



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 11:27 AM UTC

PDB ID : 1NIJ / pdb_00001nij
Title : YJIA PROTEIN
Authors : Khil, P.P.; Obmolova, G.; Teplyakov, A.; Howard, A.J.; Gilliland, G.L.;
Camerini-Otero, R.D.; Structure 2 Function Project (S2F)
Deposited on : 2002-12-24
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

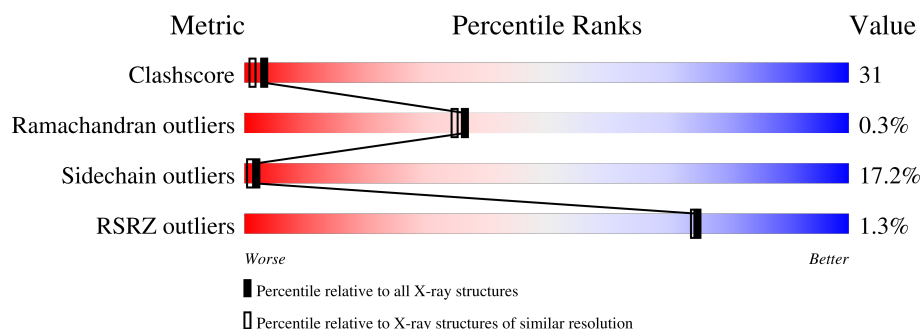
1 Overall quality at a glance

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))
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	318	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2666 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 Hypothetical protein yjiA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	317	Total	C	N	O	S	0	1	0
			2500	1581	428	479	12			

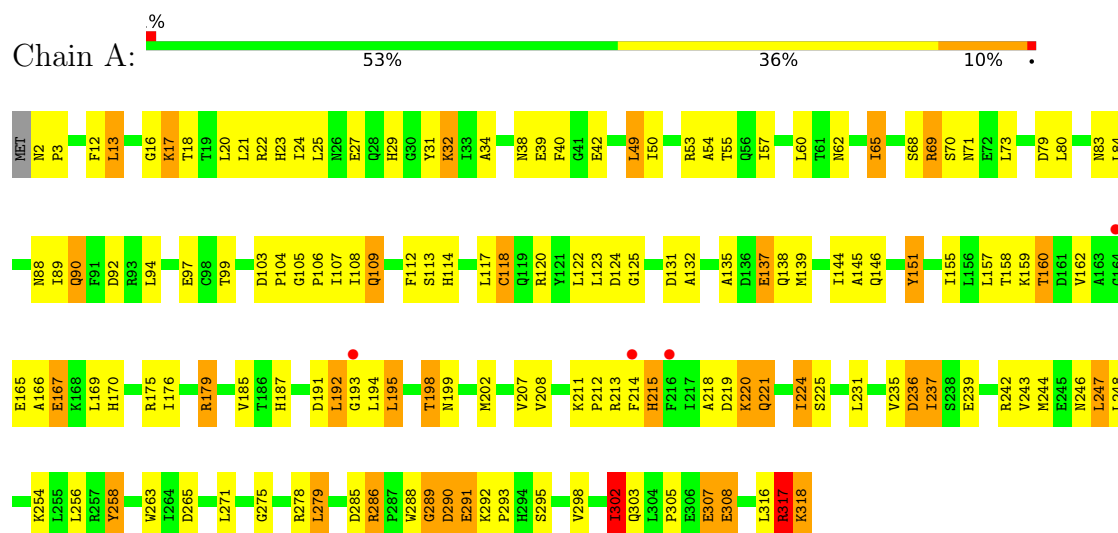
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	166	Total	O	0	0
			166	166		

3 Residue-property plots

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: Hypothetical protein yjiA



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	83.83Å 66.52Å 56.15Å 90.00° 114.96° 90.00°	Depositor
Resolution (Å)	10.00 – 2.00 10.00 – 2.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (10.00-2.00) 91.8 (10.00-2.00)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.33 (at 1.99Å)	Xtriage
Refinement program	REFMAC 5.1.24	Depositor
R, R_{free}	0.223 , (Not available) 0.220 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	29.1	Xtriage
Anisotropy	0.378	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 65.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2666	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.43% 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

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	0.96	3/2549 (0.1%)	1.25	12/3455 (0.3%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	155	ILE	CA-CB	-12.95	1.39	1.54
1	A	108	ILE	CA-CB	5.13	1.60	1.54
1	A	258	TYR	CA-C	-5.09	1.46	1.52

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	302	ILE	CB-CA-C	-6.89	102.62	110.96
1	A	125	GLY	N-CA-C	6.77	120.39	110.38
1	A	80	LEU	N-CA-C	-6.62	104.14	111.82
1	A	151	TYR	N-CA-C	-6.49	105.36	113.28
1	A	286	ARG	N-CA-C	5.98	118.33	110.08
1	A	317	ARG	N-CA-C	5.91	119.05	110.42
1	A	179	ARG	CB-CA-C	-5.83	99.09	110.11
1	A	167	GLU	N-CA-C	-5.81	104.94	111.28
1	A	237	ILE	N-CA-C	5.81	116.55	110.62
1	A	198	THR	N-CA-C	-5.65	106.43	113.38
1	A	195	LEU	N-CA-C	-5.19	107.12	113.50
1	A	187	HIS	N-CA-C	5.11	121.69	110.80

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	2500	0	2483	153	0
2	A	166	0	0	20	0
All	All	2666	0	2483	153	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 (153) 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:242:ARG:HD2	1:A:246:ASN:HD21	1.01	1.13
1:A:247:LEU:C	1:A:247:LEU:HD23	1.85	1.00
1:A:242:ARG:HD2	1:A:246:ASN:ND2	1.80	0.96
1:A:160:THR:HB	2:A:338:HOH:O	1.65	0.95
1:A:65:ILE:CD1	1:A:89:ILE:HG23	1.99	0.92
1:A:185:VAL:O	1:A:185:VAL:HG23	1.70	0.91
1:A:213:ARG:HB2	1:A:215:HIS:CE1	2.08	0.89
1:A:65:ILE:HD11	1:A:89:ILE:HG23	1.51	0.89
1:A:254:LYS:HA	1:A:302:ILE:CD1	2.03	0.87
1:A:254:LYS:HA	1:A:302:ILE:HD11	1.58	0.85
1:A:318:LYS:HG3	2:A:424:HOH:O	1.76	0.82
1:A:29:HIS:HB3	2:A:414:HOH:O	1.79	0.81
1:A:38:ASN:ND2	1:A:97:GLU:CD	2.39	0.81
1:A:17:LYS:HG2	1:A:18:THR:N	1.97	0.79
1:A:247:LEU:HD22	1:A:248:LEU:HD22	1.62	0.79
1:A:199:ASN:HA	1:A:202[A]:MET:HE3	1.65	0.79
1:A:124:ASP:OD2	1:A:198:THR:HG23	1.84	0.75
1:A:53:ARG:HB2	1:A:79:ASP:OD2	1.89	0.73
1:A:247:LEU:C	1:A:247:LEU:CD2	2.62	0.72
1:A:65:ILE:CD1	1:A:89:ILE:CG2	2.66	0.72
1:A:243:VAL:HG21	1:A:316:LEU:HD21	1.74	0.70
1:A:122:LEU:HD23	2:A:367:HOH:O	1.91	0.70
1:A:65:ILE:HD12	1:A:89:ILE:CG2	2.23	0.69
1:A:32:LYS:HD2	1:A:92:ASP:OD2	1.93	0.68
1:A:12:PHE:CD2	1:A:13:LEU:HG	2.28	0.68
1:A:40:PHE:CE2	1:A:68:SER:HB3	2.29	0.68
1:A:17:LYS:HG2	1:A:18:THR:H	1.57	0.68
1:A:131:ASP:OD1	1:A:159:LYS:HD3	1.95	0.67
1:A:32:LYS:HD2	2:A:344:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:LEU:HB2	1:A:295:SER:HB2	1.75	0.66
1:A:244:MET:O	1:A:248:LEU:HD23	1.96	0.65
1:A:16:GLY:HA2	2:A:425:HOH:O	1.97	0.65
1:A:158:THR:HA	1:A:185:VAL:HG22	1.77	0.65
1:A:139:MET:HG2	1:A:146:GLN:HG2	1.78	0.64
1:A:185:VAL:O	1:A:185:VAL:CG2	2.44	0.64
1:A:212:PRO:HD2	2:A:427:HOH:O	1.98	0.63
1:A:65:ILE:HD12	1:A:89:ILE:HG12	1.81	0.63
1:A:137:GLU:HG3	2:A:354:HOH:O	1.98	0.63
1:A:247:LEU:HD22	1:A:248:LEU:CD2	2.28	0.62
1:A:38:ASN:HD21	1:A:97:GLU:CD	2.06	0.62
1:A:53:ARG:HD2	1:A:79:ASP:OD1	2.00	0.62
1:A:73:LEU:HD21	1:A:107:ILE:HG23	1.81	0.61
1:A:103:ASP:O	1:A:106:PRO:HD2	2.00	0.60
1:A:109:GLN:HG2	2:A:337:HOH:O	2.00	0.60
1:A:247:LEU:CD2	1:A:248:LEU:HD22	2.31	0.60
1:A:254:LYS:HA	1:A:302:ILE:HD12	1.81	0.60
1:A:247:LEU:HD23	1:A:247:LEU:O	2.01	0.59
1:A:25:LEU:O	1:A:62:ASN:ND2	2.36	0.59
1:A:38:ASN:HA	1:A:69:ARG:HB2	1.84	0.59
1:A:278:ARG:HH11	1:A:278:ARG:HG3	1.67	0.58
1:A:263:TRP:CE2	1:A:293:PRO:HB2	2.38	0.58
1:A:53:ARG:HA	2:A:471:HOH:O	2.03	0.58
1:A:218:ALA:O	1:A:221:GLN:HB3	2.04	0.58
1:A:29:HIS:CE1	1:A:31:TYR:HB2	2.39	0.58
1:A:139:MET:HG2	1:A:146:GLN:CG	2.34	0.58
1:A:158:THR:HA	1:A:185:VAL:CG2	2.33	0.58
1:A:34:ALA:O	1:A:94:LEU:HD12	2.03	0.58
1:A:305:PRO:HB2	1:A:308:GLU:HG3	1.85	0.58
1:A:17:LYS:O	1:A:20:LEU:N	2.31	0.57
1:A:248:LEU:CD2	1:A:248:LEU:N	2.67	0.57
1:A:21:LEU:O	1:A:25:LEU:HG	2.04	0.57
1:A:73:LEU:CD2	1:A:107:ILE:HG23	2.34	0.57
1:A:318:LYS:HD2	1:A:318:LYS:O	2.03	0.57
1:A:263:TRP:CD2	1:A:293:PRO:HB2	2.40	0.56
1:A:112:PHE:CD2	1:A:279:LEU:HD21	2.40	0.56
1:A:83:ASN:HB3	1:A:89:ILE:HD12	1.89	0.55
1:A:213:ARG:HB2	1:A:215:HIS:HE1	1.69	0.55
1:A:235:VAL:O	1:A:265:ASP:HB2	2.06	0.55
1:A:38:ASN:HD22	1:A:97:GLU:CD	2.14	0.54
1:A:135:ALA:HB1	1:A:139:MET:CE	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:TRP:CE3	1:A:293:PRO:HA	2.43	0.54
1:A:248:LEU:HD22	1:A:248:LEU:N	2.22	0.54
1:A:298:VAL:HG13	1:A:298:VAL:O	2.07	0.53
1:A:244:MET:HE3	1:A:248:LEU:HD21	1.91	0.53
1:A:278:ARG:HG3	1:A:278:ARG:NH1	2.22	0.53
1:A:90:GLN:O	1:A:90:GLN:HG3	2.08	0.53
1:A:244:MET:CE	1:A:248:LEU:HD21	2.39	0.52
1:A:285:ASP:CG	1:A:286:ARG:H	2.17	0.52
1:A:288:TRP:CZ3	1:A:293:PRO:HA	2.45	0.52
1:A:27:GLU:CB	2:A:414:HOH:O	2.57	0.51
1:A:38:ASN:HD21	1:A:97:GLU:HG2	1.76	0.51
1:A:288:TRP:O	1:A:291:GLU:HG3	2.11	0.51
1:A:167:GLU:O	1:A:170:HIS:HB2	2.11	0.51
1:A:290:ASP:OD1	1:A:290:ASP:N	2.44	0.50
1:A:114:HIS:N	2:A:446:HOH:O	2.44	0.50
1:A:208:VAL:HB	1:A:211:LYS:HE2	1.94	0.50
1:A:263:TRP:H	1:A:295:SER:HG	1.54	0.50
1:A:220:LYS:CA	1:A:220:LYS:HE2	2.42	0.50
1:A:162:VAL:O	1:A:162:VAL:HG12	2.11	0.50
1:A:317:ARG:HG2	1:A:317:ARG:HH11	1.76	0.50
1:A:112:PHE:CE2	1:A:279:LEU:HD21	2.47	0.50
1:A:25:LEU:C	1:A:62:ASN:ND2	2.70	0.49
1:A:88:ASN:O	1:A:89:ILE:HG13	2.11	0.49
1:A:38:ASN:HD21	1:A:97:GLU:CG	2.25	0.49
1:A:162:VAL:O	1:A:162:VAL:CG1	2.60	0.49
1:A:244:MET:HE3	1:A:248:LEU:CD2	2.43	0.48
1:A:53:ARG:O	1:A:54:ALA:HB3	2.13	0.48
1:A:166:ALA:O	1:A:170:HIS:CD2	2.66	0.48
1:A:135:ALA:O	1:A:139:MET:HE3	2.14	0.48
1:A:151:TYR:CE2	1:A:256:LEU:HD22	2.50	0.47
1:A:191:ASP:C	1:A:193:GLY:N	2.71	0.47
1:A:288:TRP:O	1:A:289:GLY:C	2.57	0.47
1:A:65:ILE:HD12	1:A:89:ILE:HG21	1.95	0.46
1:A:27:GLU:HB2	2:A:414:HOH:O	2.15	0.46
1:A:236:ASP:OD2	1:A:239:GLU:N	2.28	0.46
1:A:307:GLU:HA	2:A:474:HOH:O	2.16	0.46
1:A:236:ASP:OD2	1:A:239:GLU:HG3	2.16	0.46
1:A:17:LYS:CG	1:A:18:THR:N	2.75	0.46
1:A:69:ARG:HA	2:A:423:HOH:O	2.16	0.46
1:A:49:LEU:HD12	1:A:49:LEU:HA	1.59	0.45
1:A:191:ASP:O	1:A:192:LEU:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:ASP:OD1	1:A:131:ASP:C	2.58	0.45
1:A:38:ASN:HD22	1:A:38:ASN:H	1.65	0.45
1:A:114:HIS:O	1:A:118:CYS:HB2	2.17	0.45
1:A:13:LEU:HG	1:A:13:LEU:H	1.61	0.45
1:A:29:HIS:HE1	1:A:31:TYR:O	2.01	0.44
1:A:32:LYS:CD	1:A:92:ASP:OD2	2.65	0.44
1:A:57:ILE:HG23	1:A:65:ILE:CG2	2.47	0.44
1:A:248:LEU:HD11	1:A:258:TYR:CZ	2.51	0.44
1:A:258:TYR:CE2	1:A:275:GLY:HA3	2.52	0.44
1:A:27:GLU:HB3	2:A:414:HOH:O	2.18	0.44
1:A:40:PHE:CZ	1:A:68:SER:HB3	2.53	0.43
1:A:131:ASP:CG	1:A:159:LYS:HD3	2.43	0.43
1:A:302:ILE:O	1:A:303:GLN:HB2	2.18	0.43
1:A:34:ALA:O	1:A:94:LEU:HA	2.19	0.43
1:A:89:ILE:HB	2:A:404:HOH:O	2.18	0.43
1:A:55:THR:HG22	1:A:57:ILE:HG13	2.01	0.43
1:A:302:ILE:H	1:A:302:ILE:HG13	1.49	0.43
1:A:176:ILE:HG23	1:A:224:ILE:HG22	2.01	0.42
1:A:157:LEU:O	1:A:185:VAL:HG22	2.19	0.42
1:A:254:LYS:CA	1:A:302:ILE:HD12	2.49	0.42
1:A:38:ASN:ND2	1:A:38:ASN:H	2.17	0.42
1:A:308:GLU:CD	2:A:381:HOH:O	2.62	0.42
1:A:213:ARG:CB	1:A:215:HIS:CE1	2.93	0.41
1:A:179:ARG:HG2	1:A:298:VAL:HG11	2.02	0.41
1:A:132:ALA:HA	1:A:169:LEU:CD2	2.51	0.41
1:A:211:LYS:HA	1:A:212:PRO:HD3	1.89	0.41
1:A:89:ILE:HG22	1:A:90:GLN:N	2.35	0.41
1:A:139:MET:HA	1:A:145:ALA:HB3	2.03	0.41
1:A:193:GLY:C	1:A:195:LEU:H	2.26	0.41
1:A:25:LEU:C	1:A:62:ASN:HD21	2.29	0.41
1:A:144:ILE:O	1:A:144:ILE:HG13	2.21	0.41
1:A:285:ASP:CG	1:A:286:ARG:N	2.78	0.41
1:A:175:ARG:HD2	1:A:219:ASP:OD1	2.21	0.41
1:A:3:PRO:HA	1:A:120:ARG:O	2.22	0.40
1:A:17:LYS:HE2	1:A:18:THR:HG23	2.01	0.40
1:A:112:PHE:HE1	1:A:123:LEU:HD12	1.85	0.40
1:A:29:HIS:N	2:A:414:HOH:O	2.55	0.40
1:A:104:PRO:O	1:A:105:GLY:C	2.62	0.40
1:A:137:GLU:O	1:A:138:GLN:C	2.64	0.40
1:A:220:LYS:H	1:A:220:LYS:HG2	1.46	0.40
1:A:39:GLU:CG	2:A:459:HOH:O	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:ARG:CD	1:A:219:ASP:OD1	2.69	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	316/318 (99%)	296 (94%)	19 (6%)	1 (0%)	36 35

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	289	GLY

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	274/274 (100%)	227 (83%)	47 (17%)	2 1

All (47) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	ASN
1	A	13	LEU

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Mol	Chain	Res	Type
1	A	17	LYS
1	A	22	ARG
1	A	23	HIS
1	A	24	ILE
1	A	32	LYS
1	A	42	GLU
1	A	49	LEU
1	A	50	ILE
1	A	60	LEU
1	A	65	ILE
1	A	69	ARG
1	A	70	SER
1	A	71	ASN
1	A	84	LEU
1	A	90	GLN
1	A	99	THR
1	A	109	GLN
1	A	113	SER
1	A	117	LEU
1	A	118	CYS
1	A	137	GLU
1	A	160	THR
1	A	165	GLU
1	A	192	LEU
1	A	194	LEU
1	A	207	VAL
1	A	214	PHE
1	A	215	HIS
1	A	220	LYS
1	A	221	GLN
1	A	224	ILE
1	A	225	SER
1	A	236	ASP
1	A	237	ILE
1	A	247	LEU
1	A	271	LEU
1	A	279	LEU
1	A	290	ASP
1	A	291	GLU
1	A	292	LYS
1	A	302	ILE
1	A	307	GLU

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Mol	Chain	Res	Type
1	A	308	GLU
1	A	317	ARG
1	A	318	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	48	GLN
1	A	88	ASN
1	A	90	GLN
1	A	109	GLN
1	A	114	HIS
1	A	119	GLN
1	A	148	GLN
1	A	170	HIS
1	A	215	HIS
1	A	246	ASN
1	A	274	GLN
1	A	277	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 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 [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	317/318 (99%)	0.02	4 (1%) 75 74	19, 44, 74, 110	1 (0%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	214	PHE	3.3
1	A	216	PHE	2.6
1	A	193	GLY	2.4
1	A	164	GLY	2.3

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.