



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 12, 2023 – 04:27 PM EDT

PDB ID : 6WBH
Title : Crystal structure of mRECK(CC4) in fusion with engineered MBP at medium resolution
Authors : Chang, T.H.; Hsieh, F.L.; Gabelli, S.B.; Nathans, J.
Deposited on : 2020-03-26
Resolution : 2.46 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.35.1
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) : 2.35.1

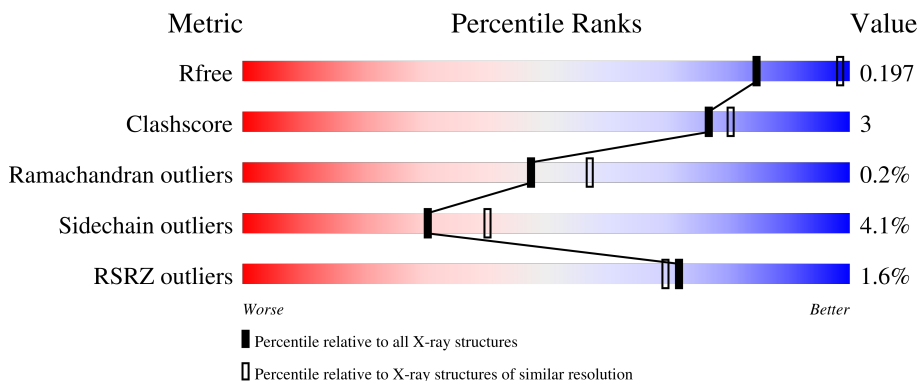
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.46 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	1544 (2.48-2.44)
Clashscore	141614	1613 (2.48-2.44)
Ramachandran outliers	138981	1598 (2.48-2.44)
Sidechain outliers	138945	1598 (2.48-2.44)
RSRZ outliers	127900	1523 (2.48-2.44)

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	447	 2% 83% 12% . .
2	B	2	 100%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6880 atoms, of which 3300 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 Maltodextrin-binding protein, Reversion-inducing cysteine-rich protein with Kazal motifs fusion.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	431	6615	2134	3279	550	637	15	0	2	0

There are 29 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP A0A376KDN7
A	2	ALA	-	expression tag	UNP A0A376KDN7
A	3	LYS	-	expression tag	UNP A0A376KDN7
A	4	THR	-	expression tag	UNP A0A376KDN7
A	84	ALA	ASP	engineered mutation	UNP A0A376KDN7
A	85	ALA	LYS	engineered mutation	UNP A0A376KDN7
A	174	ALA	GLU	engineered mutation	UNP A0A376KDN7
A	175	ALA	ASN	engineered mutation	UNP A0A376KDN7
A	217	HIS	ALA	engineered mutation	UNP A0A376KDN7
A	221	HIS	LYS	engineered mutation	UNP A0A376KDN7
A	241	ALA	LYS	engineered mutation	UNP A0A376KDN7
A	314	VAL	ALA	engineered mutation	UNP A0A376KDN7
A	319	VAL	ILE	engineered mutation	UNP A0A376KDN7
A	364	ALA	LYS	engineered mutation	UNP A0A376KDN7
A	365	ALA	ASP	engineered mutation	UNP A0A376KDN7
A	369	ASN	-	linker	UNP A0A376KDN7
A	370	ALA	-	linker	UNP A0A376KDN7
A	371	ALA	-	linker	UNP A0A376KDN7
A	372	ALA	-	linker	UNP A0A376KDN7
A	438	GLY	-	expression tag	UNP Q9Z0J1
A	439	THR	-	expression tag	UNP Q9Z0J1
A	440	HIS	-	expression tag	UNP Q9Z0J1
A	441	HIS	-	expression tag	UNP Q9Z0J1
A	442	HIS	-	expression tag	UNP Q9Z0J1
A	443	HIS	-	expression tag	UNP Q9Z0J1
A	444	HIS	-	expression tag	UNP Q9Z0J1

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Chain	Residue	Modelled	Actual	Comment	Reference
A	445	HIS	-	expression tag	UNP Q9Z0J1
A	446	HIS	-	expression tag	UNP Q9Z0J1
A	447	HIS	-	expression tag	UNP Q9Z0J1

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	H	O			
2	B	2	44	12	21	11	0	0	0

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

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

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

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

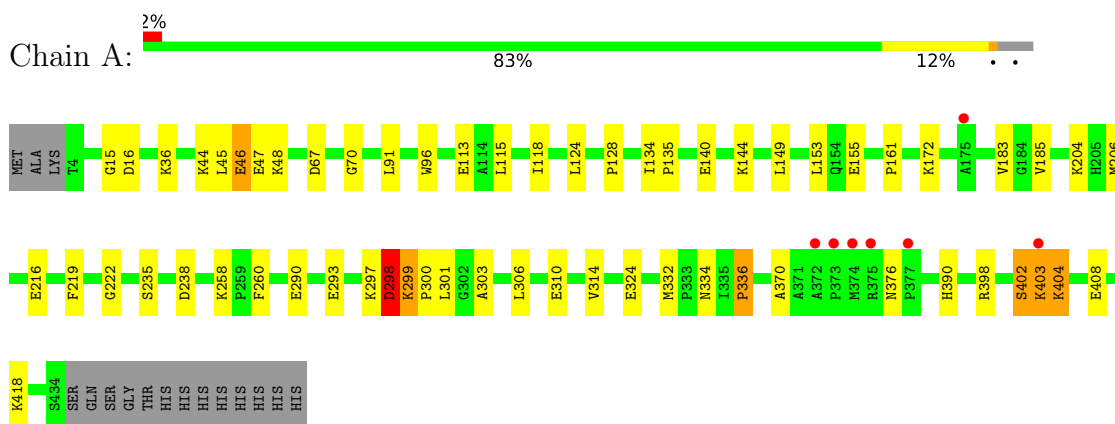
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	218	Total	O	0	0
			218	218		

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: Maltodextrin-binding protein, Reversion-inducing cysteine-rich protein with Kazal motifs fusion



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



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	80.22Å 110.60Å 57.79Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.53 – 2.46 45.53 – 2.45	Depositor EDS
% Data completeness (in resolution range)	97.8 (45.53-2.46) 97.8 (45.53-2.45)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.28 (at 2.45Å)	Xtrriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.194 , 0.220 0.197 , 0.197	Depositor DCC
R_{free} test set	931 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	18.4	Xtrriage
Anisotropy	0.438	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 36.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	6880	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.72% 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, CL, 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	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	1.14	31/3420 (0.9%)	0.81	3/4650 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3

All (31) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	155	GLU	CD-OE2	-12.76	1.11	1.25
1	A	336	PRO	N-CA	12.38	1.68	1.47
1	A	310	GLU	CD-OE2	-11.17	1.13	1.25
1	A	155	GLU	CD-OE1	-10.06	1.14	1.25
1	A	293	GLU	CD-OE2	-9.66	1.15	1.25
1	A	113	GLU	CD-OE2	-9.42	1.15	1.25
1	A	113	GLU	CD-OE1	-9.37	1.15	1.25
1	A	376	ASN	C-N	9.14	1.51	1.34
1	A	332	MET	C-N	8.37	1.50	1.34
1	A	310	GLU	CD-OE1	-8.36	1.16	1.25
1	A	293	GLU	CD-OE1	-6.86	1.18	1.25
1	A	46	GLU	CD-OE1	-6.65	1.18	1.25
1	A	298	ASP	CG-OD2	-6.55	1.10	1.25
1	A	216	GLU	CD-OE1	-6.49	1.18	1.25
1	A	216	GLU	CD-OE2	-6.37	1.18	1.25
1	A	46	GLU	CD-OE2	-6.01	1.19	1.25
1	A	298	ASP	CG-OD1	-5.99	1.11	1.25
1	A	67	ASP	CG-OD2	-5.96	1.11	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	153	LEU	C-O	-5.90	1.12	1.23
1	A	238	ASP	CG-OD2	-5.87	1.11	1.25
1	A	235	SER	CA-CB	-5.82	1.44	1.52
1	A	161	PRO	C-O	-5.80	1.11	1.23
1	A	15	GLY	C-O	-5.51	1.14	1.23
1	A	303	ALA	C-O	-5.40	1.13	1.23
1	A	300	PRO	C-O	-5.38	1.12	1.23
1	A	46	GLU	C-O	-5.32	1.13	1.23
1	A	301	LEU	C-O	-5.28	1.13	1.23
1	A	306	LEU	C-O	-5.22	1.13	1.23
1	A	222	GLY	C-O	-5.21	1.15	1.23
1	A	324	GLU	CD-OE1	-5.09	1.20	1.25
1	A	115	LEU	C-O	-5.01	1.13	1.23

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	332	MET	O-C-N	-6.54	108.68	121.10
1	A	336	PRO	CA-N-CD	-5.56	103.72	111.50
1	A	298	ASP	CB-CA-C	5.29	120.98	110.40

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	298	ASP	Mainchain
1	A	299[A]	LYS	Mainchain

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	3336	3279	3279	20	1
2	B	23	21	17	0	0
3	A	1	0	0	0	0
4	A	2	0	0	0	0
5	A	218	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	3580	3300	3296	20	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 3.

All (20) 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:336:PRO:N	1:A:336:PRO:CA	1.68	1.44
1:A:404:LYS:HG2	1:A:408:GLU:HB3	1.39	1.02
1:A:140:GLU:OE1	1:A:144:LYS:NZ	1.95	0.98
1:A:404:LYS:CG	1:A:408:GLU:HB3	2.17	0.75
1:A:404:LYS:HG2	1:A:408:GLU:CB	2.19	0.72
1:A:402:SER:O	1:A:402:SER:OG	2.09	0.69
1:A:91:LEU:HD12	1:A:96:TRP:CZ2	2.35	0.62
1:A:47:GLU:OE1	1:A:47:GLU:HA	2.05	0.56
1:A:403:LYS:HG2	1:A:403:LYS:O	2.08	0.54
1:A:336:PRO:N	1:A:336:PRO:C	2.54	0.53
1:A:46:GLU:OE1	1:A:46:GLU:N	2.39	0.46
1:A:149:LEU:HG	1:A:206:MET:HE2	1.98	0.44
1:A:118:ILE:HG22	1:A:219:PHE:CZ	2.52	0.44
1:A:398:ARG:O	1:A:402:SER:HB3	2.18	0.43
1:A:16:ASP:O	1:A:299[B]:LYS:HE2	2.19	0.42
1:A:134:ILE:N	1:A:135:PRO:CD	2.82	0.41
1:A:124:LEU:HD21	1:A:128:PRO:HD3	2.02	0.41
1:A:183:VAL:HG11	1:A:370:ALA:HB3	2.02	0.41
1:A:183:VAL:HG12	1:A:185:VAL:HG22	2.02	0.41
1:A:70:GLY:HA3	1:A:334:ASN:O	2.21	0.40

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	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:GLU:OE1	1:A:418:LYS:HZ3[1_556]	1.56	0.04

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	431/447 (96%)	421 (98%)	9 (2%)	1 (0%)	47 57

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	298	ASP

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	346/358 (97%)	332 (96%)	14 (4%)	31 41

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	LYS
1	A	44	LYS
1	A	45	LEU
1	A	48	LYS
1	A	172	LYS
1	A	204	LYS
1	A	258	LYS
1	A	260	PHE
1	A	297	LYS
1	A	314	VAL

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Mol	Chain	Res	Type
1	A	390	HIS
1	A	402	SER
1	A	403	LYS
1	A	404	LYS

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](#)

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		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GLC	B	1	2	12,12,12	1.73	5 (41%)	17,17,17	1.55	3 (17%)
2	GLC	B	2	2	11,11,12	2.53	5 (45%)	15,15,17	2.34	7 (46%)

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	GLC	B	1	2	-	2/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GLC	B	2	2	-	2/2/19/22	0/1/1/1

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2	GLC	O5-C1	-5.32	1.35	1.43
2	B	2	GLC	O5-C5	-3.49	1.36	1.43
2	B	2	GLC	O4-C4	-3.22	1.35	1.43
2	B	1	GLC	O3-C3	-3.16	1.35	1.43
2	B	2	GLC	O2-C2	-2.90	1.37	1.43
2	B	1	GLC	O2-C2	-2.60	1.36	1.43
2	B	1	GLC	O5-C5	-2.31	1.38	1.44
2	B	2	GLC	O3-C3	-2.30	1.37	1.43
2	B	1	GLC	O5-C1	-2.11	1.37	1.42
2	B	1	GLC	C4-C3	-2.10	1.47	1.52

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2	GLC	O5-C1-C2	-5.04	102.99	110.77
2	B	1	GLC	O5-C5-C4	3.59	116.21	109.69
2	B	2	GLC	O6-C6-C5	-3.33	99.86	111.29
2	B	2	GLC	C1-O5-C5	3.22	116.56	112.19
2	B	2	GLC	O5-C5-C6	3.17	112.17	107.20
2	B	2	GLC	C1-C2-C3	-2.55	106.54	109.67
2	B	1	GLC	C6-C5-C4	-2.48	107.19	113.00
2	B	1	GLC	O3-C3-C4	-2.37	104.86	110.35
2	B	2	GLC	O2-C2-C1	2.22	113.69	109.15
2	B	2	GLC	O3-C3-C2	2.10	114.01	109.99

There are no chirality outliers.

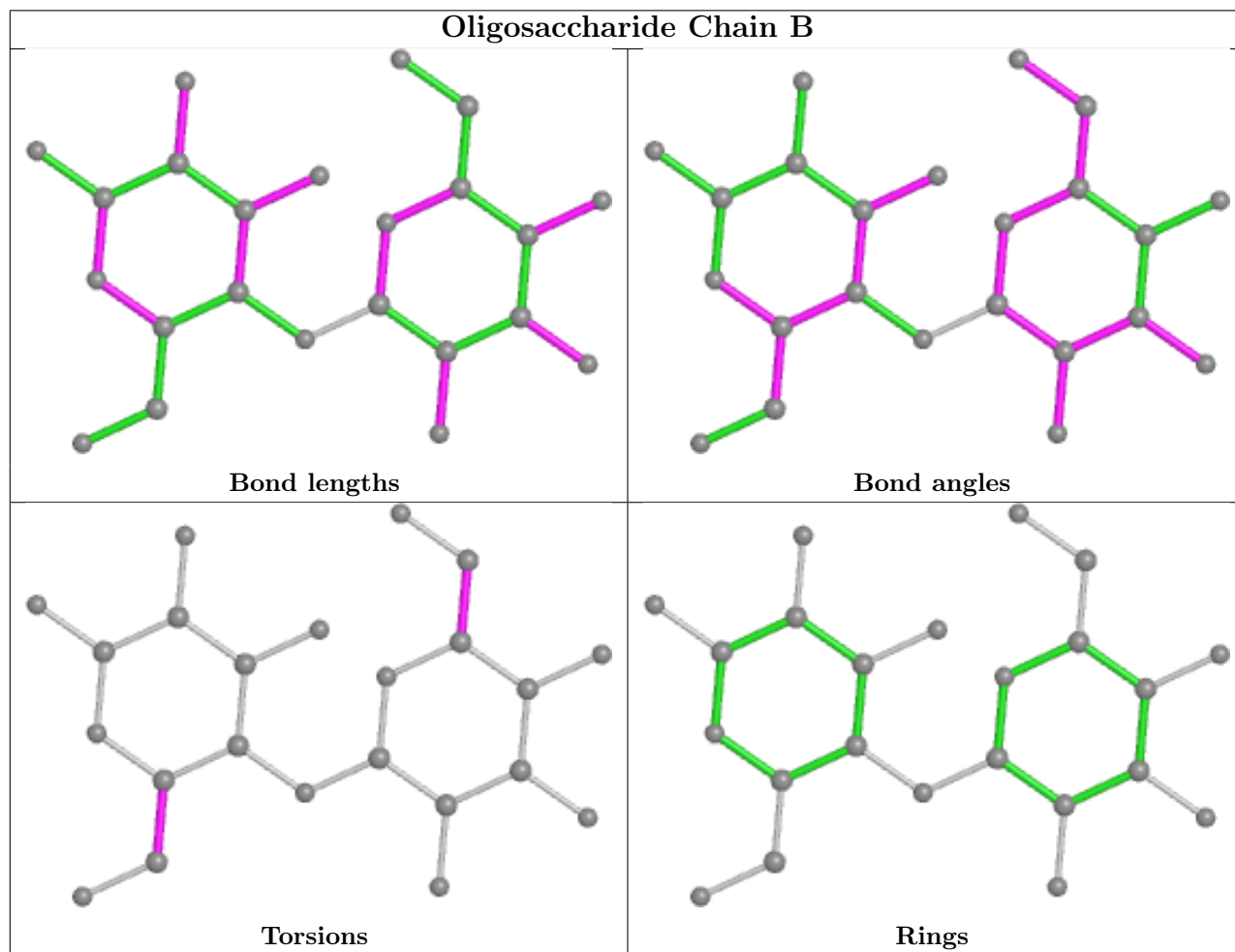
All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1	GLC	C4-C5-C6-O6
2	B	2	GLC	C4-C5-C6-O6
2	B	1	GLC	O5-C5-C6-O6
2	B	2	GLC	O5-C5-C6-O6

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 3 ligands modelled in this entry, 3 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 [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, 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	431/447 (96%)	-0.20	7 (1%) 72 69	8, 18, 50, 102	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	375	ARG	4.3
1	A	403	LYS	3.8
1	A	377	PRO	3.4
1	A	374	MET	3.3
1	A	373	PRO	3.0
1	A	372	ALA	2.7
1	A	175	ALA	2.2

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

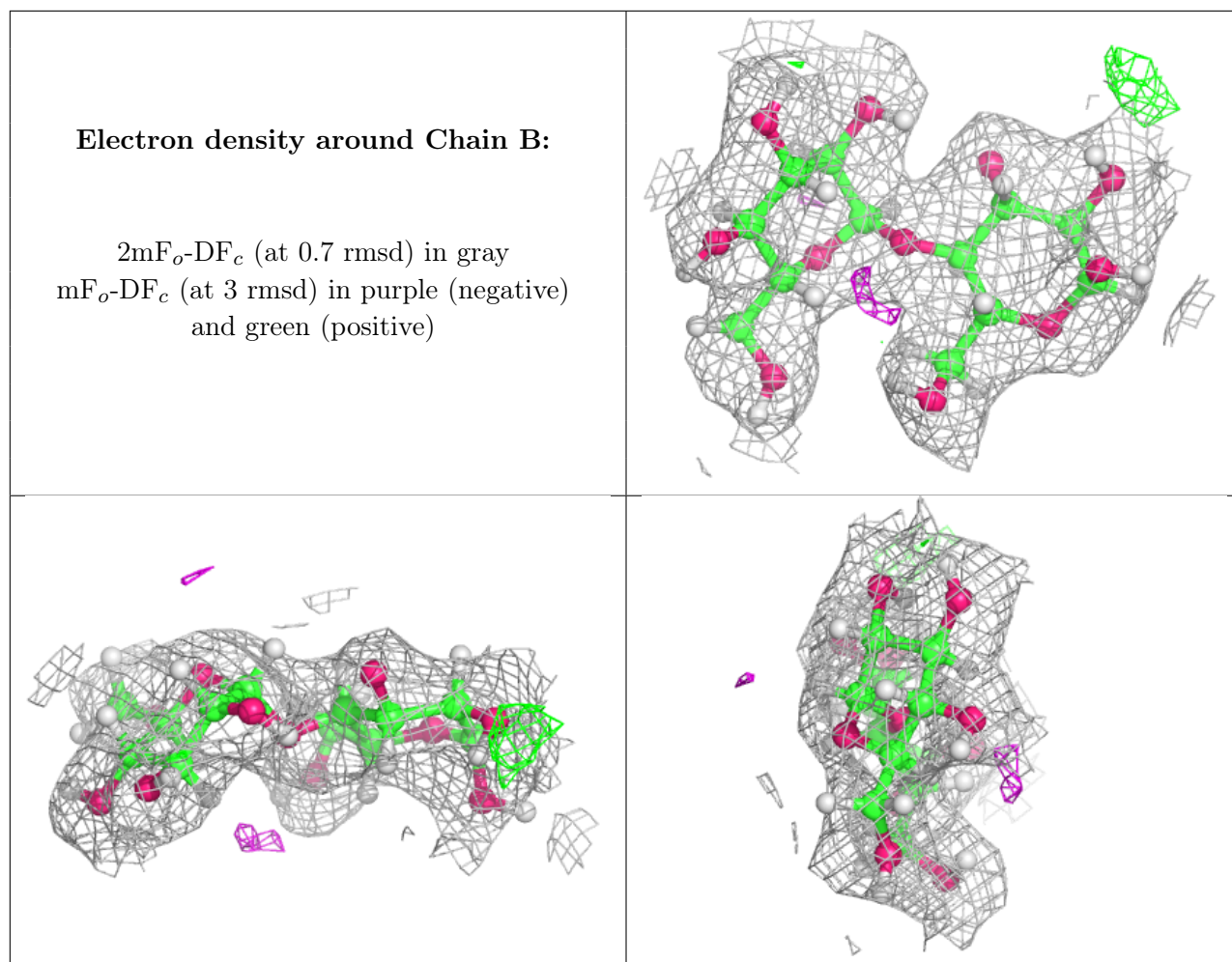
There are no non-standard protein/DNA/RNA residues in this entry.

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, 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	GLC	B	1	12/12	0.94	0.14	11,16,20,24	0
2	GLC	B	2	11/12	0.95	0.13	12,14,17,17	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](#)

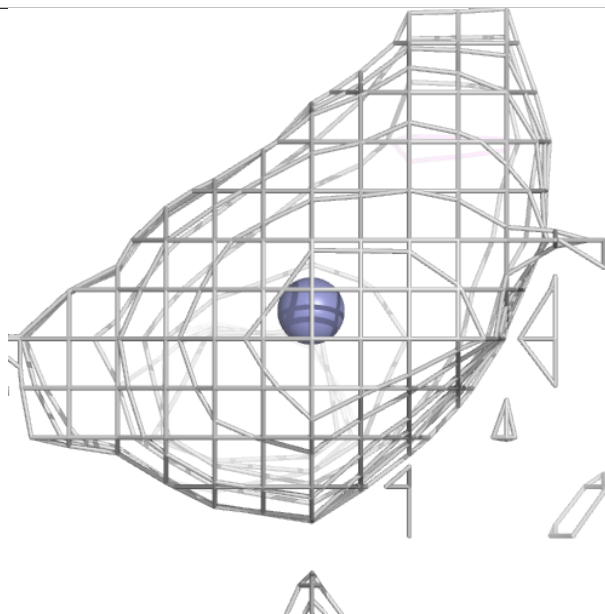
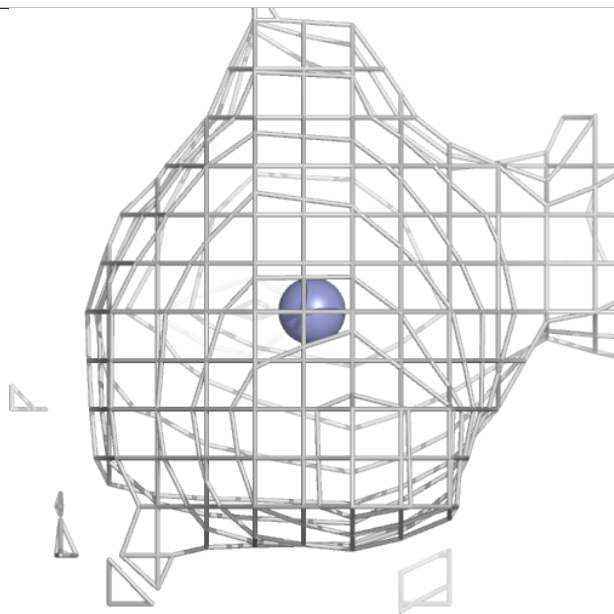
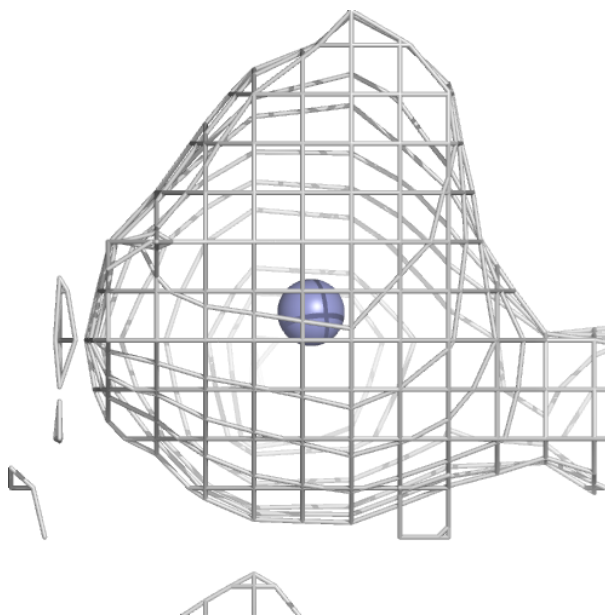
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	ZN	A	504	1/1	0.90	0.16	82,82,82,82	0
3	CL	A	502	1/1	0.92	0.08	34,34,34,34	0
4	ZN	A	503	1/1	0.97	0.10	11,11,11,11	1

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.

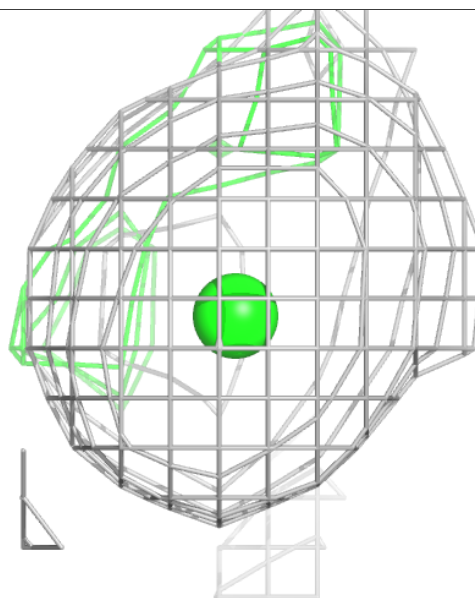
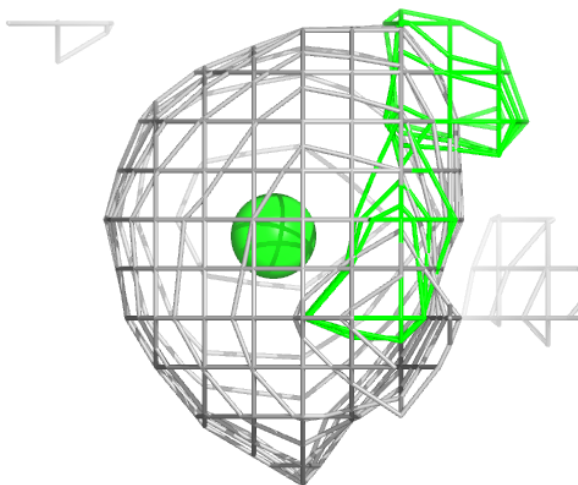
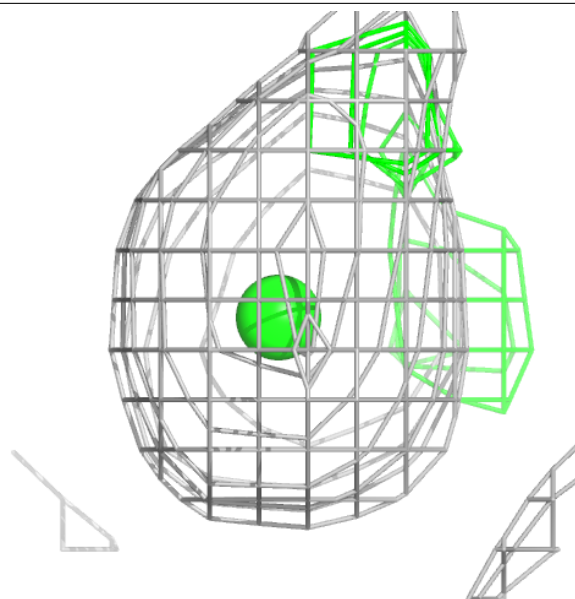
Electron density around ZN A 504:

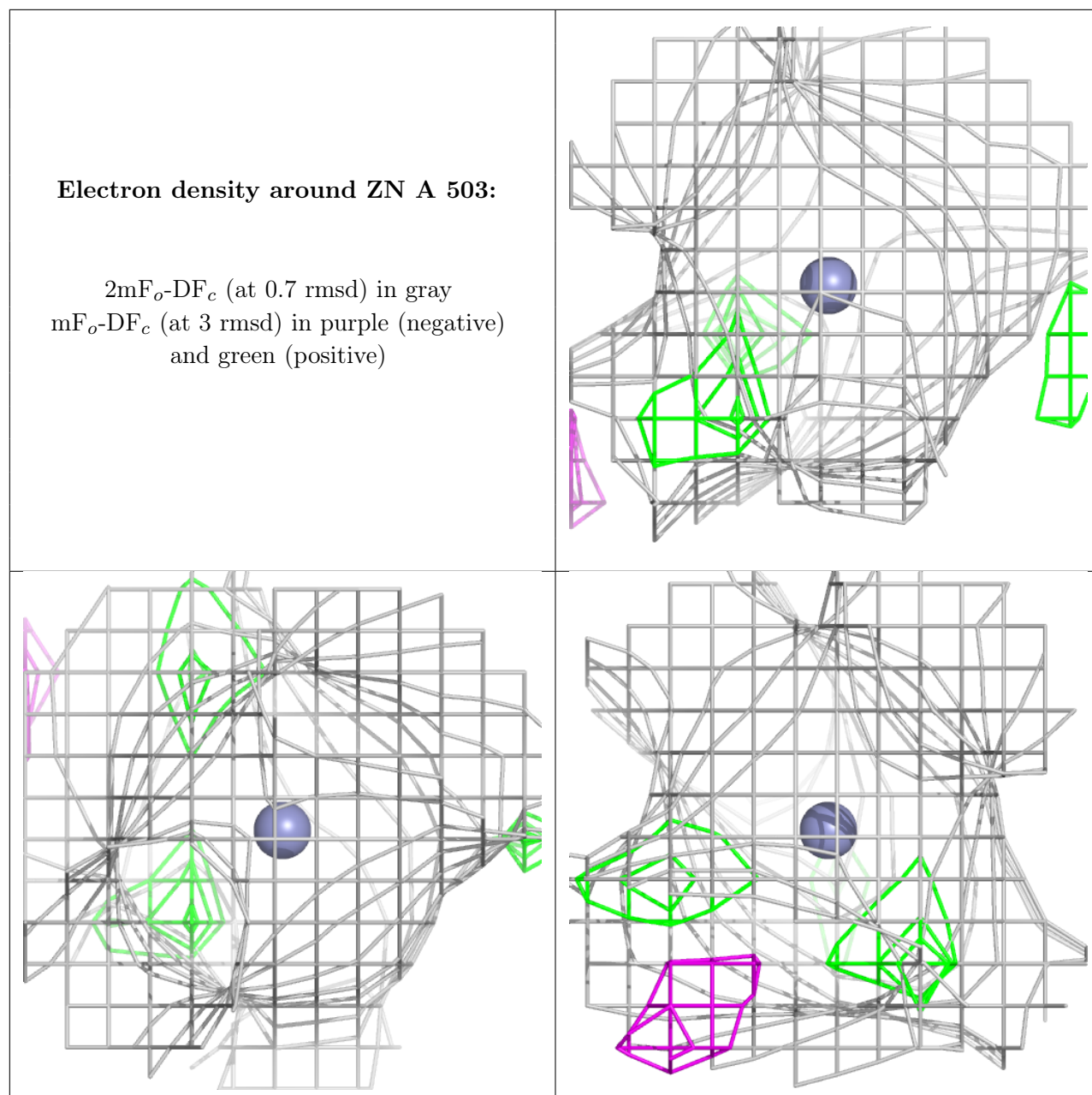
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CL A 502:

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





6.5 Other polymers [i](#)

There are no such residues in this entry.