



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 4, 2019 – 09:47 AM EDT

PDB ID : 6J2P
Title : Crystal structure of *Saccharomyces cerevisiae* Spp1 in complex with H3K4me3
Authors : He, C.; Li, F.
Deposited on : 2019-01-02
Resolution : 2.85 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:

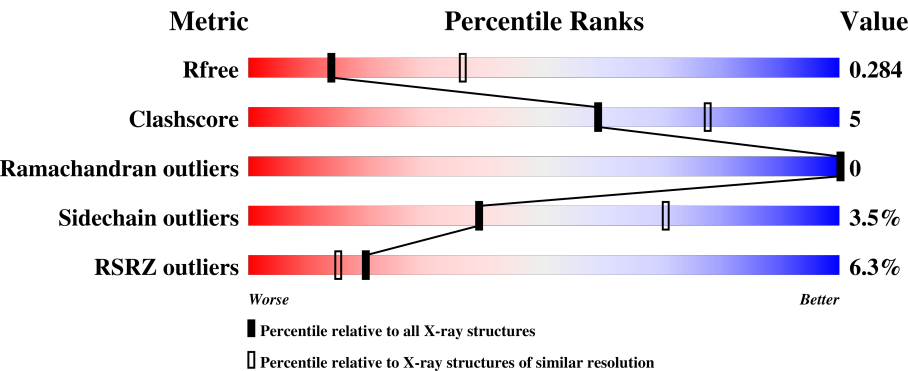
MolProbity : 4.02b-467
Mogul : 1.8.0 (224370), CSD as540be (2019)
Xtriage (Phenix) : 1.13
EDS : 2.4
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.4

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 2.85 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}	111664	2715 (2.90-2.82)
Clashscore	122126	2976 (2.90-2.82)
Ramachandran outliers	120053	2913 (2.90-2.82)
Sidechain outliers	120020	2916 (2.90-2.82)
RSRZ outliers	108989	2654 (2.90-2.82)

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. 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	123	
1	B	123	
1	C	123	
1	D	123	
2	E	7	

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Mol	Chain	Length	Quality of chain
2	F	7	<div> <div>14%</div> <div>86%</div> <div>14%</div> </div>
2	G	7	<div> <div>14%</div> <div>86%</div> <div>14%</div> </div>
2	H	7	<div> <div>43%</div> <div>71%</div> <div>14%</div> <div>14%</div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3183 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 COMPASS component SPP1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	98	Total	C	N	O	S	0	0	0
			790	501	131	146	12			
1	B	93	Total	C	N	O	S	0	0	0
			744	473	121	138	12			
1	C	90	Total	C	N	O	S	0	0	0
			714	453	116	133	12			
1	D	92	Total	C	N	O	S	0	0	0
			714	455	112	135	12			

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	SER	-	expression tag	UNP Q03012
A	-1	HIS	-	expression tag	UNP Q03012
A	0	ASN	-	expression tag	UNP Q03012
A	?	-	ASP	deletion	UNP Q03012
A	?	-	ALA	deletion	UNP Q03012
A	?	-	ILE	deletion	UNP Q03012
A	?	-	ILE	deletion	UNP Q03012
B	-2	SER	-	expression tag	UNP Q03012
B	-1	HIS	-	expression tag	UNP Q03012
B	0	ASN	-	expression tag	UNP Q03012
B	?	-	ASP	deletion	UNP Q03012
B	?	-	ALA	deletion	UNP Q03012
B	?	-	ILE	deletion	UNP Q03012
B	?	-	ILE	deletion	UNP Q03012
C	-2	SER	-	expression tag	UNP Q03012
C	-1	HIS	-	expression tag	UNP Q03012
C	0	ASN	-	expression tag	UNP Q03012
C	?	-	ASP	deletion	UNP Q03012
C	?	-	ALA	deletion	UNP Q03012
C	?	-	ILE	deletion	UNP Q03012
C	?	-	ILE	deletion	UNP Q03012

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-2	SER	-	expression tag	UNP Q03012
D	-1	HIS	-	expression tag	UNP Q03012
D	0	ASN	-	expression tag	UNP Q03012
D	?	-	ASP	deletion	UNP Q03012
D	?	-	ALA	deletion	UNP Q03012
D	?	-	ILE	deletion	UNP Q03012
D	?	-	ILE	deletion	UNP Q03012

- Molecule 2 is a protein called Histone H3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	E	7	Total	C	N	O	0	0	0
			56	34	12	10			
2	F	6	Total	C	N	O	0	0	0
			51	31	11	9			
2	G	6	Total	C	N	O	0	0	0
			51	31	11	9			
2	H	6	Total	C	N	O	0	0	0
			51	31	11	9			

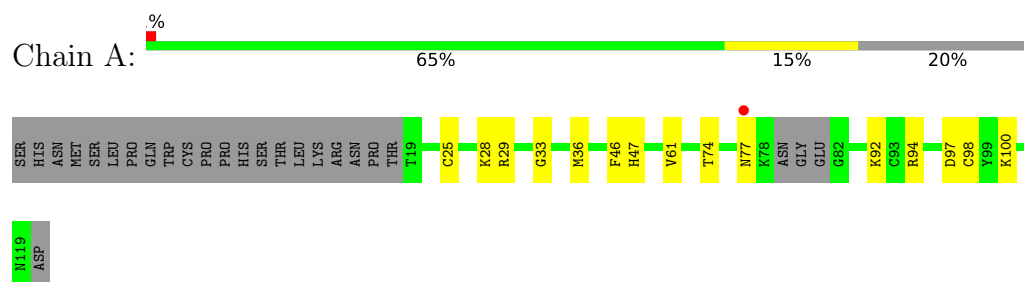
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	3	Total	Zn	0	0
			3	3		
3	A	3	Total	Zn	0	0
			3	3		
3	D	3	Total	Zn	0	0
			3	3		
3	C	3	Total	Zn	0	0
			3	3		

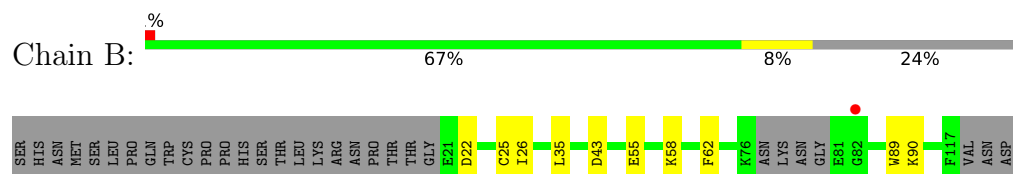
3 Residue-property plots [i](#)

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.

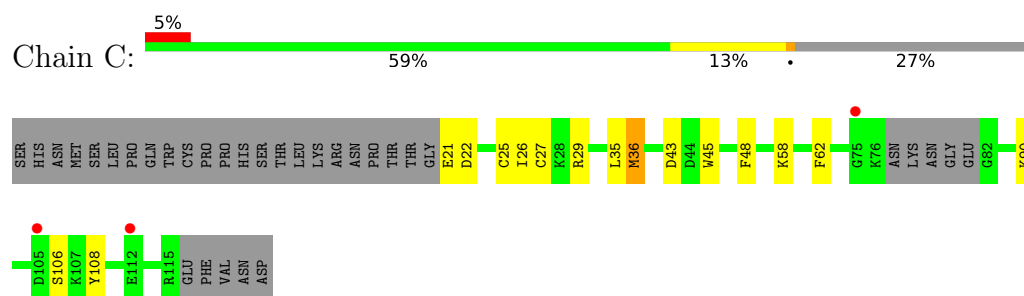
- Molecule 1: COMPASS component SPP1



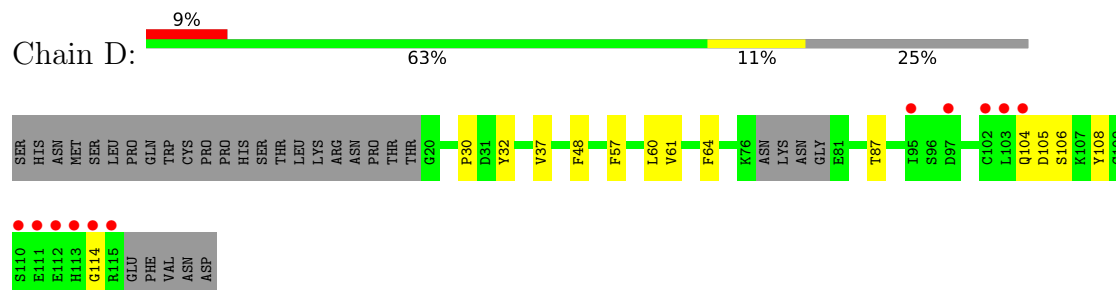
- Molecule 1: COMPASS component SPP1



- Molecule 1: COMPASS component SPP1



- Molecule 1: COMPASS component SPP1




● Molecule 2: Histone H3

Chain E:  14% 57% 43%




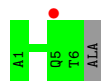
● Molecule 2: Histone H3

Chain F:  14% 86% 14%




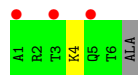
● Molecule 2: Histone H3

Chain G:  14% 86% 14%



● Molecule 2: Histone H3

Chain H:  43% 71% 14% 14%



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	81.81Å 106.17Å 139.83Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.28 – 2.85 42.28 – 2.85	Depositor EDS
% Data completeness (in resolution range)	99.6 (42.28-2.85) 99.6 (42.28-2.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.12	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.97 (at 2.86Å)	Xtriage
Refinement program	PHENIX 1.11.1 _2575	Depositor
R, R_{free}	0.234 , 0.288 0.234 , 0.284	Depositor DCC
R_{free} test set	727 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	65.0	Xtriage
Anisotropy	0.645	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	3183	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.41% 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: ZN, M3L

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	0.27	0/812	0.44	0/1093
1	B	0.25	0/765	0.40	0/1030
1	C	0.25	0/735	0.41	0/992
1	D	0.24	0/735	0.39	0/994
2	E	0.21	0/43	0.49	0/57
2	F	0.23	0/38	0.48	0/50
2	G	0.24	0/38	0.52	0/50
2	H	0.24	0/38	0.62	0/50
All	All	0.25	0/3204	0.42	0/4316

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	790	0	726	11	0
1	B	744	0	677	5	0
1	C	714	0	636	9	0
1	D	714	0	628	7	0
2	E	56	0	65	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	51	0	60	0	0
2	G	51	0	60	0	0
2	H	51	0	60	1	0
3	A	3	0	0	0	0
3	B	3	0	0	0	0
3	C	3	0	0	0	0
3	D	3	0	0	0	0
All	All	3183	0	2912	31	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 5.

All (31) 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:27:CYS:SG	1:C:29:ARG:HG2	2.34	0.68
1:D:64:PHE:HA	1:D:87:THR:HG23	1.83	0.60
1:C:62:PHE:HD1	1:C:90:LYS:HE2	1.69	0.57
1:D:57:PHE:HA	1:D:60:LEU:HD23	1.85	0.56
1:A:61:VAL:O	2:E:1:ALA:N	2.36	0.54
1:A:94:ARG:HG3	1:A:107:LYS:HB2	1.92	0.52
1:C:35:LEU:HD21	1:C:58:LYS:HB3	1.92	0.52
1:B:35:LEU:HD21	1:B:58:LYS:HG2	1.94	0.50
1:B:25:CYS:SG	1:B:26:ILE:N	2.85	0.49
1:D:30:PRO:HG2	1:D:32:TYR:CZ	2.49	0.47
1:A:36:MET:HG2	1:A:47:HIS:HA	1.95	0.47
1:A:25:CYS:HA	1:A:46:PHE:CD1	2.50	0.47
1:A:92:LYS:HE2	1:A:98:CYS:O	2.15	0.46
1:B:62:PHE:HA	1:B:90:LYS:HE3	1.96	0.46
1:D:61:VAL:HG11	1:D:64:PHE:HB2	1.98	0.46
1:B:55:GLU:O	1:B:58:LYS:HG3	2.14	0.46
1:A:28:LYS:HB3	1:A:28:LYS:HE3	1.72	0.45
1:C:45:TRP:CZ3	2:H:4:M3L:HB2	2.52	0.45
1:C:25:CYS:HB3	1:C:27:CYS:SG	2.56	0.44
1:C:21:GLU:HG2	1:C:22:ASP:N	2.32	0.44
1:A:29:ARG:HG2	1:B:89:TRP:CZ2	2.53	0.44
1:A:33:GLY:HA2	2:E:6:THR:OG1	2.18	0.44
1:A:36:MET:HE3	2:E:4:M3L:HD3	2.01	0.43
1:A:104:GLN:O	1:A:106:SER:N	2.45	0.43
1:D:108:TYR:CD1	1:D:114:GLY:HA2	2.54	0.42
1:C:36:MET:HE3	1:C:45:TRP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:THR:OG1	1:A:74:THR:O	2.35	0.41
1:C:25:CYS:SG	1:C:26:ILE:N	2.93	0.41
1:D:37:VAL:HB	1:D:48:PHE:CE1	2.56	0.41
1:D:104:GLN:H	1:D:104:GLN:HG2	1.71	0.41
1:C:35:LEU:HG	1:C:48:PHE:CD2	2.56	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	94/123 (76%)	86 (92%)	8 (8%)	0	100	100
1	B	89/123 (72%)	81 (91%)	8 (9%)	0	100	100
1	C	86/123 (70%)	77 (90%)	9 (10%)	0	100	100
1	D	88/123 (72%)	84 (96%)	4 (4%)	0	100	100
2	E	4/7 (57%)	4 (100%)	0	0	100	100
2	F	3/7 (43%)	2 (67%)	1 (33%)	0	100	100
2	G	3/7 (43%)	3 (100%)	0	0	100	100
2	H	3/7 (43%)	1 (33%)	2 (67%)	0	100	100
All	All	370/520 (71%)	338 (91%)	32 (9%)	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	88/113 (78%)	85 (97%)	3 (3%)	40	71
1	B	82/113 (73%)	80 (98%)	2 (2%)	52	80
1	C	78/113 (69%)	73 (94%)	5 (6%)	19	45
1	D	77/113 (68%)	75 (97%)	2 (3%)	49	78
2	E	4/4 (100%)	4 (100%)	0	100	100
2	F	4/4 (100%)	4 (100%)	0	100	100
2	G	4/4 (100%)	4 (100%)	0	100	100
2	H	4/4 (100%)	4 (100%)	0	100	100
All	All	341/468 (73%)	329 (96%)	12 (4%)	39	70

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	77	ASN
1	A	97	ASP
1	A	100	LYS
1	B	22	ASP
1	B	43	ASP
1	C	36	MET
1	C	43	ASP
1	C	97	ASP
1	C	106	SER
1	C	108	TYR
1	D	105	ASP
1	D	106	SER

Some 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 ⓘ

4 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	M3L	E	4	2	11,11,12	0.78	1 (9%)	10,14,16	0.43	0
2	M3L	F	4	2	11,11,12	0.85	1 (9%)	10,14,16	0.47	0
2	M3L	G	4	2	11,11,12	0.90	1 (9%)	10,14,16	0.56	0
2	M3L	H	4	2	11,11,12	0.87	1 (9%)	10,14,16	0.47	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	M3L	E	4	2	-	1/8/10/12	-
2	M3L	F	4	2	-	2/8/10/12	-
2	M3L	G	4	2	-	5/8/10/12	-
2	M3L	H	4	2	-	3/8/10/12	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	4	M3L	CA-C	2.41	1.53	1.50
2	G	4	M3L	CA-C	2.39	1.53	1.50
2	F	4	M3L	CA-C	2.33	1.53	1.50
2	E	4	M3L	CA-C	2.02	1.52	1.50

There are no bond angle outliers.

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	G	4	M3L	N-CA-CB-CG
2	G	4	M3L	CD-CE-NZ-CM1
2	G	4	M3L	CD-CE-NZ-CM3

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Mol	Chain	Res	Type	Atoms
2	G	4	M3L	CD-CE-NZ-CM2
2	H	4	M3L	CG-CD-CE-NZ
2	G	4	M3L	C-CA-CB-CG
2	F	4	M3L	CE-CD-CG-CB
2	H	4	M3L	CE-CD-CG-CB
2	H	4	M3L	CA-CB-CG-CD
2	F	4	M3L	CA-CB-CG-CD
2	E	4	M3L	CA-CB-CG-CD

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	4	M3L	1	0
2	H	4	M3L	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 12 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	98/123 (79%)	0.33	1 (1%) 82 81	42, 59, 90, 117	0
1	B	93/123 (75%)	0.42	1 (1%) 80 79	45, 65, 96, 107	0
1	C	90/123 (73%)	0.65	6 (6%) 18 13	59, 87, 129, 147	0
1	D	92/123 (74%)	0.86	11 (11%) 4 3	54, 81, 144, 162	0
2	E	6/7 (85%)	0.73	1 (16%) 1 1	63, 69, 81, 83	0
2	F	5/7 (71%)	0.59	1 (20%) 1 1	64, 67, 91, 92	0
2	G	5/7 (71%)	1.43	1 (20%) 1 1	89, 97, 98, 102	0
2	H	5/7 (71%)	2.01	3 (60%) 0 0	98, 102, 110, 114	0
All	All	394/520 (75%)	0.59	25 (6%) 20 15	42, 74, 129, 162	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	114	GLY	6.5
1	D	97	ASP	4.4
1	D	111	GLU	4.3
1	D	115	ARG	4.0
1	D	110	SER	3.9
1	D	113	HIS	3.9
1	D	104	GLN	3.4
2	H	3	THR	3.4
1	C	112	GLU	3.3
1	C	105	ASP	2.8
1	C	97	ASP	2.7
2	H	1	ALA	2.7
1	C	102	CYS	2.7
1	D	112	GLU	2.6
1	D	103	LEU	2.5
2	F	6	THR	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	77	ASN	2.4
2	G	5	GLN	2.3
2	E	1	ALA	2.2
2	H	5	GLN	2.2
1	D	102	CYS	2.2
1	C	101	PRO	2.1
1	D	95	ILE	2.1
1	B	82	GLY	2.1
1	C	75	GLY	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(Å ²)	Q<0.9
2	M3L	H	4	12/13	0.83	0.43	92,103,118,122	0
2	M3L	G	4	12/13	0.88	0.37	74,85,90,94	0
2	M3L	E	4	12/13	0.94	0.33	53,62,71,76	0
2	M3L	F	4	12/13	0.95	0.30	63,71,79,85	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(Å ²)	Q<0.9
3	ZN	C	203	1/1	0.81	0.13	138,138,138,138	0
3	ZN	D	203	1/1	0.94	0.08	115,115,115,115	0
3	ZN	C	201	1/1	0.98	0.21	68,68,68,68	0
3	ZN	A	201	1/1	0.98	0.20	52,52,52,52	0
3	ZN	A	203	1/1	0.99	0.21	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	ZN	B	201	1/1	0.99	0.19	60,60,60,60	0
3	ZN	B	202	1/1	0.99	0.20	55,55,55,55	0
3	ZN	C	202	1/1	0.99	0.17	72,72,72,72	0
3	ZN	A	202	1/1	1.00	0.18	49,49,49,49	0
3	ZN	D	201	1/1	1.00	0.20	50,50,50,50	0
3	ZN	D	202	1/1	1.00	0.21	53,53,53,53	0
3	ZN	B	203	1/1	1.00	0.21	51,51,51,51	0

6.5 Other polymers [i](#)

There are no such residues in this entry.