



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2024 – 05:06 PM JST

PDB ID : 5GPP
Title : Crystal structure of zebrafish ASC PYD domain
Authors : Jin, T.; Li, Y.
Deposited on : 2016-08-04
Resolution : 2.00 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 : 2.36
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

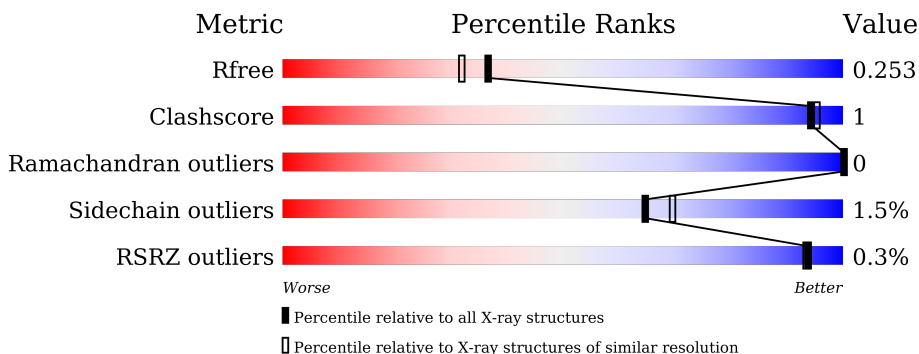
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	468	96% (Green bar, 4% Yellow, 0% Red, 0% Grey)
1	B	468	95% (Green bar, 5% Yellow, 0% Red, 0% Grey)
2	C	2	50% (Green bar), 50% (Yellow bar)
2	D	2	50% (Green bar), 50% (Yellow bar)

2 Entry composition i

There are 5 unique types of molecules in this entry. The entry contains 7797 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, Apoptosis-associated speck-like protein containing a CARD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	461	3561	2279	591	682	9	0	1	0
1	B	462	3585	2293	597	686	9	0	3	0

There are 58 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP P0AEY0
A	83	ALA	ASP	engineered mutation	UNP P0AEY0
A	84	ALA	LYS	engineered mutation	UNP P0AEY0
A	173	ALA	GLU	engineered mutation	UNP P0AEY0
A	174	ALA	ASN	engineered mutation	UNP P0AEY0
A	240	ALA	LYS	engineered mutation	UNP P0AEY0
A	360	ALA	-	linker	UNP P0AEY0
A	361	ALA	-	linker	UNP P0AEY0
A	362	LEU	-	linker	UNP P0AEY0
A	363	ALA	-	linker	UNP P0AEY0
A	364	ALA	-	linker	UNP P0AEY0
A	365	ALA	-	linker	UNP P0AEY0
A	366	GLN	-	linker	UNP P0AEY0
A	367	THR	-	linker	UNP P0AEY0
A	368	ASN	-	linker	UNP P0AEY0
A	369	ALA	-	linker	UNP P0AEY0
A	370	ALA	-	linker	UNP P0AEY0
A	371	ARG	-	linker	UNP P0AEY0
A	372	ALA	-	linker	UNP P0AEY0
A	373	ALA	-	linker	UNP P0AEY0
A	374	ALA	-	linker	UNP P0AEY0
A	461	LEU	-	expression tag	UNP Q9I9N6
A	462	GLU	-	expression tag	UNP Q9I9N6
A	463	HIS	-	expression tag	UNP Q9I9N6

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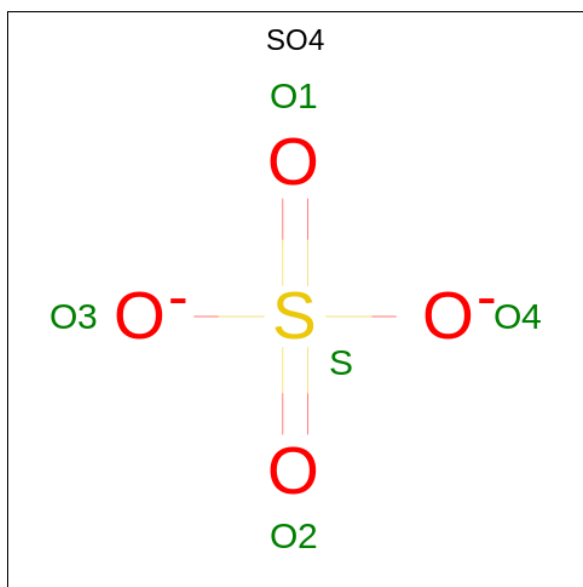
Chain	Residue	Modelled	Actual	Comment	Reference
A	464	HIS	-	expression tag	UNP Q9I9N6
A	465	HIS	-	expression tag	UNP Q9I9N6
A	466	HIS	-	expression tag	UNP Q9I9N6
A	467	HIS	-	expression tag	UNP Q9I9N6
A	468	HIS	-	expression tag	UNP Q9I9N6
B	1	MET	-	expression tag	UNP P0AEY0
B	83	ALA	ASP	engineered mutation	UNP P0AEY0
B	84	ALA	LYS	engineered mutation	UNP P0AEY0
B	173	ALA	GLU	engineered mutation	UNP P0AEY0
B	174	ALA	ASN	engineered mutation	UNP P0AEY0
B	240	ALA	LYS	engineered mutation	UNP P0AEY0
B	360	ALA	-	linker	UNP P0AEY0
B	361	ALA	-	linker	UNP P0AEY0
B	362	LEU	-	linker	UNP P0AEY0
B	363	ALA	-	linker	UNP P0AEY0
B	364	ALA	-	linker	UNP P0AEY0
B	365	ALA	-	linker	UNP P0AEY0
B	366	GLN	-	linker	UNP P0AEY0
B	367	THR	-	linker	UNP P0AEY0
B	368	ASN	-	linker	UNP P0AEY0
B	369	ALA	-	linker	UNP P0AEY0
B	370	ALA	-	linker	UNP P0AEY0
B	371	ARG	-	linker	UNP P0AEY0
B	372	ALA	-	linker	UNP P0AEY0
B	373	ALA	-	linker	UNP P0AEY0
B	374	ALA	-	linker	UNP P0AEY0
B	461	LEU	-	expression tag	UNP Q9I9N6
B	462	GLU	-	expression tag	UNP Q9I9N6
B	463	HIS	-	expression tag	UNP Q9I9N6
B	464	HIS	-	expression tag	UNP Q9I9N6
B	465	HIS	-	expression tag	UNP Q9I9N6
B	466	HIS	-	expression tag	UNP Q9I9N6
B	467	HIS	-	expression tag	UNP Q9I9N6
B	468	HIS	-	expression tag	UNP Q9I9N6

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



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

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	A	1	Total C O 4 2 2	0	0
4	B	1	Total C O 4 2 2	0	0
4	B	1	Total C O 4 2 2	0	0

- Molecule 5 is water.

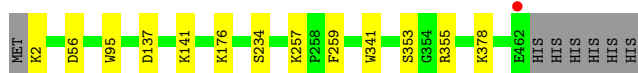
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	290	Total O 290 290	0	0
5	B	266	Total O 266 266	0	0

3 Residue-property plots

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, Apoptosis-associated speck-like protein containing a CARD

Chain A:  96%



- Molecule 1: Maltose-binding periplasmic protein, Apoptosis-associated speck-like protein containing a CARD

Chain B:  95%



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

Chain C:  50%



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

Chain D:  50%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	51.31Å 121.28Å 176.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.26 – 2.00 47.25 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.4 (47.26-2.00) 93.2 (47.25-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.54 (at 2.00Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.201 , 0.252 0.202 , 0.253	Depositor DCC
R_{free} test set	1999 reflections (2.65%)	wwPDB-VP
Wilson B-factor (Å ²)	29.5	Xtrriage
Anisotropy	0.143	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 78.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7797	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.12% 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: ACT, SO4, 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	0.63	2/3636 (0.1%)	0.62	0/4930
1	B	0.62	3/3664 (0.1%)	0.62	0/4968
All	All	0.63	5/7300 (0.1%)	0.62	0/9898

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	289	GLU	CD-OE1	-10.05	1.14	1.25
1	B	289	GLU	CD-OE2	-8.32	1.16	1.25
1	B	253	GLY	C-N	7.29	1.50	1.34
1	A	341	TRP	CB-CG	5.57	1.60	1.50
1	A	95	TRP	CB-CG	5.19	1.59	1.50

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	3561	0	3552	5	0
1	B	3585	0	3572	14	0
2	C	23	0	21	0	0
2	D	23	0	21	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	10	0	0	0	0
3	B	15	0	0	0	0
4	A	16	0	8	0	0
4	B	8	0	6	0	0
5	A	290	0	0	1	0
5	B	266	0	0	6	0
All	All	7797	0	7180	19	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 1.

All (19) 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:B:4:GLU:HG3	1:B:7:LYS:HZ2	1.10	1.10
1:B:4:GLU:HG3	1:B:7:LYS:NZ	1.77	0.99
1:B:4:GLU:CG	1:B:7:LYS:NZ	2.59	0.62
1:B:190:LYS:NZ	5:B:602:HOH:O	2.28	0.61
1:A:2:LYS:HD2	1:A:56:ASP:HB3	1.83	0.60
1:B:4:GLU:H	1:B:4:GLU:CD	2.10	0.54
1:B:273:ASN:ND2	5:B:601:HOH:O	2.41	0.53
1:B:457:LEU:HB3	1:B:462:GLU:OE1	2.07	0.53
1:B:252:LYS:NZ	5:B:607:HOH:O	2.42	0.53
1:B:404:ARG:NE	5:B:609:HOH:O	2.45	0.49
1:B:27:LYS:NZ	5:B:608:HOH:O	2.44	0.49
1:B:7:LYS:O	5:B:601:HOH:O	2.20	0.48
1:A:2:LYS:NZ	5:A:601:HOH:O	2.40	0.47
1:B:178:ASP:OD1	1:B:180:LYS:NZ	2.42	0.47
1:B:4:GLU:HG2	1:B:7:LYS:HG2	1.98	0.46
1:B:180:LYS:HE2	1:B:180:LYS:HB2	1.90	0.44
1:A:353:SER:OG	1:A:355:ARG:HG3	2.18	0.44
1:A:257:LYS:HB3	1:A:257:LYS:HE2	1.72	0.41
1:A:137:ASP:O	1:A:141:LYS:HG2	2.21	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	460/468 (98%)	449 (98%)	11 (2%)	0	100	100
1	B	463/468 (99%)	451 (97%)	12 (3%)	0	100	100
All	All	923/936 (99%)	900 (98%)	23 (2%)	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	365/371 (98%)	361 (99%)	4 (1%)	73	78
1	B	368/371 (99%)	361 (98%)	7 (2%)	57	61
All	All	733/742 (99%)	722 (98%)	11 (2%)	65	69

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

Mol	Chain	Res	Type
1	A	176	LYS
1	A	234	SER
1	A	259	PHE
1	A	378	LYS
1	B	4	GLU
1	B	41	PRO
1	B	88	ASP
1	B	176	LYS

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Mol	Chain	Res	Type
1	B	259	PHE
1	B	311	GLU
1	B	378	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](#)

4 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	C	1	2	12,12,12	0.60	0	17,17,17	0.98	0
2	GLC	C	2	2	11,11,12	0.73	0	15,15,17	1.40	2 (13%)
2	GLC	D	1	2	12,12,12	0.46	0	17,17,17	0.79	0
2	GLC	D	2	2	11,11,12	0.58	0	15,15,17	1.36	2 (13%)

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	C	1	2	-	0/2/22/22	0/1/1/1

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

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2	GLC	C1-O5-C5	3.00	116.25	112.19
2	C	2	GLC	O5-C5-C6	2.97	111.86	107.20
2	D	2	GLC	O5-C5-C6	2.64	111.35	107.20
2	C	2	GLC	C2-C3-C4	-2.45	106.65	110.89

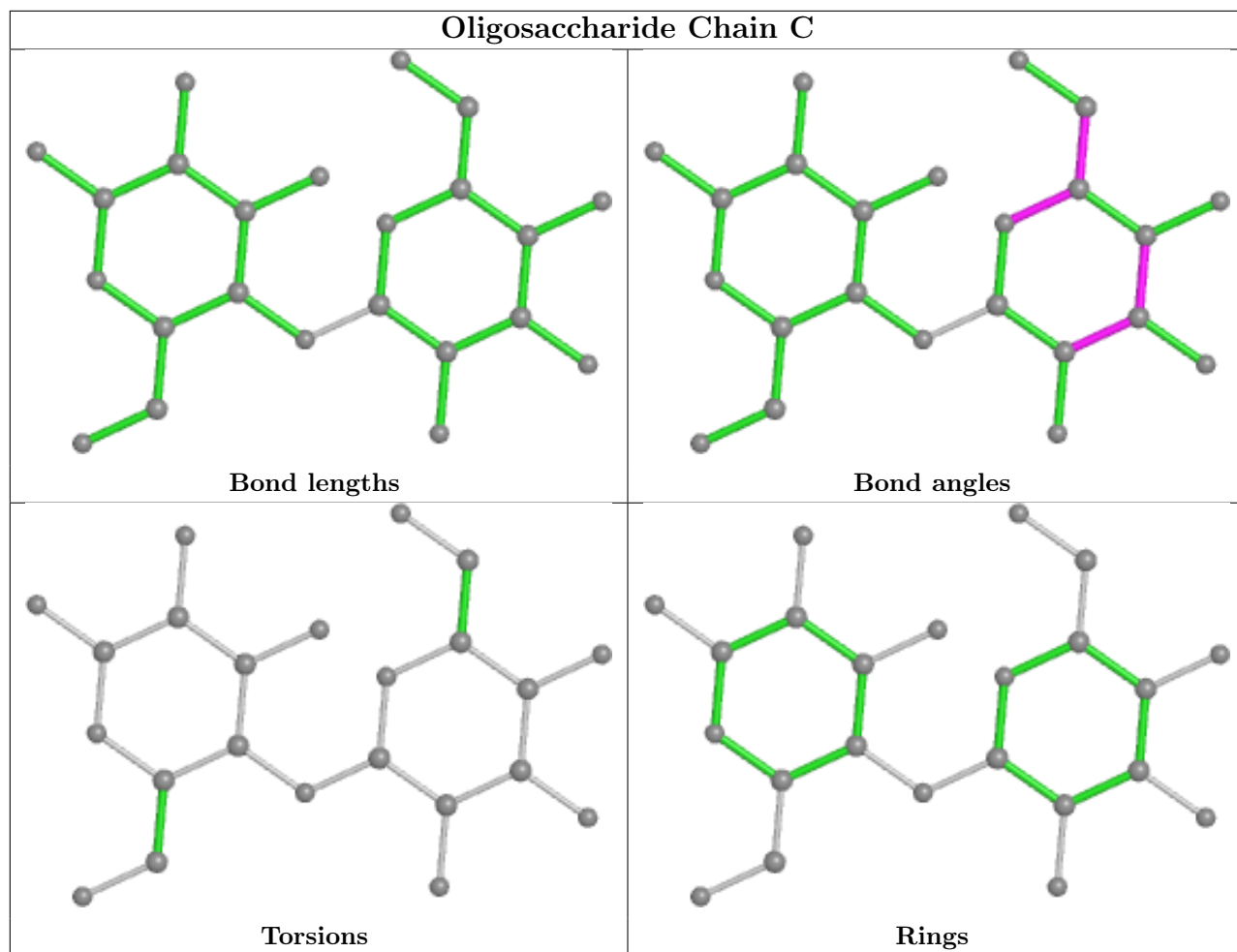
There are no chirality outliers.

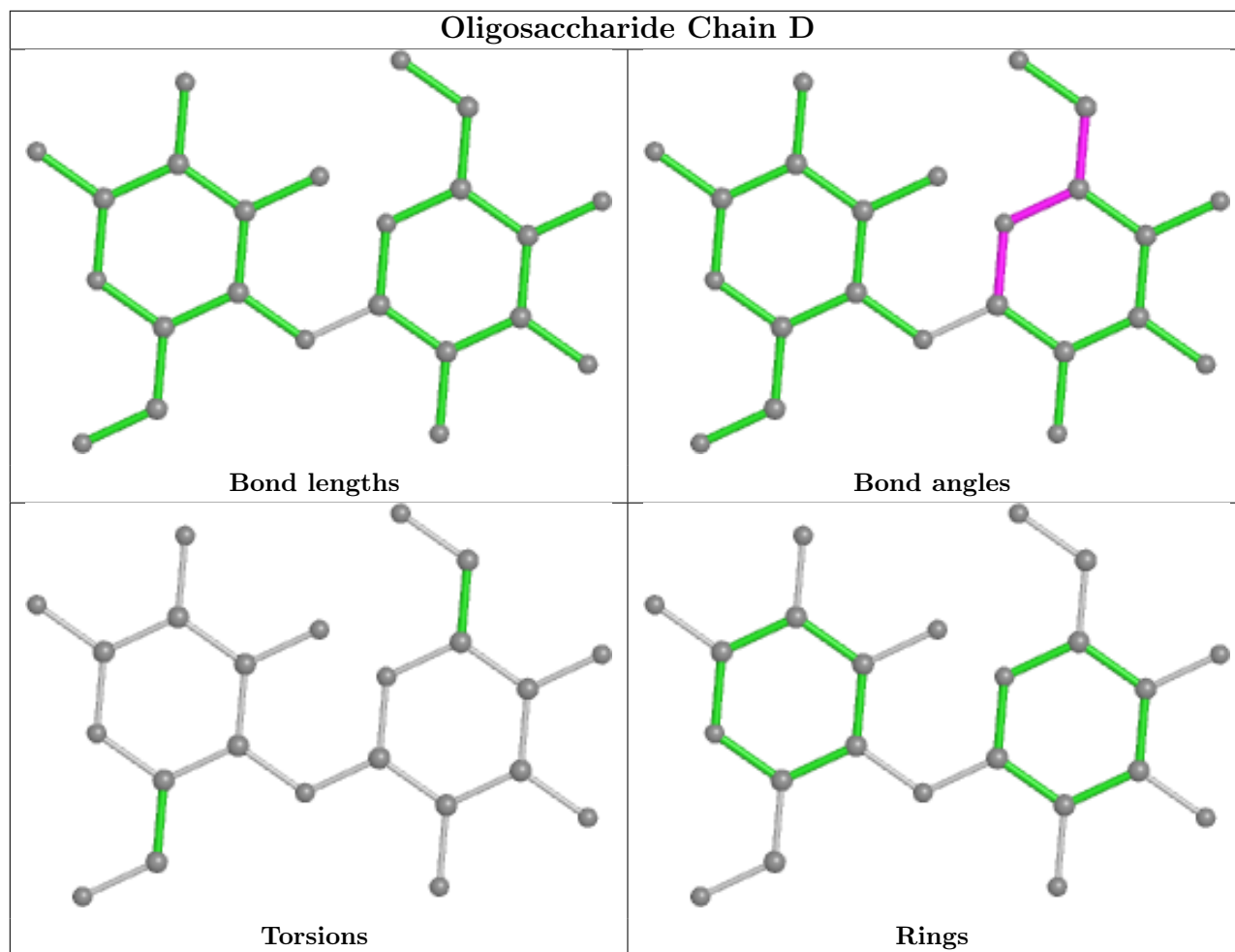
There are no torsion outliers.

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](#)

11 ligands 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	$\# Z > 2$
3	SO4	A	502	-	4,4,4	0.15	0	6,6,6	0.08	0
3	SO4	A	503	-	4,4,4	0.11	0	6,6,6	0.17	0
3	SO4	B	503	-	4,4,4	0.14	0	6,6,6	0.24	0
4	ACT	A	507	4	3,3,3	0.75	0	3,3,3	1.29	0
4	ACT	B	505	-	3,3,3	0.84	0	3,3,3	1.46	0
4	ACT	A	504	-	3,3,3	0.79	0	3,3,3	1.28	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	ACT	B	506	-	3,3,3	0.78	0	3,3,3	1.37	0
4	ACT	A	505	-	3,3,3	0.81	0	3,3,3	1.30	0
3	SO4	B	504	-	4,4,4	0.14	0	6,6,6	0.08	0
4	ACT	A	506	4	3,3,3	0.78	0	3,3,3	1.33	0
3	SO4	B	502	-	4,4,4	0.17	0	6,6,6	0.11	0

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 [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	461/468 (98%)	-0.35	1 (0%) 95 94	19, 32, 50, 71	0
1	B	462/468 (98%)	-0.38	2 (0%) 92 92	21, 34, 52, 63	0
All	All	923/936 (98%)	-0.37	3 (0%) 94 93	19, 33, 51, 71	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	462	GLU	2.7
1	B	310	GLU	2.2
1	A	462	GLU	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](#)

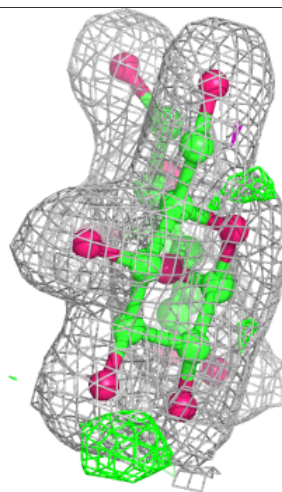
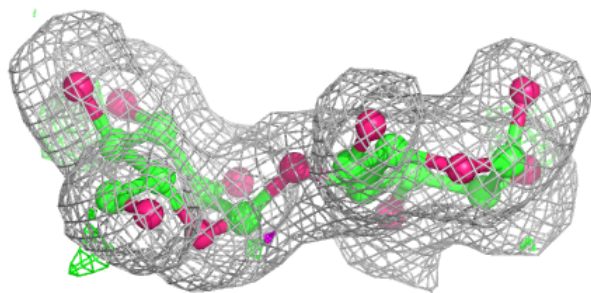
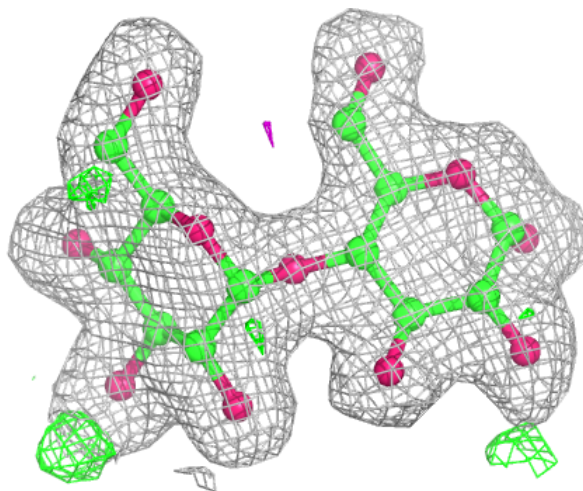
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists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

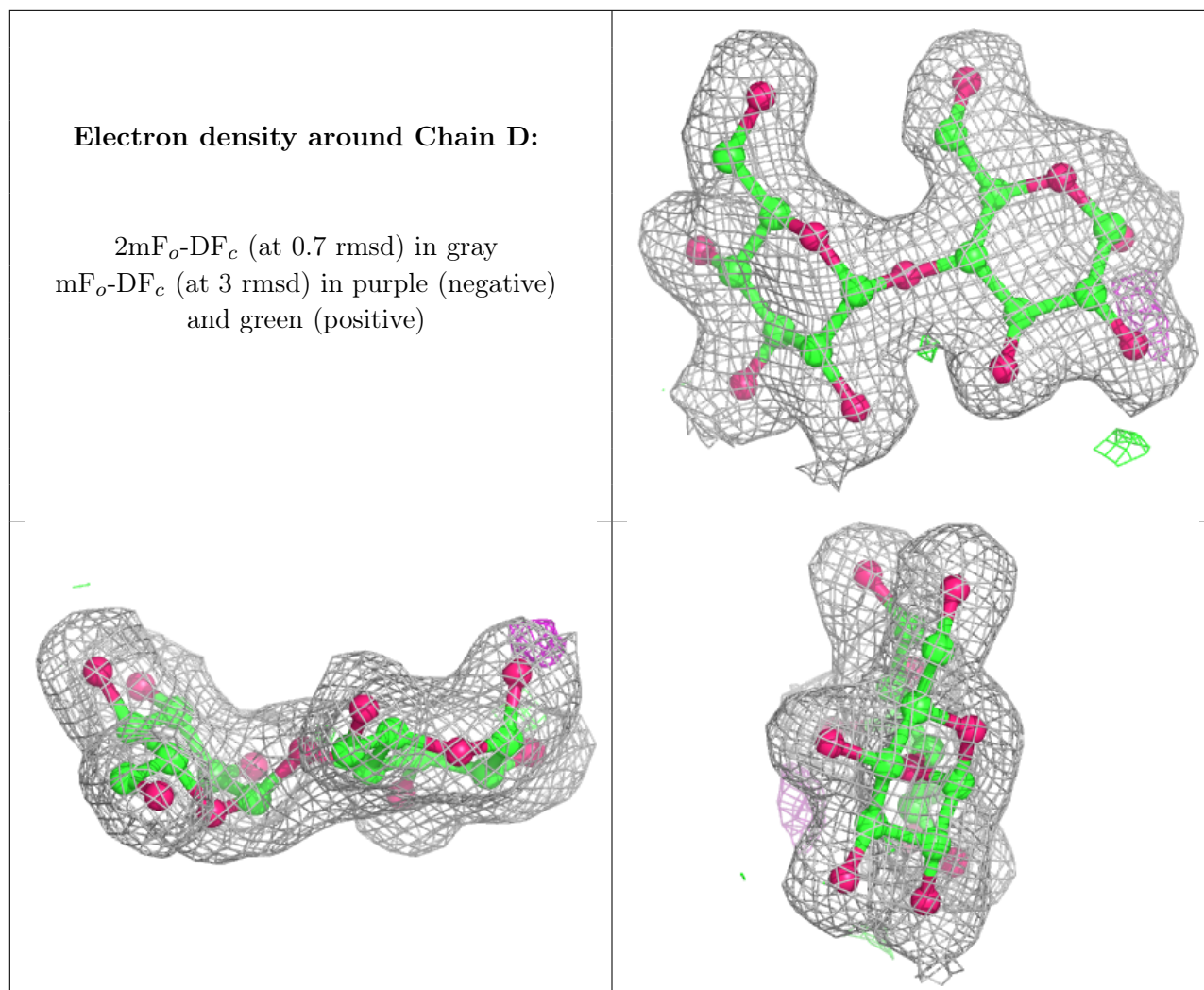
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GLC	C	1	12/12	0.96	0.10	19,26,31,32	0
2	GLC	C	2	11/12	0.96	0.12	17,19,21,23	0
2	GLC	D	1	12/12	0.97	0.09	25,30,36,37	0
2	GLC	D	2	11/12	0.99	0.08	19,23,26,26	0

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.

Electron density around Chain C:

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





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	ACT	A	507	4/4	0.72	0.32	72,76,79,82	0
4	ACT	A	506	4/4	0.82	0.22	64,71,74,79	0
3	SO4	A	503	5/5	0.84	0.15	55,56,79,81	0
4	ACT	A	505	4/4	0.86	0.17	53,59,60,63	0
4	ACT	B	505	4/4	0.89	0.11	42,43,45,52	0
4	ACT	B	506	4/4	0.90	0.11	58,59,62,62	0
3	SO4	B	503	5/5	0.91	0.16	60,62,73,80	0
3	SO4	B	504	5/5	0.92	0.23	69,72,84,84	0
4	ACT	A	504	4/4	0.94	0.10	55,59,59,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	SO4	A	502	5/5	0.96	0.09	55,56,67,67	0
3	SO4	B	502	5/5	0.96	0.08	49,51,58,64	0

6.5 Other polymers [i](#)

There are no such residues in this entry.