	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
3	5CM	C	5	20/21	0.98	0.18	-	27,48,62,70	0

### 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

### 6.4 Ligands [i](#)

There are no ligands in this entry.

### 6.5 Other polymers [i](#)

There are no such residues in this entry.