



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 12:42 PM UTC

PDB ID : 7X8F / pdb_00007x8f
Title : Crystal structure of ENL T4 mutant YEATS domain in complex with histone H3 acetylation at K27
Authors : Li, Y.; Peng, B.; Li, H.
Deposited on : 2022-03-12
Resolution : 2.44 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

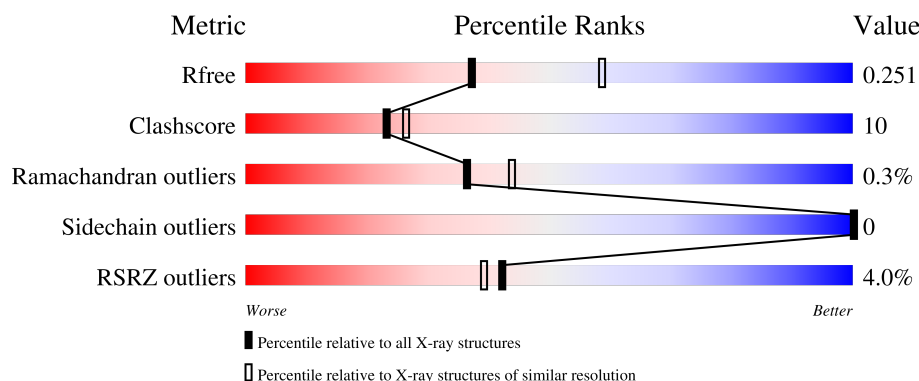
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.44 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	2340 (2.46-2.42)
Clashscore	190562	2400 (2.46-2.42)
Ramachandran outliers	187476	2379 (2.46-2.42)
Sidechain outliers	187428	2379 (2.46-2.42)
RSRZ outliers	180081	2340 (2.46-2.42)

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	160	 4% 74% 18% • 7%
1	C	160	 4% 69% 23% • 8%
2	B	4	 75% 25%
2	D	4	 75% 25%

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
3	CL	C	201	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2585 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 Protein ENL.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	149	Total	C	N	O	S	0	0	0
			1241	797	221	213	10			
1	C	148	Total	C	N	O	S	0	0	0
			1233	792	220	212	9			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q03111
A	-1	SER	-	expression tag	UNP Q03111
A	0	HIS	-	expression tag	UNP Q03111
A	116	HIS	-	insertion	UNP Q03111
A	117	LEU	-	insertion	UNP Q03111
A	118	ARG	-	insertion	UNP Q03111
A	152	HIS	-	expression tag	UNP Q03111
A	153	HIS	-	expression tag	UNP Q03111
A	154	HIS	-	expression tag	UNP Q03111
A	155	HIS	-	expression tag	UNP Q03111
A	156	HIS	-	expression tag	UNP Q03111
A	157	HIS	-	expression tag	UNP Q03111
C	-2	GLY	-	expression tag	UNP Q03111
C	-1	SER	-	expression tag	UNP Q03111
C	0	HIS	-	expression tag	UNP Q03111
C	116	HIS	-	insertion	UNP Q03111
C	117	LEU	-	insertion	UNP Q03111
C	118	ARG	-	insertion	UNP Q03111
C	152	HIS	-	expression tag	UNP Q03111
C	153	HIS	-	expression tag	UNP Q03111
C	154	HIS	-	expression tag	UNP Q03111
C	155	HIS	-	expression tag	UNP Q03111
C	156	HIS	-	expression tag	UNP Q03111
C	157	HIS	-	expression tag	UNP Q03111

- Molecule 2 is a protein called H3K27ac(24-27) peptide.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	4	Total	C	N	O	0	0	0
			34	20	8	6			
2	D	4	Total	C	N	O	0	0	0
			34	20	8	6			

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

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

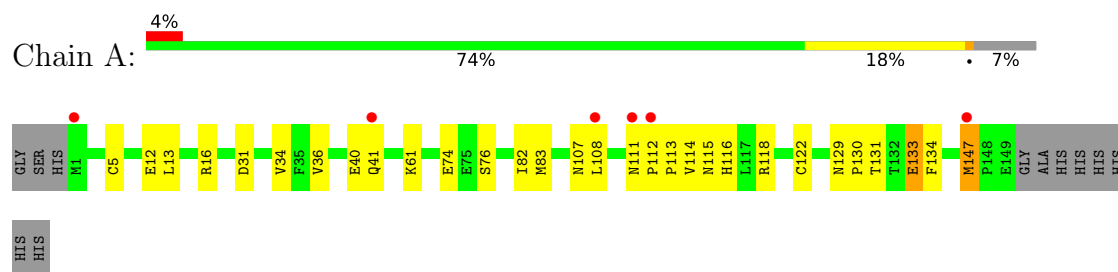
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	26	Total	O	0	0
			26	26		
4	C	16	Total	O	0	0
			16	16		

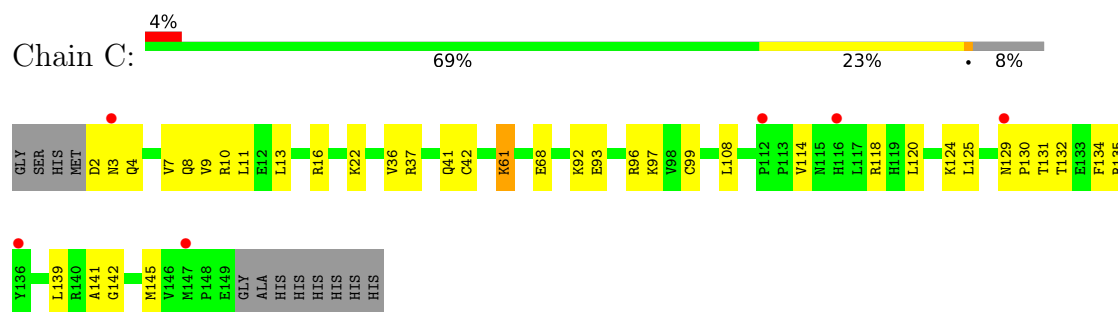
3 Residue-property plots [i](#)

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.

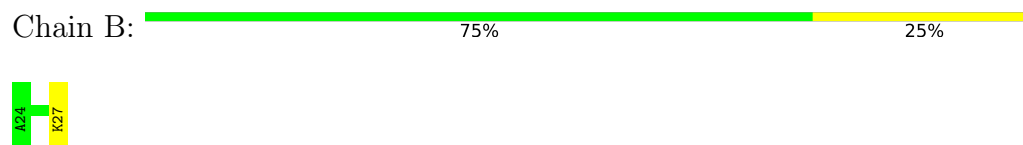
• Molecule 1: Protein ENL



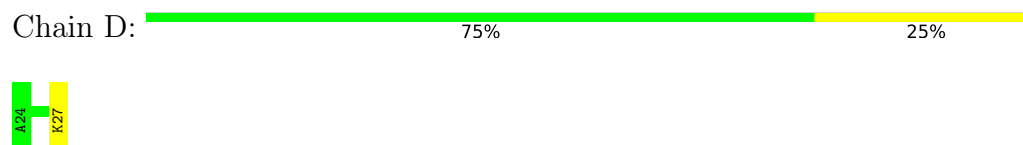
• Molecule 1: Protein ENL



• Molecule 2: H3K27ac(24-27) peptide



• Molecule 2: H3K27ac(24-27) peptide



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	156.56Å 48.59Å 47.26Å 90.00° 101.16° 90.00°	Depositor
Resolution (Å)	38.40 – 2.44 38.40 – 2.44	Depositor EDS
% Data completeness (in resolution range)	99.5 (38.40-2.44) 99.8 (38.40-2.44)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.67 (at 2.45Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.202 , 0.252 0.204 , 0.251	Depositor DCC
R_{free} test set	643 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	46.4	Xtriage
Anisotropy	0.120	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 43.8	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	0.94	EDS
Total number of atoms	2585	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.98% 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: CL, ALY

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	0.61	3/1278 (0.2%)	0.72	3/1727 (0.2%)
1	C	0.47	0/1270	0.69	3/1717 (0.2%)
2	B	0.47	0/20	0.46	0/25
2	D	0.34	0/20	0.75	0/25
All	All	0.54	3/2588 (0.1%)	0.71	6/3494 (0.2%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	129	ASN	C-O	8.96	1.28	1.23
1	A	133	GLU	CD-OE2	-6.37	1.13	1.25
1	A	61	LYS	CG-CD	-5.06	1.37	1.52

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	147	MET	CB-CG-SD	-9.36	84.61	112.70
1	A	61	LYS	CG-CD-CE	-8.49	91.76	111.30
1	C	61	LYS	CA-CB-CG	-6.14	101.82	114.10
1	C	61	LYS	CD-CE-NZ	-5.69	93.70	111.90
1	C	68	GLU	CG-CD-OE1	-5.63	105.45	118.40
1	A	147	MET	CA-CB-CG	-5.30	103.50	114.10

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	1241	0	1228	18	3
1	C	1233	0	1215	35	4
2	B	34	0	35	0	0
2	D	34	0	35	0	0
3	C	1	0	0	4	0
4	A	26	0	0	1	0
4	C	16	0	0	0	0
All	All	2585	0	2513	52	4

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 10.

All (52) 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:118:ARG:NH1	3:C:201:CL:CL	1.92	1.38
1:A:133:GLU:HG2	1:A:134:PHE:N	1.71	1.05
1:C:8:GLN:HB3	1:C:124:LYS:HZ2	1.35	0.91
1:C:92:LYS:C	1:C:96:ARG:NH1	2.30	0.88
1:A:122:CYS:SG	4:A:226:HOH:O	2.32	0.86
1:C:92:LYS:C	1:C:96:ARG:HH12	1.89	0.74
1:C:108:LEU:H	1:C:114:VAL:HG21	1.55	0.72
1:C:92:LYS:O	1:C:96:ARG:NH1	2.20	0.71
1:A:131:THR:OG1	1:A:133:GLU:OE2	2.07	0.70
1:C:2:ASP:OD1	1:C:129:ASN:HB3	1.94	0.66
1:A:133:GLU:HG2	1:A:134:PHE:H	1.58	0.66
1:A:111:ASN:C	1:A:113:PRO:HD3	2.23	0.63
1:C:37:ARG:NH2	3:C:201:CL:CL	2.64	0.60
1:A:131:THR:HG1	1:A:133:GLU:CD	2.10	0.58
1:C:118:ARG:HH21	1:C:120:LEU:HD22	1.67	0.57
1:C:16:ARG:NH2	3:C:201:CL:CL	2.71	0.57
1:C:132:THR:HG23	1:C:135:ARG:NH2	2.19	0.57
1:C:93:GLU:N	1:C:96:ARG:NH1	2.53	0.56
1:A:16:ARG:HG2	1:A:118:ARG:HG2	1.88	0.55
1:A:131:THR:CB	1:A:133:GLU:OE2	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:GLU:HG2	1:A:41:GLN:OE1	2.07	0.55
1:C:3:ASN:C	1:C:4:GLN:HG3	2.32	0.54
1:C:7:VAL:HG22	1:C:145:MET:HG3	1.89	0.54
1:C:16:ARG:NE	3:C:201:CL:CL	2.77	0.54
1:A:114:VAL:HG22	1:A:115:ASN:H	1.74	0.51
1:C:92:LYS:C	1:C:96:ARG:HH11	2.16	0.51
1:C:118:ARG:NH2	1:C:120:LEU:HD22	2.25	0.51
1:A:5:CYS:SG	1:A:130:PRO:HD2	2.51	0.51
1:C:13:LEU:CD2	1:C:36:VAL:HG22	2.42	0.49
1:C:8:GLN:CB	1:C:124:LYS:HZ2	2.15	0.48
1:C:8:GLN:HE21	1:C:124:LYS:NZ	2.11	0.48
1:C:42:CYS:HB3	1:C:141:ALA:O	2.14	0.48
1:C:10:ARG:HG3	1:C:124:LYS:HE2	1.96	0.47
1:A:108:LEU:HA	1:A:108:LEU:HD23	1.60	0.47
1:C:2:ASP:O	1:C:3:ASN:OD1	2.31	0.47
1:A:31:ASP:OD1	1:A:76:SER:OG	2.24	0.47
1:C:9:VAL:HG12	1:C:125:LEU:HB2	1.95	0.47
1:A:13:LEU:HG	1:A:36:VAL:HG22	1.96	0.47
1:A:82:ILE:HD11	1:C:108:LEU:HD11	1.95	0.46
1:C:37:ARG:HH12	1:C:118:ARG:HH22	1.63	0.45
1:A:114:VAL:HG13	1:A:116:HIS:H	1.82	0.45
1:C:3:ASN:O	1:C:4:GLN:HG3	2.18	0.44
1:C:13:LEU:HD22	1:C:36:VAL:HG22	1.99	0.44
1:C:10:ARG:HG2	1:C:124:LYS:HG2	2.00	0.44
1:C:131:THR:HG23	1:C:134:PHE:H	1.83	0.43
1:C:139:LEU:O	1:C:142:GLY:N	2.51	0.43
1:C:41:GLN:HE21	1:C:41:GLN:HB2	1.55	0.42
1:A:147:MET:HE3	1:A:147:MET:HB3	1.83	0.42
1:C:97:LYS:NZ	1:C:99:CYS:HB2	2.34	0.42
1:C:129:ASN:N	1:C:130:PRO:HD3	2.36	0.41
1:A:34:VAL:HG11	1:A:83:MET:SD	2.60	0.41
1:C:11:LEU:HD23	1:C:11:LEU:HA	1.86	0.40

All (4) 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:A:74:GLU:OE2	1:C:61:LYS:NZ[1_565]	1.83	0.37
1:C:93:GLU:OE2	1:C:131:THR:OG1[2_556]	1.92	0.28
1:A:12:GLU:OE1	1:C:22:LYS:NZ[4_555]	2.07	0.13
1:A:107:ASN:ND2	1:C:41:GLN:OE1[4_556]	2.07	0.13

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	147/160 (92%)	144 (98%)	2 (1%)	1 (1%)	18	21
1	C	146/160 (91%)	142 (97%)	4 (3%)	0	100	100
2	B	2/4 (50%)	2 (100%)	0	0	100	100
2	D	2/4 (50%)	2 (100%)	0	0	100	100
All	All	297/328 (90%)	290 (98%)	6 (2%)	1 (0%)	36	44

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	112	PRO

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	138/146 (94%)	138 (100%)	0	100	100
1	C	137/146 (94%)	137 (100%)	0	100	100
2	B	1/1 (100%)	1 (100%)	0	100	100
2	D	1/1 (100%)	1 (100%)	0	100	100
All	All	277/294 (94%)	277 (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 (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	8	GLN
1	A	46	HIS
1	C	3	ASN
1	C	8	GLN
1	C	41	GLN

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	ALY	D	27	2	11,12,12	1.76	3 (27%)	11,14,14	1.70	3 (27%)
2	ALY	B	27	2	11,12,12	0.82	0	11,14,14	1.35	1 (9%)

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	ALY	D	27	2	-	0/12/12/12	-
2	ALY	B	27	2	-	0/12/12/12	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	27	ALY	O-C	4.70	1.36	1.22
2	D	27	ALY	OXT-C	-2.15	1.23	1.30
2	D	27	ALY	CH-NZ	2.01	1.39	1.34

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	27	ALY	OXT-C-O	-4.15	114.67	124.08
2	B	27	ALY	OXT-C-O	-3.32	116.55	124.08
2	D	27	ALY	CE-NZ-CH	2.21	125.82	122.56
2	D	27	ALY	OH-CH-CH3	-2.15	118.23	122.05

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is 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 [i](#)

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	149/160 (93%)	0.11	6 (4%) 42 39	33, 45, 83, 101	0
1	C	148/160 (92%)	0.36	6 (4%) 41 39	34, 51, 92, 104	0
2	B	3/4 (75%)	-0.24	0 100 100	39, 39, 50, 66	0
2	D	3/4 (75%)	0.55	0 100 100	42, 42, 46, 51	0
All	All	303/328 (92%)	0.24	12 (3%) 42 39	33, 49, 90, 104	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	112	PRO	3.0
1	A	41	GLN	2.6
1	A	1	MET	2.4
1	A	147	MET	2.4
1	A	111	ASN	2.4
1	C	129	ASN	2.3
1	C	147	MET	2.3
1	A	112	PRO	2.2
1	C	116	HIS	2.2
1	A	108	LEU	2.1
1	C	3	ASN	2.0
1	C	136	TYR	2.0

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

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
2	ALY	D	27	13/13	0.94	0.09	34,40,47,48	0
2	ALY	B	27	13/13	0.97	0.06	35,36,40,41	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

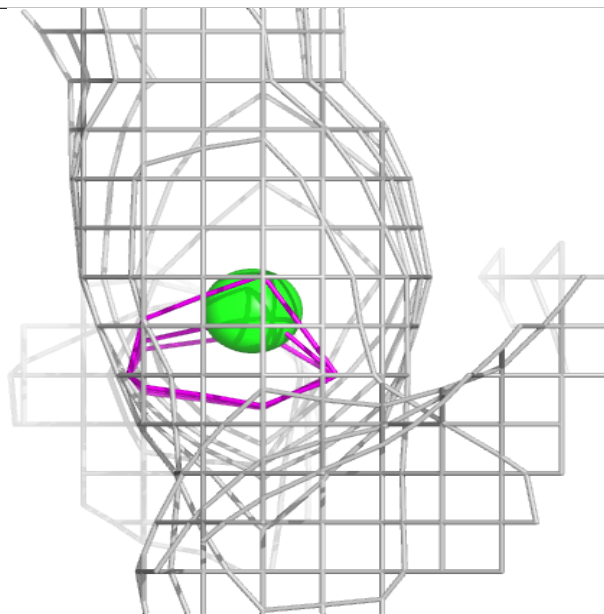
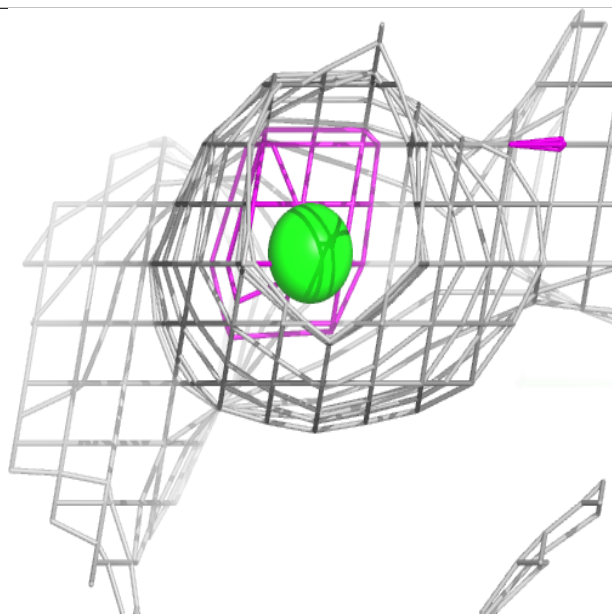
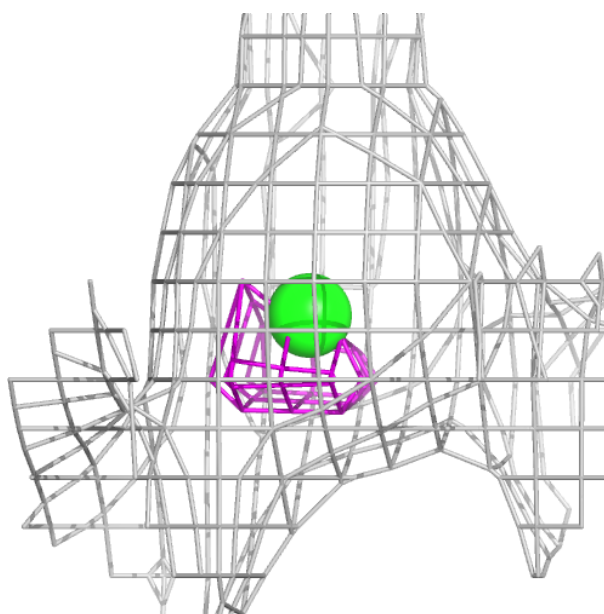
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	CL	C	201	1/1	0.94	0.15	51,51,51,51	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around CL C 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.