



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 03:57 pm BST

PDB ID : 2RJE
Title : Crystal structure of L3MBTL1 in complex with H4K20Me2 (residues 17-25), orthorhombic form II
Authors : Allali-Hassani, A.; Liu, Y.; Herzanych, N.; Ouyang, H.; Mackenzie, F.; Crombet, L.; Loppnau, P.; Kozieradzki, I.; Vedadi, M.; Weigelt, J.; Sundstrom, M.; Arrowsmith, C.H.; Edwards, A.M.; Bochkarev, A.; Min, J.R.; Structural Genomics Consortium (SGC)
Deposited on : 2007-10-14
Resolution : 1.86 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 following versions of software and data (see [references ⓘ](#)) 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

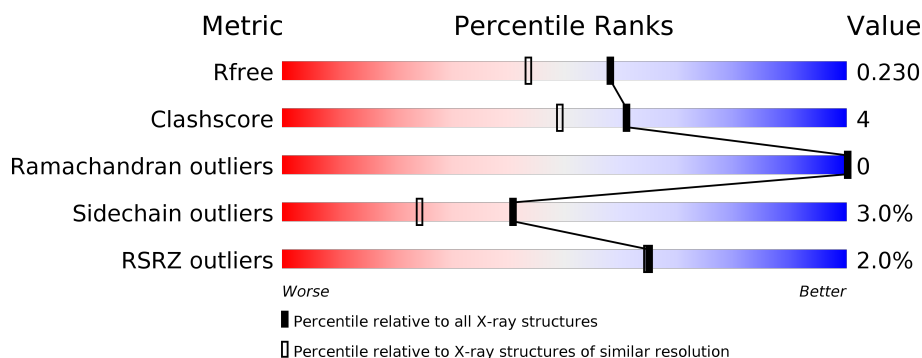
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.86 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}	130704	2469 (1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592 (1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

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 $\leq 5\%$. 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	331	
1	B	331	
1	C	331	
2	P	11	
2	Q	11	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8709 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 Lethal(3)malignant brain tumor-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	309	Total	C	N	O	S	0	0	0
			2509	1617	427	453	12			
1	B	313	Total	C	N	O	S	0	0	0
			2545	1638	432	463	12			
1	C	312	Total	C	N	O	S	0	1	0
			2543	1637	437	457	12			

- Molecule 2 is a protein called Histone H4.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	P	9	Total	C	N	O	0	0	0
			86	53	22	11			
2	Q	8	Total	C	N	O	0	0	0
			74	45	18	11			

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		
3	C	1	Total	Cl	0	0
			1	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	289	Total	O	0	0
			289	289		
4	B	313	Total	O	0	0
			313	313		
4	C	334	Total	O	0	0
			334	334		

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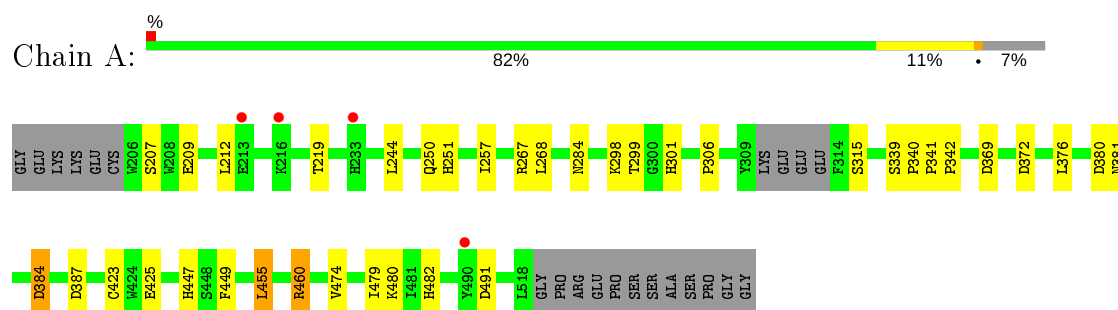
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	P	7	Total	O	0	0
			7	7		
4	Q	7	Total	O	0	0
			7	7		

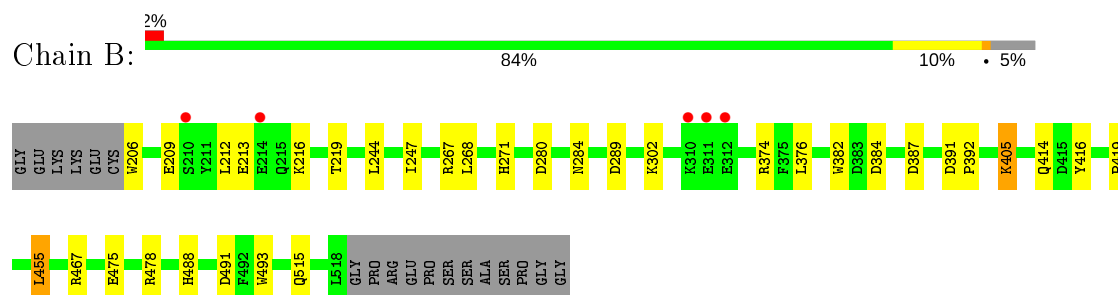
3 Residue-property plots [i](#)

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.

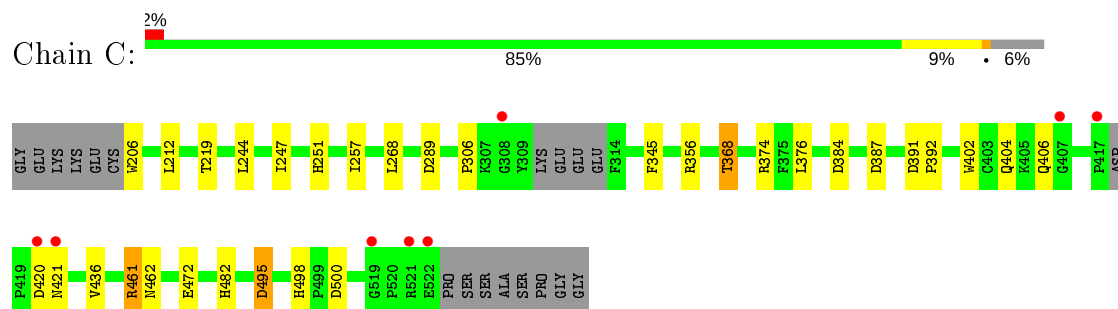
- Molecule 1: Lethal(3)malignant brain tumor-like protein



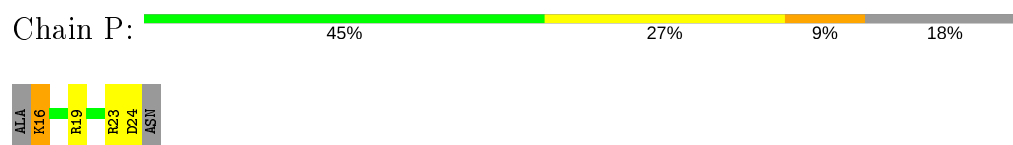
- Molecule 1: Lethal(3)malignant brain tumor-like protein



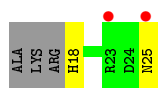
- Molecule 1: Lethal(3)malignant brain tumor-like protein



- Molecule 2: Histone H4



● Molecule 2: Histone H4



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	109.89Å 124.64Å 90.03Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.48 – 1.86 37.47 – 1.86	Depositor EDS
% Data completeness (in resolution range)	99.0 (37.48-1.86) 98.9 (37.47-1.86)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.36 (at 1.85Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.191 , 0.231 0.189 , 0.230	Depositor DCC
R_{free} test set	5159 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	26.0	Xtriage
Anisotropy	0.037	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 45.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8709	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.09% 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: MLY, CL

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	0.81	2/2607 (0.1%)	0.71	3/3564 (0.1%)
1	B	0.82	0/2644	0.72	2/3614 (0.1%)
1	C	0.79	0/2641	0.71	1/3606 (0.0%)
2	P	0.62	0/75	0.91	0/97
2	Q	0.59	0/63	0.68	0/83
All	All	0.81	2/8030 (0.0%)	0.72	6/10964 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	423	CYS	CB-SG	-6.96	1.70	1.82
1	A	425	GLU	CG-CD	5.32	1.59	1.51

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	460	ARG	NE-CZ-NH1	6.33	123.46	120.30
1	B	455	LEU	CB-CG-CD1	6.33	121.76	111.00
1	B	455	LEU	CA-CB-CG	6.27	129.73	115.30
1	A	455	LEU	CA-CB-CG	5.76	128.55	115.30
1	C	495	ASP	CB-CG-OD1	5.62	123.36	118.30
1	A	455	LEU	CB-CG-CD1	5.35	120.10	111.00

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	2509	0	2348	26	0
1	B	2545	0	2380	17	0
1	C	2543	0	2385	22	0
2	P	86	0	97	2	0
2	Q	74	0	77	1	0
3	A	1	0	0	0	0
3	C	1	0	0	1	0
4	A	289	0	0	3	0
4	B	313	0	0	3	0
4	C	334	0	0	7	0
4	P	7	0	0	0	0
4	Q	7	0	0	0	0
All	All	8709	0	7287	67	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 (67) 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:449:PHE:HB2	1:A:479:ILE:HD11	1.54	0.90
1:C:498:HIS:HD2	1:C:500:ASP:H	1.18	0.88
1:C:368:THR:HG21	4:C:924:HOH:O	1.78	0.84
1:A:301:HIS:HE1	1:A:369:ASP:OD1	1.66	0.79
3:C:602:CL:CL	4:C:1217:HOH:O	2.42	0.73
1:B:405:LYS:HE2	4:B:678:HOH:O	1.89	0.72
1:C:472:GLU:HG2	1:C:482:HIS:HB2	1.71	0.71
1:C:498:HIS:CD2	1:C:500:ASP:H	2.07	0.66
1:A:299:THR:OG1	1:A:301:HIS:HD2	1.77	0.66
1:C:257:ILE:HD12	1:C:306:PRO:HD3	1.78	0.65
1:C:257:ILE:CD1	1:C:306:PRO:HD3	2.27	0.64
1:C:356:ARG:NH1	1:C:495:ASP:OD2	2.33	0.62
1:A:480:LYS:HE3	4:A:877:HOH:O	2.00	0.60
1:C:472:GLU:CG	1:C:482:HIS:HB2	2.30	0.60
1:A:376:LEU:HD11	1:A:387:ASP:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:HIS:CE1	1:A:369:ASP:OD1	2.54	0.59
1:A:449:PHE:CB	1:A:479:ILE:HD11	2.32	0.58
1:A:209:GLU:H	1:A:209:GLU:CD	2.07	0.58
1:B:475:GLU:OE1	1:B:478:ARG:HD3	2.03	0.58
1:A:250:GLN:HA	2:P:16:LYS:HE3	1.85	0.57
1:B:289:ASP:OD1	1:B:374:ARG:NH2	2.38	0.56
1:A:482:HIS:HD2	1:A:491:ASP:OD1	1.88	0.56
1:A:251:HIS:HD2	1:A:384:ASP:OD1	1.91	0.54
1:C:247:ILE:HG12	1:C:289:ASP:HB3	1.91	0.52
1:B:212:LEU:HD11	1:B:219:THR:HG23	1.90	0.52
1:B:206:TRP:N	4:B:769:HOH:O	2.43	0.52
1:C:368:THR:HG23	4:C:1008:HOH:O	2.09	0.52
1:B:271:HIS:HD2	1:B:280:ASP:OD1	1.91	0.52
1:A:474:VAL:HG12	1:A:479:ILE:HD13	1.93	0.49
1:B:382:TRP:CE2	1:B:414:GLN:HB2	2.48	0.48
1:A:267:ARG:HG2	1:A:284:ASN:HD22	1.78	0.48
1:B:391:ASP:HB2	1:B:392:PRO:CD	2.44	0.47
2:P:24:ASP:O	2:Q:18:HIS:HE1	1.97	0.47
1:C:251:HIS:HD2	1:C:384:ASP:OD1	1.97	0.47
1:C:376:LEU:HD11	1:C:387:ASP:HB3	1.97	0.47
1:C:462:ASN:OD1	4:C:1078:HOH:O	2.20	0.47
1:B:302:LYS:HE2	4:C:1098:HOH:O	2.14	0.46
1:B:405:LYS:HD3	4:B:832:HOH:O	2.15	0.46
1:A:341:PRO:HA	1:A:372:ASP:O	2.16	0.46
1:A:449:PHE:HB2	1:A:479:ILE:CD1	2.37	0.46
1:B:416:TYR:O	1:B:419:PRO:HD3	2.16	0.46
1:C:212:LEU:HD11	1:C:219:THR:HG23	1.97	0.46
1:B:247:ILE:HG12	1:B:289:ASP:HB3	1.98	0.45
1:B:488:HIS:HD2	1:B:491:ASP:OD2	1.98	0.45
1:C:472:GLU:HG2	1:C:482:HIS:CB	2.44	0.45
1:C:289:ASP:OD1	1:C:374:ARG:NH2	2.44	0.45
1:A:207:SER:HB2	1:A:209:GLU:OE2	2.16	0.44
1:A:482:HIS:CD2	1:A:491:ASP:OD1	2.70	0.44
1:A:212:LEU:HD11	1:A:219:THR:HG23	1.99	0.43
1:A:380:ASP:O	1:A:381:ASN:HB2	2.18	0.43
1:A:341:PRO:HB2	1:A:342:PRO:HD2	1.99	0.43
1:A:339:SER:HB2	1:A:340:PRO:HD2	2.00	0.43
1:C:461:ARG:NH2	4:C:994:HOH:O	2.52	0.42
1:C:206:TRP:N	4:C:1209:HOH:O	2.53	0.42
1:C:402:TRP:O	1:C:406:GLN:HG2	2.19	0.42
1:B:467:ARG:HG2	1:B:515:GLN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:475:GLU:HG3	1:B:493:TRP:CZ3	2.55	0.42
1:B:267:ARG:HG2	1:B:284:ASN:HD22	1.85	0.41
1:C:345:PHE:CE1	1:C:436:VAL:HG11	2.56	0.41
1:C:368:THR:CG2	1:C:376:LEU:HD23	2.51	0.41
1:A:257:ILE:HD12	1:A:306:PRO:HD3	2.01	0.41
1:A:449:PHE:CB	1:A:479:ILE:CD1	2.98	0.41
1:A:298:LYS:HE3	4:A:765:HOH:O	2.20	0.40
1:A:447:HIS:CE1	1:A:479:ILE:HD11	2.56	0.40
1:B:376:LEU:HD11	1:B:387:ASP:HB3	2.04	0.40
1:C:391:ASP:HB2	1:C:392:PRO:CD	2.51	0.40
1:A:482:HIS:HE1	4:A:831:HOH:O	2.05	0.40

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	305/331 (92%)	301 (99%)	4 (1%)	0	100	100
1	B	311/331 (94%)	305 (98%)	6 (2%)	0	100	100
1	C	307/331 (93%)	302 (98%)	5 (2%)	0	100	100
2	P	6/11 (54%)	6 (100%)	0	0	100	100
2	Q	5/11 (46%)	5 (100%)	0	0	100	100
All	All	934/1015 (92%)	919 (98%)	15 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	273/290 (94%)	267 (98%)	6 (2%)	52	36
1	B	277/290 (96%)	269 (97%)	8 (3%)	42	26
1	C	276/290 (95%)	269 (98%)	7 (2%)	47	31
2	P	8/9 (89%)	5 (62%)	3 (38%)	0	0
2	Q	7/9 (78%)	6 (86%)	1 (14%)	3	0
All	All	841/888 (95%)	816 (97%)	25 (3%)	41	24

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	244	LEU
1	A	268	LEU
1	A	315	SER
1	A	384	ASP
1	A	455	LEU
1	A	460	ARG
1	B	209	GLU
1	B	213	GLU
1	B	216	LYS
1	B	244	LEU
1	B	268	LEU
1	B	384	ASP
1	B	405	LYS
1	B	455	LEU
1	C	244	LEU
1	C	268	LEU
1	C	368	THR
1	C	404	GLN
1	C	420	ASP
1	C	421	ASN
1	C	461	ARG
2	P	16	LYS
2	P	19	ARG
2	P	23	ARG
2	Q	25	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	215	GLN
1	A	251	HIS
1	A	284	ASN
1	A	301	HIS
1	A	326	GLN
1	A	406	GLN
1	A	421	ASN
1	A	482	HIS
1	B	271	HIS
1	B	284	ASN
1	B	488	HIS
1	C	251	HIS
1	C	331	HIS
1	C	358	ASN
1	C	421	ASN
1	C	498	HIS
2	Q	18	HIS
2	Q	25	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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	MLY	P	20	2	9,10,11	0.79	0	6,11,13	0.97	1 (16%)
2	MLY	Q	20	2	9,10,11	0.65	0	6,11,13	0.66	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	MLY	P	20	2	-	0/8/9/11	-
2	MLY	Q	20	2	-	0/8/9/11	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	P	20	MLY	CD-CE-NZ	-2.05	108.24	113.79

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 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 [i](#)

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	309/331 (93%)	-0.06	4 (1%) 77 78	14, 24, 41, 52	0
1	B	313/331 (94%)	-0.08	5 (1%) 72 72	14, 23, 40, 50	0
1	C	312/331 (94%)	-0.04	8 (2%) 56 54	15, 24, 39, 56	0
2	P	8/11 (72%)	0.30	0 100 100	30, 35, 41, 42	0
2	Q	7/11 (63%)	0.88	2 (28%) 0 0	30, 33, 44, 46	0
All	All	949/1015 (93%)	-0.05	19 (2%) 65 64	14, 24, 42, 56	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	310	LYS	5.0
1	C	420	ASP	4.1
1	C	521	ARG	4.0
1	B	312	GLU	3.8
1	A	233	HIS	3.3
1	C	407	GLY	3.3
1	C	421	ASN	3.2
2	Q	25	ASN	3.0
1	C	519	GLY	3.0
1	A	216	LYS	2.7
1	C	417	PRO	2.6
1	C	522	GLU	2.5
1	B	214	GLU	2.4
1	B	210	SER	2.4
1	A	213	GLU	2.4
1	A	490	TYR	2.3
1	C	308	GLY	2.3
1	B	311	GLU	2.2
2	Q	23	ARG	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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(\AA^2)	Q<0.9
2	MLY	Q	20	11/12	0.96	0.08	19,22,27,28	0
2	MLY	P	20	11/12	0.97	0.08	19,23,29,29	0

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(\AA^2)	Q<0.9
3	CL	A	601	1/1	0.95	0.10	48,48,48,48	0
3	CL	C	602	1/1	0.98	0.13	40,40,40,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.