



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:31 PM UTC

PDB ID : 2OKI / pdb\_00002oki  
Title : Crystal structure of dimeric form of PfFabZ in crystal form2  
Authors : Swarnamukhi, P.L.; Sharma, S.K.; Padala, P.; Surolia, N.; Surolia, A.; Suguna, K.  
Deposited on : 2007-01-17  
Resolution : 2.70 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.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0  
Xtrriage (Phenix) : 2.0  
EDS : 3.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.010 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

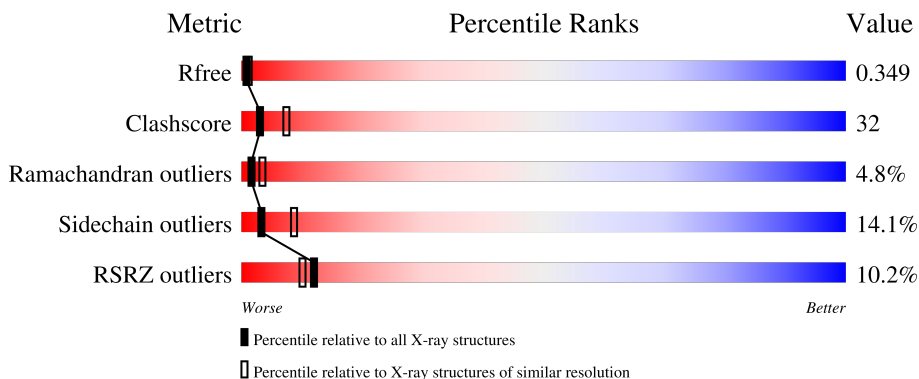
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.70 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))
$R_{free}$	180053	3538 (2.70-2.70)
Clashscore	190562	3843 (2.70-2.70)
Ramachandran outliers	187476	3778 (2.70-2.70)
Sidechain outliers	187428	3778 (2.70-2.70)
RSRZ outliers	180081	3538 (2.70-2.70)

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	136	
1	B	136	

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1855 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 Beta-hydroxyacyl-ACP dehydratase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	126	970	639	160	166	5	0	0	0
1	B	118	874	575	144	151	4	0	0	0

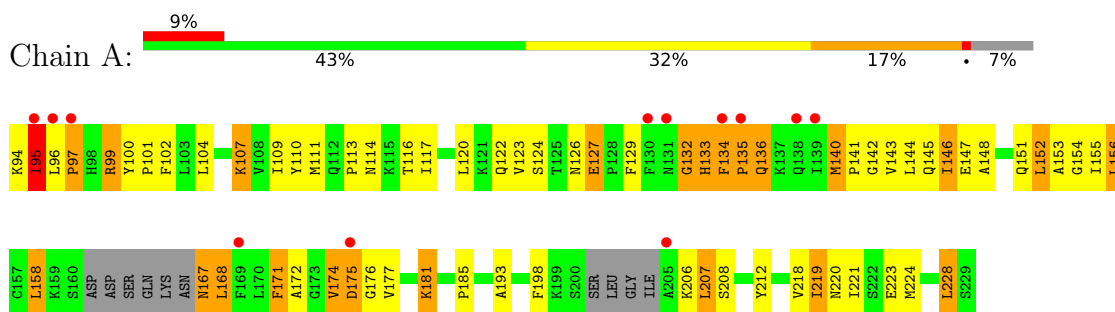
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	6	Total	O	0	0
			6	6		
2	B	5	Total	O	0	0
			5	5		

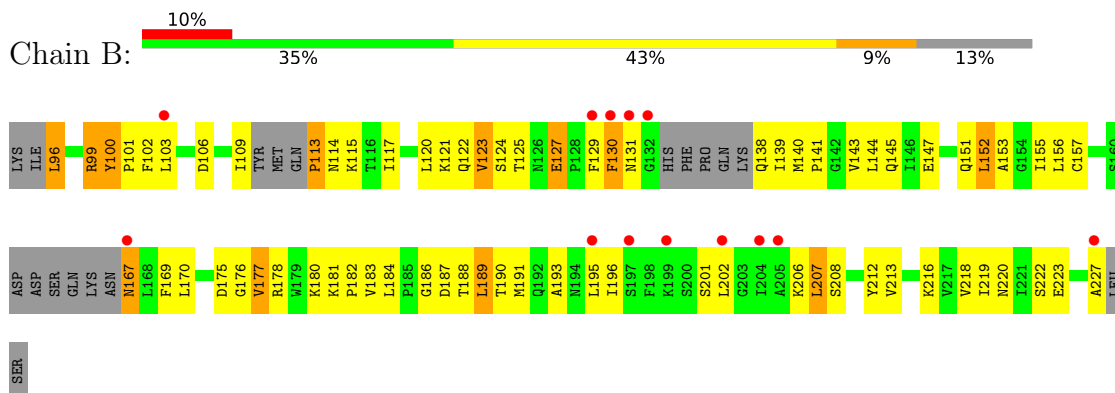
### 3 Residue-property plots [i](#)

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: Beta-hydroxyacyl-ACP dehydratase



- Molecule 1: Beta-hydroxyacyl-ACP dehydratase



## 4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	71.97Å 81.93Å 91.63Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	23.28 – 2.70 23.28 – 2.70	Depositor EDS
% Data completeness (in resolution range)	98.4 (23.28-2.70) 98.2 (23.28-2.70)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.98 (at 2.60Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.258 , 0.286 0.303 , 0.349	Depositor DCC
$R_{free}$ test set	809 reflections (9.73%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	53.2	Xtrriage
Anisotropy	1.033	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 84.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	1855	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	75.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.33% 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 i

### 5.1 Standard geometry i

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	0.66	1/990 (0.1%)	1.17	9/1336 (0.7%)
1	B	0.60	0/888	1.14	10/1200 (0.8%)
All	All	0.64	1/1878 (0.1%)	1.16	19/2536 (0.7%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	146	ILE	CA-CB	7.12	1.64	1.54

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	134	PHE	CA-C-N	8.00	129.84	119.84
1	A	134	PHE	C-N-CA	8.00	129.84	119.84
1	A	140	MET	CA-C-N	6.95	128.53	119.84
1	A	140	MET	C-N-CA	6.95	128.53	119.84
1	B	145	GLN	N-CA-C	-6.91	103.19	111.69
1	B	100	TYR	N-CA-C	-6.62	101.73	110.07
1	A	172	ALA	N-CA-C	6.35	119.14	111.40
1	B	202	LEU	N-CA-C	-6.29	106.15	113.88
1	B	129	PHE	N-CA-C	5.60	119.73	113.01
1	A	134	PHE	N-CA-C	5.55	119.25	110.58
1	B	130	PHE	N-CA-CB	5.43	119.67	110.49
1	B	99	ARG	N-CA-C	-5.41	106.63	113.18
1	B	123	VAL	N-CA-C	-5.33	102.04	109.45
1	A	223	GLU	N-CA-C	5.25	116.93	108.32
1	B	186	GLY	N-CA-C	-5.20	108.16	114.92
1	A	95	ILE	N-CA-C	5.15	116.78	108.85
1	A	174	VAL	N-CA-C	5.05	115.01	108.35
1	B	96	LEU	CA-C-N	5.01	126.40	120.23
1	B	96	LEU	C-N-CA	5.01	126.40	120.23

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	970	0	1013	68	0
1	B	874	0	911	66	0
2	A	6	0	0	0	0
2	B	5	0	0	0	0
All	All	1855	0	1924	119	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 32.

All (119) 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:A:134:PHE:HB3	1:A:135:PRO:HD2	1.20	1.17
1:A:134:PHE:CB	1:A:135:PRO:HD2	1.95	0.90
1:A:134:PHE:HB3	1:A:135:PRO:CD	2.01	0.90
1:A:143:VAL:HG13	1:B:143:VAL:HB	1.58	0.86
1:A:107:LYS:HZ3	1:A:120:LEU:HD11	1.45	0.81
1:A:176:GLY:H	1:B:175:ASP:CG	1.89	0.81
1:A:117:ILE:HD13	1:A:156:LEU:HB2	1.66	0.78
1:B:117:ILE:HD13	1:B:152:LEU:HD22	1.70	0.74
1:A:174:VAL:HG12	1:B:177:VAL:CG2	2.18	0.74
1:A:117:ILE:CG2	1:A:156:LEU:HG	2.18	0.73
1:B:147:GLU:O	1:B:151:GLN:HG3	1.88	0.73
1:B:109:ILE:HD13	1:B:120:LEU:HG	1.70	0.72
1:A:127:GLU:HG2	1:A:129:PHE:CE2	2.25	0.72
1:A:117:ILE:HG23	1:A:156:LEU:HG	1.72	0.72
1:B:153:ALA:HB1	1:B:207:LEU:HG	1.76	0.68
1:A:99:ARG:HB3	1:A:99:ARG:CZ	2.24	0.67
1:A:111:MET:HG3	1:A:117:ILE:HG22	1.77	0.66
1:B:195:LEU:HD13	1:B:196:ILE:N	2.11	0.66
1:B:124:SER:O	1:B:127:GLU:HG2	1.96	0.66
1:A:167:ASN:OD1	1:A:228:LEU:HD11	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:VAL:HG12	1:A:185:PRO:HA	1.79	0.65
1:A:100:TYR:CD1	1:A:101:PRO:HD2	2.32	0.64
1:B:177:VAL:O	1:B:178:ARG:HD2	1.97	0.64
1:B:139:ILE:N	1:B:139:ILE:HD12	2.12	0.64
1:A:174:VAL:H	1:B:177:VAL:HG22	1.62	0.63
1:B:212:TYR:HA	1:B:216:LYS:O	1.99	0.63
1:B:138:GLN:C	1:B:139:ILE:HD12	2.25	0.62
1:A:174:VAL:HG12	1:B:177:VAL:HG22	1.79	0.62
1:B:195:LEU:HA	1:B:207:LEU:HD13	1.81	0.62
1:A:207:LEU:HD12	1:A:207:LEU:N	2.15	0.61
1:B:139:ILE:HG23	1:B:183:VAL:O	1.99	0.61
1:A:218:VAL:HG23	1:A:219:ILE:HG22	1.83	0.60
1:A:174:VAL:HG12	1:B:177:VAL:HG21	1.85	0.59
1:A:177:VAL:HA	1:A:220:ASN:O	2.02	0.58
1:A:122:GLN:HA	1:A:122:GLN:HE21	1.66	0.58
1:B:169:PHE:HA	1:B:227:ALA:O	2.04	0.58
1:B:193:ALA:HA	1:B:208:SER:O	2.03	0.58
1:A:101:PRO:HG2	1:A:102:PHE:CD2	2.39	0.57
1:B:139:ILE:HG22	1:B:140:MET:N	2.19	0.57
1:A:175:ASP:OD1	1:B:178:ARG:NH2	2.37	0.56
1:A:99:ARG:NH2	1:A:171:PHE:H	2.03	0.56
1:A:181:LYS:HB3	1:A:218:VAL:HG12	1.87	0.56
1:B:207:LEU:HD22	1:B:207:LEU:N	2.22	0.55
1:A:147:GLU:O	1:A:151:GLN:HG3	2.07	0.55
1:A:123:VAL:CG1	1:A:185:PRO:HA	2.36	0.55
1:A:96:LEU:HB3	1:A:97:PRO:HD2	1.88	0.54
1:B:151:GLN:O	1:B:155:ILE:HG13	2.07	0.54
1:A:117:ILE:HD11	1:A:152:LEU:HD13	1.90	0.54
1:B:123:VAL:HG21	1:B:183:VAL:CG1	2.37	0.54
1:A:116:THR:C	1:A:117:ILE:CG2	2.80	0.54
1:A:175:ASP:HB3	1:B:175:ASP:OD2	2.08	0.54
1:A:193:ALA:HA	1:A:208:SER:O	2.08	0.53
1:A:177:VAL:HG22	1:A:221:ILE:HG12	1.90	0.53
1:B:196:ILE:HB	1:B:206:LYS:O	2.07	0.53
1:A:101:PRO:HG3	1:B:130:PHE:HB3	1.90	0.53
1:A:107:LYS:NZ	1:A:120:LEU:HD11	2.20	0.52
1:A:127:GLU:HG2	1:A:129:PHE:HE2	1.71	0.52
1:A:174:VAL:N	1:B:177:VAL:HG22	2.24	0.52
1:B:141:PRO:HD2	1:B:144:LEU:HD12	1.91	0.52
1:A:104:LEU:HB2	1:A:148:ALA:HA	1.92	0.52
1:B:181:LYS:HG3	1:B:182:PRO:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:LEU:HD22	1:B:191:MET:HG3	1.91	0.51
1:B:100:TYR:CD1	1:B:101:PRO:HD2	2.46	0.51
1:B:175:ASP:OD2	1:B:176:GLY:N	2.42	0.51
1:B:213:VAL:CG2	1:B:218:VAL:HG11	2.40	0.51
1:A:126:ASN:O	1:A:126:ASN:CG	2.54	0.51
1:A:143:VAL:CG1	1:B:143:VAL:HB	2.36	0.51
1:A:151:GLN:O	1:A:155:ILE:HG13	2.10	0.50
1:B:195:LEU:HD13	1:B:195:LEU:C	2.37	0.50
1:A:156:LEU:HD22	1:A:156:LEU:O	2.11	0.49
1:A:132:GLY:O	1:A:133:HIS:HB3	2.12	0.48
1:B:117:ILE:CD1	1:B:152:LEU:HD22	2.42	0.48
1:A:153:ALA:HB2	1:A:224:MET:HE1	1.95	0.48
1:A:168:LEU:O	1:A:228:LEU:HD22	2.13	0.47
1:B:190:THR:HB	1:B:212:TYR:HB2	1.96	0.47
1:A:107:LYS:HZ3	1:A:107:LYS:HB3	1.79	0.47
1:A:153:ALA:HB1	1:A:207:LEU:HD22	1.96	0.47
1:B:113:PRO:O	1:B:115:LYS:N	2.47	0.47
1:A:206:LYS:C	1:A:207:LEU:HD12	2.40	0.47
1:A:142:GLY:O	1:A:145:GLN:HB2	2.15	0.47
1:A:95:ILE:HD13	1:A:95:ILE:H	1.80	0.46
1:A:116:THR:C	1:A:117:ILE:HG23	2.39	0.46
1:B:184:LEU:O	1:B:187:ASP:HB2	2.15	0.46
1:B:207:LEU:O	1:B:223:GLU:HA	2.15	0.46
1:B:122:GLN:HG2	1:B:188:THR:OG1	2.16	0.46
1:B:207:LEU:N	1:B:207:LEU:CD2	2.78	0.45
1:B:196:ILE:HD11	1:B:208:SER:HB3	1.97	0.45
1:B:109:ILE:HD13	1:B:120:LEU:CG	2.43	0.45
1:B:167:ASN:HD22	1:B:167:ASN:HA	1.58	0.45
1:B:170:LEU:HD12	1:B:170:LEU:O	2.18	0.44
1:B:206:LYS:NZ	1:B:223:GLU:CB	2.81	0.43
1:A:176:GLY:N	1:B:175:ASP:OD1	2.52	0.43
1:B:101:PRO:HG2	1:B:102:PHE:CD1	2.53	0.43
1:A:143:VAL:HG11	1:B:143:VAL:O	2.18	0.43
1:A:154:GLY:C	1:A:156:LEU:N	2.76	0.43
1:A:176:GLY:N	1:B:175:ASP:CG	2.68	0.42
1:B:96:LEU:C	1:B:96:LEU:HD13	2.44	0.42
1:B:156:LEU:O	1:B:157:CYS:C	2.62	0.42
1:B:219:ILE:HG23	1:B:219:ILE:O	2.19	0.42
1:B:103:LEU:HD12	1:B:151:GLN:OE1	2.18	0.42
1:A:100:TYR:CG	1:A:101:PRO:HD2	2.54	0.42
1:A:140:MET:HA	1:A:141:PRO:HD3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:176:GLY:H	1:B:175:ASP:CB	2.32	0.42
1:B:123:VAL:HG21	1:B:183:VAL:HG12	2.01	0.42
1:B:130:PHE:HB2	1:B:131:ASN:H	1.52	0.42
1:A:117:ILE:HD13	1:A:117:ILE:HG21	1.79	0.42
1:A:158:LEU:HD12	1:A:158:LEU:HA	1.93	0.42
1:A:124:SER:HB2	1:A:127:GLU:OE1	2.19	0.42
1:B:176:GLY:HA3	1:B:222:SER:OG	2.20	0.42
1:A:117:ILE:CD1	1:A:152:LEU:HD13	2.50	0.41
1:A:109:ILE:O	1:A:110:TYR:HB2	2.20	0.41
1:A:122:GLN:HA	1:A:122:GLN:NE2	2.32	0.41
1:B:177:VAL:HA	1:B:220:ASN:O	2.21	0.41
1:A:129:PHE:CB	1:A:144:LEU:CD1	2.98	0.41
1:B:139:ILE:O	1:B:141:PRO:HD3	2.21	0.40
1:B:113:PRO:C	1:B:115:LYS:N	2.80	0.40
1:B:139:ILE:CG2	1:B:140:MET:N	2.84	0.40
1:A:134:PHE:CB	1:A:135:PRO:CD	2.77	0.40
1:B:106:ASP:OD2	1:B:121:LYS:HA	2.21	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	120/136 (88%)	102 (85%)	9 (8%)	9 (8%)	<b>1</b> <b>1</b>
1	B	110/136 (81%)	97 (88%)	11 (10%)	2 (2%)	<b>6</b> <b>18</b>
All	All	230/272 (85%)	199 (86%)	20 (9%)	11 (5%)	<b>2</b> <b>3</b>

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	135	PRO

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Mol	Chain	Res	Type
1	A	136	GLN
1	B	114	ASN
1	A	113	PRO
1	A	114	ASN
1	A	171	PHE
1	A	97	PRO
1	A	132	GLY
1	A	133	HIS
1	B	127	GLU
1	A	219	ILE

### 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	106/118 (90%)	88 (83%)	18 (17%)	<b>2</b> <b>6</b>
1	B	93/118 (79%)	83 (89%)	10 (11%)	<b>6</b> <b>16</b>
All	All	199/236 (84%)	171 (86%)	28 (14%)	<b>3</b> <b>9</b>

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	94	LYS
1	A	95	ILE
1	A	99	ARG
1	A	107	LYS
1	A	127	GLU
1	A	136	GLN
1	A	146	ILE
1	A	152	LEU
1	A	156	LEU
1	A	158	LEU
1	A	167	ASN
1	A	168	LEU
1	A	175	ASP

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Mol	Chain	Res	Type
1	A	181	LYS
1	A	198	PHE
1	A	207	LEU
1	A	212	TYR
1	A	228	LEU
1	B	99	ARG
1	B	113	PRO
1	B	125	THR
1	B	152	LEU
1	B	167	ASN
1	B	177	VAL
1	B	180	LYS
1	B	189	LEU
1	B	201	SER
1	B	207	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	122	GLN
1	A	194	ASN
1	B	138	GLN
1	B	167	ASN
1	B	192	GLN
1	B	194	ASN

### 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 oligosaccharides 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

### 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	126/136 (92%)	0.87	12 (9%) 14 11	29, 70, 102, 133	0
1	B	118/136 (86%)	0.85	13 (11%) 10 9	34, 72, 108, 121	0
All	All	244/272 (89%)	0.86	25 (10%) 12 10	29, 72, 108, 133	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	135	PRO	3.8
1	A	96	LEU	3.7
1	B	204	ILE	3.6
1	A	169	PHE	3.5
1	B	129	PHE	3.5
1	A	175	ASP	3.4
1	A	95	ILE	3.2
1	B	199	LYS	3.1
1	B	130	PHE	3.1
1	B	227	ALA	3.0
1	B	103	LEU	2.8
1	B	197	SER	2.7
1	B	132	GLY	2.6
1	A	139	ILE	2.5
1	A	134	PHE	2.5
1	A	205	ALA	2.4
1	A	97	PRO	2.4
1	A	138	GLN	2.3
1	B	131	ASN	2.2
1	B	195	LEU	2.1
1	B	202	LEU	2.1
1	A	131	ASN	2.1
1	B	167	ASN	2.1
1	A	130	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	205	ALA	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 oligosaccharides 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.