



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 17, 2021 – 07:51 PM JST

PDB ID : 7CO3
Title : HtrA-type protease AlgWS227A with tripeptide
Authors : Li, T.; Song, Y.J.; Bao, R.
Deposited on : 2020-08-03
Resolution : 1.90 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 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 : 2.18
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) : 2.18

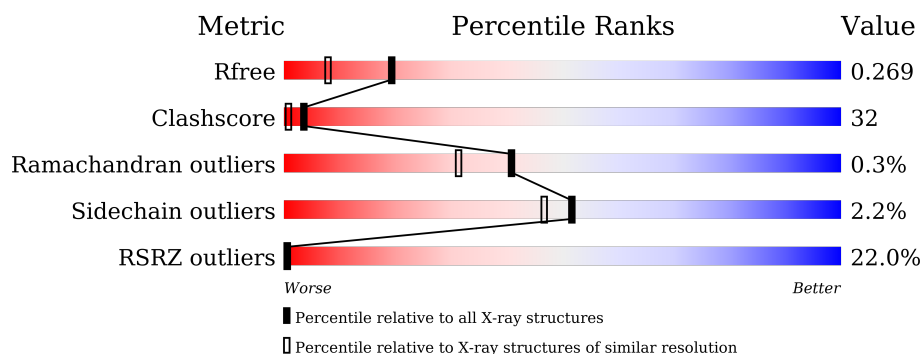
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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	C	3	<div> <div>100%</div> <div>100%</div> </div>
2	A	389	<div> <div>16%</div> <div>51%</div> <div>24%</div> <div>•</div> <div>23%</div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2371 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 TRP-VAL-PHE.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	C	3	Total	C	N	O	0	0	0
			32	25	4	3			

- Molecule 2 is a protein called AlgW protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	301	Total	C	N	O	S	0	0	0
			2174	1352	387	428	7			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	227	ALA	SER	engineered mutation	UNP Q9H VX1

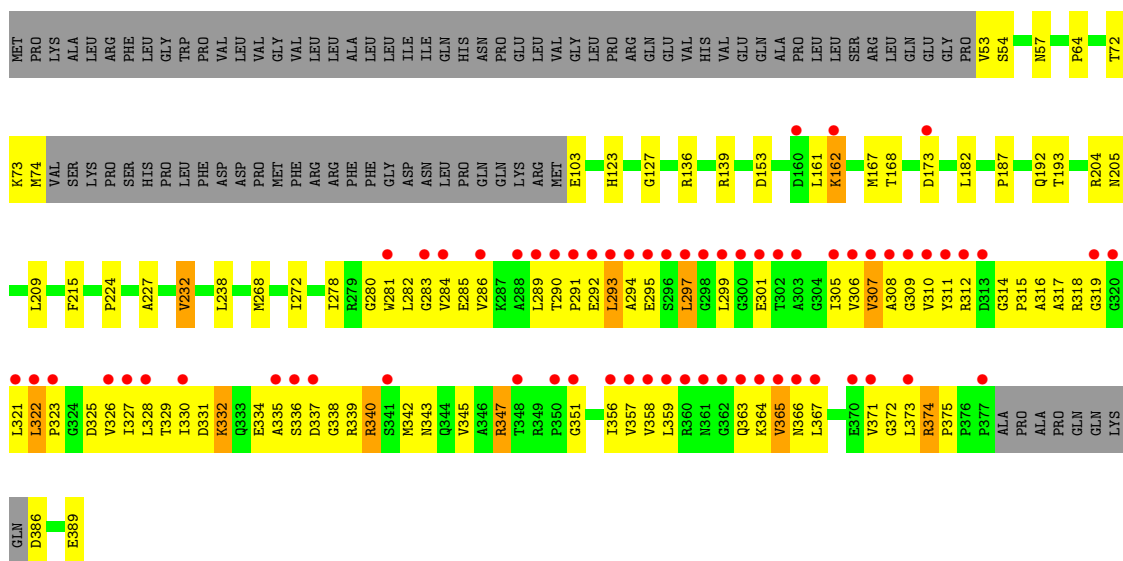
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	165	Total	O	0	0
			165	165		

- Molecule 1: TRP-VAL-PHE



Chain A:  16% 51% 24% 9%



4 Data and refinement statistics

Property	Value	Source
Space group	P 63 2 2	Depositor
Cell constants a, b, c, α , β , γ	96.61Å 96.61Å 119.55Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	39.49 – 1.90 39.49 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.8 (39.49-1.90) 99.8 (39.49-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.80 (at 1.89Å)	Xtriage
Refinement program	PHENIX 1.13_2998	Depositor
R, R_{free}	0.234 , 0.270 0.233 , 0.269	Depositor DCC
R_{free} test set	2000 reflections (7.51%)	wwPDB-VP
Wilson B-factor (Å ²)	24.1	Xtriage
Anisotropy	0.100	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 63.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2371	wwPDB-VP
Average B, all atoms (Å ²)	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.00% 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 [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	C	0.49	0/34	0.76	0/46
2	A	0.57	2/2197 (0.1%)	0.83	6/2980 (0.2%)
All	All	0.57	2/2231 (0.1%)	0.83	6/3026 (0.2%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	307	VAL	CB-CG2	-8.59	1.34	1.52
2	A	293	LEU	CG-CD2	-5.08	1.33	1.51

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	293	LEU	CB-CG-CD2	-10.06	93.90	111.00
2	A	322	LEU	CA-CB-CG	7.08	131.59	115.30
2	A	374	ARG	CG-CD-NE	6.87	126.23	111.80
2	A	332	LYS	CD-CE-NZ	-6.29	97.23	111.70
2	A	293	LEU	CB-CG-CD1	6.23	121.58	111.00
2	A	297	LEU	CA-CB-CG	5.24	127.36	115.30

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	C	32	0	30	5	0
2	A	2174	0	2217	141	1
3	A	165	0	0	26	0
All	All	2371	0	2247	142	1

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 (142) 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)
2:A:322:LEU:HD23	2:A:325:ASP:OD1	1.38	1.24
2:A:282:LEU:HD12	2:A:284:VAL:HB	1.28	1.12
2:A:310:VAL:HG23	3:A:442:HOH:O	1.63	0.99
2:A:358:VAL:HG12	3:A:499:HOH:O	1.65	0.97
2:A:373:LEU:HD12	3:A:536:HOH:O	1.69	0.91
2:A:282:LEU:HD12	2:A:284:VAL:CB	2.03	0.88
2:A:293:LEU:HD23	2:A:293:LEU:H	1.37	0.88
2:A:289:LEU:HD11	2:A:294:ALA:HB2	1.57	0.87
2:A:366:ASN:OD1	3:A:401:HOH:O	1.94	0.86
2:A:53:VAL:O	3:A:402:HOH:O	1.94	0.85
2:A:322:LEU:CD2	2:A:325:ASP:OD1	2.23	0.85
2:A:305:ILE:HG21	2:A:335:ALA:O	1.76	0.85
2:A:293:LEU:HD23	2:A:293:LEU:N	1.92	0.84
2:A:363:GLN:NE2	3:A:408:HOH:O	2.13	0.82
2:A:326:VAL:HB	2:A:359:LEU:HB2	1.63	0.78
2:A:290:THR:HB	2:A:293:LEU:HD21	1.65	0.78
2:A:357:VAL:HG13	2:A:365:VAL:H	1.52	0.73
2:A:297:LEU:HG	2:A:299:LEU:CD2	2.19	0.73
2:A:307:VAL:HG11	2:A:327:ILE:HD13	1.69	0.72
2:A:334:GLU:O	3:A:406:HOH:O	2.08	0.72
2:A:327:ILE:O	3:A:404:HOH:O	2.06	0.71
2:A:205:ASN:O	3:A:405:HOH:O	2.07	0.71
2:A:307:VAL:HG12	3:A:520:HOH:O	1.90	0.71
2:A:289:LEU:HD13	2:A:306:VAL:HG23	1.74	0.69
2:A:305:ILE:HB	2:A:336:SER:O	1.92	0.69
2:A:325:ASP:OD2	2:A:358:VAL:CG1	2.40	0.68
2:A:282:LEU:CD1	2:A:284:VAL:CG2	2.72	0.67
2:A:57:ASN:OD1	3:A:407:HOH:O	2.12	0.66
2:A:224:PRO:HA	2:A:386:ASP:HB3	1.77	0.65
2:A:290:THR:HG22	2:A:292:GLU:OE1	1.96	0.65
2:A:305:ILE:HD13	2:A:335:ALA:O	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:326:VAL:O	2:A:359:LEU:N	2.29	0.64
2:A:285:GLU:OE2	2:A:309:GLY:HA3	1.97	0.64
2:A:366:ASN:ND2	3:A:409:HOH:O	2.18	0.64
2:A:347:ARG:NH1	3:A:415:HOH:O	2.31	0.63
2:A:289:LEU:CD1	2:A:306:VAL:HG23	2.29	0.63
2:A:290:THR:HB	2:A:293:LEU:CD2	2.28	0.62
2:A:307:VAL:CG2	2:A:327:ILE:H	2.12	0.62
2:A:123:HIS:HD2	2:A:153:ASP:OD2	1.83	0.62
2:A:292:GLU:OE1	2:A:292:GLU:N	2.30	0.61
2:A:278:ILE:HG23	3:A:536:HOH:O	2.00	0.61
2:A:343:ASN:O	2:A:347:ARG:HG2	2.01	0.60
2:A:282:LEU:CD1	2:A:284:VAL:HB	2.17	0.60
2:A:297:LEU:HG	2:A:299:LEU:HD22	1.84	0.60
2:A:317:ALA:N	3:A:417:HOH:O	2.35	0.60
2:A:310:VAL:HG21	2:A:322:LEU:N	2.17	0.59
2:A:74:MET:HG2	3:A:422:HOH:O	2.02	0.58
2:A:321:LEU:HD12	2:A:322:LEU:H	1.68	0.57
2:A:281:TRP:HB3	2:A:372:GLY:O	2.04	0.57
2:A:284:VAL:HG21	2:A:321:LEU:HD23	1.85	0.57
2:A:307:VAL:HB	2:A:326:VAL:HA	1.87	0.57
2:A:167:MET:HG2	2:A:238:LEU:HB2	1.87	0.56
2:A:301:GLU:O	2:A:301:GLU:HG3	2.04	0.56
2:A:307:VAL:HG21	2:A:327:ILE:N	2.21	0.56
2:A:307:VAL:HG21	2:A:327:ILE:HD13	1.87	0.56
2:A:268:MET:O	2:A:272:ILE:HG13	2.04	0.56
2:A:293:LEU:CD1	2:A:306:VAL:HG21	2.35	0.56
2:A:285:GLU:HB2	2:A:309:GLY:O	2.07	0.54
2:A:290:THR:CB	2:A:293:LEU:HD21	2.36	0.54
2:A:286:VAL:HG23	2:A:307:VAL:HA	1.88	0.54
2:A:330:ILE:HB	2:A:356:ILE:CD1	2.37	0.53
2:A:227:ALA:HB2	2:A:386:ASP:HA	1.91	0.53
2:A:305:ILE:HD12	2:A:337:ASP:C	2.28	0.53
2:A:314:GLY:O	2:A:317:ALA:HB3	2.09	0.53
2:A:337:ASP:OD1	2:A:338:GLY:N	2.41	0.53
2:A:332:LYS:HD3	3:A:403:HOH:O	2.09	0.53
2:A:295:GLU:OE2	2:A:295:GLU:HA	2.08	0.53
2:A:307:VAL:HG21	2:A:327:ILE:H	1.74	0.53
2:A:358:VAL:HG22	2:A:365:VAL:CG1	2.40	0.52
2:A:209:LEU:HD11	2:A:389:GLU:OE1	2.10	0.52
2:A:328:LEU:HB3	3:A:473:HOH:O	2.09	0.52
2:A:373:LEU:CD1	3:A:536:HOH:O	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:73:LYS:HG2	2:A:74:MET:N	2.25	0.51
2:A:329:THR:HG22	3:A:439:HOH:O	2.10	0.51
1:C:2:VAL:O	2:A:374:ARG:NH2	2.43	0.51
2:A:292:GLU:HA	2:A:295:GLU:HB2	1.92	0.51
2:A:328:LEU:HG	3:A:515:HOH:O	2.11	0.51
2:A:73:LYS:HG3	2:A:127:GLY:O	2.11	0.51
2:A:331:ASP:O	3:A:410:HOH:O	2.20	0.50
2:A:316:ALA:HB1	2:A:321:LEU:HB3	1.92	0.50
2:A:307:VAL:H	2:A:326:VAL:HG13	1.76	0.50
2:A:139:ARG:HH21	2:A:161:LEU:HB3	1.75	0.50
1:C:1:TRP:CE3	2:A:338:GLY:HA3	2.47	0.50
2:A:73:LYS:HG2	2:A:74:MET:H	1.75	0.50
2:A:282:LEU:HD12	2:A:284:VAL:CG2	2.37	0.50
2:A:293:LEU:H	2:A:293:LEU:CD2	2.17	0.49
2:A:307:VAL:HG23	2:A:327:ILE:H	1.78	0.48
2:A:358:VAL:HG22	2:A:365:VAL:HB	1.95	0.48
2:A:363:GLN:OE1	2:A:363:GLN:HA	2.14	0.48
2:A:328:LEU:O	2:A:334:GLU:HG2	2.14	0.47
2:A:53:VAL:HG22	2:A:54:SER:H	1.79	0.47
2:A:305:ILE:O	3:A:411:HOH:O	2.20	0.47
2:A:339:ARG:HG2	2:A:340:ARG:N	2.29	0.47
2:A:321:LEU:HD12	2:A:322:LEU:N	2.30	0.46
1:C:3:PHE:C	2:A:283:GLY:H	2.18	0.46
2:A:325:ASP:OD2	2:A:358:VAL:HG12	2.14	0.46
2:A:325:ASP:OD2	2:A:358:VAL:HB	2.16	0.46
2:A:281:TRP:HB2	2:A:374:ARG:N	2.30	0.46
2:A:325:ASP:HB2	2:A:358:VAL:HB	1.98	0.45
2:A:281:TRP:CD2	2:A:374:ARG:HA	2.51	0.45
2:A:72:THR:HA	2:A:103:GLU:O	2.16	0.45
2:A:167:MET:HG3	2:A:168:THR:O	2.16	0.45
2:A:305:ILE:HG23	3:A:411:HOH:O	2.17	0.45
2:A:139:ARG:NH2	2:A:162:LYS:O	2.49	0.45
2:A:309:GLY:H	2:A:323:PRO:HA	1.82	0.44
2:A:325:ASP:OD2	2:A:358:VAL:HG11	2.17	0.44
2:A:351:GLY:N	2:A:371:VAL:O	2.32	0.44
2:A:334:GLU:OE1	2:A:336:SER:HB3	2.18	0.44
2:A:293:LEU:HD12	2:A:306:VAL:HG21	1.99	0.44
2:A:182:LEU:HB2	2:A:232:VAL:HG12	2.00	0.44
2:A:305:ILE:O	2:A:305:ILE:HG23	2.18	0.43
2:A:167:MET:CG	2:A:238:LEU:HB2	2.47	0.43
2:A:293:LEU:HD11	2:A:306:VAL:HG21	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:329:THR:O	2:A:356:ILE:HD12	2.18	0.43
2:A:301:GLU:O	2:A:301:GLU:CG	2.67	0.43
2:A:356:ILE:CG2	2:A:367:LEU:HB2	2.49	0.43
2:A:374:ARG:HG3	2:A:375:PRO:HD2	2.00	0.43
2:A:187:PRO:HD2	2:A:193:THR:HB	2.01	0.43
2:A:282:LEU:HD11	2:A:284:VAL:HG21	1.99	0.43
2:A:307:VAL:CG2	2:A:326:VAL:HA	2.48	0.43
2:A:281:TRP:HD1	2:A:372:GLY:HA3	1.83	0.43
2:A:282:LEU:CD1	2:A:284:VAL:CB	2.80	0.43
2:A:315:PRO:O	2:A:319:GLY:N	2.51	0.43
2:A:204:ARG:HB2	2:A:215:PHE:HB2	2.01	0.42
2:A:314:GLY:O	2:A:318:ARG:HG2	2.19	0.42
2:A:310:VAL:HG21	2:A:322:LEU:CA	2.50	0.42
1:C:3:PHE:CE1	2:A:342:MET:HG2	2.54	0.42
2:A:64:PRO:HG3	2:A:136:ARG:NH2	2.35	0.42
2:A:328:LEU:HD22	2:A:363:GLN:O	2.19	0.42
2:A:192:GLN:HG3	3:A:475:HOH:O	2.20	0.42
1:C:3:PHE:N	1:C:3:PHE:CD1	2.88	0.41
2:A:291:PRO:O	2:A:295:GLU:N	2.52	0.41
2:A:310:VAL:HG13	3:A:417:HOH:O	2.19	0.41
2:A:173:ASP:O	2:A:173:ASP:OD2	2.38	0.41
2:A:283:GLY:O	2:A:311:TYR:HB2	2.20	0.41
2:A:307:VAL:HG12	2:A:308:ALA:N	2.35	0.41
2:A:282:LEU:CD1	2:A:284:VAL:HG21	2.50	0.41
2:A:280:GLY:HA3	2:A:345:VAL:O	2.21	0.41
2:A:357:VAL:HG11	2:A:364:LYS:HA	2.03	0.41
2:A:227:ALA:HB2	2:A:386:ASP:CA	2.51	0.41
2:A:290:THR:C	2:A:293:LEU:HD21	2.42	0.40
2:A:310:VAL:HB	2:A:323:PRO:HD3	2.03	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:322:LEU:CB	2:A:322:LEU:CD1[10_445]	2.03	0.17

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	C	1/3 (33%)	1 (100%)	0	0	100	100
2	A	295/389 (76%)	278 (94%)	16 (5%)	1 (0%)	41	31
All	All	296/392 (76%)	279 (94%)	16 (5%)	1 (0%)	41	31

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	365	VAL

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	C	3/3 (100%)	3 (100%)	0	100	100
2	A	227/305 (74%)	222 (98%)	5 (2%)	52	47
All	All	230/308 (75%)	225 (98%)	5 (2%)	52	47

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

Mol	Chain	Res	Type
2	A	162	LYS
2	A	232	VAL
2	A	312	ARG
2	A	340	ARG
2	A	347	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
2	A	57	ASN
2	A	123	HIS
2	A	269	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 ⓘ

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	C	3/3 (100%)	3.51	3 (100%) 0 0	81, 81, 86, 104	0
2	A	301/389 (77%)	1.27	64 (21%) 0 0	15, 46, 131, 159	1 (0%)
All	All	304/392 (77%)	1.29	67 (22%) 0 0	15, 46, 131, 159	1 (0%)

All (67) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	335	ALA	19.3
2	A	356	ILE	14.2
2	A	322	LEU	13.0
2	A	365	VAL	11.2
2	A	311	TYR	10.6
2	A	330	ILE	10.5
2	A	302	THR	9.4
2	A	303	ALA	9.2
2	A	299	LEU	8.7
2	A	359	LEU	7.5
2	A	300	GLY	7.1
2	A	286	VAL	6.9
2	A	298	GLY	6.8
2	A	294	ALA	6.7
2	A	323	PRO	6.7
2	A	305	ILE	6.6
1	C	1	TRP	6.2
2	A	312	ARG	5.9
2	A	290	THR	5.8
2	A	301	GLU	5.7
2	A	306	VAL	5.6
2	A	292	GLU	5.4
2	A	337	ASP	5.1
2	A	291	PRO	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	A	289	LEU	4.9
2	A	293	LEU	4.9
2	A	296	SER	4.8
2	A	363	GLN	4.6
2	A	288	ALA	4.5
2	A	373	LEU	4.5
2	A	310	VAL	4.5
2	A	327	ILE	4.4
2	A	328	LEU	4.4
2	A	309	GLY	4.3
2	A	358	VAL	4.3
2	A	357	VAL	4.2
2	A	284	VAL	4.2
2	A	351	GLY	4.2
2	A	364	LYS	4.1
2	A	295	GLU	4.0
2	A	297	LEU	4.0
2	A	360	ARG	4.0
2	A	313	ASP	4.0
2	A	362	GLY	3.5
2	A	320	GLY	3.2
2	A	367	LEU	3.2
2	A	350	PRO	3.2
2	A	348	THR	3.1
2	A	308	ALA	3.1
2	A	366	ASN	3.1
2	A	173	ASP	3.0
2	A	162	LYS	3.0
2	A	341	SER	2.8
2	A	281	TRP	2.8
2	A	321	LEU	2.7
2	A	361	ASN	2.7
2	A	371	VAL	2.5
2	A	307	VAL	2.5
2	A	377	PRO	2.4
2	A	336	SER	2.3
2	A	160	ASP	2.3
2	A	370	GLU	2.2
1	C	2	VAL	2.2
2	A	326	VAL	2.2
1	C	3	PHE	2.2
2	A	283	GLY	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	A	319	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 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.