



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 2, 2026 – 01:07 AM UTC

PDB ID : 6VLI / pdb_00006vli
Title : Crystal structure of transcriptional regulator from bacteriophage 186
Authors : Truong, J.Q.; Panjikar, S.; Bruning, J.B.; Shearwin, K.E.
Deposited on : 2020-01-24
Resolution : 2.10 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

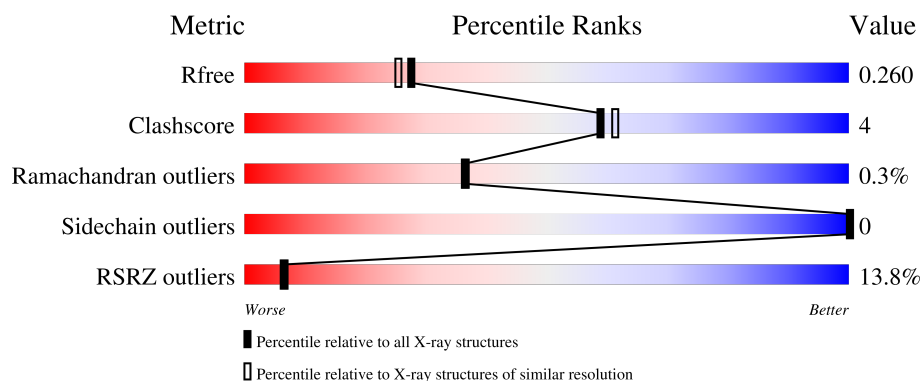
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	165	
1	B	165	
1	C	165	
1	D	165	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4899 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 Regulatory protein CII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	154	Total	C	N	O	S	0	0	0
			1185	742	214	219	10			
1	B	151	Total	C	N	O	S	0	0	0
			1157	723	209	215	10			
1	C	144	Total	C	N	O	S	0	1	0
			1119	699	200	210	10			
1	D	145	Total	C	N	O	S	0	0	0
			1135	710	205	210	10			

There are 80 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP P21678
A	2	GLY	-	expression tag	UNP P21678
A	3	SER	-	expression tag	UNP P21678
A	4	SER	-	expression tag	UNP P21678
A	5	HIS	-	expression tag	UNP P21678
A	6	HIS	-	expression tag	UNP P21678
A	7	HIS	-	expression tag	UNP P21678
A	8	HIS	-	expression tag	UNP P21678
A	9	HIS	-	expression tag	UNP P21678
A	10	HIS	-	expression tag	UNP P21678
A	11	SER	-	expression tag	UNP P21678
A	12	SER	-	expression tag	UNP P21678
A	13	GLY	-	expression tag	UNP P21678
A	14	LEU	-	expression tag	UNP P21678
A	15	VAL	-	expression tag	UNP P21678
A	16	PRO	-	expression tag	UNP P21678
A	17	ARG	-	expression tag	UNP P21678
A	18	GLY	-	expression tag	UNP P21678
A	19	SER	-	expression tag	UNP P21678
A	20	HIS	-	expression tag	UNP P21678
B	1	MET	-	initiating methionine	UNP P21678

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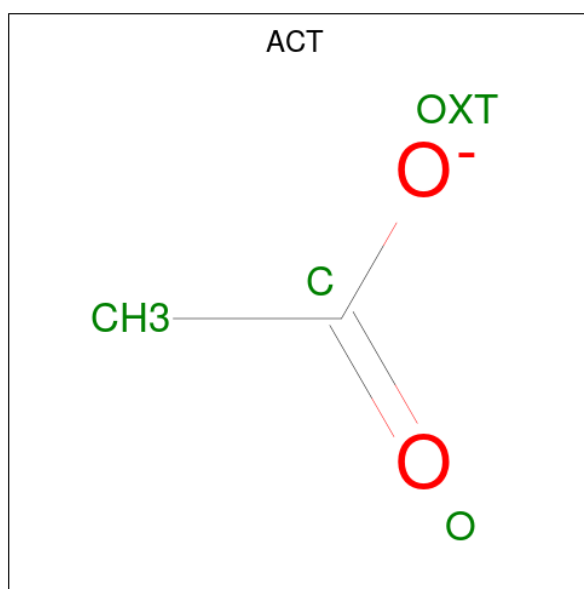
Chain	Residue	Modelled	Actual	Comment	Reference
B	2	GLY	-	expression tag	UNP P21678
B	3	SER	-	expression tag	UNP P21678
B	4	SER	-	expression tag	UNP P21678
B	5	HIS	-	expression tag	UNP P21678
B	6	HIS	-	expression tag	UNP P21678
B	7	HIS	-	expression tag	UNP P21678
B	8	HIS	-	expression tag	UNP P21678
B	9	HIS	-	expression tag	UNP P21678
B	10	HIS	-	expression tag	UNP P21678
B	11	SER	-	expression tag	UNP P21678
B	12	SER	-	expression tag	UNP P21678
B	13	GLY	-	expression tag	UNP P21678
B	14	LEU	-	expression tag	UNP P21678
B	15	VAL	-	expression tag	UNP P21678
B	16	PRO	-	expression tag	UNP P21678
B	17	ARG	-	expression tag	UNP P21678
B	18	GLY	-	expression tag	UNP P21678
B	19	SER	-	expression tag	UNP P21678
B	20	HIS	-	expression tag	UNP P21678
C	1	MET	-	initiating methionine	UNP P21678
C	2	GLY	-	expression tag	UNP P21678
C	3	SER	-	expression tag	UNP P21678
C	4	SER	-	expression tag	UNP P21678
C	5	HIS	-	expression tag	UNP P21678
C	6	HIS	-	expression tag	UNP P21678
C	7	HIS	-	expression tag	UNP P21678
C	8	HIS	-	expression tag	UNP P21678
C	9	HIS	-	expression tag	UNP P21678
C	10	HIS	-	expression tag	UNP P21678
C	11	SER	-	expression tag	UNP P21678
C	12	SER	-	expression tag	UNP P21678
C	13	GLY	-	expression tag	UNP P21678
C	14	LEU	-	expression tag	UNP P21678
C	15	VAL	-	expression tag	UNP P21678
C	16	PRO	-	expression tag	UNP P21678
C	17	ARG	-	expression tag	UNP P21678
C	18	GLY	-	expression tag	UNP P21678
C	19	SER	-	expression tag	UNP P21678
C	20	HIS	-	expression tag	UNP P21678
D	1	MET	-	initiating methionine	UNP P21678
D	2	GLY	-	expression tag	UNP P21678
D	3	SER	-	expression tag	UNP P21678

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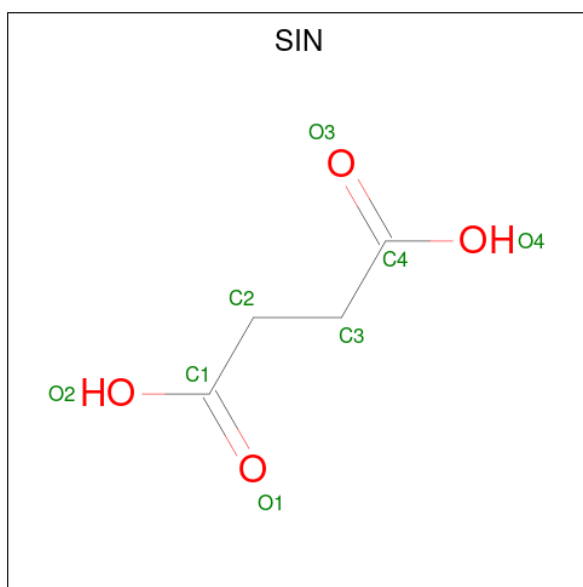
Chain	Residue	Modelled	Actual	Comment	Reference
D	4	SER	-	expression tag	UNP P21678
D	5	HIS	-	expression tag	UNP P21678
D	6	HIS	-	expression tag	UNP P21678
D	7	HIS	-	expression tag	UNP P21678
D	8	HIS	-	expression tag	UNP P21678
D	9	HIS	-	expression tag	UNP P21678
D	10	HIS	-	expression tag	UNP P21678
D	11	SER	-	expression tag	UNP P21678
D	12	SER	-	expression tag	UNP P21678
D	13	GLY	-	expression tag	UNP P21678
D	14	LEU	-	expression tag	UNP P21678
D	15	VAL	-	expression tag	UNP P21678
D	16	PRO	-	expression tag	UNP P21678
D	17	ARG	-	expression tag	UNP P21678
D	18	GLY	-	expression tag	UNP P21678
D	19	SER	-	expression tag	UNP P21678
D	20	HIS	-	expression tag	UNP P21678

- Molecule 2 is ACETATE ION (CCD ID: ACT) (formula: $C_2H_3O_2$).



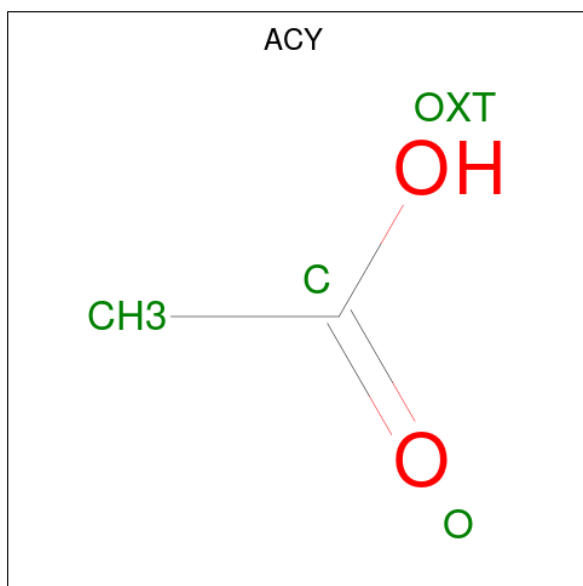
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is SUCCINIC ACID (CCD ID: SIN) (formula: $C_4H_6O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			8	4	4		

- Molecule 4 is ACETIC ACID (CCD ID: ACY) (formula: $C_2H_4O_2$).



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

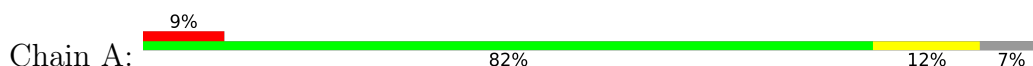
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	102	Total 102	O 102	0	0
5	B	53	Total 53	O 53	0	0
5	C	48	Total 48	O 48	0	0
5	D	84	Total 84	O 84	0	0

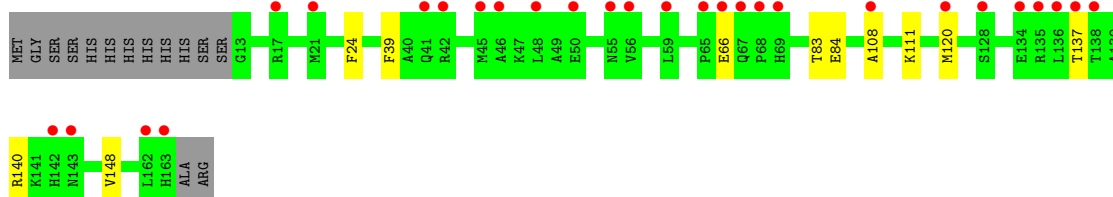
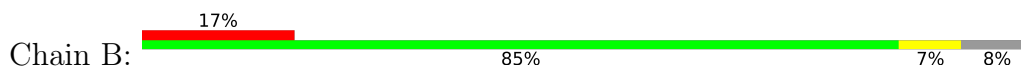
3 Residue-property plots [i](#)

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.

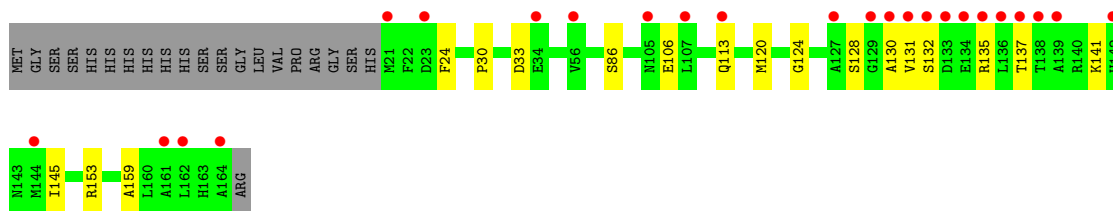
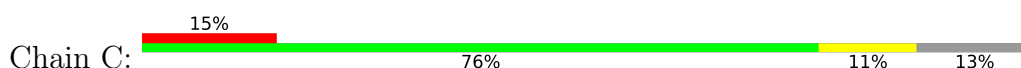
- Molecule 1: Regulatory protein CII



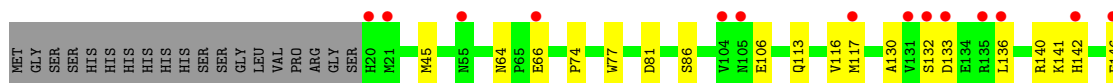
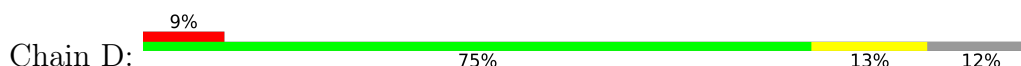
- Molecule 1: Regulatory protein CII

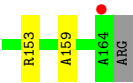


- Molecule 1: Regulatory protein CII



- Molecule 1: Regulatory protein CII





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	55.47Å 53.51Å 106.35Å 90.00° 100.88° 90.00°	Depositor
Resolution (Å)	54.47 – 2.10 54.47 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.4 (54.47-2.10) 99.4 (54.47-2.10)	Depositor EDS
R_{merge}	0.25	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.56 (at 2.10Å)	Xtriage
Refinement program	PHENIX dev_2689	Depositor
R, R_{free}	0.221 , 0.261 (Not available) , 0.260	Depositor DCC
R_{free} test set	1998 reflections (5.53%)	wwPDB-VP
Wilson B-factor (Å ²)	26.5	Xtriage
Anisotropy	0.449	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 53.7	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	0.93	EDS
Total number of atoms	4899	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.82% 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](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ACY, ACT, SIN

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	0.12	0/1209	0.28	0/1637
1	B	0.11	0/1181	0.27	0/1602
1	C	0.12	0/1144	0.30	0/1549
1	D	0.13	0/1158	0.31	0/1567
All	All	0.12	0/4692	0.29	0/6355

There are no bond length outliers.

There are no bond angle outliers.

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	A	1185	0	1166	13	0
1	B	1157	0	1121	9	0
1	C	1119	0	1100	13	0
1	D	1135	0	1119	14	0
2	A	4	0	3	0	0
3	A	8	0	4	0	0
4	D	4	0	3	0	0
5	A	102	0	0	0	0
5	B	53	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	48	0	0	1	0
5	D	84	0	0	2	0
All	All	4899	0	4516	40	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 (40) 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:118:ARG:HB2	1:A:154:MET:HE2	1.80	0.63
1:B:84:GLU:OE1	1:C:24:PHE:N	2.31	0.63
1:B:108:ALA:HB3	1:B:111:LYS:HG3	1.82	0.60
1:C:130:ALA:O	1:C:132:SER:N	2.34	0.60
1:A:117:MET:HA	1:C:120:MET:HE1	1.84	0.59
1:C:113:GLN:NE2	5:C:202:HOH:O	2.35	0.58
1:A:137:THR:HG22	1:A:139:ALA:H	1.69	0.58
1:B:140:ARG:NH2	5:B:204:HOH:O	2.36	0.58
1:A:42:ARG:NH1	1:A:146:GLU:OE2	2.39	0.56
1:C:30:PRO:HB2	1:C:33:ASP:HB2	1.87	0.55
1:A:139:ALA:O	1:A:143:ASN:ND2	2.41	0.54
1:D:106:GLU:OE1	1:D:153:ARG:NH1	2.42	0.52
1:B:137:THR:HG23	1:B:140:ARG:H	1.75	0.51
1:D:113:GLN:O	1:D:117:MET:HG3	2.12	0.50
1:D:74:PRO:HA	1:D:77:TRP:CE3	2.46	0.50
1:C:141:LYS:O	1:C:145:ILE:HG12	2.12	0.49
1:D:132:SER:OG	1:D:133:ASP:N	2.39	0.48
1:D:142:HIS:O	1:D:146:GLU:HG2	2.13	0.47
1:C:124:GLY:O	1:C:128:SER:N	2.48	0.46
1:C:135:ARG:HD2	1:C:135:ARG:H	1.80	0.46
1:C:106:GLU:OE1	1:C:153:ARG:NE	2.48	0.45
1:A:165:ARG:NH2	1:D:130:ALA:O	2.38	0.44
1:A:74:PRO:HA	1:A:77:TRP:CE3	2.53	0.44
1:B:66:GLU:H	1:B:66:GLU:HG2	1.62	0.44
1:B:120:MET:HE1	1:D:116:VAL:HG12	2.00	0.44
1:A:122:GLU:HG3	1:A:150:SER:HB3	2.00	0.43
1:C:113:GLN:H	1:C:113:GLN:CD	2.26	0.43
1:D:64:ASN:OD1	1:D:66:GLU:OE2	2.36	0.43
1:A:25:GLN:HA	1:D:81:ASP:OD1	2.19	0.43
1:A:118:ARG:CB	1:A:154:MET:HE2	2.48	0.42
1:B:148:VAL:HG11	1:C:159:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:136:LEU:HD13	1:D:140:ARG:HB3	2.01	0.42
1:A:24:PHE:CZ	1:D:86:SER:HB3	2.54	0.42
1:B:39:PHE:CZ	1:B:83:THR:HG21	2.54	0.42
1:A:148:VAL:HG11	1:D:159:ALA:HB2	2.00	0.42
1:C:135:ARG:O	1:C:137:THR:HG23	2.19	0.42
1:D:141:LYS:NZ	5:D:311:HOH:O	2.52	0.42
1:A:127:ALA:O	1:A:131:VAL:HG22	2.20	0.41
1:D:45:MET:N	5:D:301:HOH:O	2.32	0.41
1:B:24:PHE:CZ	1:C:86:SER:HB3	2.55	0.41

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	152/165 (92%)	148 (97%)	3 (2%)	1 (1%)	18	15
1	B	149/165 (90%)	147 (99%)	2 (1%)	0	100	100
1	C	143/165 (87%)	138 (96%)	4 (3%)	1 (1%)	18	15
1	D	143/165 (87%)	140 (98%)	3 (2%)	0	100	100
All	All	587/660 (89%)	573 (98%)	12 (2%)	2 (0%)	36	36

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	17	ARG
1	C	131	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	A	127/142 (89%)	127 (100%)	0	100	100
1	B	123/142 (87%)	123 (100%)	0	100	100
1	C	122/142 (86%)	122 (100%)	0	100	100
1	D	123/142 (87%)	123 (100%)	0	100	100
All	All	495/568 (87%)	495 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	GLN
1	A	149	ASN
1	B	31	HIS
1	C	43	HIS
1	C	113	GLN
1	C	149	ASN
1	D	29	HIS
1	D	57	GLN
1	D	67	GLN
1	D	97	HIS
1	D	143	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](#)

3 ligands are modelled in this entry.

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	SIN	A	202	-	7,7,7	1.06	0	8,8,8	1.57	2 (25%)
2	ACT	A	201	-	3,3,3	1.43	1 (33%)	3,3,3	1.47	0
4	ACY	D	201	-	3,3,3	0.82	0	3,3,3	0.81	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	SIN	A	202	-	-	1/5/5/5	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	201	ACT	CH3-C	2.03	1.57	1.49

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	202	SIN	O4-C4-C3	2.08	120.56	114.00
3	A	202	SIN	O2-C1-C2	2.04	120.44	114.00

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	202	SIN	C1-C2-C3-C4

There are no ring outliers.

No monomer is involved in short contacts.

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	154/165 (93%)	0.63	15 (9%) 13 14	15, 26, 73, 111	0
1	B	151/165 (91%)	1.10	28 (18%) 3 3	20, 39, 75, 96	0
1	C	144/165 (87%)	1.18	24 (16%) 4 4	17, 36, 78, 135	1 (0%)
1	D	145/165 (87%)	0.75	15 (10%) 12 12	15, 29, 68, 121	0
All	All	594/660 (90%)	0.91	82 (13%) 6 6	15, 33, 74, 135	1 (0%)

All (82) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	136	LEU	5.4
1	C	164	ALA	5.2
1	C	130	ALA	5.0
1	C	134	GLU	4.9
1	D	105	ASN	4.8
1	C	138	THR	4.7
1	C	21	MET	4.7
1	D	164	ALA	4.6
1	D	133	ASP	4.6
1	A	12	SER	4.5
1	C	131	VAL	4.5
1	D	20	HIS	4.3
1	A	18	GLY	4.3
1	C	129	GLY	4.1
1	A	137	THR	4.0
1	C	137	THR	4.0
1	D	131	VAL	3.9
1	C	139	ALA	3.9
1	C	135	ARG	3.9
1	B	66	GLU	3.9
1	D	21	MET	3.8

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Mol	Chain	Res	Type	RSRZ
1	C	113	GLN	3.7
1	B	138	THR	3.7
1	B	21	MET	3.5
1	B	56	VAL	3.5
1	B	45	MET	3.4
1	D	104	VAL	3.4
1	A	136	LEU	3.4
1	A	19	SER	3.3
1	C	23	ASP	3.3
1	B	163	HIS	3.2
1	A	16	PRO	3.2
1	C	127	ALA	3.0
1	D	55	ASN	2.9
1	A	14	LEU	2.9
1	B	136	LEU	2.8
1	C	133	ASP	2.8
1	A	15	VAL	2.8
1	C	132	SER	2.8
1	B	137	THR	2.8
1	A	21	MET	2.8
1	D	136	LEU	2.8
1	C	105	ASN	2.7
1	B	108	ALA	2.7
1	B	67	GLN	2.7
1	B	162	LEU	2.6
1	D	135	ARG	2.6
1	A	134	GLU	2.6
1	D	142	HIS	2.6
1	B	46	ALA	2.5
1	A	133	ASP	2.5
1	D	132	SER	2.5
1	B	134	GLU	2.5
1	B	42	ARG	2.5
1	B	142	HIS	2.5
1	B	50	GLU	2.4
1	A	165	ARG	2.4
1	C	56	VAL	2.4
1	B	55	ASN	2.3
1	A	13	GLY	2.3
1	B	120	MET	2.3
1	B	143	ASN	2.2
1	B	69	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	41	GLN	2.2
1	C	34	GLU	2.2
1	B	135	ARG	2.2
1	D	117	MET	2.2
1	C	107	LEU	2.1
1	C	162	LEU	2.1
1	A	132	SER	2.1
1	D	146	GLU	2.1
1	C	142	HIS	2.1
1	B	128	SER	2.1
1	A	135	ARG	2.1
1	C	161	ALA	2.1
1	B	48	LEU	2.1
1	B	17	ARG	2.1
1	B	65	PRO	2.1
1	C	144	MET	2.0
1	D	66	GLU	2.0
1	B	59	LEU	2.0
1	B	68	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($\text{\AA}^2$)	Q<0.9
3	SIN	A	202	8/8	0.63	0.34	82,83,84,85	0
2	ACT	A	201	4/4	0.67	0.20	29,35,38,45	0
4	ACY	D	201	4/4	0.74	0.21	53,53,55,56	0

6.5 Other polymers [i](#)

There are no such residues in this entry.