

Full wwPDB X-ray Structure Validation Report (i)

Dec 12, 2022 – 12:08 pm GMT

PDB ID : 6SMK

Title : Crystal structure of catalytic domain A109H mutant of prophage-encoded M23

protein EnpA from Enterococcus faecalis.

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Deposited on : 2019-08-22

Resolution : 3.00 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
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:

 $\begin{array}{ccc} & Mol Probity & : & 4.02b\text{-}467 \\ Xtriage \left(Phenix\right) & : & 1.13 \end{array}$

EDS : 2.31.3 buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0267$

CCP4 : 7.1.010 (Gargrove) roteins) : Engh & Huber (2001)

Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

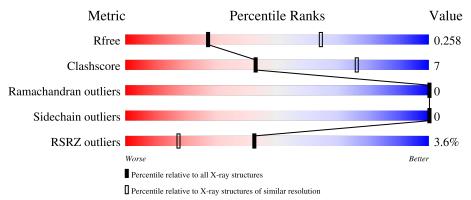
Validation Pipeline (wwPDB-VP) : 2.31.3

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 3.00 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\AA)}) \end{array}$
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 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	142	81%	11%	8%
			3%	1170	070
1	В	142	80%	11%	9%
1	С	142	77%	14%	9%
1	D	142	78%	13%	8%
1	Е	142	70%	20%	10%



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 4883 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 Peptidase M23 domain-containing protein.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace
1	Λ	130	Total	С	N	О	S	0	0	0
1	A	130	971	616	173	179	3	0	0	U
1	В	129	Total	С	N	О	S	0	0	0
1	Б	129	967	614	172	178	3	0	U	U
1	D	130	Total	С	N	О	S	0	0	0
1	D	130	971	616	173	179	3	0		
1	C	129	Total	С	N	О	S	0	0	0
1		129	967	614	172	178	3	0	0	U
1	Е	128	Total	С	N	О	S	0	0	0
1	12	120	963	612	171	177	3		U	U

There are 45 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q835A4
A	109	ALA	HIS	engineered mutation	UNP Q835A4
A	136	SER	-	expression tag	UNP Q835A4
A	137	HIS	-	expression tag	UNP Q835A4
A	138	HIS	-	expression tag	UNP Q835A4
A	139	HIS	-	expression tag	UNP Q835A4
A	140	HIS	-	expression tag	UNP Q835A4
A	141	HIS	-	expression tag	UNP Q835A4
A	142	HIS	-	expression tag	UNP Q835A4
В	1	MET	-	initiating methionine	UNP Q835A4
В	109	ALA	HIS	engineered mutation	UNP Q835A4
В	136	SER	-	expression tag	UNP Q835A4
В	137	HIS	-	expression tag	UNP Q835A4
В	138	HIS	-	expression tag	UNP Q835A4
В	139	HIS	-	expression tag	UNP Q835A4
В	140	HIS	-	expression tag	UNP Q835A4
В	141	HIS	-	expression tag	UNP Q835A4
В	142	HIS	-	expression tag	UNP Q835A4
D	1	MET	-	initiating methionine	UNP Q835A4



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Chain	Residue	Modelled	Actual	Comment	Reference
D	109	ALA	HIS	engineered mutation	UNP Q835A4
D	136	SER	-	expression tag	UNP Q835A4
D	137	HIS	-	expression tag	UNP Q835A4
D	138	HIS	-	expression tag	UNP Q835A4
D	139	HIS	-	expression tag	UNP Q835A4
D	140	HIS	-	expression tag	UNP Q835A4
D	141	HIS	-	expression tag	UNP Q835A4
D	142	HIS	-	expression tag	UNP Q835A4
С	1	MET	-	initiating methionine	UNP Q835A4
С	109	ALA	HIS	engineered mutation	UNP Q835A4
С	136	SER	-	expression tag	UNP Q835A4
С	137	HIS	-	expression tag	UNP Q835A4
С	138	HIS	-	expression tag	UNP Q835A4
С	139	HIS	-	expression tag	UNP Q835A4
С	140	HIS	-	expression tag	UNP Q835A4
С	141	HIS	-	expression tag	UNP Q835A4
С	142	HIS	-	expression tag	UNP Q835A4
E	1	MET	-	initiating methionine	UNP Q835A4
E	109	ALA	HIS	engineered mutation	UNP Q835A4
Е	136	SER	-	expression tag	UNP Q835A4
Е	137	HIS	-	expression tag	UNP Q835A4
Е	138	HIS	-	expression tag	UNP Q835A4
Е	139	HIS		expression tag	UNP Q835A4
Е	140	HIS	-	expression tag	UNP Q835A4
Е	141	HIS	-	expression tag	UNP Q835A4
Е	142	HIS	-	expression tag	UNP Q835A4

 \bullet 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	1	Total Zn 1 1	0	0
2	В	1	Total Zn 1 1	0	0
2	D	1	Total Zn 1 1	0	0
2	С	1	Total Zn 1 1	0	0
2	E	1	Total Zn 1 1	0	0

• Molecule 3 is water.



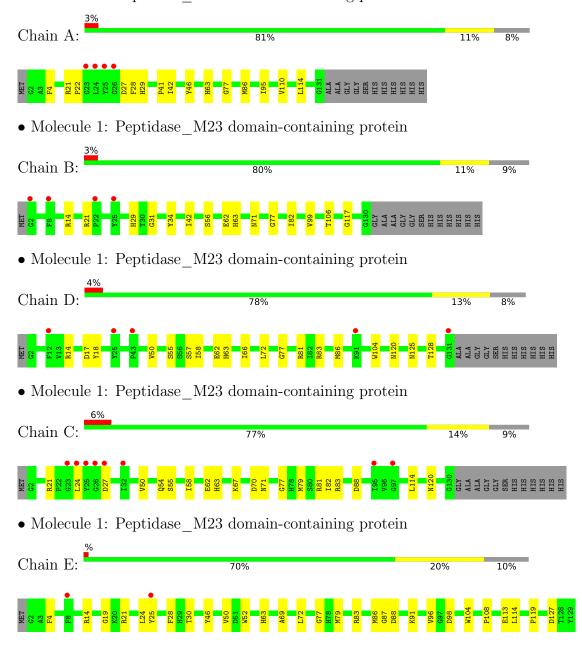
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	13	Total O 13 13	0	0
3	В	7	Total O 7 7	0	0
3	D	6	Total O 6 6	0	0
3	С	7	Total O 7 7	0	0
3	Е	6	Total O 6 6	0	0



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: Peptidase M23 domain-containing protein





GLY
ALA
ALA
ALA
GLY
GLY
GLY
SER
HIS
HIS
HIS
HIS



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants	136.47Å 136.47Å 325.04Å	Donogitor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.25 - 3.00	Depositor
Resolution (A)	49.25 - 3.00	EDS
% Data completeness	99.8 (49.25-3.00)	Depositor
(in resolution range)	99.9 (49.25-3.00)	EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.15 (at 3.01Å)	Xtriage
Refinement program	PHENIX	Depositor
D D.	0.225 , 0.259	Depositor
R, R_{free}	0.225 , 0.258	DCC
R_{free} test set	1841 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	97.0	Xtriage
Anisotropy	0.039	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$ < L > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4883	wwPDB-VP
Average B, all atoms (Å ²)	99.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.62% 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.



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

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	Mol Chain		lengths	Bond angles	
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.46	0/1003	0.60	0/1363
1	В	0.39	0/999	0.56	0/1358
1	С	0.42	0/999	0.57	0/1358
1	D	0.39	0/1003	0.57	0/1363
1	Е	0.39	0/995	0.56	0/1353
All	All	0.41	0/4999	0.57	0/6795

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	971	0	921	16	0
1	В	967	0	918	9	0
1	С	967	0	918	15	0
1	D	971	0	921	12	0
1	Е	963	0	915	18	0
2	A	1	0	0	0	0
2	В	1	0	0	0	0
2	С	1	0	0	0	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	1	0	0	0	0
2	Ε	1	0	0	0	0
3	A	13	0	0	0	0
3	В	7	0	0	0	0
3	С	7	0	0	0	0
3	D	6	0	0	0	0
3	Ε	6	0	0	0	0
All	All	4883	0	4593	64	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 7.

All (64) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	$ overlap (\AA) $
1:A:21:ARG:HB3	1:A:22:PRO:HD2	1.34	1.09
1:A:27:ASP:OD1	1:A:28:PHE:N	1.99	0.95
1:A:42:ILE:HD12	1:A:110:VAL:HG21	1.62	0.81
1:C:81:ARG:HD3	1:C:83:ARG:HE	1.52	0.75
1:A:21:ARG:HB3	1:A:22:PRO:CD	2.18	0.70
1:C:62:GLU:HB3	1:C:82:ILE:HD11	1.74	0.70
1:A:21:ARG:HD3	1:A:27:ASP:HB3	1.82	0.61
1:E:21:ARG:O	1:E:21:ARG:HG2	2.00	0.61
1:C:54:GLN:O	1:C:62:GLU:HA	2.04	0.58
1:E:52:TRP:CE3	1:E:119:PRO:HB2	2.38	0.57
1:C:24:LEU:H	1:C:24:LEU:HD22	1.69	0.57
1:A:42:ILE:HD11	1:A:110:VAL:HB	1.87	0.57
1:A:4:PHE:HB2	1:A:114:LEU:HD21	1.87	0.57
1:D:81:ARG:NH1	1:D:83:ARG:HH21	2.04	0.55
1:C:55:SER:HA	1:C:62:GLU:HG2	1.89	0.55
1:A:21:ARG:HH12	1:A:29:HIS:HD2	1.55	0.55
1:E:14:ARG:NH2	1:E:127:ASP:OD2	2.41	0.54
1:E:63:HIS:HB3	1:E:77:GLY:HA2	1.90	0.53
1:E:69:ALA:HB3	1:E:72:LEU:HB2	1.91	0.53
1:A:42:ILE:HD12	1:A:110:VAL:CG2	2.38	0.52
1:C:63:HIS:HB3	1:C:77:GLY:HA2	1.90	0.52
1:E:4:PHE:HB2	1:E:114:LEU:HD11	1.91	0.51
1:D:55:SER:HB3	1:D:62:GLU:OE2	2.11	0.50
1:C:67:LYS:NZ	1:C:70:ASP:HA	2.27	0.50
1:C:71:ASN:HB2	1:E:108:PRO:HD2	1.94	0.49
1:D:50:VAL:HG12	1:D:66:ILE:HG12	1.94	0.49



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Atom-1		Interatomic	Clash	
Atom-1	Atom-2	${\rm distance}({\rm \AA})$	overlap (Å)	
1:C:62:GLU:HB3	1:C:82:ILE:CD1	2.43	0.48	
1:D:125:ASN:OD1	1:D:128:THR:HG23	2.13	0.48	
1:A:63:HIS:HB3	1:A:77:GLY:HA2	1.97	0.47	
1:A:21:ARG:HH12	1:A:29:HIS:CD2	2.33	0.47	
1:D:72:LEU:HD12	1:D:72:LEU:HA	1.69	0.47	
1:C:50:VAL:CG1	1:C:88:ASP:H	2.27	0.47	
1:E:91:LYS:HE3	1:E:91:LYS:HB2	1.61	0.47	
1:B:42:ILE:HG12	1:B:99:VAL:HG23	1.97	0.47	
1:D:57:SER:O	1:D:58:ILE:HD13	2.15	0.46	
1:D:120:ASN:HB2	1:E:24:LEU:HD22	1.96	0.46	
1:B:21:ARG:HH12	1:B:29:HIS:CD2	2.34	0.46	
1:B:62:GLU:HG3	1:B:82:ILE:HD11	1.99	0.45	
1:D:50:VAL:HG23	1:D:86:MET:HA	1.97	0.45	
1:E:79:MET:CE	1:E:96:VAL:HG12	2.47	0.45	
1:A:41:PRO:HB2	1:A:95:ILE:HG13	1.99	0.45	
1:B:14:ARG:HB2	1:B:34:TYR:CE2	2.52	0.45	
1:D:104:TRP:CD1	1:E:104:TRP:CD1	3.05	0.45	
1:A:114:LEU:HA	1:A:114:LEU:HD12	1.72	0.44	
1:B:106:THR:HG22	1:C:58:ILE:HD12	2.00	0.44	
1:E:30:THR:OG1	1:E:113:GLU:OE1	2.28	0.43	
1:C:114:LEU:HD23	1:C:114:LEU:HA	1.84	0.43	
1:E:19:GLY:HA2	1:E:28:PHE:CZ	2.54	0.43	
1:C:79:MET:HE3	1:C:82:ILE:HA	2.00	0.43	
1:D:63:HIS:HB3	1:D:77:GLY:HA2	2.01	0.42	
1:E:86:MET:HG2	1:E:87:GLY:N	2.33	0.42	
1:C:120:ASN:HD21	1:E:25:TYR:HE2	1.68	0.42	
1:A:41:PRO:HB2	1:A:95:ILE:CG1	2.50	0.42	
1:A:86:MET:HE1	1:B:56:SER:C	2.40	0.42	
1:E:50:VAL:HG12	1:E:88:ASP:O	2.19	0.42	
1:B:63:HIS:HB3	1:B:77:GLY:HA2	2.02	0.41	
1:D:14:ARG:HD3	1:D:17:ASP:OD1	2.19	0.41	
1:E:4:PHE:HA	1:E:46:TYR:CZ	2.55	0.41	
1:E:83:ARG:NH2	1:E:98:ASP:OD2	2.53	0.41	
1:C:21:ARG:HD2	1:C:27:ASP:OD2	2.20	0.41	
1:A:4:PHE:HA	1:A:46:TYR:CZ	2.55	0.40	
1:B:71:ASN:OD1	1:B:117:GLY:N	2.39	0.40	
1:D:18:TYR:HB3	1:D:125:ASN:HD22	1.87	0.40	
1:B:29:HIS:ND1	1:B:31:GLY:O	2.55	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	Perce	ntiles
1	A	128/142 (90%)	121 (94%)	7 (6%)	0	100	100
1	В	127/142 (89%)	121 (95%)	6 (5%)	0	100	100
1	С	127/142 (89%)	119 (94%)	8 (6%)	0	100	100
1	D	128/142 (90%)	121 (94%)	7 (6%)	0	100	100
1	E	126/142 (89%)	120 (95%)	6 (5%)	0	100	100
All	All	636/710 (90%)	602 (95%)	34 (5%)	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	Perce	ntiles
1	A	97/105~(92%)	97 (100%)	0	100	100
1	В	97/105 (92%)	97 (100%)	0	100	100
1	С	97/105 (92%)	97 (100%)	0	100	100
1	D	97/105 (92%)	97 (100%)	0	100	100
1	Е	97/105 (92%)	97 (100%)	0	100	100
All	All	485/525 (92%)	485 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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



Mol	Chain	Res	Type
1	D	54	GLN
1	D	122	GLN
1	С	94	GLN

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 5 ligands modelled in this entry, 5 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 (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>	>2	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	130/142 (91%)	0.32	4 (3%) 49	21	63, 81, 133, 183	0
1	В	129/142 (90%)	0.40	4 (3%) 49	21	65, 86, 129, 176	0
1	С	129/142 (90%)	0.49	8 (6%) 20	7	80, 99, 129, 184	0
1	D	130/142 (91%)	0.40	5 (3%) 40	16	84, 104, 138, 192	0
1	E	128/142 (90%)	0.42	2 (1%) 72	44	86, 106, 143, 180	0
All	All	646/710 (90%)	0.41	23 (3%) 42	17	63, 98, 138, 192	0

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	25	TYR	7.8
1	A	24	LEU	7.3
1	A	25	TYR	6.8
1	В	25	TYR	6.0
1	С	26	GLY	5.6
1	D	25	TYR	4.3
1	В	22	PRO	4.2
1	A	23	GLY	3.2
1	D	12	PHE	3.1
1	С	24	LEU	2.8
1	Ε	25	TYR	2.6
1	D	131	GLY	2.6
1	В	2	GLY	2.5
1	С	95	ILE	2.4
1	В	8	PHE	2.3
1	A	26	GLY	2.2
1	Е	8	PHE	2.2
1	С	27	ASP	2.2
1	D	91	LYS	2.1
1	С	97	GLY	2.1



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Mol	Chain	Res	Type	RSRZ
1	С	23	GLY	2.0
1	С	32	ILE	2.0
1	D	43	PRO	2.0

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.

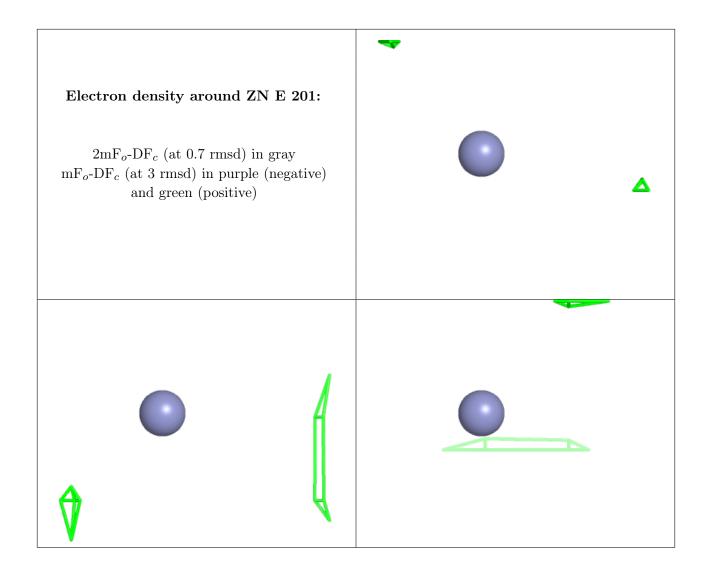
6.4 Ligands (i)

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	ZN	Ε	201	1/1	0.98	0.22	90,90,90,90	0
2	ZN	D	201	1/1	0.99	0.21	90,90,90,90	0
2	ZN	С	201	1/1	0.99	0.21	87,87,87,87	0
2	ZN	В	201	1/1	0.99	0.22	75,75,75,75	0
2	ZN	A	201	1/1	1.00	0.21	85,85,85,85	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.

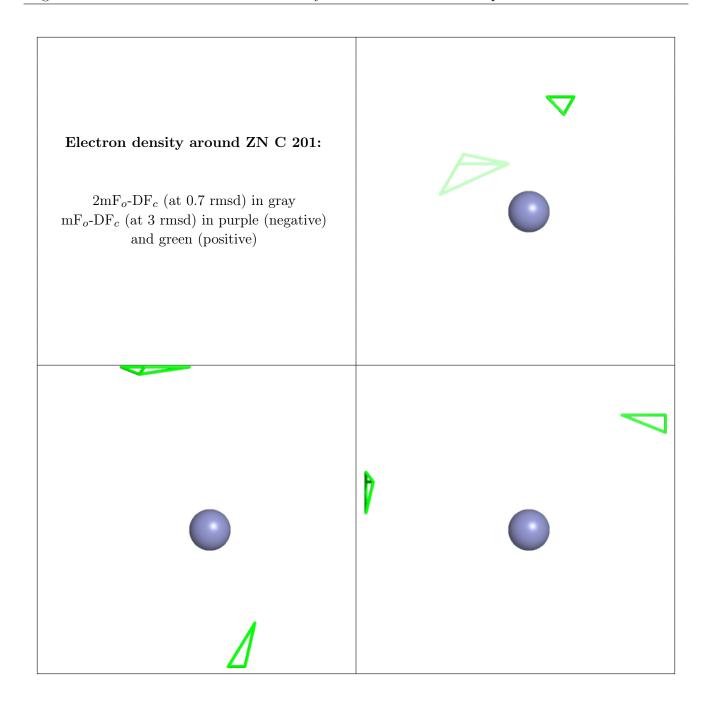




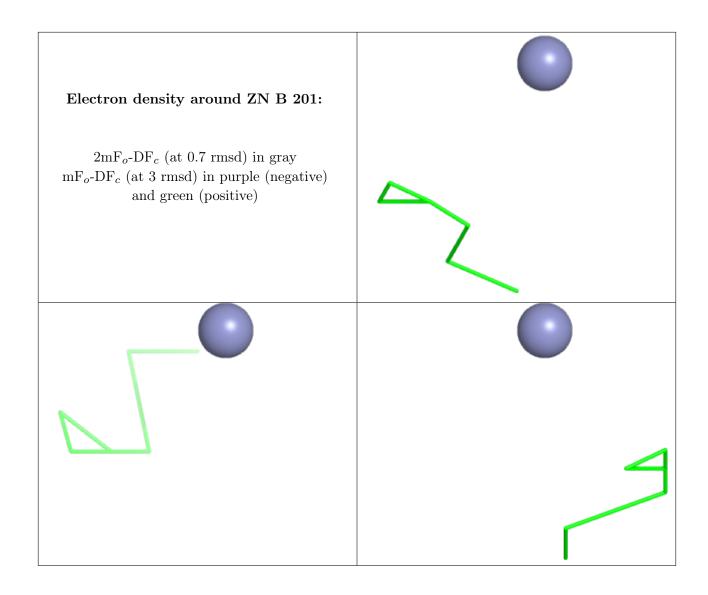


Electron density around ZN D 201:	











Electron density around ZN A 201:	

6.5 Other polymers (i)

There are no such residues in this entry.

