



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:04 PM UTC

PDB ID : 1KU0 / pdb_00001ku0
Title : Structure of the Bacillus stearothermophilus L1 lipase
Authors : Jeong, S.-T.; Kim, H.-K.; Kim, S.-J.; Chi, S.-W.; Pan, J.-G.; Oh, T.-K.; Ryu, S.-E.
Deposited on : 2002-01-18
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

<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>.

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

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (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

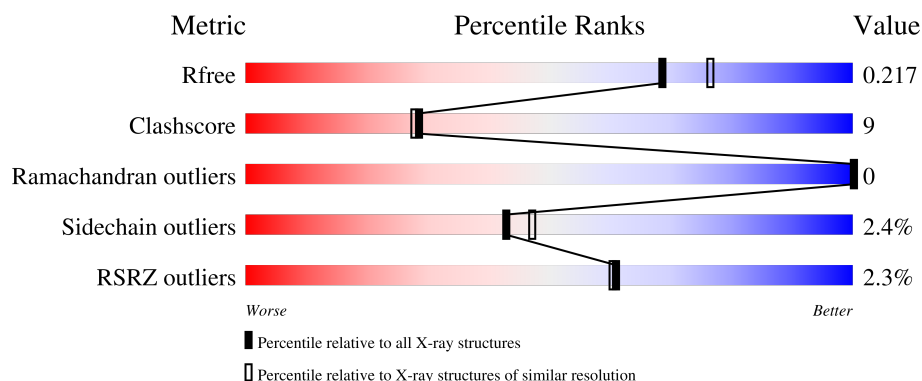
1 Overall quality at a glance

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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 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 $\leq 5\%$. 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	388	3% 81% 18% .
1	B	388	2% 81% 16% ..

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6347 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 L1 lipase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	388	Total	C	N	O	S	0	0	0
			3052	1932	542	570	8			
1	B	385	Total	C	N	O	S	0	0	0
			3034	1921	539	566	8			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	84	LYS	ASN	conflict	UNP O66015
A	85	HIS	ASP	conflict	UNP O66015
A	355	ASN	LYS	conflict	UNP O66015
B	1084	LYS	ASN	conflict	UNP O66015
B	1085	HIS	ASP	conflict	UNP O66015
B	1355	ASN	LYS	conflict	UNP O66015

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		
2	B	1	Total	Zn	0	0
			1	1		

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Ca	0	0
			1	1		
3	B	1	Total	Ca	0	0
			1	1		

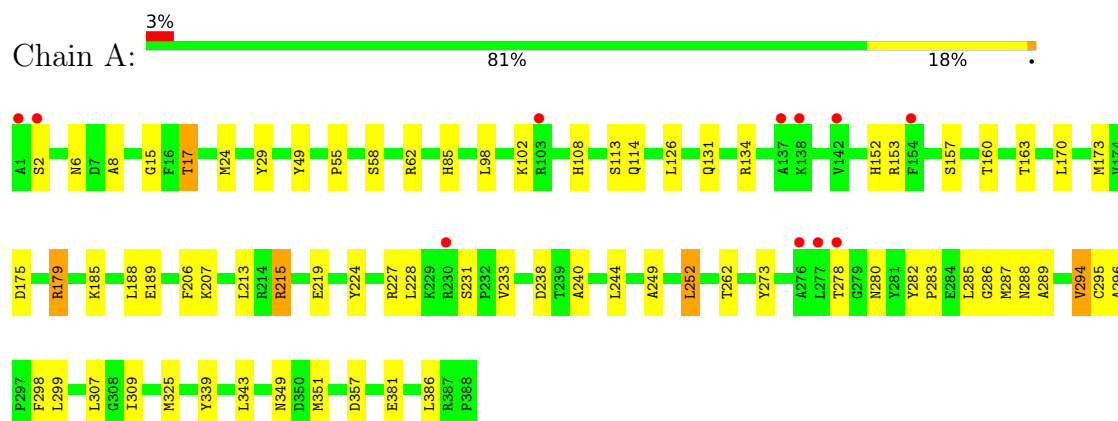
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	124	Total 124	O 124	0	0
4	B	133	Total 133	O 133	0	0

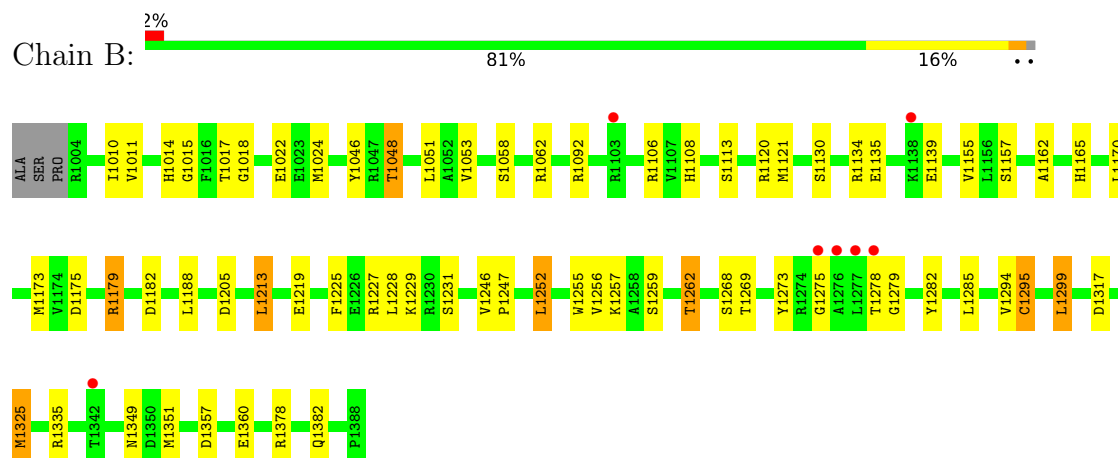
3 Residue-property plots [i](#)

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: L1 lipase



• Molecule 1: L1 lipase



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	119.62Å 85.04Å 98.36Å 90.00° 99.73° 90.00°	Depositor
Resolution (Å)	99.00 – 2.00 96.94 – 2.00	Depositor EDS
% Data completeness (in resolution range)	96.9 (99.00-2.00) 96.9 (96.94-2.00)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.84 (at 2.00Å)	Xtriage
Refinement program	CNS 0.9	Depositor
R, R_{free}	0.185 , 0.218 0.185 , 0.217	Depositor DCC
R_{free} test set	3206 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	20.5	Xtriage
Anisotropy	0.067	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 55.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.37$, $\langle L^2 \rangle = 0.20$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6347	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.14% 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, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, CA

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	0.36	0/3136	0.86	7/4265 (0.2%)
1	B	0.38	1/3117 (0.0%)	0.85	7/4238 (0.2%)
All	All	0.37	1/6253 (0.0%)	0.85	14/8503 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1325	MET	SD-CE	-6.75	1.62	1.79

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1325	MET	N-CA-C	10.76	126.58	113.23
1	A	325	MET	N-CA-C	9.58	124.77	112.89
1	B	1294	VAL	N-CA-C	8.57	119.18	111.81
1	A	294	VAL	N-CA-C	7.69	118.42	111.81
1	A	289	ALA	N-CA-C	6.91	118.46	111.07
1	A	295	CYS	N-CA-C	5.76	120.35	112.68
1	A	240	ALA	N-CA-C	-5.72	105.13	111.36
1	B	1155	VAL	N-CA-C	5.60	116.82	108.54
1	B	1182	ASP	N-CA-C	-5.55	105.38	111.82
1	A	17	THR	N-CA-C	-5.51	100.69	109.23
1	B	1017	THR	N-CA-C	-5.33	100.00	109.06
1	B	1295	CYS	N-CA-C	5.32	119.76	112.68
1	B	1113	SER	CB-CA-C	-5.29	110.49	116.63
1	A	113	SER	CB-CA-C	-5.12	110.66	116.54

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	3052	0	2926	48	0
1	B	3034	0	2906	57	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	124	0	0	1	0
4	B	133	0	0	2	0
All	All	6347	0	5832	105	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 9.

All (105) 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:1268:SER:HA	1:B:1325:MET:HE2	1.33	1.11
1:B:1162:ALA:HA	1:B:1325:MET:HE3	1.12	1.07
1:B:1162:ALA:HA	1:B:1325:MET:CE	2.01	0.89
1:B:1014:HIS:HE1	1:B:1053:VAL:H	1.27	0.83
1:B:1268:SER:HA	1:B:1325:MET:CE	2.08	0.82
1:B:1162:ALA:CA	1:B:1325:MET:HE3	2.05	0.78
1:A:278:THR:HG21	1:A:282:TYR:OH	1.84	0.77
1:A:349:ASN:HB3	1:A:351:MET:HE3	1.66	0.76
1:B:1269:THR:N	1:B:1325:MET:HE1	2.03	0.73
1:B:1015:GLY:O	1:B:1062:ARG:NH2	2.24	0.70
1:B:1269:THR:H	1:B:1325:MET:HE1	1.56	0.70
1:A:231:SER:OG	1:A:233:VAL:HG12	1.91	0.70
1:A:17:THR:HG23	1:A:29:TYR:HE1	1.56	0.69
1:A:278:THR:HG23	1:A:280:ASN:H	1.58	0.69
1:A:349:ASN:HB3	1:A:351:MET:CE	2.23	0.69
1:A:24:MET:HE1	1:A:188:LEU:HD23	1.75	0.67
1:A:58:SER:O	1:A:62:ARG:HG3	1.96	0.64
1:A:339:TYR:HB2	1:A:351:MET:HE2	1.79	0.64
1:A:349:ASN:CB	1:A:351:MET:HE3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:GLY:O	1:A:62:ARG:NH2	2.31	0.64
1:B:1014:HIS:CE1	1:B:1053:VAL:H	2.15	0.63
1:B:1278:THR:HG21	1:B:1282:TYR:OH	1.97	0.63
1:A:339:TYR:HB2	1:A:351:MET:CE	2.28	0.63
1:B:1011:VAL:HG13	1:B:1051:LEU:HG	1.81	0.62
1:A:108:HIS:HD2	1:A:157:SER:OG	1.83	0.60
1:A:55:PRO:HA	1:A:62:ARG:HH21	1.67	0.60
1:A:307:LEU:HB2	1:A:309:ILE:HD13	1.84	0.60
1:A:283:PRO:HG3	1:A:296:ALA:HB3	1.85	0.58
1:B:1011:VAL:CG1	1:B:1051:LEU:HG	2.33	0.57
1:B:1269:THR:H	1:B:1325:MET:CE	2.16	0.57
1:B:1014:HIS:CG	1:B:1018:GLY:HA3	2.40	0.56
1:B:1121:MET:HE2	1:B:1255:TRP:CZ2	2.40	0.56
1:A:114:GLN:NE2	1:A:244:LEU:HG	2.21	0.56
1:B:1349:ASN:HB3	1:B:1351:MET:CE	2.35	0.56
1:B:1278:THR:HG21	1:B:1282:TYR:CE1	2.41	0.56
1:A:170:LEU:HB2	1:A:299:LEU:HD11	1.88	0.55
1:A:283:PRO:HG3	1:A:296:ALA:CB	2.37	0.55
1:B:1335:ARG:HH11	1:B:1335:ARG:HB2	1.71	0.54
1:B:1349:ASN:HB3	1:B:1351:MET:HE3	1.89	0.54
1:A:343:LEU:HD12	1:A:386:LEU:HD21	1.90	0.54
1:B:1024:MET:HE1	1:B:1188:LEU:HD23	1.91	0.53
1:A:2:SER:HB3	1:A:381:GLU:OE1	2.09	0.52
1:B:1275:GLY:HA3	1:B:1278:THR:CG2	2.40	0.52
1:A:219:GLU:OE1	1:A:227:ARG:HD3	2.10	0.52
1:A:285:LEU:HD23	1:A:286:GLY:N	2.25	0.52
1:B:1108:HIS:HD2	1:B:1157:SER:OG	1.93	0.52
1:A:49:TYR:CE1	1:A:98:LEU:HD21	2.46	0.51
1:B:1275:GLY:HA3	1:B:1278:THR:HG22	1.93	0.50
1:B:1092:ARG:NH2	1:B:1205:ASP:OD1	2.41	0.49
1:B:1173:MET:HE3	1:B:1179:ARG:HG2	1.95	0.49
1:A:179:ARG:HG3	1:A:294:VAL:HG11	1.95	0.49
1:A:173:MET:HE2	1:A:298:PHE:CB	2.43	0.49
1:B:1278:THR:HG23	1:B:1279:GLY:N	2.28	0.48
1:B:1092:ARG:HH22	1:B:1205:ASP:CG	2.22	0.48
1:B:1010:ILE:O	1:B:1048:THR:HA	2.14	0.48
1:B:1014:HIS:CD2	1:B:1018:GLY:HA3	2.48	0.48
1:B:1225:PHE:O	1:B:1229:LYS:HG3	2.13	0.47
1:A:215:ARG:HG3	1:A:224:TYR:CD2	2.49	0.47
1:A:85:HIS:CD2	1:A:238:ASP:HB2	2.50	0.46
1:A:349:ASN:O	1:A:351:MET:HE3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1120:ARG:HH11	1:B:1165:HIS:HD2	1.63	0.46
1:B:1349:ASN:CB	1:B:1351:MET:HE3	2.45	0.46
1:A:6:ASN:OD1	1:A:108:HIS:HE1	1.98	0.46
1:B:1022:GLU:HB2	4:B:2471:HOH:O	2.15	0.46
1:B:1246:VAL:N	1:B:1247:PRO:HD2	2.31	0.46
1:A:17:THR:HG23	1:A:29:TYR:CE1	2.45	0.45
1:B:1011:VAL:HG11	1:B:1051:LEU:HD11	1.98	0.45
1:B:1278:THR:HG21	1:B:1282:TYR:CZ	2.51	0.45
1:B:1257:LYS:HE2	4:B:2264:HOH:O	2.16	0.45
1:B:1357:ASP:OD1	1:B:1360:GLU:HG3	2.17	0.45
1:A:131:GLN:HG2	1:A:134:ARG:NH2	2.32	0.44
1:A:108:HIS:CD2	1:A:157:SER:OG	2.69	0.44
1:B:1269:THR:N	1:B:1325:MET:CE	2.78	0.44
1:A:185:LYS:O	1:A:189:GLU:HG3	2.17	0.44
1:A:102:LYS:NZ	1:A:102:LYS:HB3	2.32	0.43
1:A:126:LEU:HB3	1:A:152:HIS:O	2.17	0.43
1:A:357:ASP:OD1	1:A:357:ASP:C	2.61	0.43
1:B:1046:TYR:O	1:B:1048:THR:HG23	2.18	0.43
1:B:1024:MET:HE1	1:B:1188:LEU:HA	2.01	0.43
1:A:8:ALA:HB3	1:A:108:HIS:CE1	2.54	0.43
1:A:206:PHE:C	1:A:207:LYS:HG2	2.44	0.43
1:B:1295:CYS:O	1:B:1299:LEU:HD22	2.19	0.43
1:B:1317:ASP:O	1:B:1357:ASP:HB2	2.19	0.43
1:B:1130:SER:O	1:B:1134:ARG:HG3	2.19	0.42
1:B:1378:ARG:O	1:B:1382:GLN:HG3	2.18	0.42
1:A:173:MET:CE	1:A:298:PHE:HB3	2.49	0.42
1:A:343:LEU:CD1	1:A:386:LEU:HD21	2.50	0.42
1:A:24:MET:CE	1:A:188:LEU:HD23	2.45	0.42
1:B:1219:GLU:OE1	1:B:1227:ARG:HD3	2.19	0.42
1:B:1170:LEU:HD13	1:B:1299:LEU:HD21	2.02	0.41
1:A:160:THR:HB	1:A:163:THR:OG1	2.20	0.41
1:A:287:MET:O	1:A:288:ASN:C	2.62	0.41
1:A:153:ARG:HA	4:A:2122:HOH:O	2.20	0.41
1:A:175:ASP:OD1	1:A:175:ASP:N	2.49	0.41
1:B:1108:HIS:CD2	1:B:1157:SER:OG	2.73	0.41
1:B:1273:TYR:CZ	1:B:1282:TYR:HB2	2.55	0.41
1:A:249:ALA:O	1:A:252:LEU:HB3	2.21	0.41
1:B:1135:GLU:O	1:B:1139:GLU:HG3	2.21	0.41
1:B:1357:ASP:CG	1:B:1360:GLU:HG3	2.45	0.41
1:B:1213:LEU:HD21	1:B:1231:SER:HB2	2.03	0.41
1:B:1259:SER:HB3	1:B:1262:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1058:SER:O	1:B:1062:ARG:HG3	2.21	0.40
1:B:1175:ASP:OD1	1:B:1175:ASP:N	2.47	0.40
1:A:273:TYR:CZ	1:A:282:TYR:HB2	2.56	0.40
1:B:1252:LEU:HD13	1:B:1256:VAL:CG2	2.52	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	386/388 (100%)	371 (96%)	15 (4%)	0	100	100
1	B	383/388 (99%)	370 (97%)	13 (3%)	0	100	100
All	All	769/776 (99%)	741 (96%)	28 (4%)	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	Percentiles	
1	A	315/315 (100%)	309 (98%)	6 (2%)	50	56
1	B	313/315 (99%)	304 (97%)	9 (3%)	37	40
All	All	628/630 (100%)	613 (98%)	15 (2%)	43	47

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	179	ARG
1	A	213	LEU
1	A	215	ARG
1	A	228	LEU
1	A	252	LEU
1	A	262	THR
1	B	1048	THR
1	B	1106	ARG
1	B	1179	ARG
1	B	1213	LEU
1	B	1228	LEU
1	B	1252	LEU
1	B	1262	THR
1	B	1285	LEU
1	B	1299	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	85	HIS
1	A	108	HIS
1	A	355	ASN
1	A	382	GLN
1	B	1014	HIS
1	B	1085	HIS
1	B	1108	HIS
1	B	1141	ASN
1	B	1165	HIS
1	B	1280	ASN
1	B	1355	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](#)

Of 4 ligands modelled in this entry, 4 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, 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	388/388 (100%)	-0.24	11 (2%) 55 54	10, 22, 46, 67	0
1	B	385/388 (99%)	-0.28	7 (1%) 67 67	9, 22, 43, 66	0
All	All	773/776 (99%)	-0.26	18 (2%) 61 60	9, 22, 44, 67	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1277	LEU	7.9
1	B	1278	THR	3.4
1	A	138	LYS	3.2
1	A	277	LEU	2.9
1	A	276	ALA	2.9
1	A	1	ALA	2.9
1	B	1103	ARG	2.7
1	A	2	SER	2.6
1	A	137	ALA	2.6
1	A	230	ARG	2.5
1	B	1138	LYS	2.3
1	A	142	VAL	2.3
1	A	278	THR	2.3
1	B	1276	ALA	2.2
1	A	154	PHE	2.1
1	A	103	ARG	2.1
1	B	1342	THR	2.1
1	B	1275	GLY	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](#)

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, 95th 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
3	CA	A	703	1/1	0.99	0.08	34,34,34,34	0
3	CA	B	704	1/1	0.99	0.08	31,31,31,31	0
2	ZN	A	701	1/1	1.00	0.02	31,31,31,31	0
2	ZN	B	702	1/1	1.00	0.03	25,25,25,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.