

wwPDB X-ray Structure Validation Summary Report (i)

Aug 16, 2020 – 07:05 PM BST

MT1 RFTS domain in complex with H3K9me3

This is a wwPDB X-ray Structure Validation Summary 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

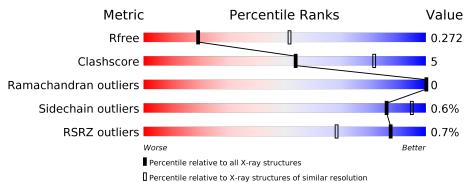
MolProbity		4 02b 467
5		
Mogul	:	$1.8.5 \ (274361), \ \text{CSD} \ \text{as541be} \ (2020)$
Xtriage (Phenix)	:	1.13
EDS	:	2.13.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 3.01 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R _{free}	130704	2399 (3.04-3.00)
Clashscore	141614	2734(3.04-3.00)
Ramachandran outliers	138981	2640 (3.04-3.00)
Sidechain outliers	138945	2643 (3.04-3.00)
RSRZ outliers	127900	2287 (3.04-3.00)

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 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 <=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	77	90%	10%
1	В	77	3% 	6% •
1	Е	77	83%	17%
1	F	77	% 	18% •
2	С	247	77%	14% 9%
2	G	247	% 	11% •



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Mol	Chain	Length	Quality of chain					
3	D	26	62%	8%	31%			
3	Н	26	62%	12%	27%			



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 6247 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	77	Total	С	Ν	Ο	\mathbf{S}	0	0	0
1	Л	11	574	361	95	116	2	0	0	0
1	В	76	Total	С	Ν	Ο	S	0	0	0
	D	70	550	346	94	108	2	0	0	0
1	Е	77	Total	С	Ν	Ο	S	0	0	0
1	Ľ	11	603	377	104	120	2	0	0	0
1	F	76	Total	С	Ν	Ο	S	0	0	0
		10	564	356	94	112	2			U

• Molecule 1 is a protein called Ubiquitin.

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	0	SER	-	expression tag	UNP J3QS39
А	76	CYS	GLY	$\operatorname{conflict}$	UNP J3QS39
В	0	SER	-	expression tag	UNP J3QS39
В	76	CYS	GLY	$\operatorname{conflict}$	UNP J3QS39
Е	0	SER	-	expression tag	UNP J3QS39
E	76	CYS	GLY	$\operatorname{conflict}$	UNP J3QS39
F	0	SER	-	expression tag	UNP J3QS39
F	76	CYS	GLY	conflict	UNP J3QS39

• Molecule 2 is a protein called DNA (cytosine-5)-methyltransferase 1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
0	C	226	Total	С	Ν	Ο	S	0	0	0
		220	1762	1128	275	349	10	0	0	0
0	C	242	Total	С	Ν	0	S	0	0	0
	G	242	1875	1204	292	368	11	0	0	0

There are 2 discrepancies between the modelled and reference sequences:



Chain	Residue	Modelled	Actual	Comment	Reference
С	348	SER	-	expression tag	UNP Q24K09
G	348	SER	-	expression tag	UNP Q24K09

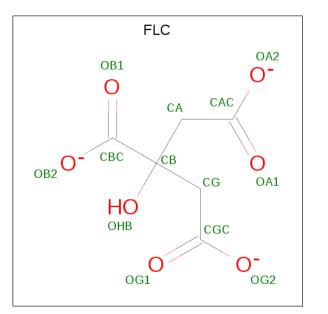
• Molecule 3 is a protein called Histone H3.3.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
9	п	10	Total	С	Ν	Ο	S	0	0	0
0	D	18	122	73	26	22	1	0	0	0
9	п	19	Total	С	Ν	Ο	S	0	0	0
0	11	19	134	80	30	23	1	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	18	CYS	LYS	$\operatorname{conflict}$	UNP P84243
D	23	CYS	LYS	$\operatorname{conflict}$	UNP P84243
D	26	TRP	ARG	$\operatorname{conflict}$	UNP P84243
Н	18	CYS	LYS	$\operatorname{conflict}$	UNP P84243
Н	23	CYS	LYS	$\operatorname{conflict}$	UNP P84243
Н	26	TRP	ARG	$\operatorname{conflict}$	UNP P84243

• Molecule 4 is CITRATE ANION (three-letter code: FLC) (formula: $C_6H_5O_7$) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	С	1	Total 13	$\begin{array}{c} \mathrm{C} \\ \mathrm{6} \end{array}$	O 7	0	0



• Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by author).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	G	1	Total Zn 1 1	0	0
5	С	1	Total Zn 1 1	0	0

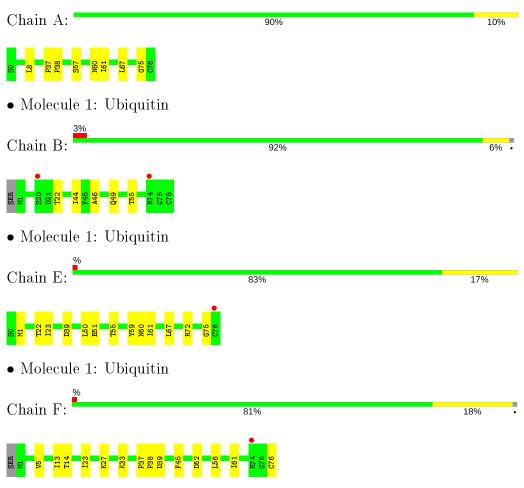
• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	2	Total O 2 2	0	0
6	В	2	Total O 2 2	0	0
6	С	14	Total O 14 14	0	0
6	Ε	8	Total O 8 8	0	0
6	F	2	Total O 2 2	0	0
6	G	19	Total O 19 19	0	0
6	Н	1	Total O 1 1	0	0



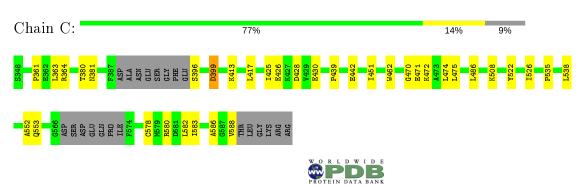
3 Residue-property plots (i)

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: Ubiquitin

• Molecule 2: DNA (cytosine-5)-methyltransferase 1



ALA THR CYS ALA ALA ALA TRP

• Molecule 2: DNA (cytosine-5)-methyltransferase 1 Chain G: 87% • 11% GLY LYS ARG ARG • Molecule 3: Histone H3.3 Chain D: 62% 31% 8% ALA R17 C18 Q19 LEU THR ALA ALA ALA ALA TRP • Molecule 3: Histone H3.3 Chain H: 62% 27% 12%



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	70.32Å 196.44Å 67.70Å	Deperitor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.11 - 3.01	Depositor
Resolution (A)	49.11 - 3.01	EDS
% Data completeness	98.9 (49.11-3.01)	Depositor
(in resolution range)	$98.9\ (49.11 ext{-} 3.01)$	EDS
R _{merge}	0.13	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.52 \; ({\rm at} \; 3.01 {\rm \AA})$	Xtriage
Refinement program	PHENIX 1.16_3549	Depositor
D D .	0.216 , 0.272	Depositor
R, R_{free}	0.216 , 0.272	DCC
R_{free} test set	1910 reflections (10.00%)	wwPDB-VP
Wilson B-factor $(Å^2)$	78.5	Xtriage
Anisotropy	0.269	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32 , 48.8	EDS
L-test for twinning ²	$< L > = 0.48, < L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.027 for l,-k,h	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6247	wwPDB-VP
Average B, all atoms $(Å^2)$	84.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.22% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: ZN, M3L, FLC $\,$

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		
	Cham	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.24	0/580	0.44	0/786	
1	В	0.25	0/556	0.45	0/756	
1	Е	0.23	0/609	0.44	0/820	
1	F	0.23	0/570	0.44	0/774	
2	С	0.25	0/1805	0.41	0/2456	
2	G	0.25	0/1923	0.40	0/2620	
3	D	0.21	0/110	0.45	0/147	
3	Н	0.26	0/122	0.48	0/162	
All	All	0.25	0/6275	0.42	0/8521	

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 (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(model) H(added) Cla		Symm-Clashes
1	А	574	0	556	6	0
1	В	550	0	513	3	0
1	Е	603	0	616	14	0
1	F	564	0	549	8	0
2	С	1762	0	1660	22	0



Mol	Chain	Non-H		H(added)	Clashes	Symm-Clashes
2	G	1875	0	1766	17	0
3	D	122	0	119	2	0
3	Н	134	0	134	3	0
4	С	13	0	5	0	0
5	С	1	0	0	0	0
5	G	1	0	0	0	0
6	А	2	0	0	0	0
6	В	2	0	0	0	0
6	С	14	0	0	0	0
6	Е	8	0	0	1	0
6	F	2	0	0	0	0
6	G	19	0	0	0	0
6	Н	1	0	0	0	0
All	All	6247	0	5918	64	0

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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 5.

The worst 5 of 64 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)
2:C:553:GLN:HB2	2:C:588:VAL:HG11	1.69	0.75
1:E:50:LEU:HD12	1:E:59:TYR:CD2	2.26	0.70
2:G:413:LYS:NZ	2:G:430:GLU:OE1	2.24	0.68
1:A:60:ASN:ND2	2:G:380:THR:O	2.29	0.62
1:E:50:LEU:HD12	1:E:59:TYR:CG	2.34	0.62

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	Perce	ntiles
1	А	75/77~(97%)	74~(99%)	1 (1%)	0	100	100
1	В	74/77~(96%)	74 (100%)	0	0	100	100
1	Ε	75/77~(97%)	75~(100%)	0	0	100	100
1	F	74/77~(96%)	74 (100%)	0	0	100	100
2	С	220/247~(89%)	211~(96%)	9~(4%)	0	100	100
2	G	240/247~(97%)	233~(97%)	7(3%)	0	100	100
3	D	15/26~(58%)	15~(100%)	0	0	100	100
3	Η	16/26~(62%)	15~(94%)	1~(6%)	0	100	100
All	All	789/854~(92%)	771~(98%)	18 (2%)	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	А	60/70~(86%)	60~(100%)	0	100 100
1	В	53/70~(76%)	53~(100%)	0	100 100
1	Ε	68/70~(97%)	68~(100%)	0	100 100
1	F	59/70~(84%)	58~(98%)	1 (2%)	60 85
2	С	194/222~(87%)	192~(99%)	2(1%)	76 91
2	G	204/222~(92%)	203~(100%)	1 (0%)	88 96
3	D	9/17~(53%)	9~(100%)	0	100 100
3	Η	10/17~(59%)	10~(100%)	0	100 100
All	All	657/758~(87%)	653~(99%)	4 (1%)	86 95

All (4) residues with a non-rotameric sidechain are listed below:

$\begin{bmatrix} 2 & C & 399 & AS \end{bmatrix}$	e
- 000 1101	2
2 C 578 CY	S



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Mol	Chain	Res	Type
1	F	76	CYS
2	G	528	LYS

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)

2 non-standard protein/DNA/RNA residues 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	Iol Type Chain Res		in Res Link		Bo	Bond lengths			Bond ang	gles
Moi Type	Chann Res		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2		
3	M3L	Н	9	3	10, 11, 12	0.69	0	$9,\!14,\!16$	0.47	0
3	M3L	D	9	3	10, 11, 12	0.52	0	$9,\!14,\!16$	0.47	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	M3L	Н	9	3	-	1/9/10/12	-
3	M3L	D	9	3	-	1/9/10/12	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:



Mol	Chain	\mathbf{Res}	Type	Atoms
3	Н	9	M3L	O-C-CA-CB
3	D	9	M3L	CG-CD-CE-NZ

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	Η	9	M3L	1	0
3	D	9	M3L	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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).

Γ	Mol	Type	Chain	Res	Link	B	ond leng	gths	Bond angles		
		туре	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
	4	FLC	С	601	-	3,12,12	1.44	0	$3,\!17,\!17$	2.76	2(66%)

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.

\mathbb{N}	/lol	Type	Chain	Res	Link	Chirals	Torsions	Rings
	4	FLC	С	601	-	-	3/6/16/16	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:



Mol	Chain	\mathbf{Res}	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
4	С	601	FLC	CB-CA-CAC	-3.95	108.66	114.98
4	С	601	FLC	CB-CG-CGC	-2.57	110.87	114.98

There are no chirality outliers.

All (3) torsion outliers are listed below:

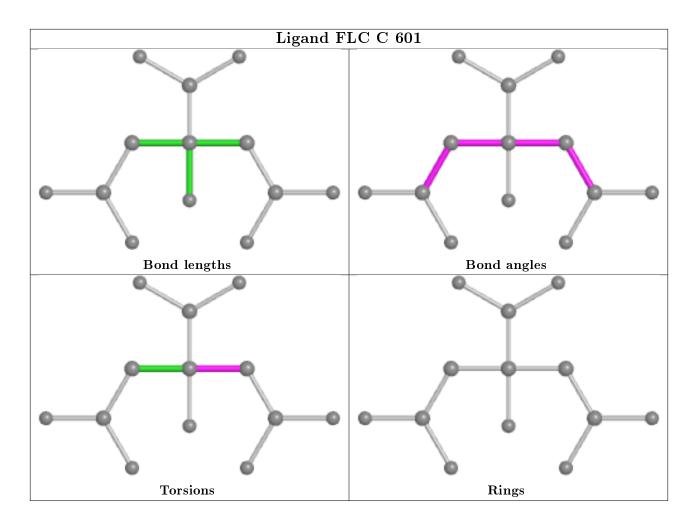
Mol	Chain	\mathbf{Res}	Type	Atoms
4	С	601	FLC	CA-CB-CG-CGC
4	С	601	FLC	CBC-CB-CG-CGC
4	С	601	FLC	OHB-CB-CG-CGC

There are no ring outliers.

No monomer is involved in short contacts.

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 then 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 $>$	$\# RSRZ {>}2$	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	77/77~(100%)	-0.31	0 100 100	47, 77, 101, 145	0
1	В	76/77~(98%)	0.05	2(2%) 56 27	55,106,151,195	0
1	Ε	77/77~(100%)	-0.19	1 (1%) 77 51	$50,\ 77,\ 107,\ 164$	0
1	F	76/77~(98%)	0.04	1 (1%) 77 51	68,108,151,182	0
2	С	226/247~(91%)	-0.22	0 100 100	43, 71, 123, 158	0
2	G	242/247~(97%)	-0.13	2 (0%) 86 65	46, 77, 126, 173	0
3	D	17/26~(65%)	0.07	0 100 100	63, 78, 147, 174	0
3	Н	18/26~(69%)	0.06	0 100 100	73, 92, 139, 143	0
All	All	809/854~(94%)	-0.14	6 (0%) 87 68	43,80,137,195	0

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	В	74	ARG	2.8
1	Е	76	CYS	2.5
2	G	574	PHE	2.4
1	В	20	SER	2.1
1	F	74	ARG	2.1

6.2 Non-standard residues in protein, DNA, RNA chains (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, 95^{th} 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	\mathbf{Res}	Atoms	RSCC	RSR	${f B} ext{-factors}({ m \AA}^2)$	Q<0.9
3	M3L	Η	9	12/13	0.96	0.33	$48,\!65,\!75,\!81$	0



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B} ext{-factors}({ m \AA}^2)$	$\mathbf{Q}{<}0.9$
3	M3L	D	9	12/13	0.98	0.27	$54,\!64,\!68,\!72$	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

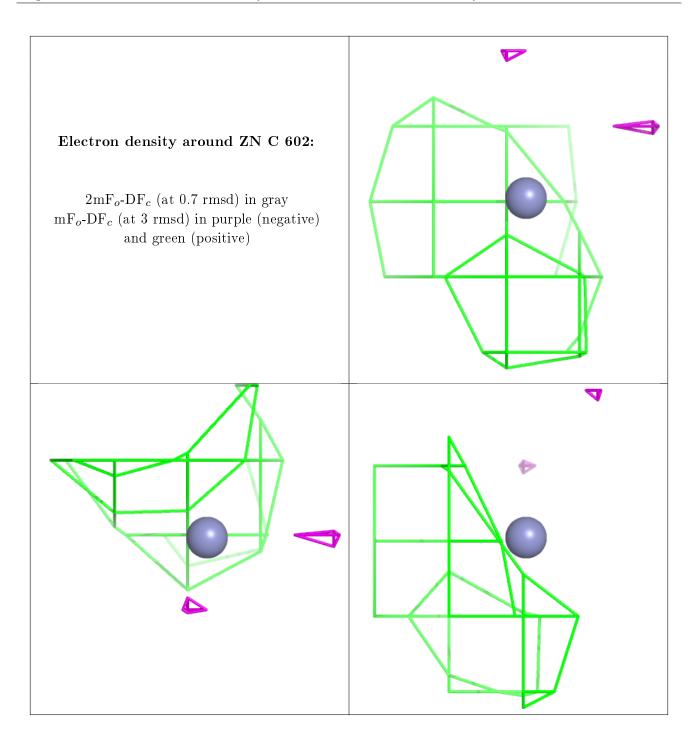
6.4 Ligands (i)

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, 95^{th} 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.

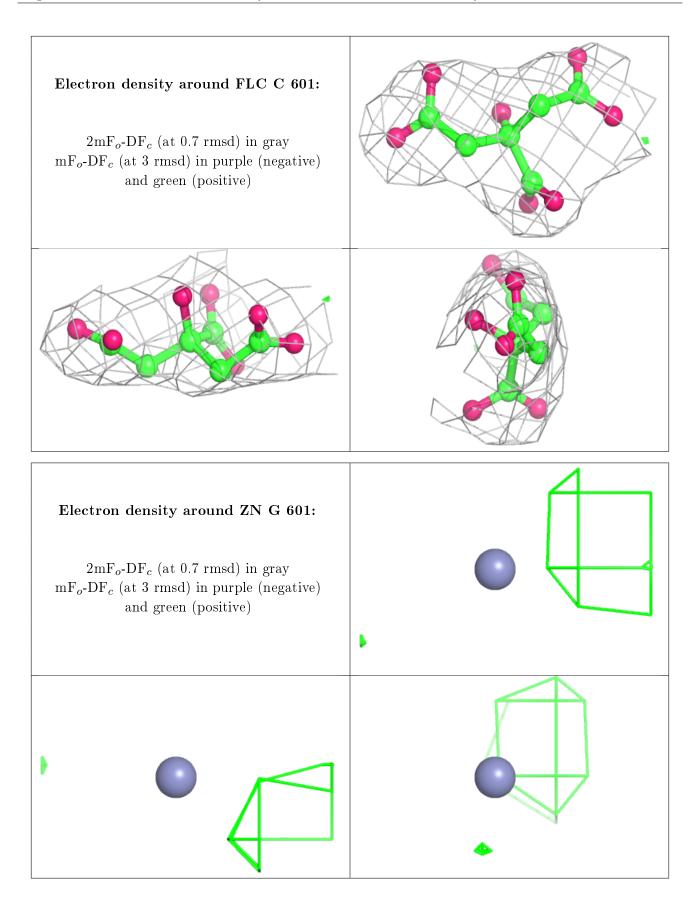
Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B} ext{-factors}({ m \AA}^2)$	$Q{<}0.9$
5	ZN	С	602	1/1	0.76	0.18	88,88,88,88	0
4	FLC	С	601	13/13	0.96	0.21	$56,\!69,\!93,\!97$	0
5	ZN	G	601	1/1	0.98	0.17	$74,\!74,\!74,\!74$	0

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.

