



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 09:01 PM GMT

PDB ID : 1N5B
Title : Crystal Structure Of The Yersinia enterocolitica Molecular Chaperone Syce
Authors : Trame, C.B.; McKay, D.B.
Deposited on : 2002-11-05
Resolution : 2.00 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

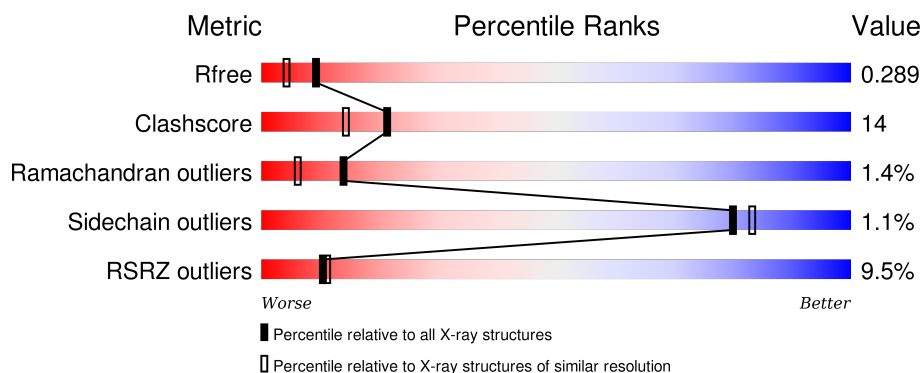
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	6249 (2.00-2.00)
Clashscore	102246	7340 (2.00-2.00)
Ramachandran outliers	100387	7248 (2.00-2.00)
Sidechain outliers	100360	7247 (2.00-2.00)
RSRZ outliers	91569	6262 (2.00-2.00)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	132	<div> <div>11%</div> <div>74%</div> <div>21%</div> <div>• •</div> </div>
1	B	132	<div> <div>8%</div> <div>67%</div> <div>23%</div> <div>• 8%</div> </div>
1	C	132	<div> <div>5%</div> <div>67%</div> <div>23%</div> <div>• 9%</div> </div>
1	D	132	<div> <div>11%</div> <div>64%</div> <div>30%</div> <div>• •</div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4039 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 YOPE regulator.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	128	Total	C	N	O	S	0	0	0
			1013	645	169	196	3			
1	B	121	Total	C	N	O	S	0	0	0
			965	614	162	186	3			
1	C	120	Total	C	N	O	S	0	0	0
			959	612	161	183	3			
1	D	128	Total	C	N	O	S	0	0	0
			1013	645	169	196	3			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	131	PRO	-	SEE REMARK 999	UNP P31490
A	132	GLY	-	SEE REMARK 999	UNP P31490
B	131	PRO	-	SEE REMARK 999	UNP P31490
B	132	GLY	-	SEE REMARK 999	UNP P31490
C	131	PRO	-	SEE REMARK 999	UNP P31490
C	132	GLY	-	SEE REMARK 999	UNP P31490
D	131	PRO	-	SEE REMARK 999	UNP P31490
D	132	GLY	-	SEE REMARK 999	UNP P31490

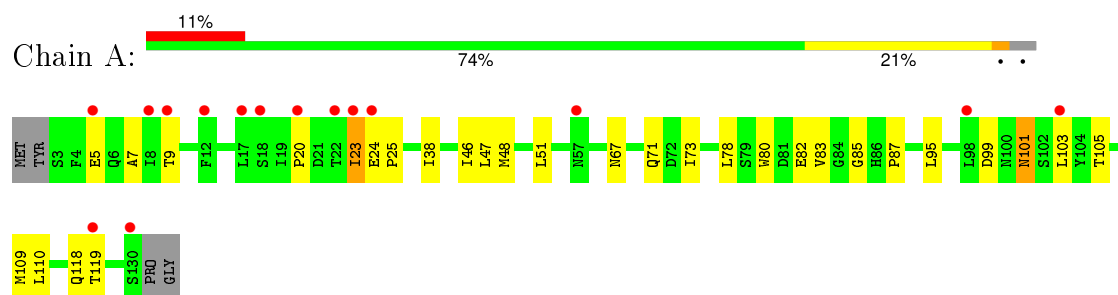
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	16	Total	O	0	0
			16	16		
2	B	22	Total	O	0	0
			22	22		
2	C	24	Total	O	0	0
			24	24		
2	D	27	Total	O	0	0
			27	27		

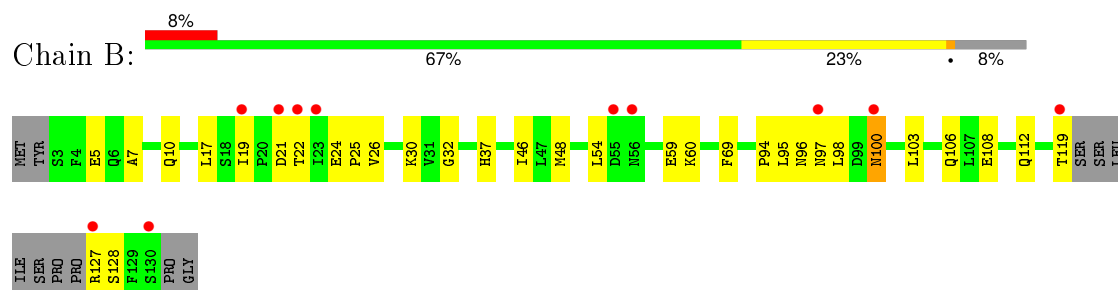
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

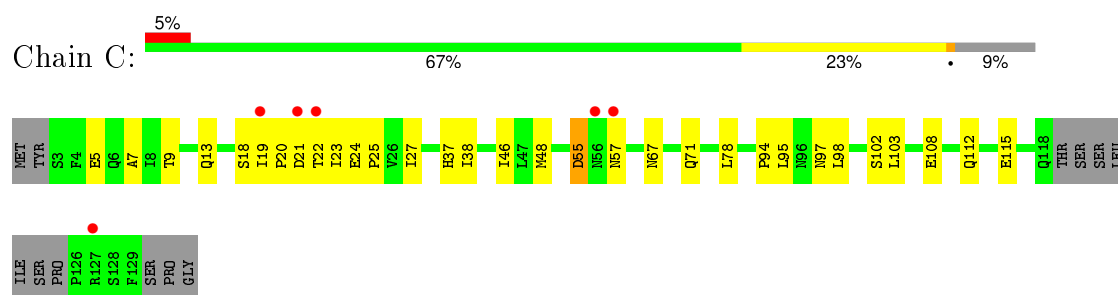
• Molecule 1: YOPE regulator



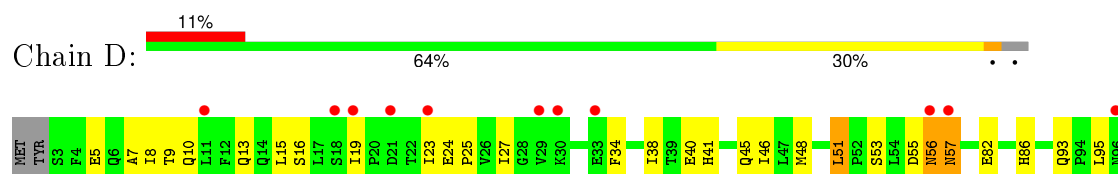
• Molecule 1: YOPE regulator



• Molecule 1: YOPE regulator



• Molecule 1: YOPE regulator





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	52.55Å 92.67Å 101.05Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.54 – 2.00 68.30 – 1.97	Depositor EDS
% Data completeness (in resolution range)	95.4 (29.54-2.00) 94.4 (68.30-1.97)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.23 (at 1.97Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.248 , 0.290 0.247 , 0.289	Depositor DCC
R_{free} test set	3223 reflections (9.91%)	DCC
Wilson B-factor (Å ²)	34.0	Xtriage
Anisotropy	0.396	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 50.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	2 of 34707 reflections (0.006%)	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4039	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.70% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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	0.33	0/1036	0.54	0/1413
1	B	0.33	0/985	0.54	0/1340
1	C	0.36	0/980	0.57	0/1333
1	D	0.32	0/1036	0.55	0/1413
All	All	0.33	0/4037	0.55	0/5499

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	1013	0	1000	23	0
1	B	965	0	948	29	0
1	C	959	0	944	29	0
1	D	1013	0	1000	38	0
2	A	16	0	0	1	0
2	B	22	0	0	1	0
2	C	24	0	0	1	0
2	D	27	0	0	2	0
All	All	4039	0	3892	111	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 14.

All (111) 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:67:ASN:HD21	1:A:78:LEU:H	1.16	0.91
1:C:67:ASN:HD21	1:C:78:LEU:H	1.18	0.90
1:A:38:ILE:HG12	1:A:48:MET:HG2	1.54	0.90
1:B:7:ALA:HB1	1:B:103:LEU:HD11	1.57	0.86
1:D:8:ILE:HG21	1:D:27:ILE:HD13	1.60	0.82
1:A:80:TRP:HE1	1:C:71:GLN:HE22	1.32	0.78
1:D:8:ILE:HG13	1:D:27:ILE:HD12	1.66	0.78
1:C:23:ILE:HG23	1:C:27:ILE:HD11	1.68	0.76
1:C:24:GLU:CG	1:C:25:PRO:HD2	2.17	0.74
1:D:53:SER:HB2	1:D:118:GLN:HE21	1.54	0.73
1:B:10:GLN:HE22	1:B:100:ASN:HA	1.55	0.72
1:B:24:GLU:HB3	1:B:25:PRO:HD2	1.73	0.71
1:B:119:THR:HG23	1:C:115:GLU:OE2	1.92	0.69
1:D:8:ILE:HG13	1:D:27:ILE:CD1	2.24	0.68
1:C:7:ALA:HB1	1:C:103:LEU:HD11	1.74	0.68
1:B:48:MET:HE3	1:B:106:GLN:HB3	1.76	0.68
1:D:122:LEU:HG	1:D:123:ILE:HG12	1.75	0.68
1:C:5:GLU:OE1	1:C:23:ILE:HB	1.96	0.65
1:D:95:LEU:HD23	1:D:98:LEU:HD11	1.78	0.65
1:D:9:THR:O	1:D:13:GLN:HG3	1.97	0.64
1:C:38:ILE:HG12	1:C:48:MET:HG2	1.77	0.64
1:C:19:ILE:HD12	1:C:19:ILE:N	2.13	0.64
1:C:67:ASN:ND2	1:C:78:LEU:H	1.93	0.62
1:C:24:GLU:HG2	1:C:25:PRO:HD2	1.80	0.62
1:D:23:ILE:CG2	1:D:27:ILE:HD11	2.30	0.62
1:D:19:ILE:N	1:D:19:ILE:HD12	2.15	0.61
1:B:46:ILE:HD11	1:B:95:LEU:HD13	1.82	0.61
1:B:100:ASN:HD22	1:B:100:ASN:N	1.98	0.61
1:B:127:ARG:HG2	1:B:128:SER:N	2.16	0.61
1:C:19:ILE:H	1:C:19:ILE:HD12	1.66	0.60
1:A:85:GLY:HA2	1:C:71:GLN:HE21	1.67	0.60
1:A:85:GLY:HA2	1:C:71:GLN:NE2	2.17	0.60
1:A:5:GLU:O	1:A:9:THR:HG23	2.00	0.60
1:D:24:GLU:HB3	1:D:25:PRO:HD2	1.84	0.60
1:A:67:ASN:ND2	1:A:78:LEU:H	1.95	0.59
1:A:46:ILE:HD11	1:A:95:LEU:HD13	1.84	0.59
1:D:51:LEU:N	1:D:51:LEU:HD22	2.17	0.59
1:D:38:ILE:CG2	1:D:46:ILE:HD11	2.33	0.58
1:C:94:PRO:CG	1:C:97:ASN:HD22	2.18	0.57
1:D:122:LEU:H	1:D:122:LEU:HD23	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:19:ILE:HD12	1:B:19:ILE:H	1.70	0.56
1:A:105:THR:O	1:A:109:MET:HG2	2.05	0.56
1:D:55:ASP:O	1:D:57:ASN:N	2.37	0.56
1:B:95:LEU:HD12	1:B:98:LEU:HD22	1.88	0.56
1:A:7:ALA:HB1	1:A:103:LEU:HD11	1.88	0.55
1:D:116:ARG:NH2	2:D:155:HOH:O	2.40	0.54
1:B:19:ILE:N	1:B:19:ILE:HD12	2.22	0.54
1:C:24:GLU:HG3	1:C:25:PRO:HD2	1.87	0.54
1:D:122:LEU:HD23	1:D:122:LEU:N	2.22	0.54
1:C:18:SER:O	1:C:20:PRO:HD3	2.08	0.54
1:B:17:LEU:O	1:B:19:ILE:HD12	2.07	0.54
1:C:23:ILE:CG2	1:C:27:ILE:HD11	2.35	0.53
1:B:119:THR:HG22	1:C:112:GLN:HG2	1.91	0.53
1:D:46:ILE:HG22	1:D:93:GLN:O	2.09	0.53
1:D:53:SER:CB	1:D:118:GLN:HE21	2.20	0.52
1:D:19:ILE:HD12	1:D:19:ILE:H	1.73	0.52
1:C:9:THR:O	1:C:13:GLN:HG3	2.10	0.52
1:D:38:ILE:HG12	1:D:48:MET:HG2	1.91	0.52
1:A:83:VAL:O	1:D:41:HIS:HE1	1.93	0.52
1:B:21:ASP:HB2	2:B:151:HOH:O	2.09	0.51
1:D:95:LEU:HA	1:D:98:LEU:HG	1.92	0.51
1:D:34:PHE:CE2	1:D:114:ALA:HB1	2.45	0.51
1:B:108:GLU:O	1:B:112:GLN:HG3	2.09	0.50
1:D:107:LEU:O	1:D:111:VAL:HG23	2.10	0.50
1:B:94:PRO:HB2	1:B:96:ASN:OD1	2.10	0.50
1:D:113:GLY:HA2	1:D:116:ARG:NH1	2.27	0.50
1:D:122:LEU:H	1:D:122:LEU:CD2	2.24	0.50
1:B:37:HIS:O	1:B:48:MET:HA	2.12	0.49
1:D:23:ILE:HG23	1:D:27:ILE:HD11	1.94	0.49
1:C:46:ILE:HD11	1:C:95:LEU:HD13	1.95	0.49
1:A:80:TRP:CZ3	1:A:87:PRO:HD3	2.47	0.49
1:A:73:ILE:C	1:A:73:ILE:HD12	2.33	0.48
1:A:48:MET:HB3	1:A:110:LEU:HD22	1.95	0.48
1:B:100:ASN:N	1:B:100:ASN:ND2	2.60	0.48
1:A:23:ILE:O	1:A:23:ILE:HG22	2.14	0.47
1:D:108:GLU:O	1:D:112:GLN:HG3	2.14	0.47
1:B:119:THR:CG2	1:C:112:GLN:HG2	2.45	0.46
1:D:51:LEU:HD12	1:D:86:HIS:CD2	2.50	0.45
1:D:15:LEU:O	1:D:16:SER:HB2	2.16	0.45
1:B:7:ALA:CB	1:B:103:LEU:HD11	2.37	0.45
1:B:30:LYS:HE3	1:B:32:GLY:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:8:ILE:CG2	1:D:27:ILE:HD13	2.39	0.45
1:C:37:HIS:O	1:C:48:MET:HA	2.17	0.45
1:D:40:GLU:HA	1:D:45:GLN:O	2.17	0.44
1:C:55:ASP:O	1:C:57:ASN:N	2.45	0.44
1:D:123:ILE:HG22	1:D:125:PRO:HD3	2.00	0.43
1:B:19:ILE:CD1	1:B:19:ILE:H	2.31	0.43
1:A:47:LEU:HD21	1:B:69:PHE:CZ	2.53	0.43
1:B:5:GLU:CD	1:B:5:GLU:H	2.21	0.43
1:B:7:ALA:HB1	1:B:103:LEU:CD1	2.38	0.43
1:C:94:PRO:HG3	1:C:97:ASN:HD22	1.83	0.43
1:D:9:THR:HG23	1:D:19:ILE:HG12	2.00	0.42
1:A:46:ILE:CG1	1:A:95:LEU:HD13	2.49	0.42
1:A:82:GLU:HG3	2:C:155:HOH:O	2.18	0.42
1:D:8:ILE:HG21	1:D:27:ILE:CD1	2.38	0.42
1:C:21:ASP:CG	1:C:22:THR:H	2.22	0.42
1:B:22:THR:O	1:B:22:THR:HG23	2.19	0.42
1:C:108:GLU:O	1:C:112:GLN:HG3	2.19	0.42
1:B:59:GLU:HG3	1:B:60:LYS:N	2.36	0.41
1:D:7:ALA:O	1:D:103:LEU:HD13	2.21	0.41
1:A:24:GLU:HG2	1:A:25:PRO:HD2	2.01	0.41
1:C:24:GLU:HG2	1:C:25:PRO:CD	2.50	0.41
1:A:99:ASP:C	1:A:101:ASN:H	2.24	0.41
1:A:46:ILE:CD1	1:A:95:LEU:HD13	2.51	0.41
1:A:71:GLN:HG3	2:A:144:HOH:O	2.19	0.41
1:D:10:GLN:HE22	1:D:100:ASN:HA	1.86	0.41
1:D:82:GLU:HB2	2:D:144:HOH:O	2.20	0.40
1:B:25:PRO:HG2	1:B:26:VAL:H	1.86	0.40
1:A:118:GLN:HG2	1:A:119:THR:N	2.36	0.40
1:B:96:ASN:CG	1:B:97:ASN:N	2.75	0.40
1:C:98:LEU:HD22	1:C:102:SER:HB3	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	126/132 (96%)	118 (94%)	5 (4%)	3 (2%)	7	2
1	B	117/132 (89%)	110 (94%)	6 (5%)	1 (1%)	21	13
1	C	116/132 (88%)	110 (95%)	5 (4%)	1 (1%)	21	13
1	D	126/132 (96%)	117 (93%)	7 (6%)	2 (2%)	12	5
All	All	485/528 (92%)	455 (94%)	23 (5%)	7 (1%)	14	6

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	56	ASN
1	A	101	ASN
1	D	57	ASN
1	C	55	ASP
1	A	20	PRO
1	A	23	ILE
1	B	54	LEU

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	119/122 (98%)	118 (99%)	1 (1%)	86	89
1	B	112/122 (92%)	111 (99%)	1 (1%)	84	88
1	C	111/122 (91%)	111 (100%)	0	100	100
1	D	119/122 (98%)	116 (98%)	3 (2%)	55	55
All	All	461/488 (94%)	456 (99%)	5 (1%)	80	83

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	LEU

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Mol	Chain	Res	Type
1	B	100	ASN
1	D	5	GLU
1	D	51	LEU
1	D	56	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	GLN
1	A	56	ASN
1	A	67	ASN
1	A	96	ASN
1	A	112	GLN
1	B	10	GLN
1	B	86	HIS
1	B	100	ASN
1	B	101	ASN
1	C	10	GLN
1	C	58	ASN
1	C	67	ASN
1	C	71	GLN
1	C	97	ASN
1	C	100	ASN
1	D	10	GLN
1	D	41	HIS
1	D	56	ASN
1	D	97	ASN
1	D	118	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95th 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 ²)	Q<0.9
1	A	128/132 (96%)	0.84	15 (11%) 6 7	23, 51, 82, 92	0
1	B	121/132 (91%)	0.74	11 (9%) 11 12	24, 45, 81, 88	0
1	C	120/132 (90%)	0.44	6 (5%) 32 34	20, 38, 78, 85	0
1	D	128/132 (96%)	0.78	15 (11%) 6 7	24, 49, 79, 84	0
All	All	497/528 (94%)	0.70	47 (9%) 10 11	20, 45, 81, 92	0

All (47) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	22	THR	8.1
1	B	21	ASP	5.4
1	B	119	THR	5.2
1	A	9	THR	5.1
1	B	56	ASN	4.9
1	D	56	ASN	4.8
1	A	98	LEU	4.7
1	B	100	ASN	4.7
1	C	56	ASN	4.2
1	C	127	ARG	4.1
1	A	12	PHE	3.9
1	D	30	LYS	3.9
1	A	18	SER	3.9
1	C	21	ASP	3.5
1	A	17	LEU	3.3
1	B	19	ILE	3.3
1	B	55	ASP	3.2
1	D	21	ASP	3.2
1	D	33	GLU	3.2
1	C	57	ASN	3.2
1	A	20	PRO	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	23	ILE	3.0
1	A	24	GLU	2.9
1	D	19	ILE	2.8
1	D	57	ASN	2.8
1	B	127	ARG	2.8
1	B	22	THR	2.8
1	A	5	GLU	2.8
1	A	130	SER	2.7
1	D	98	LEU	2.7
1	A	57	ASN	2.6
1	B	130	SER	2.4
1	A	8	ILE	2.4
1	D	18	SER	2.4
1	A	119	THR	2.3
1	A	103	LEU	2.3
1	D	100	ASN	2.2
1	D	127	ARG	2.1
1	C	22	THR	2.1
1	D	104	TYR	2.1
1	D	11	LEU	2.1
1	B	23	ILE	2.1
1	B	97	ASN	2.1
1	D	29	VAL	2.1
1	C	19	ILE	2.0
1	D	96	ASN	2.0
1	D	23	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.