



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 12:35 PM UTC

PDB ID : 6Y9I / pdb_00006y9i
Title : Structure of apo Chimpanzee Polyomavirus VP1
Authors : Stroh, L.J.; Rustmeier, N.H.; Stehle, T.
Deposited on : 2020-03-09
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 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

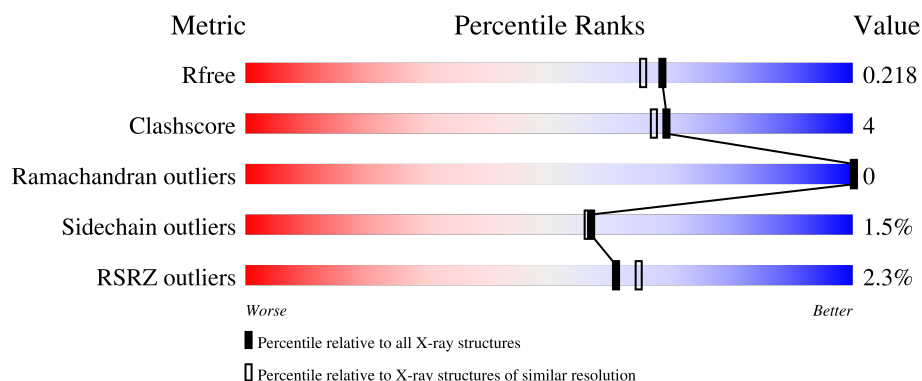
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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}	180053	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (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	AAA	292	2% 87% 9% .
1	BBB	292	3% 89% 7% .
1	CCC	292	2% 87% 8% .
1	DDD	292	3% 86% 10% .
1	EEE	292	% 87% 8% .

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 11575 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 Major Capsid Protein VP1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AAA	282	Total	C	N	O	S	0	2	0
			2130	1357	364	397	12			
1	BBB	281	Total	C	N	O	S	0	3	0
			2134	1356	365	400	13			
1	CCC	280	Total	C	N	O	S	0	1	0
			2109	1341	359	396	13			
1	DDD	281	Total	C	N	O	S	0	2	0
			2123	1349	363	399	12			
1	EEE	280	Total	C	N	O	S	0	1	0
			2116	1347	362	395	12			

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	AAA	1	Total	Mg	0	0
			1	1		
2	BBB	2	Total	Mg	0	0
			2	2		
2	CCC	2	Total	Mg	0	0
			2	2		
2	DDD	2	Total	Mg	0	0
			2	2		
2	EEE	3	Total	Mg	0	0
			3	3		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	AAA	209	Total	O	0	0
			209	209		
3	BBB	206	Total	O	0	3
			209	209		

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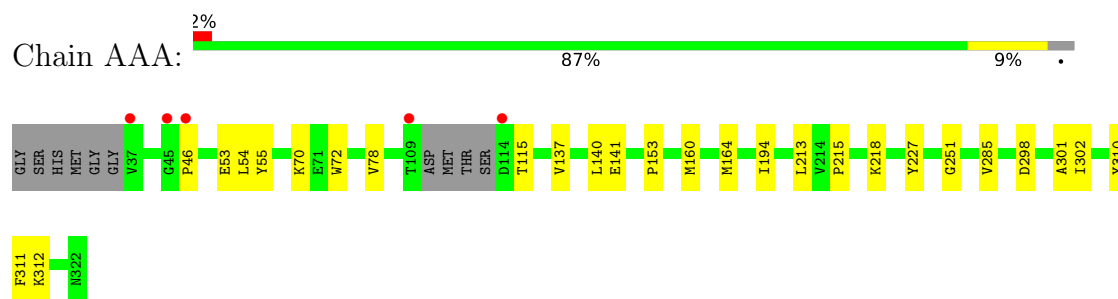
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	CCC	168	Total 168	O 168	0	0
3	DDD	176	Total 178	O 178	0	2
3	EEE	188	Total 189	O 189	0	1

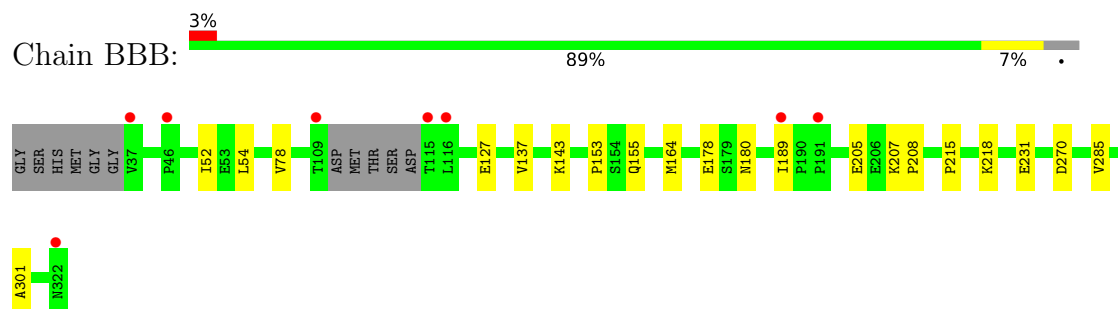
3 Residue-property plots [i](#)

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.

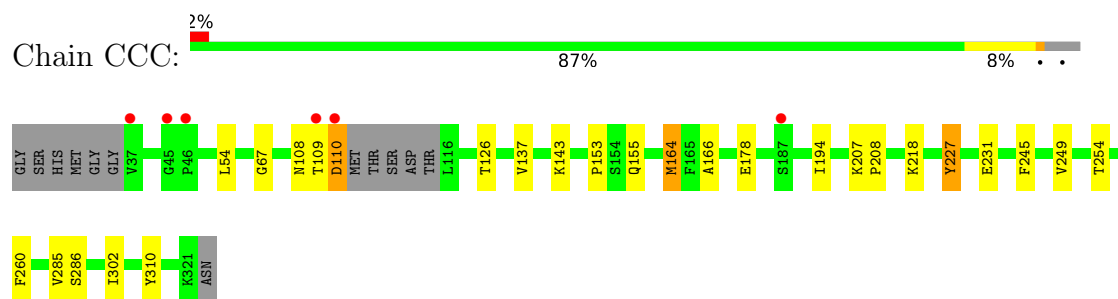
• Molecule 1: Major Capsid Protein VP1



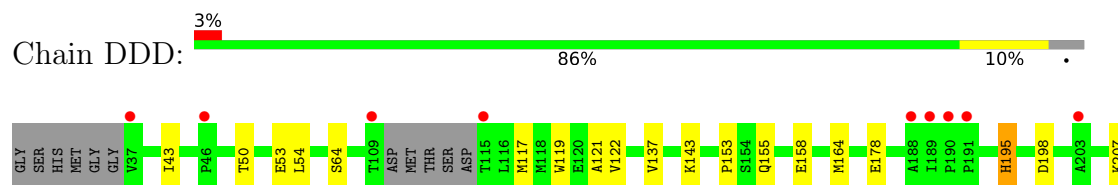
• Molecule 1: Major Capsid Protein VP1



• Molecule 1: Major Capsid Protein VP1

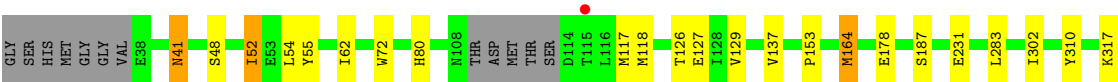


• Molecule 1: Major Capsid Protein VP1





● Molecule 1: Major Capsid Protein VP1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	63.41Å 82.19Å 82.66Å 68.61° 77.36° 77.49°	Depositor
Resolution (Å)	46.46 – 1.90 46.46 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.6 (46.46-1.90) 99.6 (46.46-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 1.90Å)	Xtriage
Refinement program	REFMAC 5.8.0253	Depositor
R, R_{free}	0.171 , 0.213 0.178 , 0.218	Depositor DCC
R_{free} test set	5886 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	25.0	Xtriage
Anisotropy	0.072	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 44.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.018 for -h,-l,-k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	11575	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.28% 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: MG

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	1.03	0/2177	1.21	0/2961
1	BBB	1.04	1/2181 (0.0%)	1.21	1/2966 (0.0%)
1	CCC	1.03	0/2156	1.26	4/2931 (0.1%)
1	DDD	1.04	0/2170	1.28	3/2952 (0.1%)
1	EEE	1.03	1/2163 (0.0%)	1.24	0/2940
All	All	1.04	2/10847 (0.0%)	1.24	8/14750 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	EEE	80	HIS	CE1-NE2	5.63	1.38	1.32
1	BBB	189	ILE	N-CA	5.14	1.50	1.46

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	DDD	122	VAL	N-CA-C	-5.78	107.22	111.90
1	CCC	108	ASN	CA-C-N	5.74	127.97	120.28
1	CCC	108	ASN	C-N-CA	5.74	127.97	120.28
1	CCC	227	TYR	CB-CA-C	5.69	115.81	110.17
1	DDD	270	ASP	CA-CB-CG	5.61	118.21	112.60
1	BBB	270	ASP	CA-CB-CG	5.30	117.90	112.60
1	DDD	195	HIS	CB-CA-C	5.19	116.63	108.63
1	CCC	67	GLY	CA-C-O	-5.12	117.29	122.56

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	AAA	2130	0	2078	18	0
1	BBB	2134	0	2080	12	0
1	CCC	2109	0	2037	14	0
1	DDD	2123	0	2047	15	0
1	EEE	2116	0	2064	18	0
2	AAA	1	0	0	0	0
2	BBB	2	0	0	0	0
2	CCC	2	0	0	0	0
2	DDD	2	0	0	0	0
2	EEE	3	0	0	0	0
3	AAA	209	0	0	3	0
3	BBB	209	0	0	2	0
3	CCC	168	0	0	0	0
3	DDD	178	0	0	1	0
3	EEE	189	0	0	0	0
All	All	11575	0	10306	74	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 4.

All (74) 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:EEE:52:ILE:HD11	1:EEE:283:LEU:CD2	1.95	0.95
1:EEE:52:ILE:HD11	1:EEE:283:LEU:HD22	1.55	0.85
1:EEE:52:ILE:HD11	1:EEE:283:LEU:HD23	1.65	0.78
1:AAA:140[B]:LEU:HD23	1:AAA:141:GLU:HG3	1.69	0.75
1:CCC:137:VAL:HB	1:CCC:153:PRO:HB2	1.75	0.68
1:DDD:143:LYS:CD	1:DDD:155:GLN:NE2	2.57	0.68
1:AAA:137:VAL:HB	1:AAA:153:PRO:HB2	1.80	0.63
1:BBB:137:VAL:HB	1:BBB:153:PRO:HB2	1.81	0.62
1:EEE:118:MET:HE3	1:EEE:320:VAL:HG11	1.82	0.61
1:EEE:137:VAL:HB	1:EEE:153:PRO:HB2	1.81	0.61
1:DDD:137:VAL:HB	1:DDD:153:PRO:HB2	1.85	0.58
1:EEE:117:MET:HE3	1:EEE:317:LYS:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AAA:72:TRP:CZ2	1:AAA:140[B]:LEU:HD22	2.38	0.58
1:AAA:140[A]:LEU:HD12	1:BBB:180:ASN:HB3	1.89	0.55
1:BBB:78:VAL:HG13	1:BBB:301:ALA:HB1	1.91	0.53
1:EEE:118:MET:CE	1:EEE:320:VAL:HG11	2.38	0.53
1:BBB:54[A]:LEU:HD12	3:BBB:641:HOH:O	2.10	0.52
1:EEE:55:TYR:HE1	1:EEE:129:VAL:HG21	1.76	0.50
1:EEE:178:GLU:OE2	1:EEE:231:GLU:OE2	2.29	0.50
1:DDD:54:LEU:HD11	1:DDD:285:VAL:HG21	1.93	0.50
1:CCC:126:THR:HA	1:CCC:310:TYR:O	2.11	0.50
1:DDD:143:LYS:CD	1:DDD:155:GLN:HE22	2.25	0.50
1:BBB:143:LYS:HD3	1:BBB:155:GLN:NE2	2.26	0.50
1:EEE:117:MET:CE	1:EEE:317:LYS:HD3	2.40	0.50
1:AAA:78:VAL:CG1	1:AAA:301:ALA:HB1	2.42	0.50
1:EEE:48:SER:HA	1:EEE:317:LYS:HD2	1.94	0.49
1:DDD:178:GLU:OE2	1:DDD:231:GLU:OE2	2.31	0.49
1:AAA:70:LYS:NZ	1:BBB:205:GLU:O	2.45	0.48
1:DDD:220[B]:ARG:NH1	3:DDD:502:HOH:O	2.39	0.48
1:AAA:218:LYS:NZ	3:AAA:508:HOH:O	2.47	0.48
1:CCC:143:LYS:CD	1:CCC:155:GLN:NE2	2.77	0.47
1:BBB:143:LYS:HD3	1:BBB:155:GLN:HE22	1.79	0.47
1:CCC:109:THR:O	1:CCC:110:ASP:HB2	2.15	0.47
1:CCC:178:GLU:OE2	1:CCC:231:GLU:OE2	2.33	0.47
1:AAA:160:MET:HE2	1:AAA:251:GLY:O	2.14	0.47
1:DDD:43:ILE:HD13	1:DDD:117:MET:SD	2.55	0.46
1:AAA:54:LEU:HD11	1:AAA:285:VAL:HG21	1.96	0.46
1:DDD:195:HIS:O	1:DDD:198:ASP:HB2	2.16	0.46
1:DDD:207:LYS:N	1:DDD:208:PRO:CD	2.78	0.46
1:EEE:164:MET:HB3	1:EEE:164:MET:HE2	1.82	0.46
1:EEE:41:ASN:OD1	1:EEE:41:ASN:N	2.48	0.46
1:DDD:50:THR:HG22	1:DDD:119:TRP:CZ3	2.51	0.46
1:DDD:283:LEU:HD13	1:DDD:315:LEU:HD21	1.97	0.45
1:EEE:321:LYS:O	1:EEE:322:ASN:CB	2.64	0.45
1:BBB:54[B]:LEU:HD11	1:BBB:285:VAL:HG21	1.99	0.45
1:AAA:54:LEU:HD11	1:AAA:285:VAL:CG2	2.47	0.45
3:BBB:506:HOH:O	1:CCC:218:LYS:NZ	2.50	0.45
1:AAA:55:TYR:CE1	1:AAA:310:TYR:HB2	2.52	0.45
1:CCC:164:MET:HA	1:CCC:245:PHE:O	2.17	0.45
1:BBB:215:PRO:O	1:BBB:218:LYS:HE2	2.17	0.45
1:AAA:312:LYS:NZ	3:AAA:512:HOH:O	2.50	0.44
1:DDD:121:ALA:O	1:DDD:275:GLY:HA3	2.17	0.44
1:AAA:46:PRO:HA	3:AAA:515:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AAA:215:PRO:O	1:AAA:218:LYS:HE2	2.17	0.44
1:BBB:207:LYS:N	1:BBB:208:PRO:CD	2.80	0.44
1:AAA:194:ILE:HG21	1:AAA:227:TYR:CE2	2.53	0.43
1:AAA:53:GLU:HA	1:AAA:311:PHE:O	2.18	0.43
1:CCC:207:LYS:N	1:CCC:208:PRO:CD	2.82	0.43
1:BBB:52:ILE:C	1:BBB:52:ILE:HD12	2.44	0.43
1:AAA:72:TRP:CH2	1:AAA:140[B]:LEU:HD22	2.53	0.42
1:BBB:178:GLU:OE2	1:BBB:231:GLU:OE2	2.37	0.42
1:CCC:249:VAL:HG12	1:CCC:254:THR:HG21	2.02	0.42
1:DDD:53:GLU:HA	1:DDD:311:PHE:O	2.19	0.42
1:EEE:126:THR:HA	1:EEE:310:TYR:O	2.20	0.42
1:EEE:55:TYR:CE1	1:EEE:310:TYR:HB2	2.54	0.42
1:CCC:194:ILE:HG21	1:CCC:227:TYR:CE1	2.54	0.41
1:CCC:166:ALA:HB3	1:CCC:286:SER:HB2	2.02	0.41
1:EEE:62:ILE:HD13	1:EEE:72:TRP:HB2	2.02	0.41
1:AAA:302:ILE:C	1:AAA:302:ILE:HD12	2.45	0.41
1:CCC:302:ILE:HD12	1:CCC:302:ILE:C	2.46	0.41
1:EEE:302:ILE:C	1:EEE:302:ILE:HD12	2.45	0.41
1:CCC:260:PHE:CE2	1:DDD:246:GLY:HA3	2.56	0.40
1:DDD:158:GLU:HA	1:DDD:256:PRO:HD3	2.03	0.40
1:CCC:54:LEU:HD11	1:CCC:285:VAL:HG21	2.04	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	280/292 (96%)	268 (96%)	12 (4%)	0	100	100
1	BBB	280/292 (96%)	271 (97%)	9 (3%)	0	100	100
1	CCC	277/292 (95%)	266 (96%)	11 (4%)	0	100	100
1	DDD	279/292 (96%)	268 (96%)	11 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	EEE	277/292 (95%)	267 (96%)	10 (4%)	0	100	100
All	All	1393/1460 (95%)	1340 (96%)	53 (4%)	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	219/244 (90%)	215 (98%)	4 (2%)	51	50
1	BBB	222/244 (91%)	220 (99%)	2 (1%)	70	73
1	CCC	215/244 (88%)	213 (99%)	2 (1%)	70	73
1	DDD	216/244 (88%)	214 (99%)	2 (1%)	70	73
1	EEE	218/244 (89%)	212 (97%)	6 (3%)	38	32
All	All	1090/1220 (89%)	1074 (98%)	16 (2%)	57	56

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	115	THR
1	AAA	164	MET
1	AAA	213	LEU
1	AAA	298	ASP
1	BBB	127	GLU
1	BBB	164	MET
1	CCC	110	ASP
1	CCC	164	MET
1	DDD	64	SER
1	DDD	164	MET
1	EEE	41	ASN
1	EEE	52	ILE
1	EEE	54	LEU
1	EEE	127	GLU

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Mol	Chain	Res	Type
1	EEE	164	MET
1	EEE	187	SER

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

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 10 ligands modelled in this entry, 10 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 ⓘ

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	AAA	282/292 (96%)	-0.10	5 (1%) 67 71	11, 27, 46, 76	2 (0%)
1	BBB	281/292 (96%)	-0.04	8 (2%) 55 59	11, 27, 45, 69	3 (1%)
1	CCC	280/292 (95%)	0.01	6 (2%) 63 67	14, 28, 47, 73	1 (0%)
1	DDD	281/292 (96%)	0.12	10 (3%) 46 49	13, 30, 54, 78	2 (0%)
1	EEE	280/292 (95%)	0.02	3 (1%) 78 80	13, 29, 47, 76	1 (0%)
All	All	1404/1460 (96%)	0.00	32 (2%) 61 65	11, 28, 48, 78	9 (0%)

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BBB	322	ASN	4.0
1	CCC	109	THR	3.8
1	CCC	37	VAL	3.4
1	BBB	115	THR	3.3
1	EEE	115	THR	3.2
1	DDD	189	ILE	3.2
1	BBB	116	LEU	3.0
1	EEE	322	ASN	3.0
1	AAA	46	PRO	3.0
1	AAA	109	THR	3.0
1	DDD	190	PRO	3.0
1	CCC	46	PRO	2.9
1	AAA	114	ASP	2.9
1	DDD	322	ASN	2.8
1	DDD	115	THR	2.8
1	BBB	189	ILE	2.6
1	DDD	37	VAL	2.6
1	CCC	45	GLY	2.5
1	DDD	109	THR	2.5
1	DDD	203	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
1	DDD	191	PRO	2.3
1	BBB	37	VAL	2.3
1	BBB	46	PRO	2.3
1	AAA	45	GLY	2.3
1	CCC	110	ASP	2.3
1	DDD	188	ALA	2.2
1	BBB	109	THR	2.2
1	CCC	187	SER	2.2
1	BBB	191	PRO	2.2
1	EEE	320	VAL	2.1
1	AAA	37	VAL	2.0
1	DDD	46	PRO	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(Å ²)	Q<0.9
2	MG	BBB	402	1/1	0.92	0.20	45,45,45,45	0
2	MG	EEE	401	1/1	0.93	0.10	56,56,56,56	0
2	MG	DDD	402	1/1	0.94	0.19	44,44,44,44	0
2	MG	BBB	401	1/1	0.95	0.09	50,50,50,50	0
2	MG	DDD	401	1/1	0.95	0.08	48,48,48,48	0
2	MG	EEE	402	1/1	0.95	0.08	53,53,53,53	0
2	MG	CCC	401	1/1	0.97	0.07	44,44,44,44	0
2	MG	CCC	402	1/1	0.97	0.11	43,43,43,43	0
2	MG	AAA	401	1/1	0.98	0.16	39,39,39,39	0
2	MG	EEE	403	1/1	0.98	0.16	39,39,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.