



# Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 05:15 am BST

PDB ID : 4KA0  
Title : Crystal structure of a putative thiol-disulfide oxidoreductase from *Bacteroides vulgatus* (target NYSGRC-011676), space group P21221  
Authors : Vetting, M.W.; Patskovsky, Y.; Toro, R.; Bhosle, R.; Hillerich, B.; Gizzi, A.; Garforth, S.; Kar, A.; Chan, M.K.; Lafluer, J.; Patel, H.; Matikainen, B.; Chamala, S.; Lim, S.; Celikgil, A.; Villegas, G.; Evans, B.; Love, J.; Fiser, A.; Khafizov, K.; Seidel, R.D.; Bonanno, J.B.; Armstrong, R.N.; Almo, S.C.; New York Structural Genomics Research Consortium (NYSGRC)  
Deposited on : 2013-04-21  
Resolution : 2.10 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
Xtriage (Phenix)	:	1.13
EDS	:	2.11
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

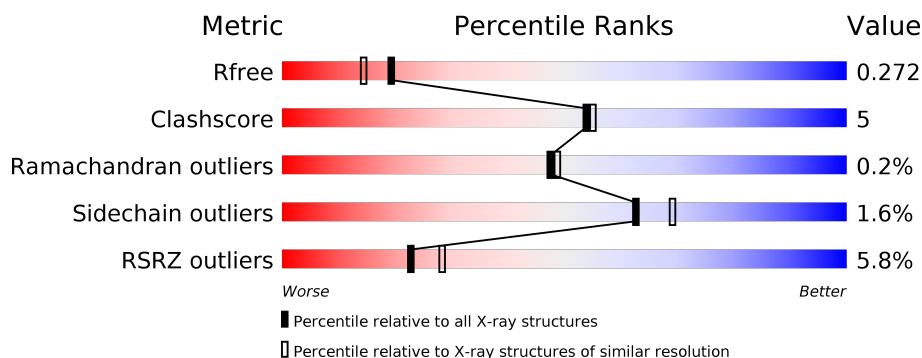
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.10 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	168	<div> <div>8%</div> <div> <div></div> <div>73%</div> <div>11%</div> <div>•</div> <div>15%</div> </div> </div>
1	B	168	<div> <div>4%</div> <div> <div></div> <div>71%</div> <div>12%</div> <div>•</div> <div>17%</div> </div> </div>
1	C	168	<div> <div>4%</div> <div> <div></div> <div>70%</div> <div>14%</div> <div>•</div> <div>16%</div> </div> </div>
1	D	168	<div> <div>4%</div> <div> <div></div> <div>74%</div> <div>10%</div> <div></div> <div>16%</div> </div> </div>

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4698 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 Putative thiol-disulfide oxidoreductase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	143	Total	C	N	O	S	0	0	0
			1142	745	183	210	4			
1	B	140	Total	C	N	O	S	0	0	0
			1120	732	178	206	4			
1	C	141	Total	C	N	O	S	0	0	0
			1125	735	179	207	4			
1	D	141	Total	C	N	O	S	0	0	0
			1125	735	179	207	4			

There are 44 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	EXPRESSION TAG	UNP A6L2G8
A	2	SER	-	EXPRESSION TAG	UNP A6L2G8
A	3	LEU	-	EXPRESSION TAG	UNP A6L2G8
A	161	GLU	-	EXPRESSION TAG	UNP A6L2G8
A	162	GLY	-	EXPRESSION TAG	UNP A6L2G8
A	163	HIS	-	EXPRESSION TAG	UNP A6L2G8
A	164	HIS	-	EXPRESSION TAG	UNP A6L2G8
A	165	HIS	-	EXPRESSION TAG	UNP A6L2G8
A	166	HIS	-	EXPRESSION TAG	UNP A6L2G8
A	167	HIS	-	EXPRESSION TAG	UNP A6L2G8
A	168	HIS	-	EXPRESSION TAG	UNP A6L2G8
B	1	MET	-	EXPRESSION TAG	UNP A6L2G8
B	2	SER	-	EXPRESSION TAG	UNP A6L2G8
B	3	LEU	-	EXPRESSION TAG	UNP A6L2G8
B	161	GLU	-	EXPRESSION TAG	UNP A6L2G8
B	162	GLY	-	EXPRESSION TAG	UNP A6L2G8
B	163	HIS	-	EXPRESSION TAG	UNP A6L2G8
B	164	HIS	-	EXPRESSION TAG	UNP A6L2G8
B	165	HIS	-	EXPRESSION TAG	UNP A6L2G8
B	166	HIS	-	EXPRESSION TAG	UNP A6L2G8
B	167	HIS	-	EXPRESSION TAG	UNP A6L2G8

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Chain	Residue	Modelled	Actual	Comment	Reference
B	168	HIS	-	EXPRESSION TAG	UNP A6L2G8
C	1	MET	-	EXPRESSION TAG	UNP A6L2G8
C	2	SER	-	EXPRESSION TAG	UNP A6L2G8
C	3	LEU	-	EXPRESSION TAG	UNP A6L2G8
C	161	GLU	-	EXPRESSION TAG	UNP A6L2G8
C	162	GLY	-	EXPRESSION TAG	UNP A6L2G8
C	163	HIS	-	EXPRESSION TAG	UNP A6L2G8
C	164	HIS	-	EXPRESSION TAG	UNP A6L2G8
C	165	HIS	-	EXPRESSION TAG	UNP A6L2G8
C	166	HIS	-	EXPRESSION TAG	UNP A6L2G8
C	167	HIS	-	EXPRESSION TAG	UNP A6L2G8
C	168	HIS	-	EXPRESSION TAG	UNP A6L2G8
D	1	MET	-	EXPRESSION TAG	UNP A6L2G8
D	2	SER	-	EXPRESSION TAG	UNP A6L2G8
D	3	LEU	-	EXPRESSION TAG	UNP A6L2G8
D	161	GLU	-	EXPRESSION TAG	UNP A6L2G8
D	162	GLY	-	EXPRESSION TAG	UNP A6L2G8
D	163	HIS	-	EXPRESSION TAG	UNP A6L2G8
D	164	HIS	-	EXPRESSION TAG	UNP A6L2G8
D	165	HIS	-	EXPRESSION TAG	UNP A6L2G8
D	166	HIS	-	EXPRESSION TAG	UNP A6L2G8
D	167	HIS	-	EXPRESSION TAG	UNP A6L2G8
D	168	HIS	-	EXPRESSION TAG	UNP A6L2G8

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	1	Total Cl 1 1	0	0

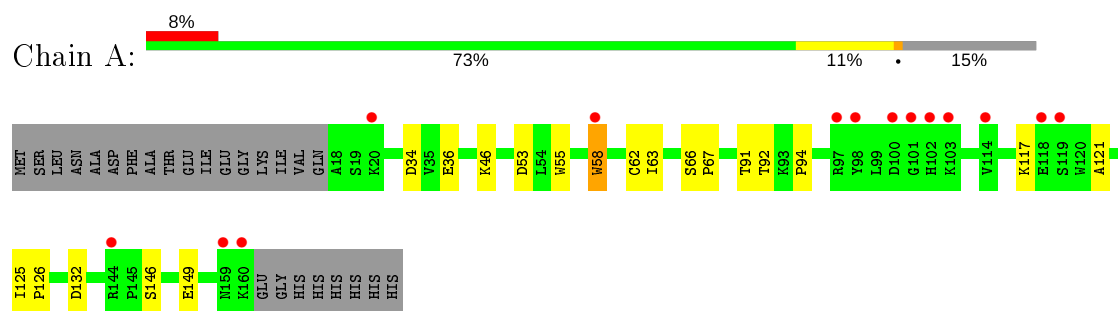
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	48	Total O 48 48	0	0
3	B	47	Total O 47 47	0	0
3	C	51	Total O 51 51	0	0
3	D	39	Total O 39 39	0	0

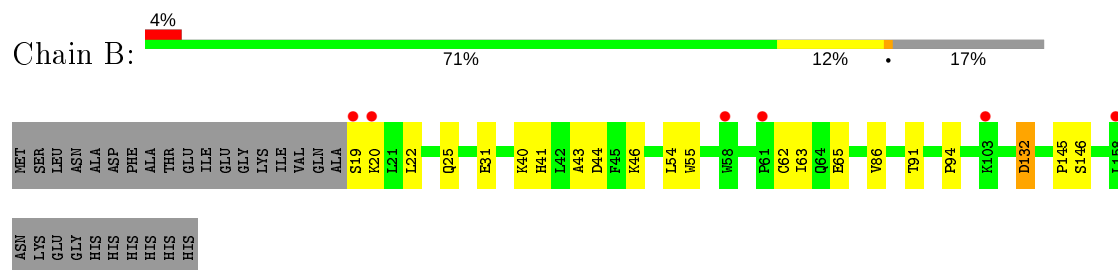
### 3 Residue-property plots [i](#)

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.

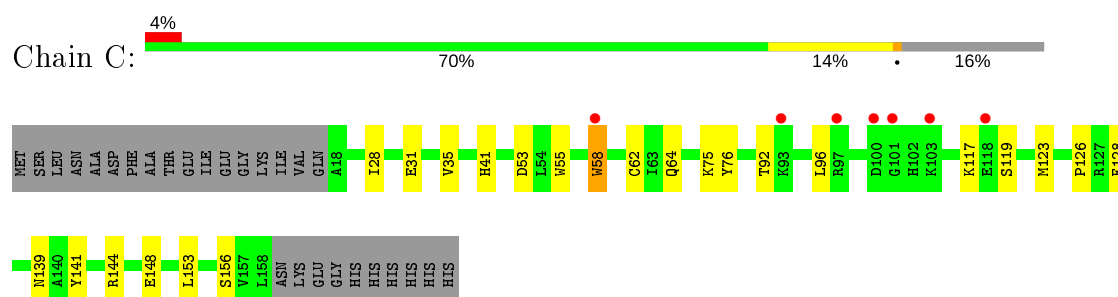
- Molecule 1: Putative thiol-disulfide oxidoreductase



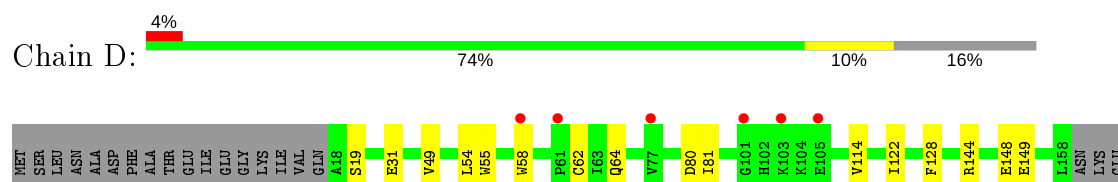
- Molecule 1: Putative thiol-disulfide oxidoreductase



- Molecule 1: Putative thiol-disulfide oxidoreductase



- Molecule 1: Putative thiol-disulfide oxidoreductase



GLY  
HIS  
HIS  
HIS  
HIS  
HIS  
HIS

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.04Å 90.51Å 96.63Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.66 – 2.10 42.62 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.8 (42.66-2.10) 99.9 (42.62-2.10)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	0.08	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.13 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.7.0032	Depositor
R, $R_{free}$	0.205 , 0.270 0.211 , 0.272	Depositor DCC
$R_{free}$ test set	1848 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	34.6	Xtriage
Anisotropy	0.571	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 52.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	4698	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	39.0	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 26.49 % 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 2.6122e-03. 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:  
CL

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	0.77	0/1173	0.82	1/1595 (0.1%)
1	B	0.86	0/1151	0.87	2/1566 (0.1%)
1	C	0.74	0/1156	0.83	1/1573 (0.1%)
1	D	0.82	0/1156	0.85	0/1573
All	All	0.80	0/4636	0.84	4/6307 (0.1%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	132	ASP	CB-CG-OD1	6.46	124.11	118.30
1	A	132	ASP	CB-CG-OD1	5.90	123.61	118.30
1	C	53	ASP	CB-CG-OD1	5.48	123.23	118.30
1	B	132	ASP	CB-CG-OD2	-5.02	113.78	118.30

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	1142	0	1141	15	0
1	B	1120	0	1117	13	0
1	C	1125	0	1122	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	1125	0	1122	9	0
2	B	1	0	0	0	0
3	A	48	0	0	2	0
3	B	47	0	0	1	0
3	C	51	0	0	1	0
3	D	39	0	0	1	0
All	All	4698	0	4502	48	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 5.

All (48) 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)
1:B:31:GLU:OE2	1:B:41:HIS:NE2	1.83	1.10
1:A:91:THR:HG23	1:A:94:PRO:HD2	1.74	0.68
1:B:132:ASP:HB2	3:B:315:HOH:O	1.95	0.66
1:D:54:LEU:HD13	1:D:122:ILE:HD13	1.78	0.66
1:C:55:TRP:HB2	1:C:62:CYS:HB3	1.82	0.61
1:A:91:THR:HG23	1:A:94:PRO:CD	2.33	0.58
1:C:31:GLU:HG2	1:C:41:HIS:CD2	2.40	0.57
1:B:54:LEU:HD23	1:B:86:VAL:HB	1.89	0.55
1:A:149:GLU:HB2	1:C:141:TYR:CE1	2.42	0.54
1:C:153:LEU:O	1:C:156:SER:HB2	2.08	0.53
1:C:128:PHE:CE2	1:C:144:ARG:HG2	2.44	0.52
1:A:117:LYS:O	1:A:121:ALA:HA	2.10	0.51
1:A:146:SER:O	1:D:64:GLN:HG2	2.11	0.50
1:B:55:TRP:HB2	1:B:62:CYS:HB3	1.93	0.50
1:B:91:THR:OG1	1:B:94:PRO:HD2	2.12	0.50
1:C:35:VAL:HG22	3:C:203:HOH:O	2.11	0.49
1:C:31:GLU:HG2	1:C:41:HIS:NE2	2.28	0.49
1:A:58:TRP:HD1	1:A:58:TRP:H	1.61	0.48
1:A:63:ILE:HD11	1:D:148:GLU:CG	2.43	0.48
1:A:66:SER:HB3	1:A:67:PRO:HD3	1.96	0.47
1:D:55:TRP:HB2	1:D:62:CYS:HB3	1.96	0.47
1:B:31:GLU:HG2	1:B:41:HIS:CD2	2.50	0.47
1:B:146:SER:O	1:C:64:GLN:HG2	2.15	0.46
1:B:19:SER:HB2	1:B:22:LEU:HD12	1.98	0.46
1:A:63:ILE:HD11	1:D:148:GLU:HG3	1.98	0.46
1:D:128:PHE:CE2	1:D:144:ARG:HG2	2.50	0.45
1:B:63:ILE:HG22	1:C:148:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:139:ASN:OD1	1:C:141:TYR:C	2.54	0.45
1:C:62:CYS:SG	1:C:126:PRO:HG3	2.56	0.45
1:C:28:ILE:HG21	1:C:119:SER:HB3	1.97	0.45
1:C:75:LYS:HD2	1:C:76:TYR:CE2	2.51	0.44
1:B:65:GLU:HB3	1:B:145:PRO:HG2	1.98	0.44
1:B:20:LYS:O	1:B:25:GLN:CB	2.67	0.43
1:D:64:GLN:NE2	3:D:206:HOH:O	2.22	0.43
1:C:75:LYS:O	1:C:75:LYS:HG2	2.18	0.43
1:C:139:ASN:OD1	1:C:141:TYR:N	2.51	0.43
1:D:49:VAL:O	1:D:81:ILE:HA	2.18	0.42
1:A:53:ASP:OD1	1:A:53:ASP:C	2.57	0.42
1:A:55:TRP:HB2	1:A:62:CYS:HB3	2.02	0.42
1:C:117:LYS:NZ	1:C:123:MET:HG3	2.35	0.41
1:B:43:ALA:O	1:B:46:LYS:HB2	2.20	0.41
1:A:46:LYS:HA	3:A:202:HOH:O	2.21	0.41
1:A:34:ASP:HB2	3:A:204:HOH:O	2.20	0.41
1:A:149:GLU:CB	1:C:141:TYR:CE1	3.03	0.41
1:A:125:ILE:HB	1:A:126:PRO:HA	2.03	0.40
1:C:92:THR:HG22	1:C:96:LEU:CD1	2.52	0.40
1:B:40:LYS:HE3	1:B:44:ASP:OD2	2.20	0.40
1:C:58:TRP:CZ2	1:D:58:TRP:HZ2	2.39	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	141/168 (84%)	136 (96%)	5 (4%)	0	100	100
1	B	138/168 (82%)	135 (98%)	3 (2%)	0	100	100
1	C	139/168 (83%)	137 (99%)	2 (1%)	0	100	100
1	D	139/168 (83%)	133 (96%)	5 (4%)	1 (1%)	22	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	557/672 (83%)	541 (97%)	15 (3%)	1 (0%)	47 49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	114	VAL

### 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	125/146 (86%)	122 (98%)	3 (2%)	49 53
1	B	123/146 (84%)	123 (100%)	0	100 100
1	C	123/146 (84%)	122 (99%)	1 (1%)	81 86
1	D	123/146 (84%)	119 (97%)	4 (3%)	38 40
All	All	494/584 (85%)	486 (98%)	8 (2%)	62 69

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	GLU
1	A	58	TRP
1	A	92	THR
1	C	58	TRP
1	D	19	SER
1	D	31	GLU
1	D	80	ASP
1	D	149	GLU

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](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

### 5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is 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

### 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	143/168 (85%)	0.46	14 (9%) <b>7</b> <b>10</b>	22, 36, 63, 81	2 (1%)
1	B	140/168 (83%)	0.40	6 (4%) <b>35</b> <b>41</b>	23, 38, 61, 82	2 (1%)
1	C	141/168 (83%)	0.33	7 (4%) <b>28</b> <b>34</b>	23, 38, 59, 79	1 (0%)
1	D	141/168 (83%)	0.24	6 (4%) <b>35</b> <b>41</b>	25, 37, 56, 73	2 (1%)
All	All	565/672 (84%)	0.36	33 (5%) <b>23</b> <b>28</b>	22, 37, 61, 82	7 (1%)

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	100	ASP	5.7
1	A	58	TRP	4.8
1	A	103	LYS	4.6
1	C	103	LYS	4.2
1	C	118	GLU	3.9
1	B	58	TRP	3.8
1	D	77	VAL	3.7
1	B	19	SER	3.7
1	C	97	ARG	3.7
1	A	160	LYS	3.3
1	A	119	SER	3.2
1	A	98	TYR	3.2
1	D	58	TRP	3.2
1	A	114	VAL	3.1
1	A	102	HIS	3.0
1	A	97	ARG	2.9
1	C	93	LYS	2.9
1	C	101	GLY	2.8
1	A	101	GLY	2.7
1	C	58	TRP	2.6
1	C	100	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	144	ARG	2.5
1	A	159	ASN	2.4
1	A	20	LYS	2.4
1	A	118	GLU	2.4
1	B	20	LYS	2.4
1	D	101	GLY	2.4
1	B	103	LYS	2.3
1	D	103	LYS	2.2
1	B	158	LEU	2.2
1	B	61	PRO	2.2
1	D	105	GLU	2.1
1	D	61	PRO	2.1

## 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 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( $\text{\AA}^2$ )	Q<0.9
2	CL	B	201	1/1	0.95	0.09	41,41,41,41	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.