



# Full wwPDB X-ray Structure Validation Report ⓘ

May 27, 2020 – 02:01 am BST

PDB ID : 6JZW  
Title : Crystal structure of SufU from *Bacillus subtilis* with Cys persulfurated  
Authors : Fujishiro, T.; Takahashi, Y.  
Deposited on : 2019-05-04  
Resolution : 2.64 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

<https://www.wwpdb.org/validation/2017/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 : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.11  
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) : 2.11

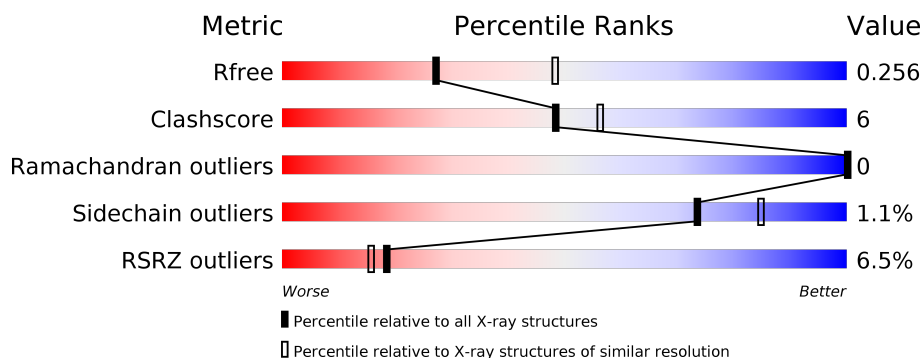
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.64 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	1426 (2.66-2.62)
Clashscore	141614	1472 (2.66-2.62)
Ramachandran outliers	138981	1446 (2.66-2.62)
Sidechain outliers	138945	1446 (2.66-2.62)
RSRZ outliers	127900	1408 (2.66-2.62)

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 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	155	<div> <div>3%</div> <div> <div></div> <div>77%</div> <div>15%</div> <div>8%</div> </div> </div>
1	B	155	<div> <div>10%</div> <div> <div></div> <div>75%</div> <div>13%</div> <div>11%</div> </div> </div>
2	C	155	<div> <div>4%</div> <div> <div></div> <div>81%</div> <div>11%</div> <div>8%</div> </div> </div>
2	D	155	<div> <div>6%</div> <div> <div></div> <div>73%</div> <div>12%</div> <div>15%</div> </div> </div>

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4268 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 Zinc-dependent sulfurtransferase SufU.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	142	Total	C	N	O	S	0	0	0
			1089	675	184	218	12			
1	B	138	Total	C	N	O	S	0	0	0
			1054	652	179	211	12			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	148	LEU	-	expression tag	UNP O32163
A	149	GLU	-	expression tag	UNP O32163
A	150	HIS	-	expression tag	UNP O32163
A	151	HIS	-	expression tag	UNP O32163
A	152	HIS	-	expression tag	UNP O32163
A	153	HIS	-	expression tag	UNP O32163
A	154	HIS	-	expression tag	UNP O32163
A	155	HIS	-	expression tag	UNP O32163
B	148	LEU	-	expression tag	UNP O32163
B	149	GLU	-	expression tag	UNP O32163
B	150	HIS	-	expression tag	UNP O32163
B	151	HIS	-	expression tag	UNP O32163
B	152	HIS	-	expression tag	UNP O32163
B	153	HIS	-	expression tag	UNP O32163
B	154	HIS	-	expression tag	UNP O32163
B	155	HIS	-	expression tag	UNP O32163

- Molecule 2 is a protein called Zinc-dependent sulfurtransferase SufU.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	142	Total	C	N	O	S	0	0	0
			1090	675	184	218	13			
2	D	132	Total	C	N	O	S	0	0	0
			1005	622	173	197	13			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	148	LEU	-	expression tag	UNP O32163
C	149	GLU	-	expression tag	UNP O32163
C	150	HIS	-	expression tag	UNP O32163
C	151	HIS	-	expression tag	UNP O32163
C	152	HIS	-	expression tag	UNP O32163
C	153	HIS	-	expression tag	UNP O32163
C	154	HIS	-	expression tag	UNP O32163
C	155	HIS	-	expression tag	UNP O32163
D	148	LEU	-	expression tag	UNP O32163
D	149	GLU	-	expression tag	UNP O32163
D	150	HIS	-	expression tag	UNP O32163
D	151	HIS	-	expression tag	UNP O32163
D	152	HIS	-	expression tag	UNP O32163
D	153	HIS	-	expression tag	UNP O32163
D	154	HIS	-	expression tag	UNP O32163
D	155	HIS	-	expression tag	UNP O32163

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by author).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total Zn 1 1	0	0
3	A	1	Total Zn 1 1	0	0
3	D	1	Total Zn 1 1	0	0
3	C	1	Total Zn 1 1	0	0

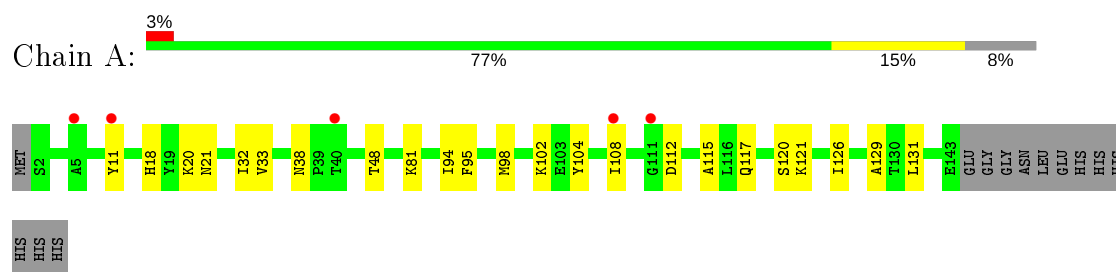
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total O 1 1	0	0
4	B	6	Total O 6 6	0	0
4	C	6	Total O 6 6	0	0
4	D	13	Total O 13 13	0	0

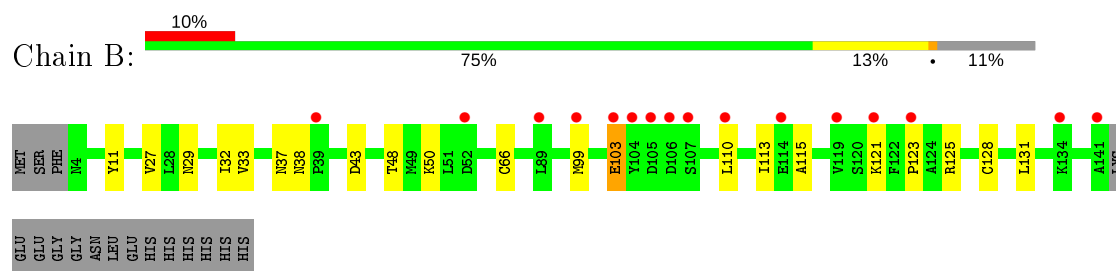
### 3 Residue-property plots [i](#)

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.

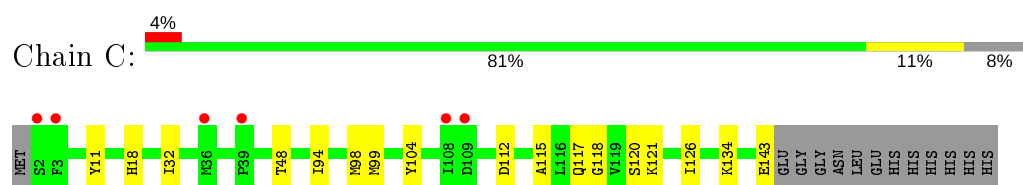
- Molecule 1: Zinc-dependent sulfurtransferase SufU



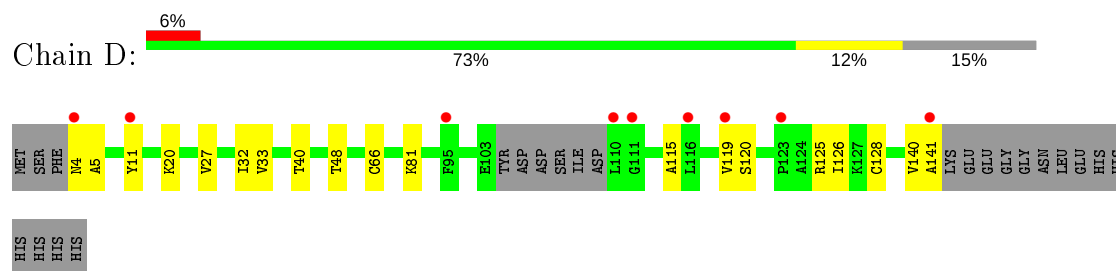
- Molecule 1: Zinc-dependent sulfurtransferase SufU



- Molecule 2: Zinc-dependent sulfurtransferase SufU



- Molecule 2: Zinc-dependent sulfurtransferase SufU



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	146.69Å 35.52Å 105.22Å 90.00° 96.41° 90.00°	Depositor
Resolution (Å)	44.92 – 2.64 44.92 – 2.64	Depositor EDS
% Data completeness (in resolution range)	99.6 (44.92-2.64) 99.8 (44.92-2.64)	Depositor EDS
$R_{merge}$	0.13	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	5.65 (at 2.65Å)	Xtriage
Refinement program	PHENIX 1.14 _3260	Depositor
R, $R_{free}$	0.242 , 0.257 0.242 , 0.256	Depositor DCC
$R_{free}$ test set	818 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	55.0	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 63.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	4268	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 60.12 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.5960e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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 [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, CSS

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	0.30	0/1101	0.54	0/1475
1	B	0.30	0/1065	0.58	0/1428
2	C	0.30	0/1094	0.59	0/1464
2	D	0.30	0/1006	0.58	0/1344
All	All	0.30	0/4266	0.57	0/5711

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(added)	Clashes	Symm-Clashes
1	A	1089	0	1086	14	0
1	B	1054	0	1053	16	0
2	C	1090	0	1087	10	0
2	D	1005	0	1016	14	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	6	0	0	0	0
4	C	6	0	0	0	0
4	D	13	0	0	0	0
All	All	4268	0	4242	51	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 6.

All (51) 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:D:120:SER:HA	2:D:126:ILE:HD11	1.57	0.86
2:D:27:VAL:HG13	2:D:48:THR:HG21	1.74	0.68
1:A:94:ILE:HG23	1:A:104:TYR:HB2	1.77	0.66
1:B:38:ASN:HB3	1:B:131:LEU:HD13	1.76	0.66
2:C:94:ILE:HG23	2:C:104:TYR:HB2	1.77	0.66
1:A:120:SER:HA	1:A:126:ILE:HD11	1.78	0.65
2:C:98:MET:HG3	2:C:117:GLN:HG2	1.80	0.64
2:D:119:VAL:HG12	2:D:126:ILE:HD13	1.81	0.61
1:A:18:HIS:NE2	1:A:112:ASP:OD2	2.25	0.60
1:A:11:TYR:CD2	1:A:115:ALA:HA	2.39	0.57
2:C:120:SER:HA	2:C:126:ILE:HD11	1.88	0.56
2:C:118:GLY:O	2:C:121:LYS:HB2	2.06	0.54
1:B:33:VAL:HG22	1:B:48:THR:HG22	1.91	0.53
1:A:33:VAL:HG22	1:A:48:THR:HG22	1.90	0.53
1:A:20:LYS:O	2:D:81:LYS:HE2	2.09	0.53
1:B:103:GLU:O	1:B:103:GLU:HG3	2.09	0.53
2:C:18:HIS:NE2	2:C:112:ASP:OD2	2.31	0.52
1:B:110:LEU:HB3	1:B:113:ILE:HB	1.91	0.52
1:B:37:ASN:HA	1:B:43:ASP:O	2.10	0.51
2:D:4:ASN:OD1	2:D:5:ALA:N	2.43	0.51
2:C:99:MET:HB3	2:C:126:ILE:HD12	1.94	0.50
1:A:81:LYS:NZ	2:D:20:LYS:O	2.37	0.49
1:A:38:ASN:HB2	1:A:131:LEU:HD13	1.94	0.49
2:D:33:VAL:HG22	2:D:48:THR:HG22	1.94	0.49
2:C:11:TYR:CD2	2:C:115:ALA:HA	2.49	0.47
2:D:32:ILE:O	2:D:48:THR:HA	2.15	0.47
1:B:32:ILE:O	1:B:48:THR:HA	2.14	0.47
2:D:66:CYS:HB2	2:D:125:ARG:HH12	1.80	0.47
2:D:66:CYS:SG	2:D:125:ARG:NH1	2.88	0.46
1:B:121:LYS:O	1:B:123:PRO:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:140:VAL:HG23	2:D:141:ALA:H	1.81	0.45
1:B:29:ASN:O	1:B:50:LYS:HE2	2.17	0.45
1:B:99:MET:CE	1:B:99:MET:HA	2.47	0.45
2:D:11:TYR:CD1	2:D:115:ALA:HA	2.52	0.45
1:B:11:TYR:CD1	1:B:115:ALA:HA	2.53	0.44
1:B:125:ARG:O	1:B:128:CYS:HB2	2.18	0.44
2:C:98:MET:HG2	2:C:99:MET:HE2	2.00	0.44
2:C:32:ILE:O	2:C:48:THR:HA	2.18	0.43
1:A:21:ASN:OD1	2:D:81:LYS:HD3	2.18	0.43
2:D:125:ARG:O	2:D:128:CYS:HB2	2.18	0.43
1:B:27:VAL:HG13	1:B:48:THR:HG21	1.99	0.43
2:C:134:LYS:HA	2:C:134:LYS:HD3	1.73	0.43
1:A:95:PHE:HZ	1:A:129:ALA:HB1	1.84	0.43
1:A:98:MET:HG3	1:A:117:GLN:HG3	2.01	0.42
1:B:38:ASN:O	1:B:38:ASN:OD1	2.38	0.42
1:B:66:CYS:HB2	1:B:125:ARG:HH22	1.85	0.41
1:A:121:LYS:HA	1:A:121:LYS:HD3	1.82	0.41
1:A:32:ILE:O	1:A:48:THR:HA	2.19	0.41
1:A:11:TYR:CE2	1:A:115:ALA:HA	2.56	0.41
1:B:11:TYR:CE1	1:B:115:ALA:HA	2.56	0.41
1:B:121:LYS:HD3	1:B:121:LYS:HA	1.81	0.41

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	140/155 (90%)	136 (97%)	4 (3%)	0	100	100
1	B	136/155 (88%)	132 (97%)	4 (3%)	0	100	100
2	C	139/155 (90%)	136 (98%)	3 (2%)	0	100	100
2	D	127/155 (82%)	124 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	542/620 (87%)	528 (97%)	14 (3%)	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	121/132 (92%)	119 (98%)	2 (2%)	60	76
1	B	117/132 (89%)	116 (99%)	1 (1%)	78	88
2	C	120/131 (92%)	119 (99%)	1 (1%)	81	89
2	D	110/131 (84%)	109 (99%)	1 (1%)	78	88
All	All	468/526 (89%)	463 (99%)	5 (1%)	73	85

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

Mol	Chain	Res	Type
1	A	102	LYS
1	A	108	ILE
1	B	103	GLU
2	C	143	GLU
2	D	40	THR

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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
2	CSS	D	41	3,2	4,6,7	1.09	0	1,6,8	0.71	0
2	CSS	C	41	3,2	4,6,7	1.07	0	1,6,8	0.66	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
2	CSS	D	41	3,2	-	0/1/5/7	-
2	CSS	C	41	3,2	-	0/1/5/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 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	142/155 (91%)	0.48	5 (3%) 44 40	38, 65, 107, 133	0
1	B	138/155 (89%)	0.56	16 (11%) 4 3	38, 60, 111, 123	0
2	C	141/155 (90%)	0.50	6 (4%) 35 31	39, 66, 100, 125	0
2	D	131/155 (84%)	0.48	9 (6%) 16 13	36, 56, 100, 124	0
All	All	552/620 (89%)	0.51	36 (6%) 18 16	36, 63, 105, 133	0

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	119	VAL	6.2
1	B	107	SER	5.3
1	B	106	ASP	4.6
1	B	104	TYR	4.4
1	A	108	ILE	3.3
2	D	119	VAL	3.1
1	B	141	ALA	2.8
2	D	110	LEU	2.8
1	A	111	GLY	2.7
1	A	40	THR	2.6
1	B	123	PRO	2.5
1	B	103	GLU	2.5
1	B	110	LEU	2.5
2	D	111	GLY	2.5
1	B	39	PRO	2.4
1	B	114	GLU	2.4
2	D	123	PRO	2.4
1	A	5	ALA	2.4
2	C	3	PHE	2.4
2	C	108	ILE	2.4
2	C	36	MET	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	11	TYR	2.3
2	D	95	PHE	2.3
2	D	141	ALA	2.3
1	B	121	LYS	2.2
1	B	99	MET	2.2
1	B	89	LEU	2.2
2	D	11	TYR	2.1
2	C	109	ASP	2.1
2	C	2	SER	2.1
1	B	52	ASP	2.1
2	C	39	PRO	2.0
2	D	4	ASN	2.0
1	B	105	ASP	2.0
2	D	116	LEU	2.0
1	B	134	LYS	2.0

## 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<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	B-factors(Å <sup>2</sup> )	Q<0.9
2	CSS	C	41	7/8	0.86	0.26	97,100,103,103	0
2	CSS	D	41	7/8	0.93	0.14	80,83,86,88	0

## 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. 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.

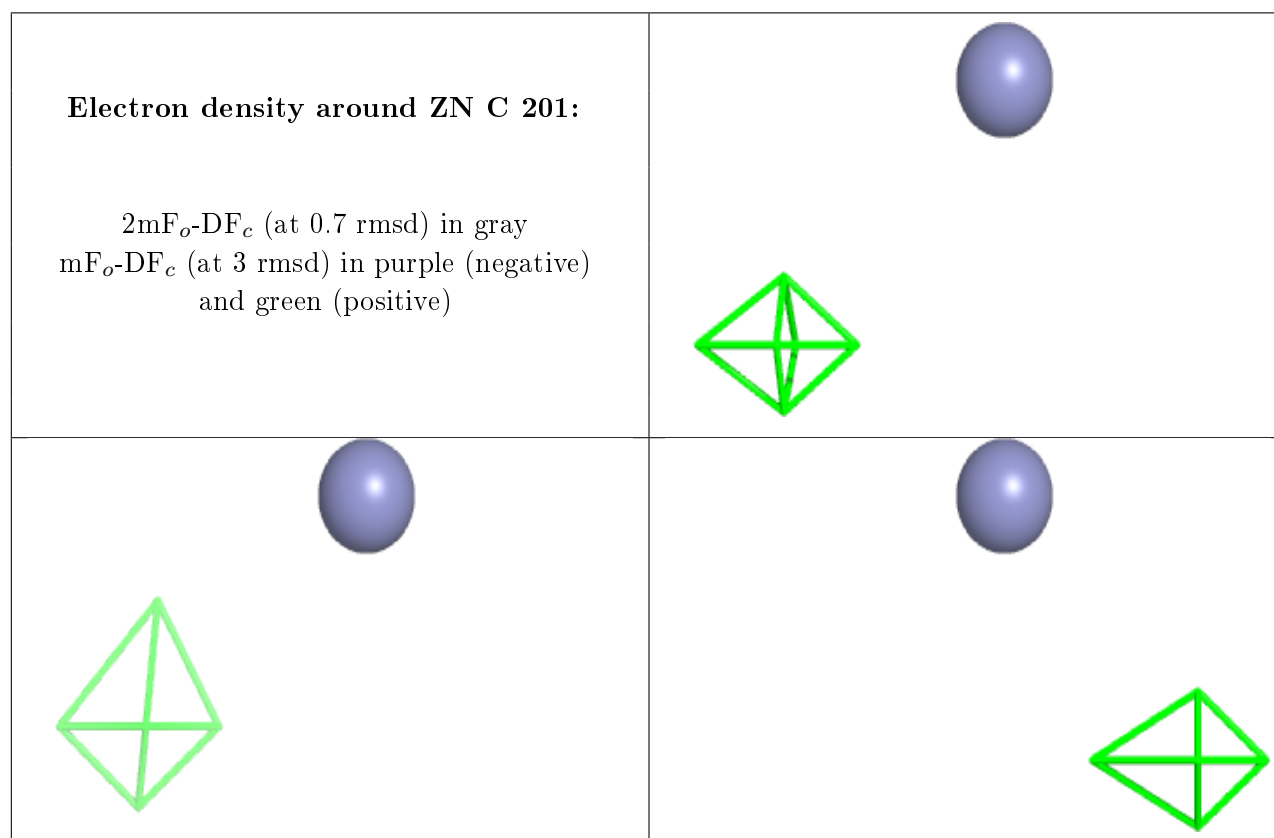
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	ZN	C	201	1/1	0.96	0.10	61,61,61,61	0

*Continued on next page...*

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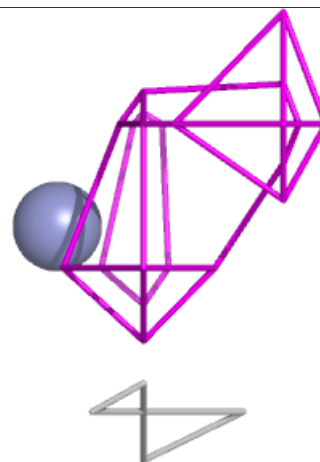
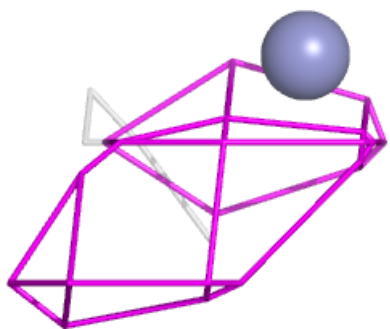
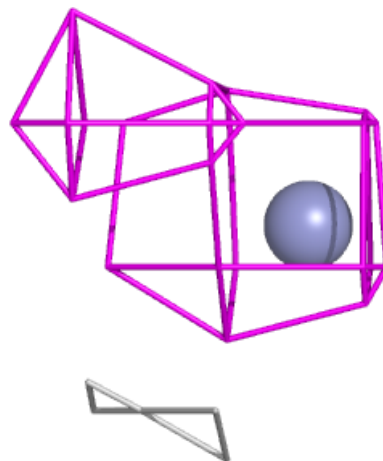
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	ZN	D	201	1/1	0.97	0.10	56,56,56,56	0
3	ZN	B	201	1/1	0.98	0.11	55,55,55,55	0
3	ZN	A	201	1/1	0.99	0.10	63,63,63,63	0

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.

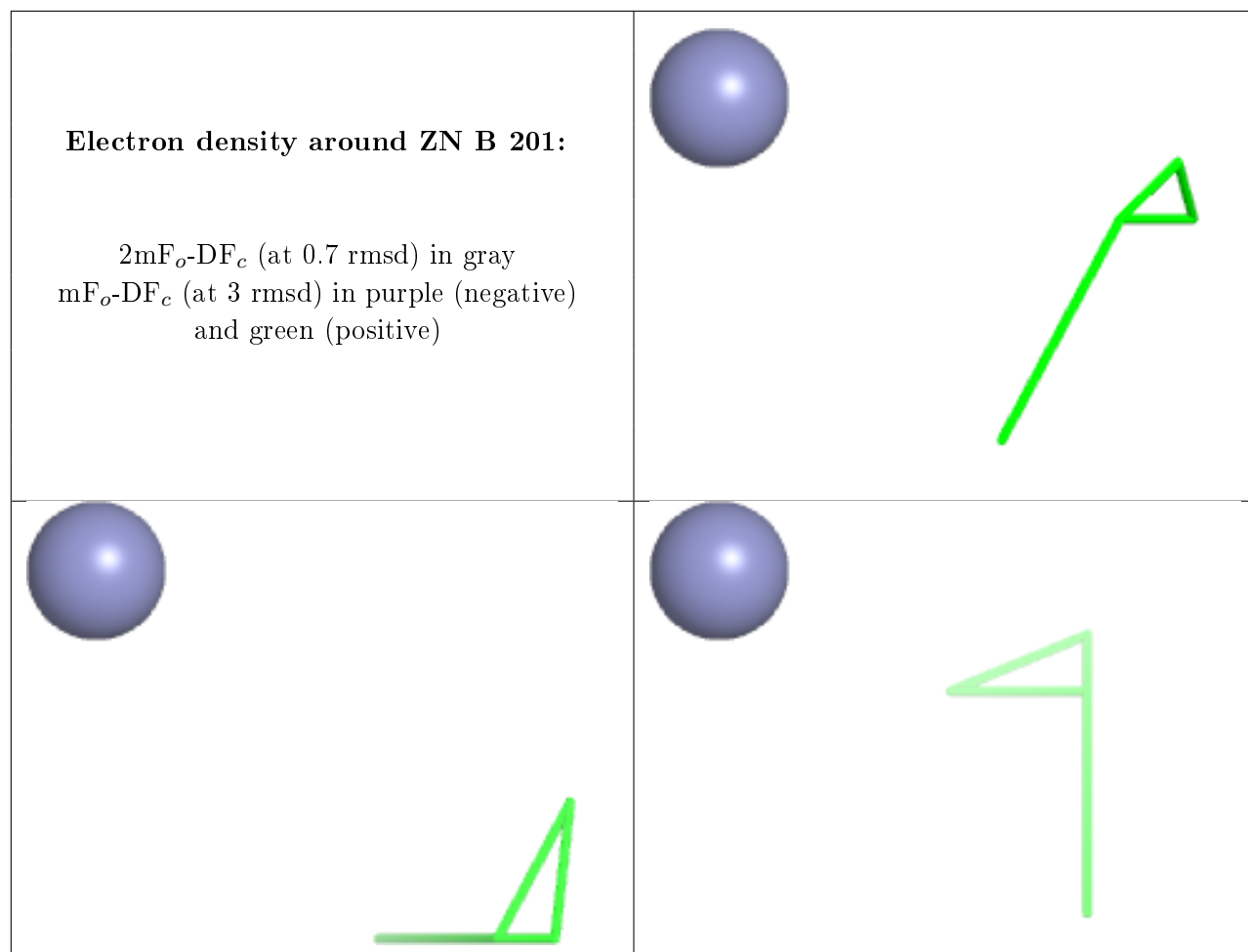


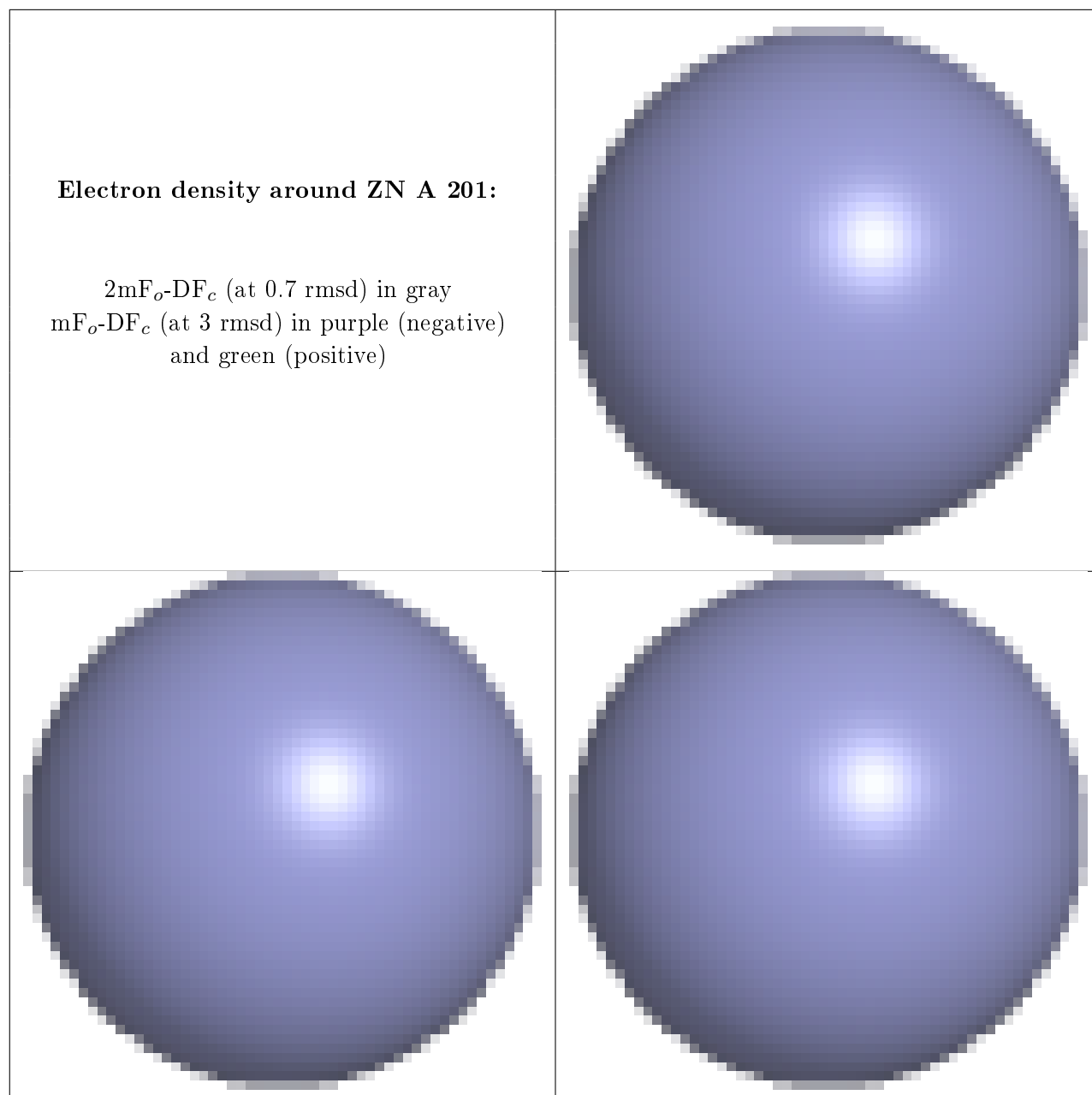
**Electron density around ZN D 201:**

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









## 6.5 Other polymers ⓘ

There are no such residues in this entry.