

wwPDB X-ray Structure Validation Summary Report (i)

Jan 6, 2024 – 08:02 pm GMT

PDB ID : 5OFS

Title: X-ray structure of a zinc binding GB1 mutant

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Deposited on : 2017-07-11

Resolution : 1.10 Å(reported)

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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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

MolProbity: 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS: 2.36

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)

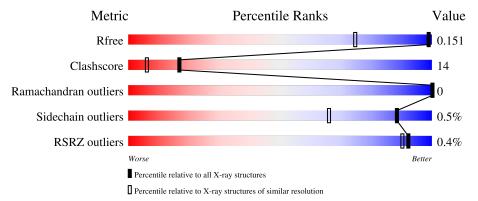
Validation Pipeline (wwPDB-VP) : 2.36

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 1.10 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar \ resolution} \\ (\#{\rm Entries, \ resolution \ range(\AA)}) \end{array}$
R_{free}	130704	1619 (1.14-1.06)
Clashscore	141614	1671 (1.14-1.06)
Ramachandran outliers	138981	1615 (1.14-1.06)
Sidechain outliers	138945	1613 (1.14-1.06)
RSRZ outliers	127900	1588 (1.14-1.06)

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 of 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	56	88%	9%	•••
1	В	56	88%	11%	
1	С	56	82%	14%	•
1	D	56	82%	14%	•

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
3	ACT	A	103	-	-	X	-
3	ACT	A	104	-	-	X	-
4	EDO	С	103	-	-	X	-
5	MPD	В	102[B]	-	-	X	-



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 2176 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 Immunoglobulin G-binding protein G.

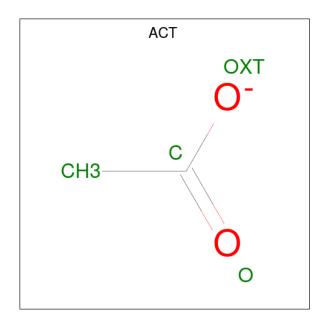
Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace
1	Λ	56	Total	С	N	О	S	0	4	0
1	A	50	468	299	72	96	1	0	4	U
1	В	56	Total	С	N	О	S	0	2	0
1	Ъ	30	460	295	72	92	1			
1	С	56	Total	С	N	О	S	0	3	0
1		30	463	296	72	94	1		3	
1	D	56	Total	С	N	О	S	0	9	0
1	D	50	493	324	73	95	1	0		U

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	$\begin{array}{cc} \text{Total} & \text{Zn} \\ 2 & 2 \end{array}$	0	0
2	В	1	Total Zn 1 1	0	0
2	С	1	Total Zn 1 1	0	0
2	D	2	$\begin{array}{cc} \text{Total} & \text{Zn} \\ 2 & 2 \end{array}$	0	0

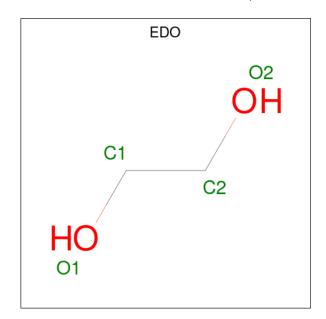
• Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	D	1	Total C O 4 2 2	0	0

 \bullet Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $\mathrm{C_2H_6O_2}).$



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 4	C 2	O 2	0	0

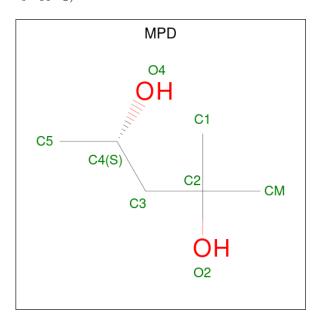
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	С	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0

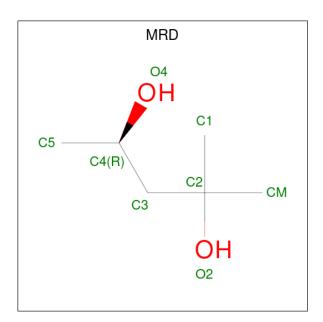
• Molecule 5 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total C O 16 12 4	0	1
5	С	1	Total C O 8 6 2	0	0

 \bullet Molecule 6 is (4R)-2-METHYLPENTANE-2,4-DIOL (three-letter code: MRD) (formula: $C_6H_{14}O_2).$



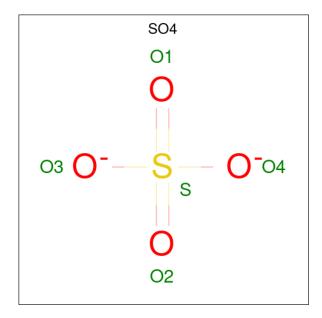


Mol	Chain	Residues	Aton	ns	ZeroOcc	AltConf
6	D	1	Total (C O 6 2	0	0

 \bullet Molecule 7 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	D	2	Total Cl 2 2	0	0

 \bullet Molecule 8 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$





	Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
Ī	8	D	1	Total 5	O 4	S 1	0	0

• Molecule 9 is water.

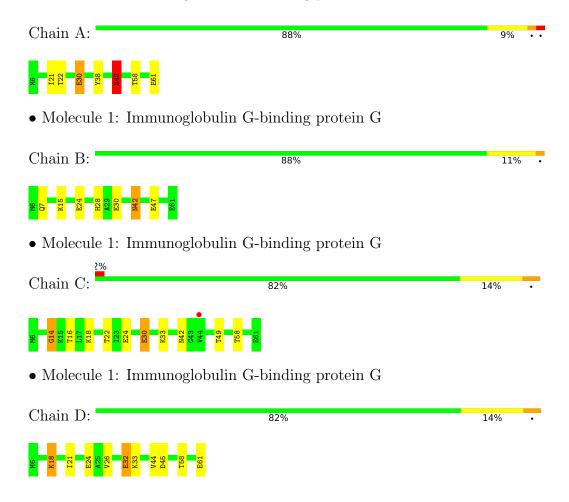
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	50	Total O 50 50	0	0
9	В	46	Total O 46 46	0	0
9	С	49	Total O 49 49	0	0
9	D	70	Total O 70 70	0	0



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: Immunoglobulin G-binding protein G





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	74.45Å 75.62Å 51.15Å	Domositon
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.37 - 1.10	Depositor
Resolution (A)	42.37 - 1.10	EDS
% Data completeness	96.0 (42.37-1.10)	Depositor
(in resolution range)	96.0 (42.37-1.10)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.66 (at 1.10Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
D D	0.125 , 0.145	Depositor
R, R_{free}	0.133 , 0.151	DCC
R_{free} test set	5615 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor (Å ²)	7.9	Xtriage
Anisotropy	1.415	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.38, 54.9	EDS
L-test for twinning ²	$< L >=0.47, < L^2>=0.30$	Xtriage
Estimated twinning fraction	0.029 for k,h,-l	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	2176	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.96% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



 $^{^1 {\}rm Intensities}$ 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: CL, SO4, ACT, EDO, MRD, ZN, MPD

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).

Mal	Chain	Bo	nd lengths	Bond angles		
IVIOI	Mol Chain		# Z > 5	RMSZ	# Z >5	
1	A	1.35	6/489~(1.2%)	0.64	0/661	
1	В	1.31	4/475~(0.8%)	0.66	0/640	
1	С	1.96	8/481 (1.7%)	0.67	0/650	
1	D	1.44	5/529~(0.9%)	0.75	0/714	
All	All	1.53	23/1974 (1.2%)	0.68	0/2665	

The worst 5 of 23 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\textup{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	С	30	GLU	CD-OE1	18.81	1.46	1.25
1	С	24	GLU	CD-OE1	14.39	1.41	1.25
1	С	30	GLU	CG-CD	14.35	1.73	1.51
1	С	24	GLU	CD-OE2	-13.19	1.11	1.25
1	В	47	GLU	CB-CG	-10.12	1.32	1.52

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	468	0	449	14	0
1	В	460	0	445	6	1

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Mol	Chain	Non-H	H(model)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	С	463	0	445	7	0
1	D	493	0	509	10	1
2	A	2	0	0	0	0
2	В	1	0	0	0	0
2	С	1	0	0	0	0
2	D	2	0	0	0	0
3	A	8	0	6	8	0
3	D	4	0	3	0	0
4	A	4	0	6	0	0
4	С	4	0	6	8	0
4	D	12	0	17	0	0
5	В	16	0	28	7	0
5	С	8	0	14	5	0
6	D	8	0	14	0	0
7	D	2	0	0	0	0
8	D	5	0	0	1	0
9	A	50	0	0	2	2
9	В	46	0	0	5	1
9	С	49	0	0	13	1
9	D	70	0	0	7	2
All	All	2176	0	1942	55	4

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 14.

The worst 5 of 55 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:42:ASN:CA	1:A:42:ASN:CB	1.74	1.64
5:B:102[B]:MPD:H53	5:B:102[B]:MPD:C1	1.43	1.33
5:B:102[B]:MPD:H11	5:B:102[B]:MPD:C5	1.47	1.25
1:B:7:GLN:HB2	9:B:202:HOH:O	1.04	1.21
1:A:30:GLU:HB2	9:A:236:HOH:O	1.00	1.15

All (4) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:D:32:GLU:OE1	9:A:237:HOH:O[3_444]	1.72	0.48
1:B:42:ASN:CB	9:C:203:HOH:O[4_455]	1.96	0.24

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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
9:B:237:HOH:O	9:D:239:HOH:O[3_455]	2.03	0.17
9:A:239:HOH:O	9:D:207:HOH:O[3_454]	2.11	0.09

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	Percei	ntiles
1	A	58/56 (104%)	57 (98%)	1 (2%)	0	100	100
1	В	56/56 (100%)	56 (100%)	0	0	100	100
1	\mathbf{C}	57/56 (102%)	56 (98%)	1 (2%)	0	100	100
1	D	63/56 (112%)	61 (97%)	2 (3%)	0	100	100
All	All	234/224 (104%)	230 (98%)	4 (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	A	51/47 (108%)	50 (98%)	1 (2%)	55 16
1	В	49/47 (104%)	49 (100%)	0	100 100
1	С	50/47 (106%)	50 (100%)	0	100 100
1	D	56/47 (119%)	56 (100%)	0	100 100
All	All	206/188 (110%)	205 (100%)	1 (0%)	88 66



All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	42	ASN

Sometimes 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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 21 ligands modelled in this entry, 8 are monoatomic - leaving 13 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	В	ond leng	$_{ m gths}$	Bond angles		
IVIOI	туре	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EDO	С	103	-	3,3,3	1.01	0	2,2,2	0.28	0
4	EDO	A	105	-	3,3,3	1.25	1 (33%)	2,2,2	0.37	0
4	EDO	D	108	-	3,3,3	0.43	0	2,2,2	0.35	0
3	ACT	D	107	-	3,3,3	0.36	0	3,3,3	0.87	0
5	MPD	С	102	-	7,7,7	1.22	1 (14%)	9,10,10	0.58	0
8	SO4	D	106	-	4,4,4	4.05	3 (75%)	6,6,6	1.10	0
4	EDO	D	109	-	3,3,3	0.49	0	2,2,2	0.32	0
6	MRD	D	103	-	7,7,7	1.12	1 (14%)	9,10,10	0.82	0



Mol	Type	Chain	Res	Res Link	Bond lengths			Bond angles		
MIOI					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	MPD	В	102[B]	-	7,7,7	1.09	0	9,10,10	0.37	0
4	EDO	D	110	-	3,3,3	1.29	0	2,2,2	0.86	0
3	ACT	A	104	-	3,3,3	1.25	0	3,3,3	0.83	0
3	ACT	A	103	-	3,3,3	1.45	1 (33%)	3,3,3	0.75	0
5	MPD	В	102[A]	-	7,7,7	0.76	0	9,10,10	0.40	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
4	EDO	С	103	_	-	0/1/1/1	-
4	EDO	A	105	-	-	0/1/1/1	-
4	EDO	D	108	-	-	1/1/1/1	-
5	MPD	С	102	-	-	1/5/5/5	-
4	EDO	D	109	-	-	1/1/1/1	-
6	MRD	D	103	-	-	1/5/5/5	-
5	MPD	В	102[B]	-	-	1/5/5/5	-
4	EDO	D	110	-	-	0/1/1/1	-
5	MPD	В	102[A]	-	-	0/5/5/5	-

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
8	D	106	SO4	O1-S	5.93	1.78	1.46
8	D	106	SO4	O2-S	4.43	1.70	1.46
8	D	106	SO4	O4-S	2.93	1.72	1.47
5	С	102	MPD	C5-C4	-2.30	1.41	1.51
3	A	103	ACT	O-C	2.30	1.32	1.22

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

\mathbf{Mol}	Chain	Res	Type	Atoms
5	В	102[B]	MPD	C2-C3-C4-C5
4	D	109	EDO	O1-C1-C2-O2
6	D	103	MRD	O2-C2-C3-C4
5	С	102	MPD	C2-C3-C4-C5
4	D	108	EDO	O1-C1-C2-O2



There are no ring outliers.

6 monomers are involved in 29 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	С	103	EDO	8	0
5	С	102	MPD	5	0
8	D	106	SO4	1	0
5	В	102[B]	MPD	7	0
3	A	104	ACT	4	0
3	A	103	ACT	4	0

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, 95^{th} 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>	# RSRZ > 2	$OWAB(A^2)$	Q<0.9
1	A	56/56 (100%)	0.11	0 100 100	10, 14, 25, 27	0
1	В	56/56 (100%)	0.05	0 100 100	10, 15, 23, 31	0
1	С	56/56 (100%)	0.22	1 (1%) 68 65	10, 14, 29, 45	0
1	D	56/56 (100%)	0.16	0 100 100	10, 13, 23, 27	0
All	All	224/224 (100%)	0.14	1 (0%) 92 90	10, 14, 25, 45	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	С	44	VAL	4.5	

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 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	$ m B ext{-}factors(\AA^2)$	Q<0.9
4	EDO	A	105	4/4	0.67	0.13	30,32,32,41	0

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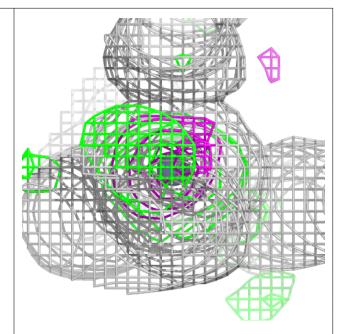
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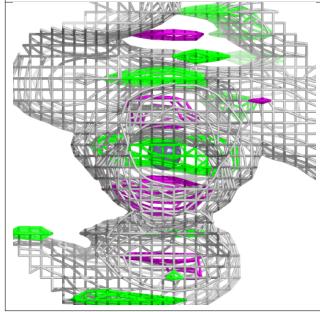
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
4	EDO	D	109	4/4	0.78	0.16	42,46,53,56	0
8	SO4	D	106	5/5	0.80	0.27	102,119,132,138	0
4	EDO	D	108	4/4	0.82	0.09	43,50,56,57	0
4	EDO	D	110	4/4	0.83	0.13	26,27,28,30	0
4	EDO	С	103	4/4	0.85	0.14	35,37,38,45	0
3	ACT	A	104	4/4	0.89	0.08	36,41,46,52	0
5	MPD	В	102[A]	8/8	0.90	0.20	17,20,22,27	8
5	MPD	В	102[B]	8/8	0.90	0.20	16,22,25,36	8
3	ACT	A	103	4/4	0.90	0.21	21,25,28,45	0
3	ACT	D	107	4/4	0.91	0.08	38,48,48,58	0
5	MPD	С	102	8/8	0.94	0.15	17,25,35,38	0
6	MRD	D	103	8/8	0.95	0.09	19,22,25,25	0
7	CL	D	105	1/1	0.99	0.10	11,11,11,11	0
2	ZN	В	101	1/1	1.00	0.09	10,10,10,10	0
2	ZN	С	101	1/1	1.00	0.07	10,10,10,10	0
2	ZN	D	101	1/1	1.00	0.07	11,11,11,11	0
2	ZN	D	102	1/1	1.00	0.06	10,10,10,10	0
7	CL	D	104	1/1	1.00	0.08	10,10,10,10	0
2	ZN	A	101	1/1	1.00	0.09	10,10,10,10	0
2	ZN	A	102	1/1	1.00	0.08	11,11,11,11	0

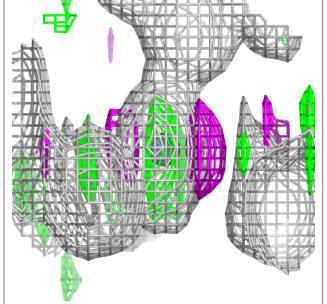
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



Electron density around ZN B 101:

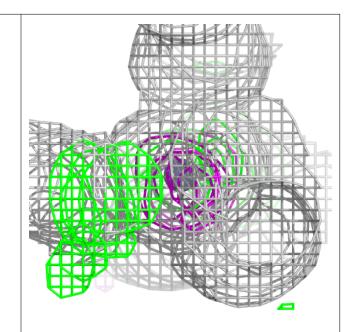


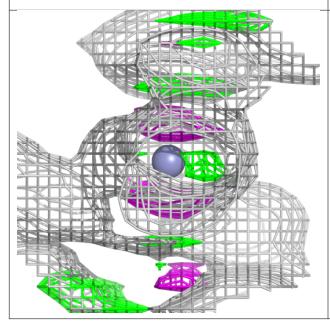


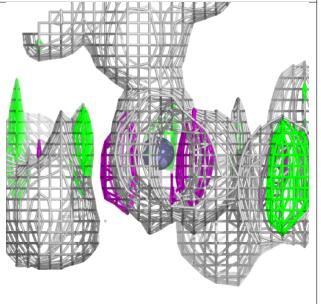




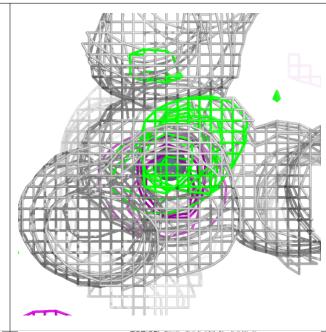
Electron density around ZN C 101:

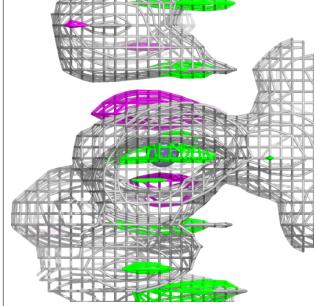


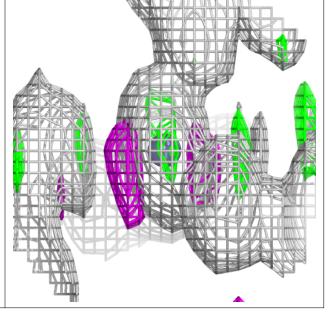




Electron density around ZN D 101:

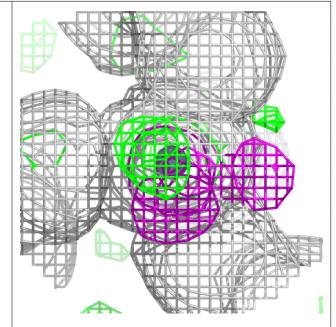


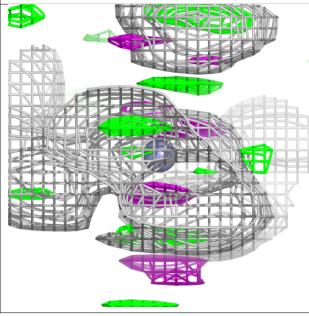


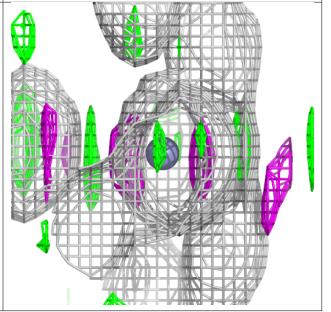




Electron density around ZN D 102:

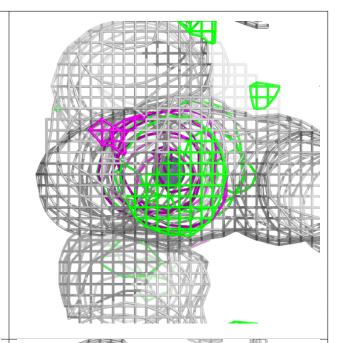


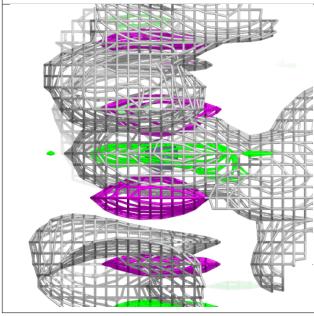


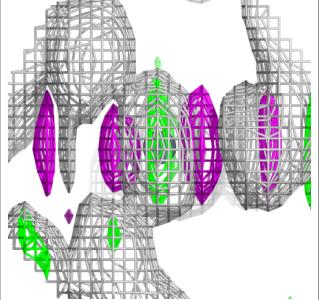




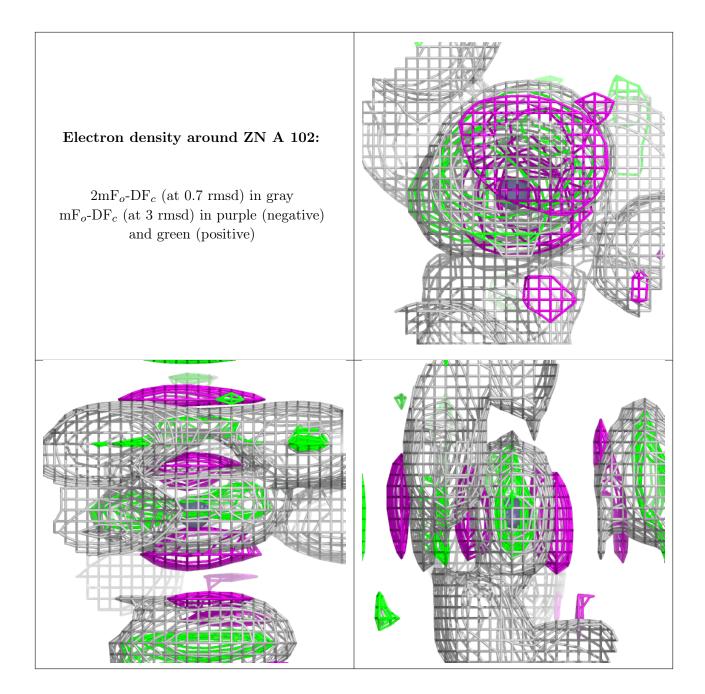
Electron density around ZN A 101:











6.5 Other polymers (i)

There are no such residues in this entry.

