Full wwPDB X-ray Structure Validation Report ⓘ

Apr 16, 2026 – 02:09 PM JST

PDB ID : 9JVD / pdb_00009jvd
Title : Leishmania donovani TFIIS LW domain
Authors : Wang, Y.Z.; Wang, C.C.
Deposited on : 2024-10-08
Resolution : 1.90 Å(reported)

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

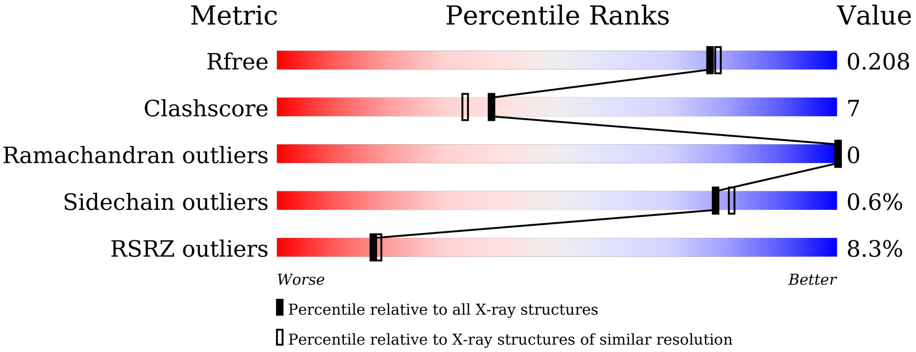
MolProbity	4-5-2 with Phenix2.0
Mogul	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	2.0
EDS	3.0
Percentile statistics	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	9.0.010 (Gargrove)
Density-Fitness	1.0.12
Ideal geometry (proteins)	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

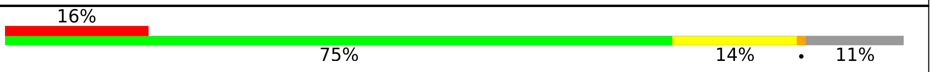
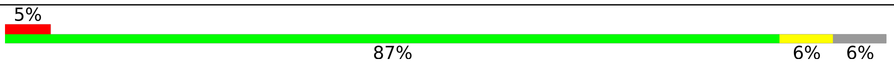
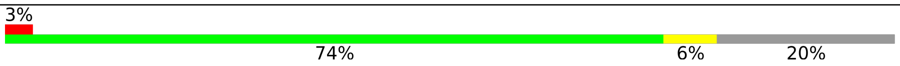
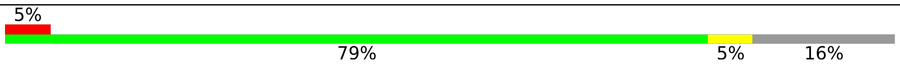
The reported resolution of this entry is 1.90 Å.

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 <=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	111	
1	B	111	
1	C	111	
1	D	111	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	MLI	A	301	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3152 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 Transcription elongation factor-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	99	Total 744	C 474	N 129	O 139	S 2	0	0	0
1	B	104	Total 794	C 504	N 140	O 147	S 3	0	0	0
1	C	89	Total 674	C 429	N 119	O 124	S 2	0	0	0
1	D	93	Total 702	C 446	N 123	O 131	S 2	0	0	0

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	154	MET	-	initiating methionine	UNP A0A3Q8IGU5
A	256	LEU	-	expression tag	UNP A0A3Q8IGU5
A	257	GLU	-	expression tag	UNP A0A3Q8IGU5
A	258	HIS	-	expression tag	UNP A0A3Q8IGU5
A	259	HIS	-	expression tag	UNP A0A3Q8IGU5
A	260	HIS	-	expression tag	UNP A0A3Q8IGU5
A	261	HIS	-	expression tag	UNP A0A3Q8IGU5
A	262	HIS	-	expression tag	UNP A0A3Q8IGU5
A	263	HIS	-	expression tag	UNP A0A3Q8IGU5
A	264	HIS	-	expression tag	UNP A0A3Q8IGU5
B	154	MET	-	initiating methionine	UNP A0A3Q8IGU5
B	256	LEU	-	expression tag	UNP A0A3Q8IGU5
B	257	GLU	-	expression tag	UNP A0A3Q8IGU5
B	258	HIS	-	expression tag	UNP A0A3Q8IGU5
B	259	HIS	-	expression tag	UNP A0A3Q8IGU5
B	260	HIS	-	expression tag	UNP A0A3Q8IGU5
B	261	HIS	-	expression tag	UNP A0A3Q8IGU5
B	262	HIS	-	expression tag	UNP A0A3Q8IGU5
B	263	HIS	-	expression tag	UNP A0A3Q8IGU5
B	264	HIS	-	expression tag	UNP A0A3Q8IGU5
C	154	MET	-	initiating methionine	UNP A0A3Q8IGU5

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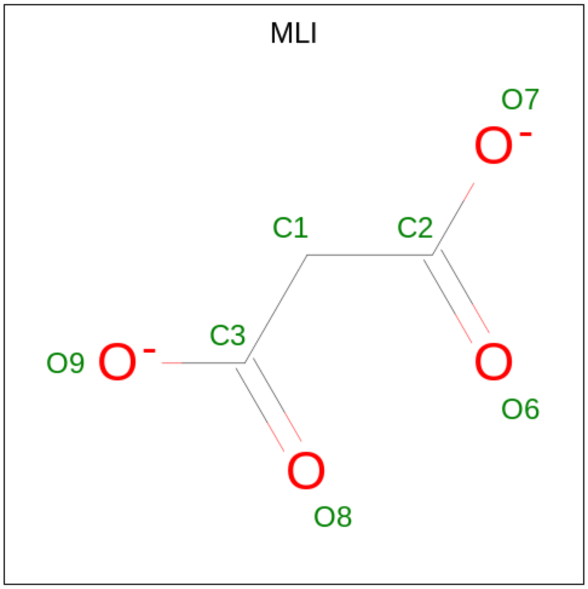
Chain	Residue	Modelled	Actual	Comment	Reference
C	256	LEU	-	expression tag	UNP A0A3Q8IGU5
C	257	GLU	-	expression tag	UNP A0A3Q8IGU5
C	258	HIS	-	expression tag	UNP A0A3Q8IGU5
C	259	HIS	-	expression tag	UNP A0A3Q8IGU5
C	260	HIS	-	expression tag	UNP A0A3Q8IGU5
C	261	HIS	-	expression tag	UNP A0A3Q8IGU5
C	262	HIS	-	expression tag	UNP A0A3Q8IGU5
C	263	HIS	-	expression tag	UNP A0A3Q8IGU5
C	264	HIS	-	expression tag	UNP A0A3Q8IGU5
D	154	MET	-	initiating methionine	UNP A0A3Q8IGU5
D	256	LEU	-	expression tag	UNP A0A3Q8IGU5
D	257	GLU	-	expression tag	UNP A0A3Q8IGU5
D	258	HIS	-	expression tag	UNP A0A3Q8IGU5
D	259	HIS	-	expression tag	UNP A0A3Q8IGU5
D	260	HIS	-	expression tag	UNP A0A3Q8IGU5
D	261	HIS	-	expression tag	UNP A0A3Q8IGU5
D	262	HIS	-	expression tag	UNP A0A3Q8IGU5
D	263	HIS	-	expression tag	UNP A0A3Q8IGU5
D	264	HIS	-	expression tag	UNP A0A3Q8IGU5

- Molecule 2 is MALONATE ION (CCD ID: MLI) (formula: $C_3H_2O_4$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 7 3 4	0	0
2	C	1	Total C O 7 3 4	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	1	Total C O 7 3 4	0	0

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	C	1	Total Na 1 1	0	0

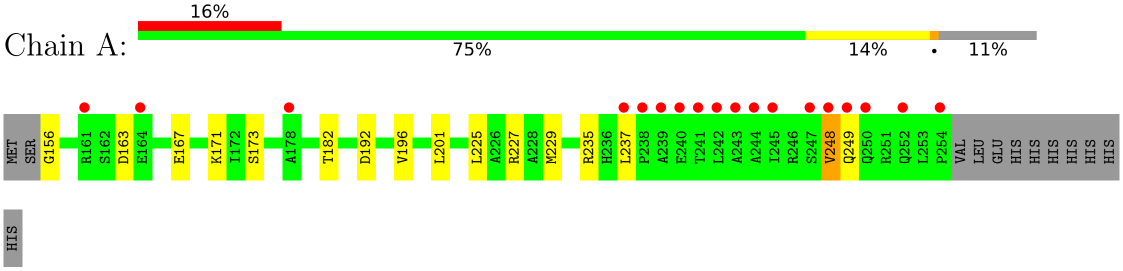
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	42	Total O 42 42	0	0
4	B	66	Total O 66 66	0	0
4	C	56	Total O 56 56	0	0
4	D	52	Total O 52 52	0	0

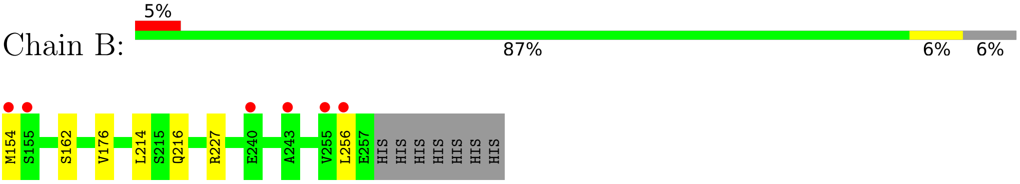
3 Residue-property plots ⓘ

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.

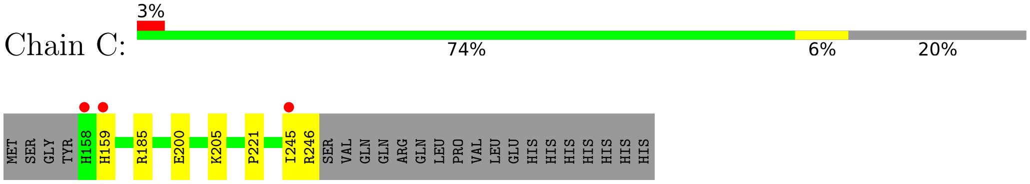
- Molecule 1: Transcription elongation factor-like protein



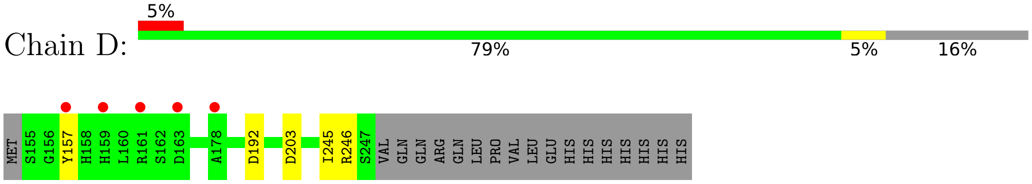
- Molecule 1: Transcription elongation factor-like protein



- Molecule 1: Transcription elongation factor-like protein



- Molecule 1: Transcription elongation factor-like protein



4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	33.97Å 53.01Å 64.43Å 66.56° 81.49° 85.62°	Depositor
Resolution (Å)	47.73 – 1.90 47.73 – 1.90	Depositor EDS
% Data completeness (in resolution range)	95.6 (47.73-1.90) 95.6 (47.73-1.90)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.57 (at 1.90Å)	Xtriage
Refinement program	PHENIX 2.0_5936	Depositor
R, R_{free}	0.184 , 0.208 0.184 , 0.208	Depositor DCC
R_{free} test set	1576 reflections (4.52%)	wwPDB-VP
Wilson B-factor (Å^2)	28.0	Xtriage
Anisotropy	0.241	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.40 , 46.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	3152	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 8.18% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MLI, NA

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	0.31	0/759	0.53	0/1037
1	B	0.30	0/809	0.49	0/1102
1	C	0.33	0/687	0.52	0/937
1	D	0.30	0/716	0.49	0/976
All	All	0.31	0/2971	0.51	0/4052

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 ⓘ

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	744	0	749	18	0
1	B	794	0	811	10	0
1	C	674	0	690	13	0
1	D	702	0	712	5	0
2	A	7	0	2	2	0
2	C	7	0	2	0	0
2	D	7	0	2	1	0
3	C	1	0	0	0	0
4	A	42	0	0	13	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	66	0	0	3	1
4	C	56	0	0	4	1
4	D	52	0	0	5	4
All	All	3152	0	2968	41	5

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 7.

All (41) 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:235:ARG:O	4:A:401:HOH:O	1.84	0.94
1:A:156:GLY:O	4:A:402:HOH:O	1.86	0.93
1:D:192:ASP:OD2	4:D:401:HOH:O	1.88	0.91
1:C:185:ARG:NH1	4:C:401:HOH:O	2.06	0.75
1:A:248:VAL:HG12	4:A:409:HOH:O	1.89	0.72
1:C:246:ARG:HG2	4:C:442:HOH:O	1.90	0.72
1:D:203:ASP:OD1	4:D:402:HOH:O	2.09	0.70
1:B:154:MET:HG3	1:C:221:PRO:HB3	1.74	0.69
1:D:157:TYR:OH	4:D:403:HOH:O	2.09	0.68
1:A:173:SER:O	4:A:405:HOH:O	2.12	0.66
1:A:248:VAL:C	4:A:404:HOH:O	2.39	0.65
1:A:249:GLN:N	4:A:404:HOH:O	2.32	0.63
1:A:192:ASP:OD1	4:A:406:HOH:O	2.16	0.60
1:C:159:HIS:N	4:C:402:HOH:O	2.35	0.60
2:D:301:MLI:H12	4:D:443:HOH:O	2.04	0.58
1:A:237:LEU:O	4:A:401:HOH:O	2.17	0.56
1:B:227:ARG:NH2	4:B:302:HOH:O	2.24	0.56
1:C:246:ARG:HE	1:D:246:ARG:HH21	1.52	0.56
2:A:301:MLI:O8	4:A:407:HOH:O	2.19	0.54
1:B:154:MET:N	1:C:185:ARG:HE	2.05	0.54
1:A:227:ARG:NH2	4:A:403:HOH:O	2.02	0.53
1:B:227:ARG:NE	4:B:302:HOH:O	2.32	0.53
1:B:154:MET:N	1:C:185:ARG:HH21	2.07	0.52
1:A:248:VAL:HB	4:A:404:HOH:O	2.10	0.51
1:A:248:VAL:HG12	1:A:249:GLN:H	1.77	0.49
1:A:248:VAL:O	2:A:301:MLI:H12	2.13	0.49
1:C:159:HIS:NE2	1:C:200:GLU:OE2	2.45	0.49
1:B:154:MET:HB2	1:C:185:ARG:HH21	1.80	0.47
1:C:159:HIS:HE2	1:C:200:GLU:CD	2.22	0.47
1:B:214:LEU:O	4:B:301:HOH:O	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:THR:OG1	4:A:408:HOH:O	2.19	0.44
1:B:176:VAL:HG13	1:B:216:GLN:HG3	2.01	0.43
1:A:163:ASP:O	1:A:167:GLU:HG3	2.18	0.42
1:A:171:LYS:HB2	1:A:171:LYS:HE3	1.73	0.42
1:B:162:SER:HB2	4:C:424:HOH:O	2.18	0.42
1:C:205:LYS:HE3	4:D:429:HOH:O	2.20	0.42
1:B:154:MET:CG	1:C:221:PRO:HB3	2.48	0.41
1:C:245:ILE:HG21	1:D:245:ILE:HG21	2.02	0.41
1:A:196:VAL:HG12	1:A:201:LEU:HG	2.02	0.41
1:A:225:LEU:HD11	1:A:229:MET:HE3	2.02	0.41
1:A:249:GLN:N	4:A:409:HOH:O	2.38	0.41

All (5) 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)
4:A:441:HOH:O	4:C:442:HOH:O[1_546]	1.78	0.42
4:D:450:HOH:O	4:D:452:HOH:O[1_655]	1.93	0.27
4:B:316:HOH:O	4:D:438:HOH:O[1_545]	1.96	0.24
4:D:432:HOH:O	4:D:446:HOH:O[1_655]	1.99	0.21
4:D:431:HOH:O	4:D:446:HOH:O[1_655]	2.11	0.09

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	97/111 (87%)	95 (98%)	2 (2%)	0	100	100
1	B	102/111 (92%)	102 (100%)	0	0	100	100
1	C	87/111 (78%)	87 (100%)	0	0	100	100
1	D	91/111 (82%)	90 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	377/444 (85%)	374 (99%)	3 (1%)	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	A	78/92 (85%)	77 (99%)	1 (1%)	61	61
1	B	85/92 (92%)	84 (99%)	1 (1%)	63	63
1	C	71/92 (77%)	71 (100%)	0	100	100
1	D	74/92 (80%)	74 (100%)	0	100	100
All	All	308/368 (84%)	306 (99%)	2 (1%)	78	81

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	248	VAL
1	B	256	LEU

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 4 ligands modelled in this entry, 1 is monoatomic - leaving 3 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	$\#\|Z\| > 2$
2	MLI	A	301	-	6,6,6	1.73	1 (16%)	7,7,7	1.62	1 (14%)
2	MLI	D	301	-	6,6,6	1.83	1 (16%)	7,7,7	0.74	0
2	MLI	C	301	3	6,6,6	1.65	1 (16%)	7,7,7	1.10	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	MLI	A	301	-	-	0/4/4/4	-
2	MLI	D	301	-	-	2/4/4/4	-
2	MLI	C	301	3	-	2/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	MLI	C1-C3	2.82	1.55	1.51
2	D	301	MLI	C1-C3	2.51	1.54	1.51
2	C	301	MLI	C1-C3	2.39	1.54	1.51

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	301	MLI	O6-C2-C1	-2.56	114.59	122.08

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	301	MLI	C3-C1-C2-O6
2	C	301	MLI	C3-C1-C2-O7
2	D	301	MLI	C3-C1-C2-O6
2	D	301	MLI	C3-C1-C2-O7

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	MLI	2	0
2	D	301	MLI	1	0

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	A	99/111 (89%)	1.00	18 (18%)	3	3	21, 32, 59, 74	0
1	B	104/111 (93%)	0.30	6 (5%)	29	30	19, 28, 45, 61	0
1	C	89/111 (80%)	0.03	3 (3%)	48	51	18, 24, 37, 52	0
1	D	93/111 (83%)	0.45	5 (5%)	31	33	21, 29, 43, 57	0
All	All	385/444 (86%)	0.45	32 (8%)	17	18	18, 29, 50, 74	0

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	248	VAL	8.4
1	A	239	ALA	6.3
1	A	238	PRO	5.1
1	B	256	LEU	5.0
1	A	252	GLN	4.8
1	A	237	LEU	4.0
1	A	254	PRO	3.7
1	A	242	LEU	3.5
1	B	154	MET	3.4
1	D	157	TYR	3.4
1	A	245	ILE	3.4
1	A	244	ALA	3.0
1	D	161	ARG	3.0
1	A	243	ALA	3.0
1	A	247	SER	2.9
1	D	159	HIS	2.8
1	A	250	GLN	2.7
1	C	245	ILE	2.7
1	A	241	THR	2.6
1	B	255	VAL	2.6
1	A	240	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	158	HIS	2.4
1	D	163	ASP	2.3
1	A	249	GLN	2.3
1	C	159	HIS	2.3
1	B	155	SER	2.2
1	A	178	ALA	2.1
1	B	243	ALA	2.1
1	A	164	GLU	2.1
1	D	178	ALA	2.1
1	A	161	ARG	2.0
1	B	240	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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, 95^{th} 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	MLI	D	301	7/7	0.78	0.15	32,36,44,47	0
2	MLI	A	301	7/7	0.82	0.12	45,49,56,56	0
2	MLI	C	301	7/7	0.88	0.13	39,42,45,51	0
3	NA	C	302	1/1	0.97	0.07	37,37,37,37	0

6.5 Other polymers ⓘ

There are no such residues in this entry.