



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:44 PM UTC

PDB ID : 7AJL / pdb_00007ajl
Title : Crystal structure of CYRI-B/Fam49B
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Deposited on : 2020-09-29
Resolution : 2.37 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
Mogul : 2022.3.0, CSD as543be (2022)
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

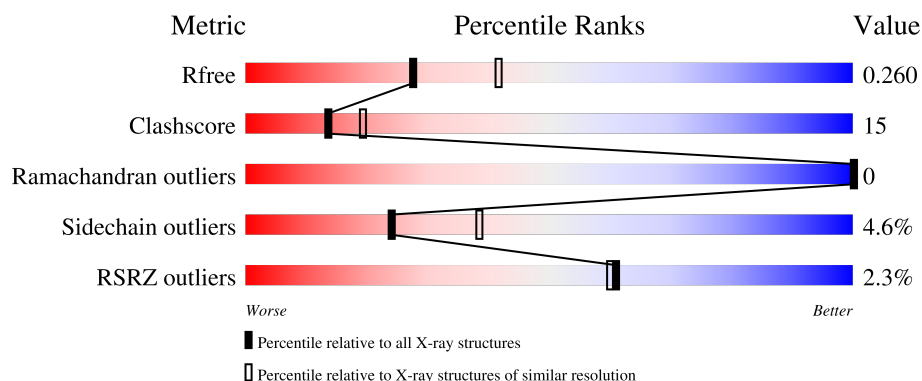
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.37 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	7164 (2.40-2.36)
Clashscore	190562	7722 (2.40-2.36)
Ramachandran outliers	187476	7626 (2.40-2.36)
Sidechain outliers	187428	7627 (2.40-2.36)
RSRZ outliers	180081	7170 (2.40-2.36)

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	AAA	299	2% 67% 28% • •
1	BBB	299	2% 67% 27% • 5%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4729 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 CYFIP-related Rac1 interactor B.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	AAA	290	Total	C	N	O	S	Se	0	1	0
			2314	1457	402	442	4	9			
1	BBB	285	Total	C	N	O	S	Se	0	1	0
			2254	1424	392	425	4	9			

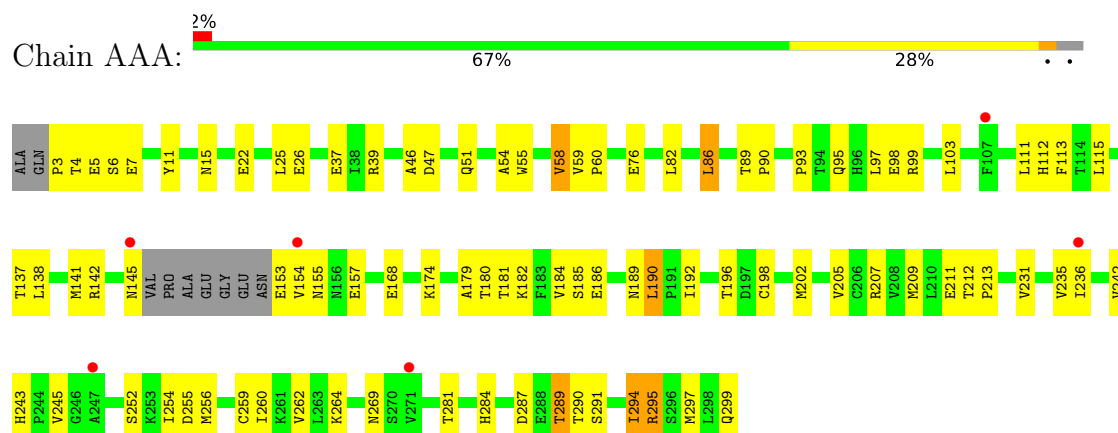
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	AAA	77	Total	O	0	0
			77	77		
2	BBB	84	Total	O	0	0
			84	84		

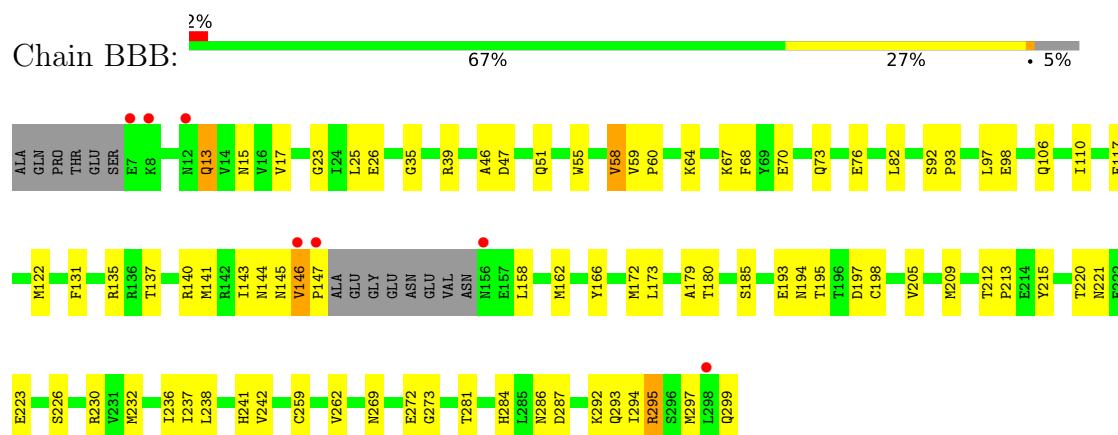
3 Residue-property plots

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: CYFIP-related Rac1 interactor B



• Molecule 1: CYFIP-related Rac1 interactor B



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	44.73Å 166.69Å 45.13Å 90.00° 112.34° 90.00°	Depositor
Resolution (Å)	83.34 – 2.37 83.34 – 2.37	Depositor EDS
% Data completeness (in resolution range)	100.0 (83.34-2.37) 100.0 (83.34-2.37)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.60 (at 2.37Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.203 , 0.245 0.224 , 0.260	Depositor DCC
R_{free} test set	1242 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	62.8	Xtriage
Anisotropy	0.332	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 63.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.026 for l,-k,h	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4729	wwPDB-VP
Average B, all atoms (Å ²)	84.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.19% 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	AAA	0.95	0/2344	1.54	3/3152 (0.1%)
1	BBB	0.95	0/2285	1.56	4/3078 (0.1%)
All	All	0.95	0/4629	1.55	7/6230 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	BBB	145	ASN	CA-C-N	6.61	124.41	120.24
1	BBB	145	ASN	C-N-CA	6.61	124.41	120.24
1	AAA	3	PRO	N-CA-CB	6.31	109.94	103.00
1	BBB	58	VAL	CA-C-N	6.25	124.18	120.24
1	BBB	58	VAL	C-N-CA	6.25	124.18	120.24
1	AAA	58	VAL	CA-C-N	5.15	124.45	120.33
1	AAA	58	VAL	C-N-CA	5.15	124.45	120.33

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	AAA	2314	0	2315	79	0
1	BBB	2254	0	2245	62	0
2	AAA	77	0	0	3	0
2	BBB	84	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	4729	0	4560	133	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 15.

All (133) 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:BBB:59:VAL:HG12	1:BBB:60:PRO:HD3	1.38	1.05
1:AAA:291:SER:HB2	1:AAA:294:ILE:HG23	1.39	1.03
1:AAA:291:SER:HB2	1:AAA:294:ILE:CG2	2.00	0.90
1:AAA:112:HIS:HD2	2:AAA:362:HOH:O	1.54	0.89
1:AAA:7:GLU:OE1	1:AAA:99:ARG:HD2	1.74	0.85
1:AAA:295:ARG:HH11	1:AAA:295:ARG:CG	1.97	0.78
1:AAA:236:ILE:HG23	1:AAA:256:MSE:HE1	1.65	0.77
1:AAA:138:LEU:O	1:AAA:142:ARG:HG2	1.84	0.76
1:AAA:180:THR:HG22	1:AAA:242:VAL:HG11	1.68	0.76
1:AAA:39:ARG:HD3	1:BBB:39:ARG:NH2	2.03	0.73
1:BBB:59:VAL:CG1	1:BBB:60:PRO:HD3	2.16	0.71
1:BBB:140:ARG:O	1:BBB:143:ILE:HG12	1.91	0.70
1:BBB:294:ILE:HA	1:BBB:297:MSE:HE3	1.76	0.67
1:AAA:22:GLU:O	1:AAA:26:GLU:HG2	1.96	0.66
1:AAA:295:ARG:NH1	1:AAA:295:ARG:HG2	2.10	0.66
1:BBB:180:THR:HG22	1:BBB:242:VAL:HG11	1.76	0.66
1:AAA:46:ALA:HA	1:BBB:272:GLU:HG3	1.77	0.65
1:AAA:295:ARG:HH11	1:AAA:295:ARG:HG2	1.61	0.65
1:BBB:137:THR:O	1:BBB:141:MSE:HG3	1.96	0.65
1:AAA:236:ILE:CG2	1:AAA:256:MSE:HE1	2.26	0.64
1:AAA:25:LEU:HD13	1:AAA:113:PHE:CE1	2.32	0.64
1:AAA:76:GLU:OE2	1:AAA:182:LYS:NZ	2.31	0.64
1:BBB:76:GLU:HG2	1:BBB:179:ALA:HB2	1.78	0.64
1:BBB:98:GLU:H	1:BBB:98:GLU:CD	2.06	0.64
1:AAA:99:ARG:HB3	1:AAA:99:ARG:NH1	2.13	0.63
1:AAA:269:ASN:ND2	2:AAA:301:HOH:O	2.29	0.63
1:BBB:226:SER:O	1:BBB:230:ARG:HG2	1.97	0.63
1:AAA:236:ILE:HD11	1:AAA:259:CYS:SG	2.39	0.63
1:AAA:25:LEU:HD13	1:AAA:113:PHE:CD1	2.33	0.63
1:AAA:287:ASP:O	1:AAA:295:ARG:NH2	2.32	0.62
1:AAA:259:CYS:O	1:AAA:262:VAL:HG22	1.98	0.62
1:AAA:295:ARG:CG	1:AAA:295:ARG:NH1	2.61	0.62
1:AAA:243:HIS:CD2	1:AAA:245:VAL:HG22	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BBB:241:HIS:HE1	1:BBB:281:THR:O	1.82	0.61
1:BBB:23:GLY:O	1:BBB:26:GLU:HG3	2.01	0.60
1:AAA:112:HIS:CD2	2:AAA:362:HOH:O	2.38	0.60
1:BBB:281:THR:O	1:BBB:281:THR:HG22	2.02	0.60
1:AAA:281:THR:HG22	1:AAA:281:THR:O	2.01	0.60
1:AAA:231:VAL:O	1:AAA:235:VAL:HG22	2.01	0.59
1:AAA:198:CYS:O	1:AAA:202:MSE:HG3	2.03	0.57
1:BBB:215:TYR:O	1:BBB:220:THR:HG21	2.05	0.57
1:AAA:299:GLN:HG3	1:BBB:144:ASN:CG	2.29	0.57
1:BBB:98:GLU:OE1	1:BBB:98:GLU:N	2.36	0.57
1:BBB:238:LEU:O	1:BBB:242:VAL:HG22	2.05	0.56
1:BBB:284:HIS:HD2	1:BBB:287:ASP:OD2	1.87	0.56
1:BBB:59:VAL:N	1:BBB:60:PRO:CD	2.68	0.56
1:BBB:13:GLN:O	1:BBB:17:VAL:HG23	2.07	0.55
1:AAA:37:GLU:HB3	1:AAA:54:ALA:HA	1.89	0.55
1:AAA:137:THR:O	1:AAA:141:MSE:HG3	2.07	0.54
1:AAA:168:GLU:CD	1:AAA:174:LYS:HD2	2.33	0.54
1:BBB:146:VAL:N	1:BBB:147:PRO:HD2	2.23	0.53
1:BBB:15:ASN:ND2	1:BBB:106:GLN:NE2	2.57	0.53
1:AAA:209:MSE:O	1:AAA:213:PRO:HG2	2.10	0.52
1:AAA:269:ASN:ND2	1:BBB:46:ALA:HB3	2.24	0.52
1:BBB:140:ARG:O	1:BBB:143:ILE:CG1	2.58	0.52
1:AAA:46:ALA:CA	1:BBB:272:GLU:HG3	2.39	0.52
1:AAA:205:VAL:O	1:AAA:209:MSE:HG2	2.10	0.52
1:AAA:55:TRP:CE3	1:AAA:137:THR:HG21	2.45	0.52
1:BBB:173:LEU:HD21	1:BBB:237:ILE:HD12	1.92	0.52
1:AAA:289:THR:O	1:AAA:289:THR:OG1	2.26	0.51
1:BBB:55:TRP:CZ2	1:BBB:141:MSE:SE	3.13	0.51
1:AAA:4:THR:HB	1:AAA:7:GLU:HG3	1.91	0.51
1:BBB:299:GLN:HE21	1:BBB:299:GLN:HA	1.75	0.51
1:AAA:76:GLU:HG2	1:AAA:179:ALA:HB2	1.91	0.51
1:AAA:294:ILE:HG13	1:AAA:295:ARG:N	2.26	0.51
1:BBB:292:LYS:HA	1:BBB:295:ARG:HG3	1.93	0.51
1:BBB:82:LEU:HD12	1:BBB:110:ILE:HD12	1.93	0.51
1:AAA:59:VAL:N	1:AAA:60:PRO:CD	2.74	0.50
1:AAA:86:LEU:HD12	1:AAA:103:LEU:HB2	1.94	0.50
1:BBB:59:VAL:HG12	1:BBB:60:PRO:CD	2.24	0.50
1:AAA:25:LEU:CD1	1:AAA:113:PHE:CE1	2.93	0.50
1:AAA:99:ARG:HB3	1:AAA:99:ARG:CZ	2.40	0.50
1:BBB:293:GLN:HG2	1:BBB:297:MSE:HE2	1.93	0.50
1:AAA:260:ILE:O	1:AAA:264:LYS:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AAA:141:MSE:HA	1:BBB:299:GLN:OE1	2.12	0.50
1:AAA:154:VAL:HG12	1:AAA:154:VAL:O	2.10	0.50
1:BBB:158:LEU:O	1:BBB:162:MSE:HG3	2.11	0.49
1:AAA:155:ASN:OD1	1:AAA:157:GLU:HG3	2.12	0.49
1:AAA:243:HIS:HD2	1:AAA:245:VAL:HG22	1.76	0.49
1:BBB:59:VAL:CG1	1:BBB:60:PRO:CD	2.87	0.49
1:AAA:192:ILE:HG13	1:AAA:196:THR:CG2	2.43	0.48
1:BBB:205:VAL:O	1:BBB:209:MSE:HG2	2.13	0.48
1:BBB:259:CYS:O	1:BBB:262:VAL:HG22	2.13	0.48
1:AAA:189:ASN:ND2	1:AAA:190:LEU:HD13	2.29	0.48
1:BBB:35:GLY:C	1:BBB:39:ARG:NH1	2.72	0.48
1:AAA:47:ASP:O	1:AAA:51:GLN:HG2	2.13	0.48
1:AAA:11:TYR:O	1:AAA:15:ASN:HB2	2.15	0.47
1:AAA:259:CYS:O	1:AAA:262:VAL:CG2	2.60	0.47
1:AAA:86:LEU:HD13	1:AAA:103:LEU:HB3	1.96	0.47
1:BBB:64:LYS:O	1:BBB:67:LYS:HB2	2.15	0.47
1:BBB:70:GLU:O	1:BBB:73:GLN:HB2	2.14	0.47
1:AAA:111:LEU:CD1	1:AAA:235:VAL:HG13	2.45	0.46
1:AAA:168:GLU:OE1	1:AAA:174:LYS:HD2	2.15	0.46
1:AAA:212:THR:N	1:AAA:213:PRO:CD	2.79	0.46
1:BBB:212:THR:N	1:BBB:213:PRO:CD	2.78	0.46
1:AAA:59:VAL:HB	1:AAA:60:PRO:HD3	1.96	0.46
1:AAA:299:GLN:HE22	1:BBB:141:MSE:HA	1.81	0.46
1:BBB:146:VAL:N	1:BBB:147:PRO:CD	2.79	0.45
1:BBB:93:PRO:O	1:BBB:97:LEU:HD22	2.17	0.45
1:BBB:286:ASN:HA	1:BBB:295:ARG:NH2	2.30	0.45
1:BBB:212:THR:HB	1:BBB:213:PRO:HD3	1.99	0.45
1:AAA:181:THR:O	1:AAA:184:VAL:HG22	2.18	0.44
1:AAA:192:ILE:HG13	1:AAA:196:THR:HG23	1.98	0.44
1:BBB:67:LYS:HB3	1:BBB:67:LYS:HE3	1.76	0.44
1:BBB:131:PHE:O	1:BBB:135:ARG:HG3	2.18	0.44
1:AAA:86:LEU:HD12	1:AAA:103:LEU:CB	2.48	0.44
1:AAA:192:ILE:O	1:AAA:196:THR:HG23	2.17	0.44
1:BBB:122:MSE:HE1	1:BBB:273:GLY:O	2.18	0.44
1:AAA:86:LEU:CD1	1:AAA:103:LEU:HB3	2.47	0.43
1:BBB:232:MSE:O	1:BBB:236:ILE:HG23	2.17	0.43
1:AAA:82:LEU:HD23	1:AAA:82:LEU:HA	1.87	0.43
1:AAA:207:ARG:O	1:AAA:211:GLU:HG3	2.18	0.43
1:BBB:221:ASN:HD22	1:BBB:223:GLU:CG	2.32	0.43
1:AAA:294:ILE:HA	1:AAA:297:MSE:HE3	2.01	0.43
1:BBB:195:THR:O	1:BBB:198:CYS:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AAA:284:HIS:O	1:AAA:290:THR:HG21	2.19	0.42
1:AAA:86:LEU:CD1	1:AAA:103:LEU:CB	2.97	0.42
1:AAA:89:THR:HG23	1:AAA:90:PRO:HD2	2.02	0.42
1:AAA:86:LEU:CG	1:AAA:86:LEU:O	2.67	0.41
1:BBB:68:PHE:HB2	1:BBB:166:TYR:OH	2.20	0.41
1:AAA:39:ARG:HD3	1:BBB:39:ARG:HH21	1.80	0.41
1:BBB:47:ASP:O	1:BBB:51:GLN:HG2	2.20	0.41
1:BBB:117:PHE:CD1	1:BBB:172:MSE:HG2	2.56	0.41
1:AAA:207:ARG:NH1	1:AAA:255:ASP:OD2	2.53	0.41
1:AAA:212:THR:HB	1:AAA:213:PRO:HD3	2.03	0.41
1:BBB:76:GLU:HG2	1:BBB:179:ALA:CB	2.50	0.41
1:BBB:287:ASP:O	1:BBB:295:ARG:NH2	2.54	0.41
1:BBB:15:ASN:ND2	1:BBB:106:GLN:HE22	2.19	0.40
1:BBB:286:ASN:HA	1:BBB:295:ARG:HH21	1.87	0.40
1:AAA:182:LYS:O	1:AAA:185:SER:HB2	2.21	0.40
1:AAA:252:SER:C	1:AAA:254:ILE:H	2.29	0.40
1:BBB:193:GLU:O	1:BBB:197:ASP:HB2	2.21	0.40
1:AAA:93:PRO:HA	1:AAA:97:LEU:HD13	2.03	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	AAA	287/299 (96%)	270 (94%)	17 (6%)	0	100	100
1	BBB	282/299 (94%)	269 (95%)	13 (5%)	0	100	100
All	All	569/598 (95%)	539 (95%)	30 (5%)	0	100	100

There are no Ramachandran outliers to report.

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	AAA	256/255 (100%)	242 (94%)	14 (6%)	19	31
1	BBB	246/255 (96%)	237 (96%)	9 (4%)	30	47
All	All	502/510 (98%)	479 (95%)	23 (5%)	24	38

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	5	GLU
1	AAA	6	SER
1	AAA	58	VAL
1	AAA	86	LEU
1	AAA	95	GLN
1	AAA	98	GLU
1	AAA	115	LEU
1	AAA	145	ASN
1	AAA	153	GLU
1	AAA	186	GLU
1	AAA	190	LEU
1	AAA	289	THR
1	AAA	294	ILE
1	AAA	295	ARG
1	BBB	13	GLN
1	BBB	25	LEU
1	BBB	58	VAL
1	BBB	92	SER
1	BBB	146	VAL
1	BBB	185	SER
1	BBB	194	ASN
1	BBB	269	ASN
1	BBB	295	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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	AAA	281/299 (93%)	0.22	6 (2%) 63 62	35, 83, 121, 140	1 (0%)
1	BBB	276/299 (92%)	0.20	7 (2%) 58 58	34, 78, 115, 182	1 (0%)
All	All	557/598 (93%)	0.21	13 (2%) 61 60	34, 81, 119, 182	2 (0%)

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BBB	7	GLU	3.1
1	BBB	8	LYS	2.9
1	BBB	156	ASN	2.8
1	BBB	147	PRO	2.8
1	AAA	154	VAL	2.6
1	BBB	146	VAL	2.4
1	AAA	145	ASN	2.2
1	AAA	271	VAL	2.1
1	AAA	236	ILE	2.1
1	AAA	107	PHE	2.1
1	AAA	247	ALA	2.1
1	BBB	12	ASN	2.0
1	BBB	298	LEU	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

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.