wwPDB X-ray Structure Validation Summary Report (i)

May 15, 2020 – 06:31 pm BST

PDB ID	:	6G69
Title	:	Crystal structure of a parallel seven-helix coiled coil CC-Type2-IL-Sg-L17E
Authors	:	Rhys, G.G.; Brady, R.L.; Woolfson, D.N.
Deposited on	:	2018-04-01
Resolution	:	2.20 Å(reported)

The following versions of software and data (see references (i)) were used in the production of this report:

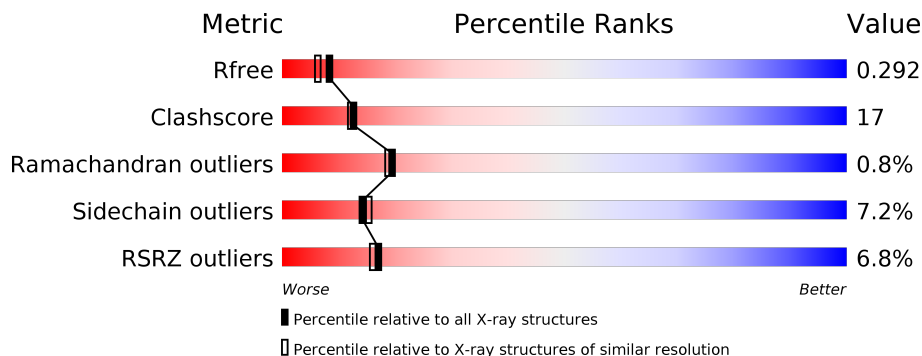|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 2.20 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	Percentile Ranks	Value
Rfree		0.292
Clashscore		17
Ramachandran outliers		0.8%
Sidechain outliers		7.2%
RSRZ outliers		6.8%

Worse ◄ ► Better

■ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R$_{free}$	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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 on 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 <=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	32	19% 56% 13% 6% 6%
1	B	32	50% 38% • • 6%
1	C	32	75% 16% • 6%
1	D	32	78% 9% 9% •
1	E	32	6% 81% 16% •
1	F	32	9% 72% 22% • •

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Mol	Chain	Length	Quality of chain
1	G	32	9% · 59% · 19% · 19% ·
1	H	32	22% · 66% · 25% · 9%
1	I	32	13% · 56% · 28% · 9% · 6%
1	J	32	72% · 19% · · 6%
1	K	32	81% · 13% · 6%
1	L	32	3% · 81% · 13% · · ·
1	M	32	9% · 75% · 16% · · 6%
1	N	32	16% · 53% · 9% · 13% · · 22%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 3512 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 CC-Type2-IL-Sg-L17E.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	A	30	Total 426	C 272	N 71	O 83	0	30	0
1	B	30	Total 242	C 156	N 40	O 46	0	2	0
1	C	30	Total 233	C 148	N 38	O 47	0	1	0
1	D	31	Total 239	C 152	N 38	O 49	0	1	0
1	E	31	Total 239	C 152	N 38	O 49	0	1	0
1	F	31	Total 236	C 150	N 38	O 48	0	1	0
1	G	31	Total 245	C 156	N 38	O 51	0	2	0
1	H	29	Total 226	C 144	N 37	O 45	0	0	0
1	I	30	Total 244	C 158	N 39	O 47	0	2	0
1	J	30	Total 233	C 148	N 38	O 47	0	1	0
1	K	30	Total 230	C 146	N 38	O 46	0	0	0
1	L	31	Total 239	C 152	N 38	O 49	0	1	0
1	M	30	Total 230	C 146	N 38	O 46	0	0	0
1	N	25	Total 195	C 125	N 32	O 38	0	0	0

- Molecule 2 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: $C_6H_{14}O_2$).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total 8	C 6	O 2	0	0
2	B	1	Total 8	C 6	O 2	0	0
2	H	1	Total 8	C 6	O 2	0	0
2	M	1	Total 8	C 6	O 2	0	0

- Molecule 3 is (4R)-2-METHYLPENTANE-2,4-DIOL (three-letter code: MRD) (formula: $C_6H_{14}O_2$).
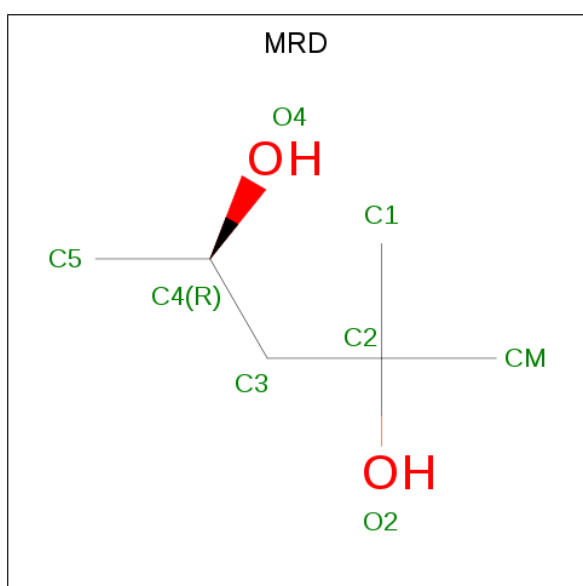
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	H	1	Total 8	C 6	O 2	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	2	Total 2	O 2	0	0
4	B	2	Total 2	O 2	0	0
4	D	1	Total 1	O 1	0	0
4	F	1	Total 1	O 1	0	0
4	G	2	Total 2	O 2	0	0
4	I	3	Total 3	O 3	0	0
4	K	1	Total 1	O 1	0	0
4	M	2	Total 2	O 2	0	0
4	N	1	Total 1	O 1	0	0

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA and DNA 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.
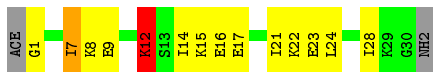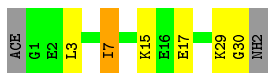
- Molecule 1: CC-Type2-IL-Sg-L17E

- Molecule 1: CC-Type2-IL-Sg-L17E

- Molecule 1: CC-Type2-IL-Sg-L17E

- Molecule 1: CC-Type2-IL-Sg-L17E

- Molecule 1: CC-Type2-IL-Sg-L17E

- Molecule 1: CC-Type2-IL-Sg-L17E

● Molecule 1: CC-Type2-IL-Sg-L17E

Chain G:

● Molecule 1: CC-Type2-IL-Sg-L17E

Chain H:

● Molecule 1: CC-Type2-IL-Sg-L17E

Chain I:

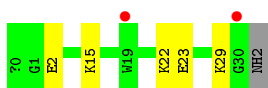● Molecule 1: CC-Type2-IL-Sg-L17E

Chain J:

● Molecule 1: CC-Type2-IL-Sg-L17E

Chain K:

● Molecule 1: CC-Type2-IL-Sg-L17E

Chain L:

● Molecule 1: CC-Type2-IL-Sg-L17E

Chain M:

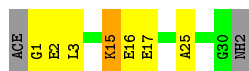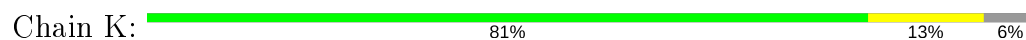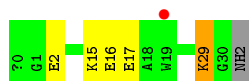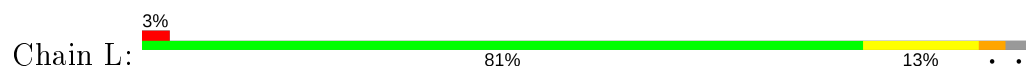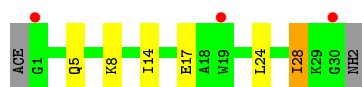● Molecule 1: CC-Type2-IL-Sg-L17E

Chain N:
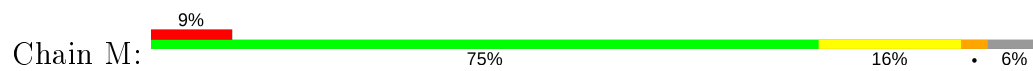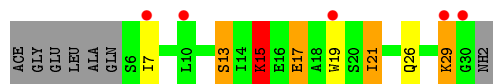
4   Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α, β, γ	66.77Å 66.77Å 243.20Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	56.26 – 2.20 56.26 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.8 (56.26-2.20) 99.8 (56.26-2.20)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.80 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.8.0189	Depositor
R, R_{free}	0.207 , 0.276 0.212 , 0.292	Depositor DCC
R_{free} test set	1105 reflections (5.38%)	wwPDB-VP
Wilson B-factor (Å^2)	53.0	Xtriage
Anisotropy	0.165	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 80.9	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.058 for -h-k,k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3512	wwPDB-VP
Average B, all atoms (Å^2)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.72% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1] Intensities estimated from amplitudes.
[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: MRD, MPD, ACE

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	2.25	8/432 (1.9%)	1.82	14/572 (2.4%)
1	B	1.19	3/249 (1.2%)	1.32	4/328 (1.2%)
1	C	1.21	0/237	1.26	3/314 (1.0%)
1	D	1.71	6/241 (2.5%)	1.00	1/320 (0.3%)
1	E	1.15	1/241 (0.4%)	0.97	0/320
1	F	1.14	0/238	0.98	0/316
1	G	1.45	5/250 (2.0%)	1.23	4/332 (1.2%)
1	H	1.11	1/227 (0.4%)	1.05	1/301 (0.3%)
1	I	1.19	2/253 (0.8%)	1.34	3/337 (0.9%)
1	J	1.20	2/237 (0.8%)	1.01	2/314 (0.6%)
1	K	1.18	2/231 (0.9%)	1.00	2/306 (0.7%)
1	L	1.27	4/241 (1.7%)	1.03	2/320 (0.6%)
1	M	1.27	1/231 (0.4%)	1.03	1/306 (0.3%)
1	N	1.13	1/196 (0.5%)	1.15	3/259 (1.2%)
All	All	1.42	36/3504 (1.0%)	1.22	40/4645 (0.9%)

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	A	0	2

The worst 5 of 36 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	24[A]	LEU	C-N	22.65	1.86	1.34
1	A	24[B]	LEU	C-N	22.65	1.86	1.34
1	D	16[A]	GLU	CD-OE1	10.97	1.37	1.25
1	D	16[B]	GLU	CD-OE1	10.97	1.37	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	19[A]	TRP	CB-CG	10.17	1.68	1.50

The worst 5 of 40 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	24[A]	LEU	O-C-N	14.20	145.42	122.70
1	A	24[B]	LEU	O-C-N	14.20	145.42	122.70
1	I	17	GLU	OE1-CD-OE2	12.68	138.51	123.30
1	C	17	GLU	OE1-CD-OE2	11.41	136.99	123.30
1	A	24[A]	LEU	CA-C-N	-11.29	92.36	117.20

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	22[A]	LYS	Mainchain
1	A	24[B]	LEU	Mainchain

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	426	0	457	60	0
1	B	242	0	272	12	0
1	C	233	0	251	9	0
1	D	239	0	253	7	0
1	E	239	0	253	4	0
1	F	236	0	252	9	1
1	G	245	0	259	15	1
1	H	226	0	240	11	0
1	I	244	0	261	18	0
1	J	233	0	251	11	0
1	K	230	0	246	1	0
1	L	239	0	253	3	0
1	M	230	0	246	3	0
1	N	195	0	210	10	0
2	A	8	0	14	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	8	0	14	0	0
2	H	8	0	14	0	0
2	M	8	0	14	0	0
3	H	8	0	14	0	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
4	D	1	0	0	0	0
4	F	1	0	0	0	0
4	G	2	0	0	0	0
4	I	3	0	0	2	0
4	K	1	0	0	0	0
4	M	2	0	0	0	0
4	N	1	0	0	0	0
All	All	3512	0	3774	121	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 17.

The worst 5 of 121 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:22[B]:LYS:C	1:A:23[B]:GLU:N	1.67	1.47
1:A:4[B]:ALA:C	1:A:5[B]:GLN:N	1.84	1.31
1:A:24[A]:LEU:C	1:A:25[A]:ALA:N	1.86	1.27
1:I:3:LEU:HD13	1:J:3:LEU:HD22	1.36	1.08
1:A:11[A]:ALA:O	1:A:15[A]:LYS:HG3	1.56	1.05

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:F:19:TRP:CH2	1:G:9[B]:GLU:OE1[2_865]	2.07	0.13

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	53/32 (166%)	51 (96%)	2 (4%)	0	100	100
1	B	30/32 (94%)	30 (100%)	0	0	100	100
1	C	29/32 (91%)	29 (100%)	0	0	100	100
1	D	30/32 (94%)	29 (97%)	1 (3%)	0	100	100
1	E	30/32 (94%)	30 (100%)	0	0	100	100
1	F	30/32 (94%)	29 (97%)	0	1 (3%)	4	2
1	G	31/32 (97%)	30 (97%)	1 (3%)	0	100	100
1	H	27/32 (84%)	27 (100%)	0	0	100	100
1	I	30/32 (94%)	30 (100%)	0	0	100	100
1	J	29/32 (91%)	28 (97%)	0	1 (3%)	3	1
1	K	28/32 (88%)	28 (100%)	0	0	100	100
1	L	30/32 (94%)	30 (100%)	0	0	100	100
1	M	28/32 (88%)	28 (100%)	0	0	100	100
1	N	23/32 (72%)	22 (96%)	0	1 (4%)	2	1
All	All	428/448 (96%)	421 (98%)	4 (1%)	3 (1%)	19	22

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	N	29	LYS
1	J	2	GLU
1	F	29	LYS

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.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	46/24 (192%)	40 (87%)	6 (13%)	4	3
1	B	26/24 (108%)	23 (88%)	3 (12%)	5	5
1	C	25/24 (104%)	23 (92%)	2 (8%)	12	12
1	D	25/24 (104%)	24 (96%)	1 (4%)	31	40
1	E	25/24 (104%)	24 (96%)	1 (4%)	31	40
1	F	25/24 (104%)	23 (92%)	2 (8%)	12	12
1	G	26/24 (108%)	23 (88%)	3 (12%)	5	5
1	H	24/24 (100%)	22 (92%)	2 (8%)	11	11
1	I	26/24 (108%)	23 (88%)	3 (12%)	5	5
1	J	25/24 (104%)	25 (100%)	0	100	100
1	K	24/24 (100%)	24 (100%)	0	100	100
1	L	25/24 (104%)	24 (96%)	1 (4%)	31	40
1	M	24/24 (100%)	22 (92%)	2 (8%)	11	11
1	N	21/24 (88%)	19 (90%)	2 (10%)	8	8
All	All	367/336 (109%)	339 (92%)	28 (8%)	14	14

5 of 28 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	29	LYS
1	G	13	SER
1	M	28	ILE
1	F	12	LYS
1	F	29	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	26	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 carbohydrates in this entry.

5.6 Ligand geometry (i)

5 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	#$|Z| > 2$
2	MPD	B	101	-	7,7,7	0.60	0	9,10,10	1.09	0
2	MPD	M	101	-	7,7,7	0.27	0	9,10,10	0.88	0
2	MPD	H	102	-	7,7,7	0.27	0	9,10,10	0.79	0
3	MRD	H	101	-	7,7,7	0.27	0	9,10,10	0.56	0
2	MPD	A	101	-	7,7,7	0.30	0	9,10,10	0.75	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
2	MPD	B	101	-	-	3/5/5/5	-
2	MPD	M	101	-	-	2/5/5/5	-
2	MPD	H	102	-	-	0/5/5/5	-
3	MRD	H	101	-	-	2/5/5/5	-
2	MPD	A	101	-	-	2/5/5/5	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	101	MPD	O2-C2-C3-C4
3	H	101	MRD	C2-C3-C4-C5
2	A	101	MPD	C2-C3-C4-C5
2	B	101	MPD	C1-C2-C3-C4
2	B	101	MPD	CM-C2-C3-C4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	101	MPD	1	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	24[A]:LEU	C	25[A]:ALA	N	1.86
1	A	4[B]:ALA	C	5[B]:GLN	N	1.84
1	A	22[B]:LYS	C	23[B]:GLU	N	1.67

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(Å²)	Q<0.9
1	A	30/32 (93%)	0.36	0	100	100	42, 56, 74, 83	6 (20%)
1	B	30/32 (93%)	0.02	0	100	100	45, 62, 98, 110	0
1	C	30/32 (93%)	-0.07	0	100	100	41, 65, 97, 107	0
1	D	30/32 (93%)	0.06	0	100	100	45, 61, 96, 109	0
1	E	30/32 (93%)	0.12	2 (6%)	17	16	42, 65, 88, 94	1 (3%)
1	F	30/32 (93%)	0.13	3 (10%)	7	6	46, 68, 91, 96	0
1	G	30/32 (93%)	0.33	3 (10%)	7	6	48, 69, 102, 110	0
1	H	29/32 (90%)	0.91	7 (24%)	0	0	59, 82, 108, 124	0
1	I	30/32 (93%)	0.81	4 (13%)	3	3	60, 84, 119, 145	0
1	J	30/32 (93%)	0.14	0	100	100	51, 71, 102, 113	0
1	K	30/32 (93%)	-0.06	0	100	100	46, 63, 89, 117	0
1	L	30/32 (93%)	0.11	1 (3%)	46	44	43, 66, 105, 117	0
1	M	30/32 (93%)	0.43	3 (10%)	7	6	52, 76, 113, 131	0
1	N	25/32 (78%)	1.08	5 (20%)	1	1	57, 88, 121, 122	0
All	All	414/448 (92%)	0.30	28 (6%)	17	16	41, 69, 109, 145	7 (1%)

The worst 5 of 28 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	N	7	ILE	11.2
1	H	3	LEU	5.5
1	I	6	SER	4.7
1	F	19	TRP	4.6
1	E	30	GLY	4.6

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 carbohydrates 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	MPD	B	101	8/8	0.84	0.21	68,78,80,94	0
3	MRD	H	101	8/8	0.90	0.26	88,96,144,146	0
2	MPD	M	101	8/8	0.91	0.21	75,80,95,100	0
2	MPD	H	102	8/8	0.92	0.24	78,108,117,120	0
2	MPD	A	101	8/8	0.94	0.22	78,85,120,121	0

6.5 Other polymers (i)

There are no such residues in this entry.