

Full wwPDB X-ray Structure Validation Report (i)

Nov 5, 2023 – 01:35 AM EDT

PDB ID : 60IP

Title : Crystal structure of MYST acetyltransferase domain in complex with inhibitor

34

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Deposited on : 2019-04-09

Resolution : 1.80 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 (i) 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 (1)) 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 : 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

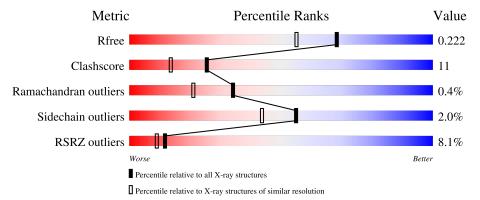
Validation Pipeline (wwPDB-VP) : 2.36

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 1.80 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	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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		
			8%		
1	A	273	81%	17%	•

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
1	ALY	A	274	-	-	X	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 2542 atoms, of which 15 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 Histone acetyltransferase KAT8.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Λ	272	Total	С	N	О	S	0	1.4	0
1	Α	212	2301	1507	366	414	14	0	14	

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	249	HIS	TYR	$\operatorname{conflict}$	UNP Q9H7Z6
A	315	SER	ALA	engineered mutation	UNP Q9H7Z6
A	318	MET	LEU	engineered mutation	UNP Q9H7Z6
A	319	ILE	THR	engineered mutation	UNP Q9H7Z6
A	330	ARG	LYS	engineered mutation	UNP Q9H7Z6
A	372	ASN	ILE	conflict	UNP Q9H7Z6

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Zn 1 1	0	0

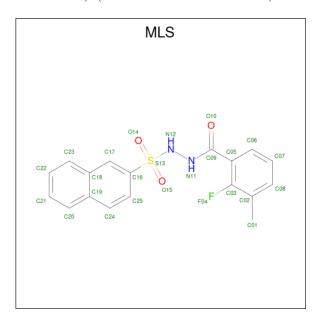
• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	A	1	Total C O 6 3 3	0	0

 \bullet Molecule 4 is 2-fluoro-3-methyl-N'-[(naphthalen-2-yl)sulfonyl]benzohydrazide (three-letter code: MLS) (formula: $C_{18}H_{15}FN_2O_3S).$



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf		
4	A	1	Total 40	C 18	F 1	H 15	N 2	O 3	S 1	0	0



• Molecule 5 is water.

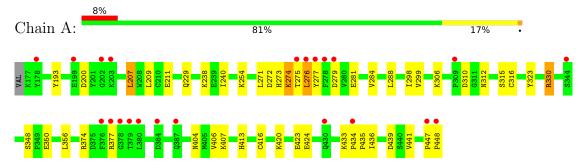
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	188	Total 188	O 188	0	0



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: Histone acetyltransferase KAT8





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	46.40Å 55.92Å 123.95Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.31 - 1.80	Depositor
Resolution (A)	34.31 - 1.80	EDS
% Data completeness	99.9 (34.31-1.80)	Depositor
(in resolution range)	99.9 (34.31-1.80)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	3.07 (at 1.81Å)	Xtriage
Refinement program	PHENIX (1.13_2998)	Depositor
D D.	0.185 , 0.222	Depositor
R, R_{free}	0.185 , 0.222	DCC
R_{free} test set	1546 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	21.5	Xtriage
Anisotropy	0.069	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39, 59.7	EDS
L-test for twinning ²	$ < L >=0.48, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	2542	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.30% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities estimated from amplitudes.

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, GOL, ALY, MLS

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).

Mal	Chain	Bond	$\mathbf{lengths}$	Bond angles		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.38	0/2398	0.55	0/3252	

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	2301	0	2285	49	0
2	A	1	0	0	0	0
3	A	12	0	16	0	0
4	A	25	15	0	0	0
5	A	188	0	0	14	1
All	All	2527	15	2301	49	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 11.

All (49) 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:207:LEU:HD23	1:A:209:LEU:HD11	1.41	0.99
1:A:436:ILE:O	5:A:601:HOH:O	1.83	0.97
1:A:277:TYR:O	5:A:602:HOH:O	1.93	0.87
1:A:272:ASP:OD1	5:A:603:HOH:O	1.97	0.81
1:A:271[A]:LEU:HD22	1:A:273:HIS:HE1	1.46	0.81
1:A:271[A]:LEU:HD22	1:A:273:HIS:CE1	2.16	0.80
1:A:274:ALY:HD3	1:A:316[B]:CYS:SG	2.24	0.76
1:A:439:ASP:OD1	1:A:441[B]:VAL:HG22	1.89	0.73
1:A:298[B]:ILE:HD11	5:A:646:HOH:O	1.92	0.69
1:A:207:LEU:HD23	1:A:209:LEU:CD1	2.21	0.69
1:A:298[B]:ILE:HG13	5:A:687:HOH:O	1.91	0.68
1:A:229:GLN:NE2	5:A:604:HOH:O	2.19	0.66
1:A:404[A]:ASN:ND2	5:A:606:HOH:O	2.29	0.65
1:A:271[B]:LEU:HD13	1:A:274:ALY:HB3	1.79	0.65
1:A:433:LYS:HD2	1:A:434:PRO:HD2	1.78	0.65
1:A:374:ARG:HD2	1:A:423:GLU:OE1	1.98	0.64
1:A:374:ARG:HG3	5:A:681:HOH:O	2.00	0.60
1:A:312:ASN:HA	1:A:348:SER:O	2.01	0.60
1:A:193:TYR:CE1	1:A:272:ASP:HB2	2.38	0.59
1:A:277:TYR:CZ	1:A:316[B]:CYS:SG	2.97	0.58
1:A:330:ARG:HD3	5:A:750:HOH:O	2.04	0.58
1:A:193:TYR:CD1	1:A:272:ASP:HB2	2.40	0.56
1:A:276:LEU:HG	1:A:277:TYR:N	2.20	0.56
1:A:277:TYR:OH	1:A:316[B]:CYS:SG	2.45	0.55
1:A:279:ASP:HA	5:A:686:HOH:O	2.08	0.54
1:A:277:TYR:OH	1:A:315[A]:SER:OG	2.23	0.54
1:A:441[B]:VAL:HG21	5:A:643:HOH:O	2.08	0.53
1:A:330:ARG:CZ	1:A:435:PRO:HB3	2.39	0.52
1:A:274:ALY:CD	1:A:316[B]:CYS:SG	2.96	0.52
1:A:374:ARG:CD	1:A:423:GLU:OE1	2.58	0.51
1:A:271[B]:LEU:CD1	1:A:274:ALY:HB3	2.41	0.50
1:A:288:LEU:HD23	1:A:299[A]:VAL:CG2	2.42	0.49
1:A:298[A]:ILE:HG22	5:A:616:HOH:O	2.11	0.49
1:A:211:GLU:HB2	5:A:616:HOH:O	2.12	0.49
1:A:284:VAL:HG23	1:A:306:LYS:HG3	1.95	0.47
1:A:275:THR:HG22	5:A:763:HOH:O	2.14	0.46
1:A:447:PRO:HA	1:A:448:PRO:HD3	1.82	0.46
1:A:271[A]:LEU:HD13	1:A:316[A]:CYS:SG	2.56	0.46
1:A:254:LYS:HA	1:A:281[B]:GLU:OE1	2.16	0.46
1:A:439:ASP:CG	1:A:441[B]:VAL:HG22	2.36	0.46
1:A:274:ALY:HH33	1:A:350:GLU:O	2.17	0.44
1:A:299[B]:VAL:HG13	1:A:323:TYR:CG	2.51	0.44

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Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	Clash overlap (Å)
1:A:407:LYS:HE3	1:A:416[B]:CYS:SG	2.57	0.44
1:A:406:VAL:HG21	1:A:413:HIS:HB3	1.99	0.43
1:A:238:LYS:HD3	1:A:240:ILE:HG22	2.01	0.42
1:A:420:LYS:O	1:A:424:GLU:HG2	2.21	0.41

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	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
5:A:695:HOH:O	5:A:771:HOH:O[4_555]	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	283/273 (104%)	276 (98%)	6 (2%)	1 (0%)	34 21

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	377	ARG

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	$259/252\ (103\%)$	254~(98%)	5 (2%)	57 46	

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	207	LEU
1	A	276	LEU
1	A	310	ASP
1	A	330	ARG
1	A	356	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is 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).

Mo	$\frac{1}{1}$	Chain	Dog	Link	Bo	ond leng	${ m ths}$	\mid B	sond ang	gles
IVIC	n Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	ALY	A	274	1	10,11,12	1.74	1 (10%)	7,12,14	2.34	2 (28%)

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
1	ALY	A	274	1	-	4/9/10/12	-



All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(A)
1	A	274	ALY	O-C	4.35	1.37	1.19

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	274	ALY	CG-CD-CE	-4.15	93.91	113.56
1	A	274	ALY	CE-NZ-CH	3.70	128.24	122.56

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	274	ALY	C-CA-CB-CG
1	A	274	ALY	OH-CH-NZ-CE
1	A	274	ALY	CH3-CH-NZ-CE
1	A	274	ALY	CA-CB-CG-CD

There are no ring outliers.

1 monomer is involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	274	ALY	7	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

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		
	туре		rtes	DILL	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	GOL	A	502	-	5,5,5	0.75	0	5,5,5	1.11	0
4	MLS	A	504	-	26,27,27	1.90	3 (11%)	36,39,39	1.74	6 (16%)
3	GOL	A	503	-	5,5,5	0.77	0	5,5,5	1.00	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
3	GOL	A	502	-	-	0/4/4/4	-
4	MLS	A	504	-	-	0/16/16/16	0/3/3/3
3	GOL	A	503	-	-	2/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
4	A	504	MLS	C09-N11	6.29	1.44	1.35
4	A	504	MLS	N12-N11	-5.65	1.35	1.40
4	A	504	MLS	C19-C18	-2.29	1.37	1.42

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
4	A	504	MLS	O15-S13-O14	-7.61	110.19	119.55
4	A	504	MLS	O14-S13-N12	3.49	112.24	105.57
4	A	504	MLS	C08-C02-C03	2.88	120.39	115.75
4	A	504	MLS	C09-N11-N12	2.12	122.83	119.24
4	A	504	MLS	C16-S13-N12	2.11	110.58	107.26
4	A	504	MLS	C03-C05-C09	-2.10	121.26	125.33

There are no chirality outliers.

All (2) torsion outliers are listed below:

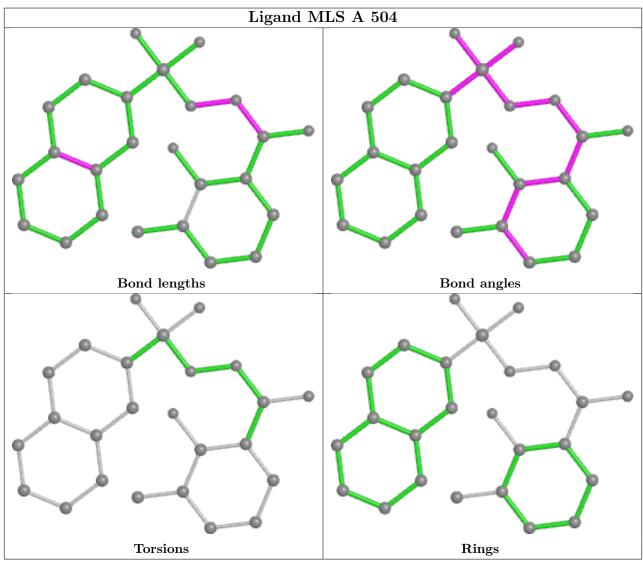
Mol	Chain	Res	Type	Atoms
3	A	503	GOL	O1-C1-C2-C3
3	A	503	GOL	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.



The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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 (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, 95^{th} 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>	# RSRZ > 2	$OWAB(Å^2)$	Q<0.9
1	A	271/273 (99%)	0.21	22 (8%) 12 9	11, 23, 50, 71	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	278	PHE	9.0
1	A	379	THR	4.9
1	A	309	PRO	4.8
1	A	376	PHE	4.7
1	A	447	PRO	4.0
1	A	276	LEU	3.8
1	A	277	TYR	3.5
1	A	275	THR	3.2
1	A	279	ASP	3.0
1	A	377	ARG	3.0
1	A	448	PRO	3.0
1	A	178	TYR	2.9
1	A	380	LEU	2.9
1	A	378	GLY	2.9
1	A	199	GLU	2.7
1	A	430	GLN	2.7
1	A	203	LYS	2.5
1	A	434	PRO	2.4
1	A	344	SER	2.3
1	A	387	GLN	2.2
1	A	384	ASP	2.1
1	A	202	GLY	2.1



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, 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	ALY	A	274	12/13	0.77	0.23	27,41,45,47	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

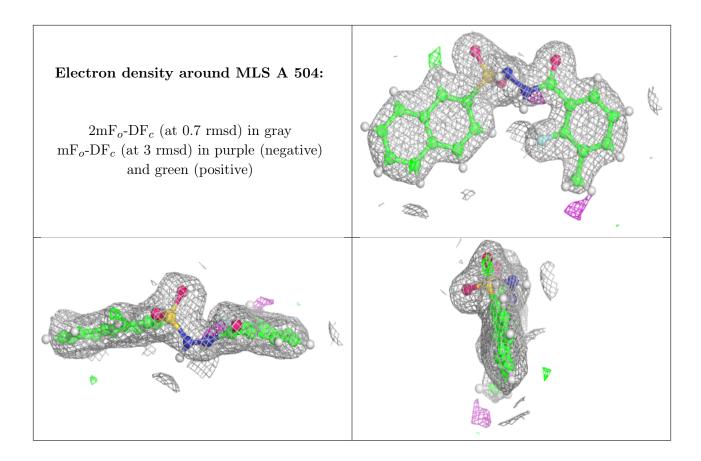
6.4 Ligands (i)

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, 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	GOL	A	502	6/6	0.85	0.12	26,31,32,35	0
3	GOL	A	503	6/6	0.91	0.09	27,33,41,41	0
4	MLS	A	504	25/25	0.96	0.09	17,24,32,35	0
2	ZN	A	501	1/1	1.00	0.06	15,15,15,15	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.





6.5 Other polymers (i)

There are no such residues in this entry.

