



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 31, 2021 – 08:09 PM EDT

PDB ID : 2ZGT  
Title : Crystal structure of Agrocybe aegerita lectin AAL mutant F93G  
Authors : Li, D.F.; Yang, N.; Wang, D.C.  
Deposited on : 2008-01-23  
Resolution : 2.80 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 : 2.23.2  
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) : 2.23.2

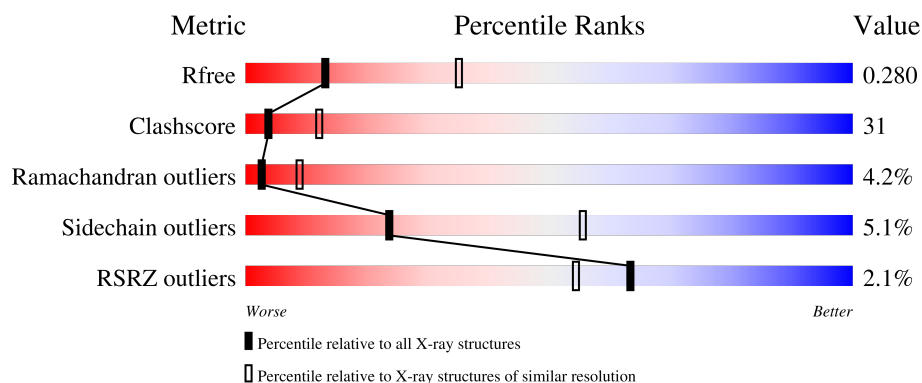
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*


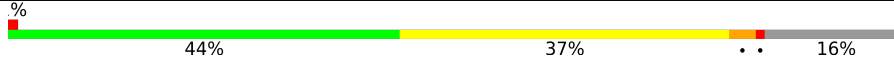
The reported resolution of this entry is 2.80 Å.

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	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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  $\geq 3$ , 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	167	
1	B	167	

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2172 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 Anti-tumor lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	140	Total	C	N	O	S	0	0	0
			1064	676	175	211	2			
1	B	141	Total	C	N	O	S	0	0	0
			1070	681	175	213	1			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP Q6WY08
A	93	GLY	PHE	engineered mutation	UNP Q6WY08
A	132	SER	LEU	SEE REMARK 999	UNP Q6WY08
A	159	LEU	-	expression tag	UNP Q6WY08
A	160	GLU	-	expression tag	UNP Q6WY08
A	161	HIS	-	expression tag	UNP Q6WY08
A	162	HIS	-	expression tag	UNP Q6WY08
A	163	HIS	-	expression tag	UNP Q6WY08
A	164	HIS	-	expression tag	UNP Q6WY08
A	165	HIS	-	expression tag	UNP Q6WY08
A	166	HIS	-	expression tag	UNP Q6WY08
B	0	MET	-	initiating methionine	UNP Q6WY08
B	93	GLY	PHE	engineered mutation	UNP Q6WY08
B	132	SER	LEU	SEE REMARK 999	UNP Q6WY08
B	159	LEU	-	expression tag	UNP Q6WY08
B	160	GLU	-	expression tag	UNP Q6WY08
B	161	HIS	-	expression tag	UNP Q6WY08
B	162	HIS	-	expression tag	UNP Q6WY08
B	163	HIS	-	expression tag	UNP Q6WY08
B	164	HIS	-	expression tag	UNP Q6WY08
B	165	HIS	-	expression tag	UNP Q6WY08
B	166	HIS	-	expression tag	UNP Q6WY08

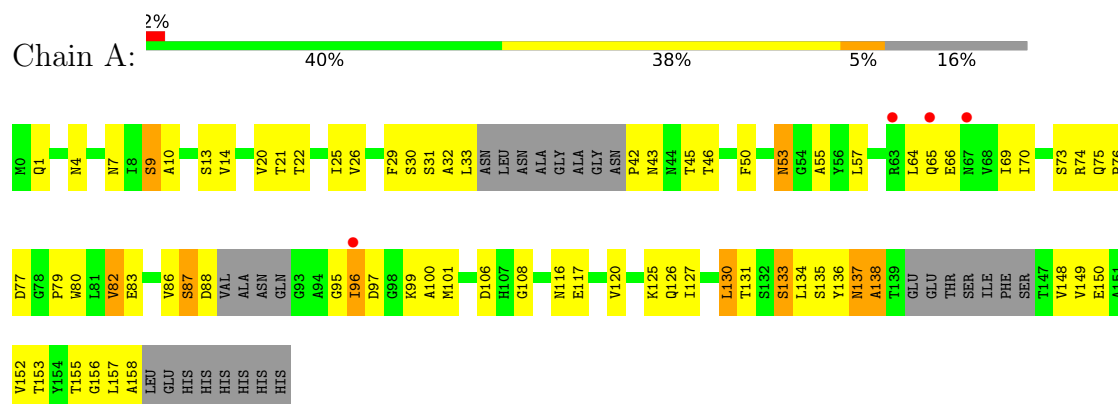
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	13	Total 13	O 13	0	0
2	B	25	Total 25	O 25	0	0

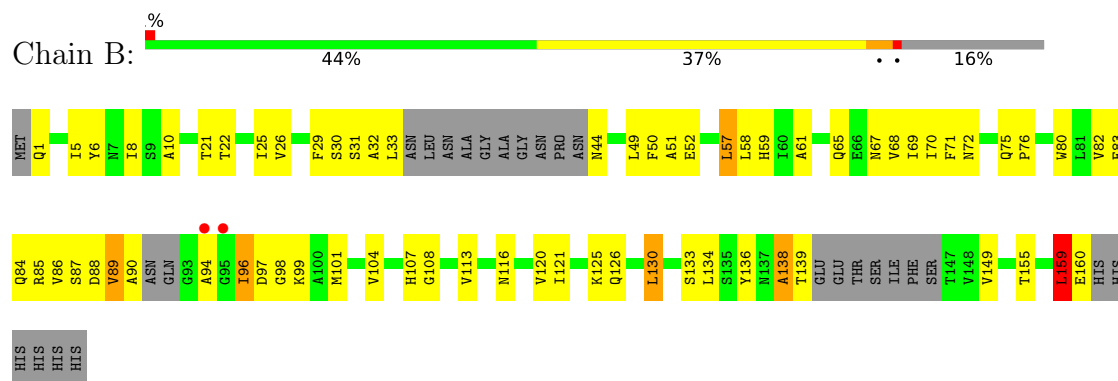
### 3 Residue-property plots [i](#)

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: Anti-tumor lectin



#### • Molecule 1: Anti-tumor lectin



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	42.75Å 42.75Å 127.91Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	27.96 – 2.80 27.95 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.9 (27.96-2.80) 99.9 (27.95-2.80)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	0.05	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.91 (at 2.80Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, $R_{free}$	0.208 , 0.278 0.209 , 0.280	Depositor DCC
$R_{free}$ test set	703 reflections (10.95%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	44.7	Xtriage
Anisotropy	0.309	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 33.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.050 for -h,-k,l 0.478 for h,-h-k,-l 0.055 for -k,-h,-l	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	2172	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.38% of the height of the origin peak. No significant pseudotranslation is detected.*

<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

### 5.1 Standard geometry

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	0.39	0/1080	0.70	0/1469
1	B	0.40	0/1085	0.68	0/1477
All	All	0.40	0/2165	0.69	0/2946

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

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	1064	0	1050	69	0
1	B	1070	0	1058	68	0
2	A	13	0	0	0	0
2	B	25	0	0	1	0
All	All	2172	0	2108	132	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 31.

All (132) 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:96:ILE:HG23	1:B:97:ASP:H	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ASN:HA	1:A:64:LEU:HD12	1.54	0.87
1:A:30:SER:OG	1:A:33:LEU:HD21	1.78	0.84
1:A:31:SER:HA	1:A:99:LYS:HA	1.61	0.81
1:B:159:LEU:H	1:B:159:LEU:HD22	1.48	0.79
1:B:67:ASN:HA	1:B:88:ASP:OD2	1.84	0.78
1:A:130:LEU:HD23	1:A:130:LEU:H	1.48	0.77
1:B:75:GLN:HB3	1:B:76:PRO:HD2	1.67	0.77
1:A:13:SER:HB3	1:A:135:SER:HB3	1.70	0.72
1:B:130:LEU:H	1:B:130:LEU:HD23	1.55	0.71
1:B:159:LEU:HD22	1:B:159:LEU:N	2.06	0.70
1:B:44:ASN:O	1:B:139:THR:HB	1.92	0.69
1:A:82:VAL:HB	1:A:126:GLN:NE2	2.09	0.67
1:A:117:GLU:HG3	1:B:5:ILE:HD12	1.76	0.67
1:A:43:ASN:HA	1:A:64:LEU:CD1	2.23	0.67
1:A:70:ILE:HG23	1:A:83:GLU:HG3	1.80	0.64
1:B:29:PHE:O	1:B:149:VAL:HG23	1.96	0.64
1:A:75:GLN:HB3	1:A:76:PRO:HD2	1.80	0.64
1:B:44:ASN:HA	1:B:139:THR:HG21	1.78	0.63
1:A:1:GLN:H	1:A:1:GLN:CD	2.03	0.61
1:A:95:GLY:H	1:A:116:ASN:HD21	1.48	0.61
1:A:117:GLU:HG3	1:B:5:ILE:CD1	2.31	0.60
1:B:159:LEU:H	1:B:159:LEU:CD2	2.14	0.60
1:A:82:VAL:HB	1:A:126:GLN:HE22	1.66	0.60
1:A:64:LEU:C	1:A:66:GLU:H	2.03	0.60
1:A:42:PRO:HG3	1:A:138:ALA:HB1	1.84	0.60
1:A:1:GLN:HG2	1:B:107:HIS:HE1	1.67	0.59
1:A:20:VAL:HB	1:A:131:THR:HB	1.82	0.59
1:A:86:VAL:HG11	1:A:120:VAL:CG2	2.33	0.59
1:A:53:ASN:O	1:A:76:PRO:HB3	2.02	0.59
1:B:44:ASN:HA	1:B:139:THR:CG2	2.33	0.58
1:B:113:VAL:HB	1:B:121:ILE:HG22	1.85	0.57
1:B:25:ILE:HG22	1:B:26:VAL:N	2.20	0.56
1:A:10:ALA:HB1	1:A:138:ALA:O	2.06	0.56
1:A:32:ALA:C	1:A:33:LEU:HD23	2.25	0.56
1:B:30:SER:C	1:B:99:LYS:HB2	2.25	0.56
1:A:95:GLY:O	1:A:96:ILE:HG13	2.05	0.56
1:A:25:ILE:HG22	1:A:26:VAL:N	2.19	0.56
1:B:58:LEU:HD12	1:B:59:HIS:N	2.22	0.55
1:B:96:ILE:HG23	1:B:97:ASP:N	2.12	0.55
1:A:30:SER:CB	1:A:33:LEU:HD21	2.37	0.55
1:A:1:GLN:HA	1:A:155:THR:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:SER:HB3	1:A:99:LYS:HZ2	1.72	0.54
1:A:117:GLU:CG	1:B:5:ILE:HD12	2.39	0.52
1:B:86:VAL:HG11	1:B:120:VAL:HG22	1.90	0.52
1:A:4:ASN:HB2	1:A:153:THR:OG1	2.09	0.52
1:A:21:THR:HG23	1:A:22:THR:N	2.24	0.52
1:A:74:ARG:HD3	1:A:80:TRP:CE2	2.45	0.52
1:A:96:ILE:HG12	1:A:101:MET:SD	2.49	0.52
1:A:10:ALA:HA	1:A:136:TYR:CD2	2.44	0.52
1:A:9:SER:HA	1:A:148:VAL:HG22	1.92	0.51
1:A:156:GLY:C	1:A:158:ALA:H	2.13	0.51
1:A:7:ASN:ND2	1:A:148:VAL:HG11	2.26	0.51
1:B:71:PHE:HB2	1:B:84:GLN:HB2	1.92	0.51
1:B:82:VAL:H	1:B:126:GLN:HE22	1.57	0.51
1:B:26:VAL:HG13	1:B:104:VAL:HB	1.93	0.51
1:A:130:LEU:H	1:A:130:LEU:CD2	2.20	0.50
1:A:33:LEU:HG	1:A:100:ALA:CB	2.40	0.50
1:B:31:SER:C	1:B:33:LEU:H	2.14	0.50
1:B:69:ILE:N	1:B:86:VAL:O	2.39	0.50
1:B:90:ALA:CB	1:B:120:VAL:HG23	2.42	0.50
1:A:150:GLU:HG2	1:B:96:ILE:HG13	1.94	0.49
1:A:137:ASN:O	1:A:138:ALA:HB2	2.12	0.49
1:A:33:LEU:HG	1:A:100:ALA:HB3	1.95	0.49
1:A:76:PRO:HG2	1:A:77:ASP:H	1.75	0.49
1:A:137:ASN:O	1:A:138:ALA:CB	2.60	0.49
1:B:26:VAL:CG1	1:B:104:VAL:HB	2.43	0.49
1:B:76:PRO:HG2	2:B:167:HOH:O	2.13	0.48
1:B:61:ALA:HB3	1:B:70:ILE:HB	1.95	0.48
1:B:31:SER:OG	1:B:99:LYS:HE2	2.13	0.48
1:B:1:GLN:HA	1:B:155:THR:O	2.14	0.47
1:B:72:ASN:HB3	1:B:80:TRP:CZ3	2.48	0.47
1:A:136:TYR:CD2	1:A:149:VAL:HG12	2.50	0.47
1:A:25:ILE:CG2	1:A:26:VAL:N	2.77	0.47
1:B:10:ALA:HB1	1:B:138:ALA:HB2	1.97	0.47
1:B:75:GLN:CB	1:B:76:PRO:HD2	2.41	0.47
1:B:50:PHE:HB2	1:B:133:SER:HB3	1.95	0.47
1:B:84:GLN:NE2	1:B:84:GLN:HA	2.30	0.47
1:A:126:GLN:C	1:A:127:ILE:HG13	2.33	0.47
1:A:137:ASN:HD22	1:A:138:ALA:H	1.62	0.47
1:A:69:ILE:O	1:A:70:ILE:HD13	2.15	0.47
1:B:139:THR:HG22	1:B:139:THR:O	2.14	0.46
1:B:90:ALA:HB1	1:B:120:VAL:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:LEU:C	1:A:66:GLU:N	2.68	0.46
1:B:68:VAL:HG21	1:B:85:ARG:HB3	1.98	0.45
1:A:33:LEU:HD23	1:A:33:LEU:N	2.31	0.45
1:A:50:PHE:HB2	1:A:133:SER:HB3	1.98	0.45
1:B:21:THR:HG23	1:B:22:THR:N	2.31	0.45
1:B:49:LEU:HD22	1:B:134:LEU:CD2	2.47	0.45
1:B:51:ALA:HB2	1:B:57:LEU:CD1	2.48	0.45
1:B:82:VAL:N	1:B:126:GLN:HE22	2.15	0.45
1:B:82:VAL:HB	1:B:126:GLN:NE2	2.32	0.44
1:B:88:ASP:C	1:B:90:ALA:N	2.69	0.44
1:A:97:ASP:OD1	1:A:97:ASP:O	2.35	0.44
1:B:97:ASP:OD1	1:B:98:GLY:N	2.51	0.44
1:A:87:SER:O	1:A:88:ASP:HB2	2.17	0.44
1:B:72:ASN:HB3	1:B:80:TRP:CE3	2.53	0.44
1:B:108:GLY:O	1:B:125:LYS:HD2	2.18	0.44
1:B:44:ASN:C	1:B:139:THR:HB	2.38	0.43
1:B:75:GLN:HB3	1:B:76:PRO:CD	2.43	0.43
1:B:96:ILE:HG12	1:B:97:ASP:N	2.32	0.43
1:A:31:SER:CB	1:A:99:LYS:HZ2	2.31	0.43
1:B:8:ILE:HG22	1:B:136:TYR:HB3	2.00	0.43
1:B:87:SER:C	1:B:89:VAL:N	2.71	0.43
1:B:88:ASP:O	1:B:90:ALA:N	2.52	0.43
1:B:22:THR:OG1	1:B:108:GLY:HA2	2.18	0.43
1:A:86:VAL:HG11	1:A:120:VAL:HG23	2.01	0.43
1:B:5:ILE:HG22	1:B:6:TYR:N	2.34	0.43
1:A:14:VAL:N	1:A:134:LEU:O	2.49	0.42
1:A:65:GLN:HG2	1:A:66:GLU:HG3	2.01	0.42
1:B:97:ASP:OD1	1:B:99:LYS:HG2	2.19	0.42
1:B:101:MET:H	1:B:116:ASN:ND2	2.17	0.42
1:B:10:ALA:HA	1:B:136:TYR:CD2	2.55	0.42
1:A:73:SER:HB3	1:A:127:ILE:HD12	2.02	0.42
1:A:86:VAL:HG11	1:A:120:VAL:HG22	2.01	0.42
1:A:157:LEU:O	1:A:158:ALA:C	2.57	0.42
1:A:106:ASP:OD1	1:A:125:LYS:NZ	2.48	0.42
1:B:138:ALA:O	1:B:139:THR:CB	2.67	0.42
1:A:22:THR:OG1	1:A:108:GLY:HA2	2.19	0.42
1:A:137:ASN:ND2	1:A:138:ALA:H	2.18	0.41
1:B:8:ILE:CG2	1:B:136:TYR:HB3	2.50	0.41
1:A:29:PHE:O	1:A:149:VAL:HG23	2.20	0.41
1:A:45:THR:HG22	1:A:46:THR:N	2.35	0.41
1:B:10:ALA:HB2	1:B:136:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ALA:HB2	1:A:76:PRO:HD3	2.03	0.41
1:B:70:ILE:HG23	1:B:83:GLU:HG3	2.02	0.41
1:A:95:GLY:H	1:A:116:ASN:ND2	2.15	0.41
1:B:87:SER:C	1:B:89:VAL:H	2.24	0.40
1:A:4:ASN:O	1:A:152:VAL:HA	2.22	0.40
1:A:31:SER:H	1:A:99:LYS:NZ	2.19	0.40
1:B:25:ILE:CG2	1:B:26:VAL:N	2.84	0.40
1:B:51:ALA:HB2	1:B:57:LEU:HD11	2.02	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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	132/167 (79%)	112 (85%)	15 (11%)	5 (4%)	3	10
1	B	133/167 (80%)	114 (86%)	13 (10%)	6 (4%)	2	8
All	All	265/334 (79%)	226 (85%)	28 (11%)	11 (4%)	3	9

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	82	VAL
1	A	87	SER
1	A	138	ALA
1	B	96	ILE
1	B	138	ALA
1	B	159	LEU
1	A	96	ILE
1	B	32	ALA
1	B	94	ALA
1	A	53	ASN

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Mol	Chain	Res	Type
1	B	89	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	117/139 (84%)	111 (95%)	6 (5%)	24	55
1	B	117/139 (84%)	111 (95%)	6 (5%)	24	55
All	All	234/278 (84%)	222 (95%)	12 (5%)	24	55

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	9	SER
1	A	57	LEU
1	A	79	PRO
1	A	130	LEU
1	A	133	SER
1	A	137	ASN
1	B	52	GLU
1	B	57	LEU
1	B	65	GLN
1	B	130	LEU
1	B	159	LEU
1	B	160	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	ASN
1	A	112	GLN
1	A	116	ASN
1	A	137	ASN
1	B	65	GLN

*Continued on next page...*

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Mol	Chain	Res	Type
1	B	84	GLN
1	B	112	GLN
1	B	116	ASN
1	B	126	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](#)

There are no ligands in this entry.

### 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<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	140/167 (83%)	-0.32	4 (2%) 51 41	23, 38, 82, 85	0
1	B	141/167 (84%)	-0.33	2 (1%) 75 70	24, 38, 72, 106	0
All	All	281/334 (84%)	-0.33	6 (2%) 63 54	23, 38, 80, 106	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	65	GLN	4.5
1	B	94	ALA	4.4
1	A	96	ILE	4.1
1	B	95	GLY	3.3
1	A	67	ASN	2.7
1	A	63	ARG	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 monosaccharides in this entry.

### 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.