

Full wwPDB X-ray Structure Validation Report (i)

Jan 14, 2024 – 02:47 am GMT

PDB ID : 6QXJ

Title : Structure of MBP-Mcl-1 in complex with compound 6a

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Deposited on : 2019-03-07

Resolution : 1.70 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:

 $Mol Probity \quad : \quad 4.02b\text{--}467$

Mogul : 1.8.4, 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 : 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

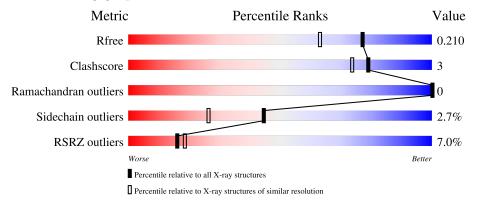


1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.70 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}({\rm \AA})) \end{array}$
R_{free}	130704	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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	518	90%	8%	. .
2	В	2	100%		_



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4393 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 Maltose-binding periplasmic protein, Induced myeloid leukemia cell differentiation protein Mcl-1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	A	513	Total 3991	C 2555	N 669	O 757	S 10	0	2	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-196	MET	-	initiating methionine	UNP P0AEY0
A	-24	ALA	GLU	engineered mutation	UNP P0AEY0
A	-23	ALA	ASN	engineered mutation	UNP P0AEY0
A	43	ALA	LYS	engineered mutation	UNP P0AEY0
A	171	GLY	-	linker	UNP P0AEY0
A	172	SER	-	linker	UNP P0AEY0
A	194	ALA	LYS	engineered mutation	UNP Q07820
A	197	ALA	LYS	engineered mutation	UNP Q07820
A	201	ALA	ARG	engineered mutation	UNP Q07820

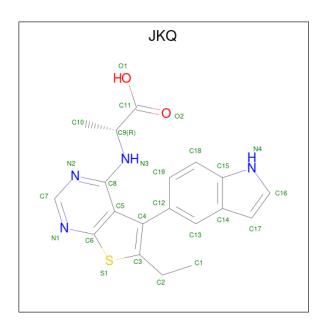
• Molecule 2 is an oligosaccharide called alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace	
2	В	2	Total 23	C 12	O 11	0	0	0

• Molecule 3 is $(2 \{R\})-2-[[6-ethyl-5-(1 \{H\}-indol-5-yl)thieno[2,3-d]pyrimidin-4-yl]amin o]propanoic acid (three-letter code: JKQ) (formula: <math>C_{19}H_{18}N_4O_2S$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total 26	C 19	N 1	0	S	0	0

• Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Na 1 1	0	0

• Molecule 5 is water.

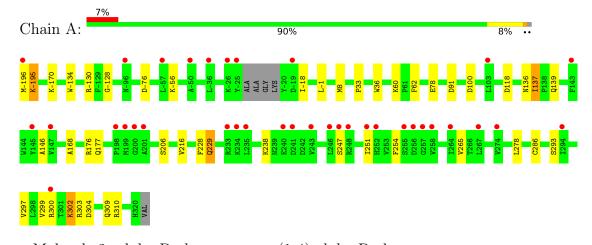
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	352	Total O 352 352	0	0



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: Maltose-binding periplasmic protein, Induced myeloid leukemia cell differentiation protein Mcl-1



• Molecule 2: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose

Chain B:

GLC1 GLC2



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	99.21Å 135.95Å 37.80Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 - 1.70	Depositor
rtesolution (A)	19.83 - 1.70	EDS
% Data completeness	98.6 (20.00-1.70)	Depositor
(in resolution range)	98.7 (19.83-1.70)	EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.74 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
D D.	0.172 , 0.203	Depositor
R, R_{free}	0.183 , 0.210	DCC
R_{free} test set	2829 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	32.3	Xtriage
Anisotropy	0.054	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 42.1	EDS
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4393	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.33% 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: NA, JKQ, GLC

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	Bo	nd lengths	Bond angles		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	1.09	$2/4086 \ (0.0\%)$	1.03	$12/5541 \ (0.2\%)$	

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(A)
1	A	78	GLU	CD-OE1	6.68	1.32	1.25
1	A	303	ARG	CZ-NH2	5.57	1.40	1.33

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
1	A	118	ASP	CB-CG-OD1	8.40	125.86	118.30
1	A	118	ASP	CB-CG-OD2	-7.30	111.73	118.30
1	A	303	ARG	NE-CZ-NH1	-6.51	117.04	120.30
1	A	303	ARG	NE-CZ-NH2	6.40	123.50	120.30
1	A	304	ASP	CB-CG-OD1	6.18	123.86	118.30
1	A	60	LYS	CD-CE-NZ	6.13	125.80	111.70
1	A	100	ASP	CB-CG-OD1	6.00	123.70	118.30
1	A	228	PHE	CB-CG-CD2	-5.96	116.63	120.80
1	A	310	ARG	NE-CZ-NH1	5.93	123.26	120.30
1	A	91	ASP	CB-CG-OD1	5.47	123.22	118.30
1	A	-76	ASP	CB-CG-OD1	5.15	122.93	118.30
1	A	228	PHE	CB-CG-CD1	5.01	124.31	120.80

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	3991	0	3952	22	0
2	В	23	0	21	0	0
3	A	26	0	0	0	0
4	A	1	0	0	0	0
5	A	352	0	0	6	0
All	All	4393	0	3973	22	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 3.

All (22) 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:-18:ILE:HD13	1:A:-18:ILE:N	2.13	0.64
1:A:-134:TRP:CD1	1:A:-130:ARG:HG3	2.38	0.58
1:A:-1:LEU:CD1	1:A:8:MET:HE1	2.36	0.55
1:A:309:GLN:OE1	5:A:502:HOH:O	2.17	0.54
1:A:-1:LEU:HD11	1:A:8:MET:HE1	1.90	0.52
1:A:254:PHE:HE2	1:A:302:LYS:HD3	1.74	0.52
1:A:-195:LYS:NZ	5:A:501:HOH:O	2.09	0.50
1:A:229:GLN:NE2	5:A:514:HOH:O	2.46	0.48
1:A:33:PRO:HA	1:A:36:TRP:CE2	2.48	0.47
1:A:-128:GLY:HA3	1:A:136:ASN:O	2.14	0.47
1:A:137:ILE:HG13	1:A:139[B]:GLN:HG2	1.97	0.47
1:A:254:PHE:CE2	1:A:302:LYS:HD3	2.50	0.46
1:A:146:ALA:HB1	1:A:168:ALA:HA	1.98	0.45
1:A:-56:LYS:NZ	5:A:511:HOH:O	2.41	0.45
1:A:177:GLN:NE2	1:A:206:SER:OG	2.50	0.45
1:A:-196:MET:N	5:A:505:HOH:O	2.32	0.44
1:A:216:VAL:HG12	1:A:265:VAL:HG11	2.00	0.43
1:A:251:ILE:HG13	1:A:297:VAL:HG22	2.01	0.43
1:A:-18:ILE:CD1	1:A:137:ILE:HD12	2.49	0.41
1:A:-18:ILE:N	1:A:-18:ILE:CD1	2.84	0.41
1:A:278:LEU:HD13	1:A:286:CYS:HB2	2.02	0.41
1:A:300:ARG:HA	5:A:739:HOH:O	2.21	0.41



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	Percent	tiles
1	A	511/518 (99%)	507 (99%)	4 (1%)	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	Analysed Rotameric Ou		Percentiles
1	A	413/419 (99%)	402 (97%)	11 (3%)	44 26

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	-195	LYS
1	A	-170	LYS
1	A	62	PHE
1	A	137	ILE
1	A	176	ARG
1	A	229	GLN
1	A	238	LYS
1	A	247	SER
1	A	293	SER
1	A	299	VAL
1	A	302	LYS



Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	-110	GLN
1	A	177	GLN
1	A	320	HIS

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

2 monosaccharides 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		
IVIOI			rtes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GLC	В	1	2	12,12,12	1.01	1 (8%)	17,17,17	1.55	2 (11%)
2	GLC	В	2	2	11,11,12	1.04	1 (9%)	15,15,17	1.98	3 (20%)

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.

\mathbf{Mol}	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GLC	В	1	2	-	0/2/22/22	0/1/1/1
2	GLC	В	2	2	-	0/2/19/22	0/1/1/1

All (2) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
2	В	2	GLC	C2-C3	-2.39	1.49	1.52
2	В	1	GLC	O2-C2	2.32	1.48	1.43

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	2	GLC	C1-O5-C5	5.81	120.07	112.19
2	В	1	GLC	O2-C2-C3	-3.51	102.24	110.35
2	В	1	GLC	O1-C1-O5	-3.33	100.37	110.38
2	В	2	GLC	O5-C1-C2	-2.77	106.50	110.77
2	В	2	GLC	O2-C2-C3	2.52	115.18	110.14

There are no chirality outliers.

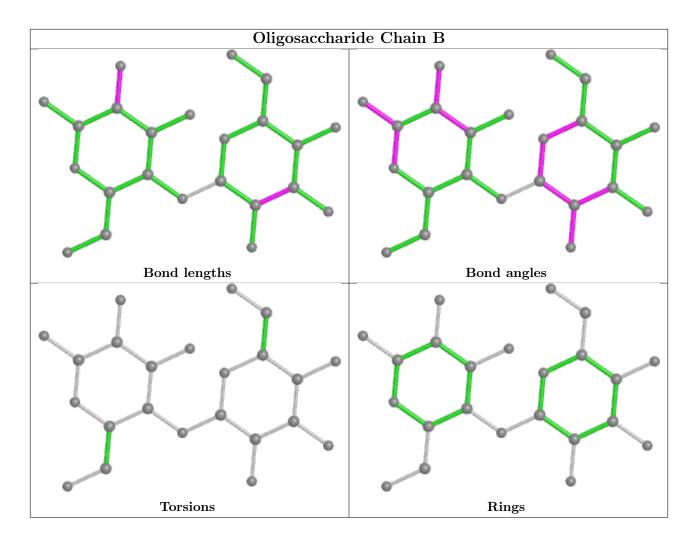
There are no torsion outliers.

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 oligosaccharide.





5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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
3	JKQ	A	401	-	25,29,29	1.21	2 (8%)	29,42,42	2.09	8 (27%)

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	JKQ	A	401	-	-	3/13/14/14	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
3	A	401	JKQ	C2-C3	-3.86	1.49	1.50
3	A	401	JKQ	C4-C3	2.39	1.42	1.38

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\mathrm{Ideal}(^{o})$
3	A	401	JKQ	C10-C9-C11	5.38	122.35	110.20
3	A	401	JKQ	C4-C5-C6	5.32	111.78	107.54
3	A	401	JKQ	C7-N2-C8	3.97	120.00	116.59
3	A	401	JKQ	C5-C8-N2	-3.79	118.23	121.35
3	A	401	JKQ	C3-C4-C5	2.96	113.01	108.92
3	A	401	JKQ	C5-C8-N3	2.37	122.88	120.66
3	A	401	JKQ	C11-C9-N3	2.14	115.02	110.55
3	A	401	JKQ	C19-C18-C15	-2.00	118.32	120.84

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	401	JKQ	C11-C9-N3-C8
3	A	401	JKQ	O2-C11-C9-N3
3	A	401	JKQ	O1-C11-C9-N3

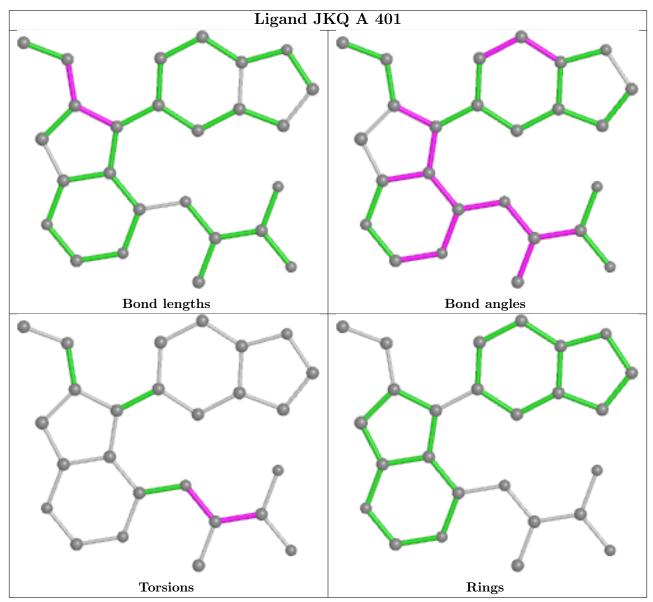
There are no ring outliers.

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	513/518 (99%)	0.32	36 (7%) 16 18	21, 33, 69, 91	0

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	258	VAL	7.0
1	A	256	ASP	7.0
1	A	201	ALA	6.9
1	A	-25	TYR	5.9
1	A	252	HIS	5.3
1	A	257	GLY	4.6
1	A	241	ASP	4.3
1	A	234	LYS	3.6
1	A	247	SER	3.5
1	A	235	LEU	3.4
1	A	-19	ASP	3.4
1	A	-196	MET	3.4
1	A	200	GLY	3.2
1	A	198	PRO	3.2
1	A	-26	LYS	3.2
1	A	199	MET	3.0
1	A	246	LEU	3.0
1	A	267	LEU	2.9
1	A	243	VAL	2.9
1	A	248	ARG	2.9
1	A	-96	ASN	2.8
1	A	274	VAL	2.8
1	A	251	ILE	2.7
1	A	145	TYR	2.7
1	A	-50	ALA	2.6
1	A	240	GLU	2.5
1	A	143	PHE	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	255	SER	2.4
1	A	-36	LEU	2.3
1	A	147	VAL	2.3
1	A	300	ARG	2.2
1	A	103	LEU	2.2
1	A	264	ILE	2.2
1	A	294	ILE	2.2
1	A	233	ARG	2.1
1	A	-57	LEU	2.0

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

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

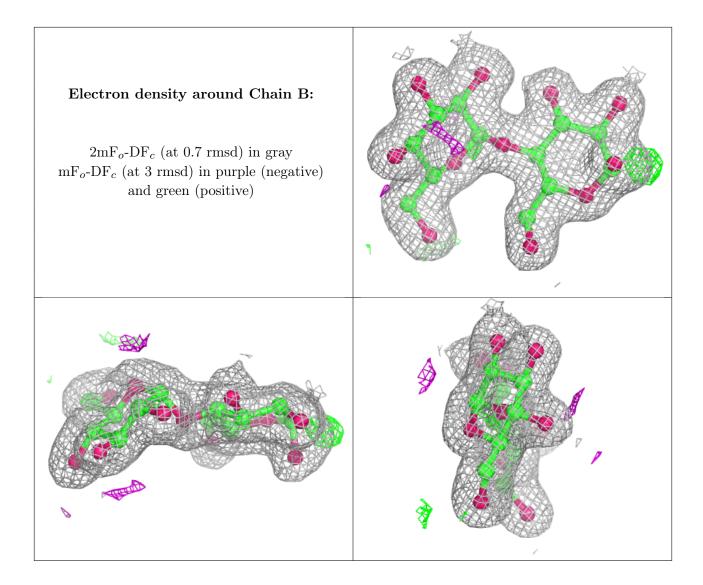
6.3 Carbohydrates (i)

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
2	GLC	В	1	12/12	0.96	0.07	21,28,36,37	0
2	GLC	В	2	11/12	0.97	0.10	22,23,25,27	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.





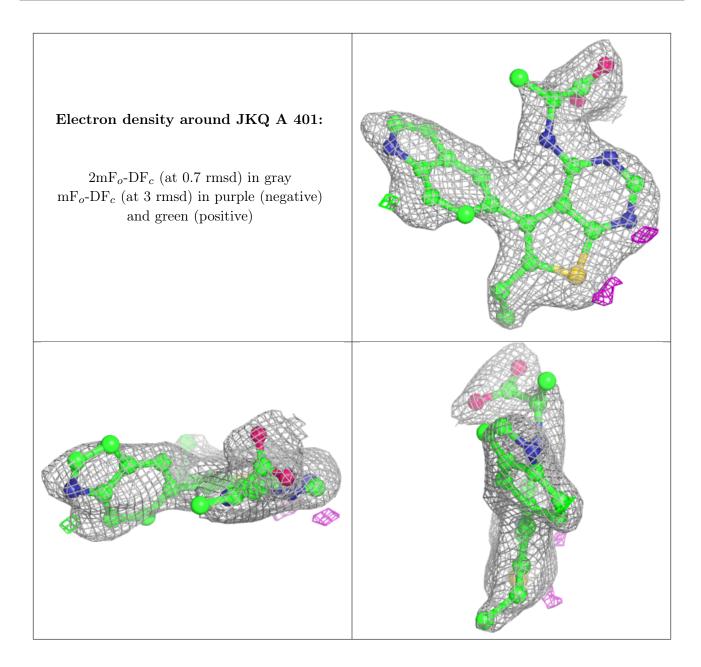
6.4 Ligands (i)

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	JKQ	A	401	26/26	0.88	0.13	54,66,77,79	0
4	NA	A	403	1/1	0.91	0.25	50,50,50,50	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.

