



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 05:54 PM UTC

PDB ID : 1UXE / pdb_00001uxe
Title : ADENOVIRUS AD37 FIBRE HEAD
Authors : Burmeister, W.P.; Guilligay, D.; Cusack, S.; Wadell, G.; Arnberg, N.
Deposited on : 2004-02-24
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
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

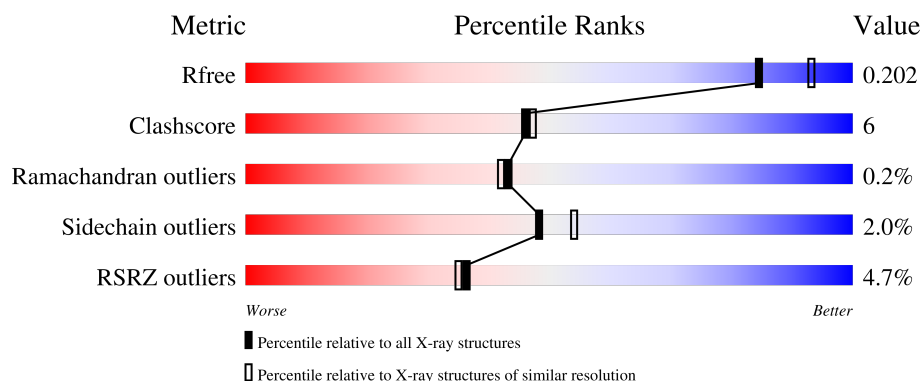
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	194	6% 76% 18% • 5%
1	B	194	5% 77% 17% • 6%
1	C	194	3% 81% 11% •• 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4745 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 FIBER PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	184	Total	C	N	O	S	0	0	0
			1455	933	237	281	4			
1	B	183	Total	C	N	O	S	0	0	0
			1447	929	236	278	4			
1	C	183	Total	C	N	O	S	0	0	0
			1447	929	236	278	4			

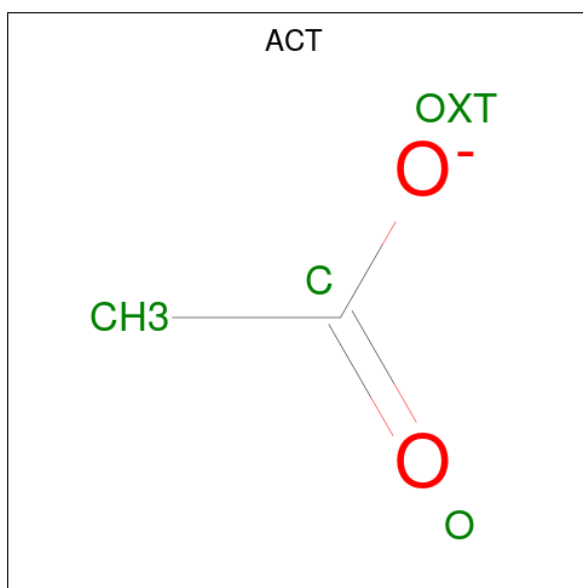
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	173	ALA	TYR	engineered mutation	UNP Q64823
B	173	ALA	TYR	engineered mutation	UNP Q64823
C	173	ALA	TYR	engineered mutation	UNP Q64823
A	174	MET	LEU	engineered mutation	UNP Q64823
B	174	MET	LEU	engineered mutation	UNP Q64823
C	174	MET	LEU	engineered mutation	UNP Q64823
A	175	GLY	VAL	engineered mutation	UNP Q64823
B	175	GLY	VAL	engineered mutation	UNP Q64823
C	175	GLY	VAL	engineered mutation	UNP Q64823
A	176	SER	ALA	engineered mutation	UNP Q64823
B	176	SER	ALA	engineered mutation	UNP Q64823
C	176	SER	ALA	engineered mutation	UNP Q64823

- 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		
2	C	1	Total	Zn	0	0
			1	1		

- Molecule 3 is ACETATE ION (CCD ID: ACT) (formula: $C_2H_3O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	C	1	Total	C	O	0	0
			4	2	2		

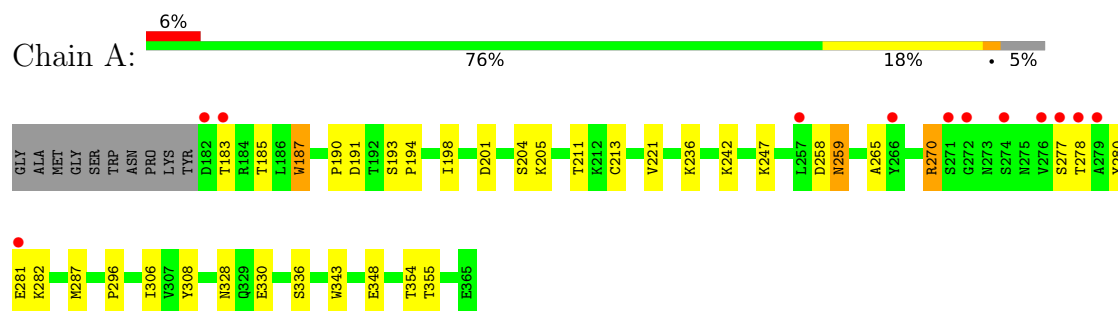
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	115	Total	O	0	0
			115	115		
4	B	120	Total	O	0	0
			120	120		
4	C	150	Total	O	0	0
			150	150		

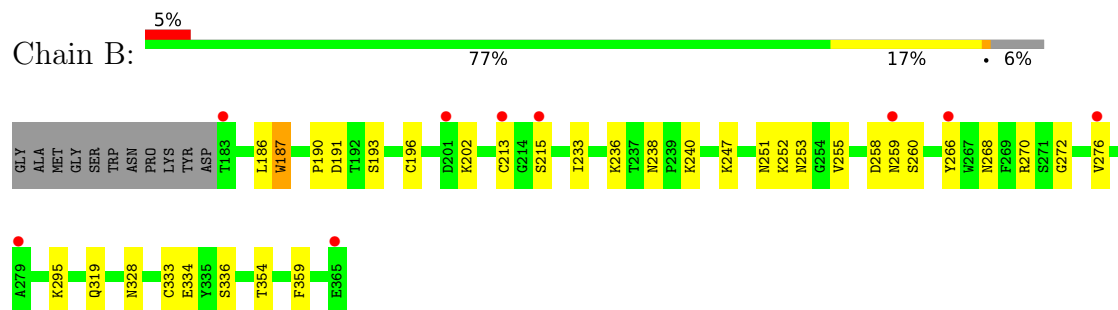
3 Residue-property plots [i](#)

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.

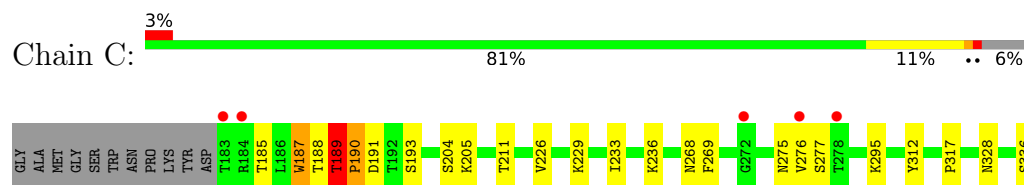
• Molecule 1: FIBER PROTEIN



• Molecule 1: FIBER PROTEIN



• Molecule 1: FIBER PROTEIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	62.49Å 70.36Å 75.28Å 90.00° 94.12° 90.00°	Depositor
Resolution (Å)	51.30 – 2.00 51.30 – 2.00	Depositor EDS
% Data completeness (in resolution range)	96.5 (51.30-2.00) 96.5 (51.30-2.00)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.09 (at 2.00Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.204 , 0.241 0.204 , 0.202	Depositor DCC
R_{free} test set	2211 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	20.8	Xtriage
Anisotropy	0.456	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 54.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4745	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.02% 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: ACT, ZN

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	1.20	2/1489 (0.1%)	1.31	16/2022 (0.8%)
1	B	1.22	3/1481 (0.2%)	1.26	10/2011 (0.5%)
1	C	1.32	1/1481 (0.1%)	1.28	8/2011 (0.4%)
All	All	1.25	6/4451 (0.1%)	1.28	34/6044 (0.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	233	ILE	CA-CB	6.76	1.61	1.54
1	B	233	ILE	CA-CB	5.71	1.61	1.54
1	B	359	PHE	N-CA	5.42	1.53	1.46
1	A	296	PRO	CA-C	5.37	1.58	1.52
1	A	306	ILE	C-O	5.30	1.29	1.24
1	B	319	GLN	CA-C	5.27	1.59	1.53

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	354	THR	N-CA-C	10.06	124.92	110.14
1	B	354	THR	N-CA-C	8.49	122.63	110.14
1	A	280	TYR	N-CA-C	8.02	120.94	110.43
1	C	236	LYS	N-CA-C	-7.78	101.92	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	236	LYS	N-CA-C	-7.71	102.52	112.23
1	A	265	ALA	N-CA-C	6.90	119.67	111.33
1	A	354	THR	N-CA-C	6.55	120.30	110.14
1	C	204	SER	N-CA-C	6.50	118.64	108.96
1	A	280	TYR	CA-C-N	6.49	130.63	120.89
1	A	280	TYR	C-N-CA	6.49	130.63	120.89
1	B	266	TYR	N-CA-C	6.43	120.75	112.26
1	A	198	ILE	CB-CA-C	-6.35	104.31	111.80
1	A	236	LYS	N-CA-C	-6.29	102.98	112.04
1	A	187	TRP	N-CA-C	6.25	117.37	108.74
1	C	226	VAL	N-CA-C	6.08	122.22	113.16
1	C	229	LYS	N-CA-C	5.99	118.58	111.33
1	A	201	ASP	N-CA-C	5.89	119.14	110.30
1	C	190	PRO	N-CA-C	5.75	124.31	112.47
1	B	238	ASN	CA-C-N	5.69	125.36	119.56
1	B	238	ASN	C-N-CA	5.69	125.36	119.56
1	B	240	LYS	N-CA-C	5.65	120.17	113.28
1	C	185	THR	N-CA-C	5.61	117.54	108.34
1	B	260	SER	N-CA-C	-5.59	103.00	110.55
1	A	270	ARG	N-CA-C	5.45	118.55	110.48
1	A	221	VAL	N-CA-C	5.41	117.67	108.86
1	A	204	SER	N-CA-C	5.26	117.07	109.07
1	A	277	SER	N-CA-C	5.26	119.56	113.20
1	A	355	THR	N-CA-C	-5.25	103.69	110.19
1	A	287	MET	CA-C-N	5.18	125.34	119.90
1	A	287	MET	C-N-CA	5.18	125.34	119.90
1	B	258	ASP	N-CA-C	5.10	118.99	112.87
1	C	277	SER	N-CA-C	5.06	116.80	111.28
1	B	247	LYS	N-CA-C	5.03	117.59	109.40
1	B	187	TRP	N-CA-C	5.03	115.67	108.74

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	312	TYR	Sidechain

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	1455	0	1444	18	1
1	B	1447	0	1440	21	0
1	C	1447	0	1440	16	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
3	A	4	0	3	0	0
3	C	4	0	3	0	1
4	A	115	0	0	0	0
4	B	120	0	0	1	0
4	C	150	0	0	1	0
All	All	4745	0	4330	50	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 6.

All (50) 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:C:188:THR:O	1:C:189:THR:HB	1.67	0.92
1:A:259:ASN:HD22	1:A:259:ASN:H	1.24	0.83
1:B:268:ASN:HD21	1:B:276:VAL:HG23	1.46	0.80
1:C:268:ASN:HD22	1:C:269:PHE:H	1.28	0.80
1:B:270:ARG:NH2	4:B:2032:HOH:O	2.19	0.76
1:A:281:GLU:HG3	1:A:282:LYS:H	1.52	0.72
1:B:252:LYS:HE2	1:B:334:GLU:OE1	1.91	0.70
1:C:187:TRP:HE1	1:C:275:ASN:ND2	1.89	0.69
1:B:268:ASN:ND2	1:B:276:VAL:CG2	2.55	0.69
1:C:187:TRP:CD1	1:C:275:ASN:HD21	2.10	0.69
1:B:328:ASN:HD22	1:B:336:SER:H	1.41	0.68
1:B:268:ASN:HD21	1:B:276:VAL:CG2	2.06	0.67
1:C:187:TRP:NE1	1:C:275:ASN:HD21	1.93	0.67
1:A:242:LYS:HE3	1:A:343:TRP:O	1.97	0.65
1:C:276:VAL:HG21	4:C:2052:HOH:O	1.95	0.64
1:B:268:ASN:ND2	1:B:276:VAL:HG23	2.12	0.63
1:C:328:ASN:HD22	1:C:336:SER:H	1.49	0.61
1:C:187:TRP:NE1	1:C:275:ASN:ND2	2.50	0.59
1:C:268:ASN:ND2	1:C:269:PHE:H	1.99	0.59
1:C:268:ASN:HD22	1:C:269:PHE:N	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:259:ASN:H	1:A:259:ASN:ND2	2.01	0.56
1:B:268:ASN:ND2	1:B:276:VAL:HG22	2.20	0.55
1:B:251:ASN:OD1	1:B:253:ASN:N	2.33	0.54
1:C:188:THR:O	1:C:189:THR:CB	2.45	0.51
1:A:191:ASP:OD1	1:A:191:ASP:C	2.54	0.49
1:A:211:THR:HG21	1:B:213:CYS:O	2.12	0.49
1:B:270:ARG:NE	1:B:272:GLY:O	2.38	0.49
1:C:193:SER:O	1:C:205:LYS:HD3	2.13	0.49
1:A:308:TYR:OH	1:C:317:PRO:HD3	2.13	0.48
1:A:259:ASN:HD22	1:A:259:ASN:N	2.04	0.48
1:A:328:ASN:HD22	1:A:336:SER:H	1.60	0.48
1:A:281:GLU:CG	1:A:282:LYS:H	2.19	0.47
1:B:251:ASN:OD1	1:B:251:ASN:C	2.57	0.47
1:A:270:ARG:HH11	1:B:215:SER:HB3	1.79	0.47
1:B:328:ASN:ND2	1:B:336:SER:H	2.12	0.47
1:C:191:ASP:O	1:C:205:LYS:HE3	2.15	0.45
1:A:247:LYS:NZ	1:A:330:GLU:OE1	2.50	0.45
1:A:187:TRP:CH2	1:A:190:PRO:HD3	2.53	0.44
1:A:185:THR:OG1	1:B:215:SER:HB2	2.19	0.43
1:B:191:ASP:OD1	1:B:191:ASP:C	2.62	0.42
1:A:193:SER:O	1:A:194:PRO:C	2.61	0.42
1:B:187:TRP:CH2	1:B:190:PRO:HD3	2.55	0.42
1:B:196:CYS:O	1:B:202:LYS:HA	2.20	0.42
1:B:259:ASN:OD1	1:B:259:ASN:N	2.53	0.41
1:A:213:CYS:O	1:C:211:THR:HG21	2.21	0.41
1:A:281:GLU:HG3	1:A:282:LYS:N	2.27	0.41
1:B:251:ASN:ND2	1:B:255:VAL:HB	2.36	0.41
1:B:295:LYS:NZ	1:B:333:CYS:SG	2.94	0.41
1:A:191:ASP:O	1:A:205:LYS:HE2	2.21	0.40
1:C:189:THR:O	1:C:189:THR:HG22	2.20	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)
1:A:348:GLU:OE2	3:C:1367:ACT:O[2_757]	2.04	0.16

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	A	182/194 (94%)	170 (93%)	12 (7%)	0	100	100
1	B	181/194 (93%)	174 (96%)	7 (4%)	0	100	100
1	C	181/194 (93%)	174 (96%)	6 (3%)	1 (1%)	21	17
All	All	544/582 (94%)	518 (95%)	25 (5%)	1 (0%)	43	42

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	189	THR

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	A	164/171 (96%)	160 (98%)	4 (2%)	43	47
1	B	163/171 (95%)	161 (99%)	2 (1%)	63	70
1	C	163/171 (95%)	159 (98%)	4 (2%)	42	45
All	All	490/513 (96%)	480 (98%)	10 (2%)	48	54

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	183	THR
1	A	258	ASP

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Mol	Chain	Res	Type
1	A	259	ASN
1	A	278	THR
1	B	186	LEU
1	B	193	SER
1	C	187	TRP
1	C	189	THR
1	C	190	PRO
1	C	295	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	238	ASN
1	A	259	ASN
1	A	328	ASN
1	A	329	GLN
1	B	328	ASN
1	C	268	ASN
1	C	275	ASN
1	C	328	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 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and

the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	ACT	A	1367	2	3,3,3	1.49	1 (33%)	3,3,3	1.67	1 (33%)
3	ACT	C	1367	2	3,3,3	1.45	1 (33%)	3,3,3	1.86	1 (33%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1367	ACT	O-C	2.33	1.32	1.22
3	C	1367	ACT	O-C	2.30	1.32	1.22

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	1367	ACT	O-C-CH3	-2.56	112.05	122.53
3	A	1367	ACT	O-C-CH3	-2.27	113.20	122.53

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	1367	ACT	0	1

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	A	184/194 (94%)	0.24	12 (6%) 25 23	14, 26, 46, 64	0
1	B	183/194 (94%)	0.22	9 (4%) 35 34	13, 27, 51, 60	0
1	C	183/194 (94%)	-0.24	5 (2%) 56 55	11, 20, 42, 54	0
All	All	550/582 (94%)	0.07	26 (4%) 36 35	11, 24, 47, 64	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	182	ASP	4.0
1	A	278	THR	3.6
1	C	183	THR	3.6
1	B	276	VAL	3.2
1	A	281	GLU	3.1
1	C	278	THR	3.0
1	A	183	THR	2.8
1	A	274	SER	2.5
1	C	276	VAL	2.4
1	B	266	TYR	2.4
1	B	213	CYS	2.4
1	B	279	ALA	2.4
1	A	276	VAL	2.4
1	B	365	GLU	2.3
1	A	266	TYR	2.3
1	A	279	ALA	2.3
1	C	272	GLY	2.2
1	B	215	SER	2.2
1	B	183	THR	2.2
1	A	277	SER	2.1
1	A	257	LEU	2.1
1	A	271	SER	2.1
1	B	201	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	184	ARG	2.0
1	B	259	ASN	2.0
1	A	272	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	ACT	A	1367	4/4	0.86	0.14	47,48,50,50	0
3	ACT	C	1367	4/4	0.94	0.10	17,26,28,28	0
2	ZN	B	1366	1/1	0.99	0.03	31,31,31,31	0
2	ZN	C	1366	1/1	0.99	0.05	31,31,31,31	0
2	ZN	A	1366	1/1	1.00	0.05	33,33,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.