Full wwPDB X-ray Structure Validation Report (i)

Sep 17, 2023 – 11:02 AM EDT

PDB ID	:	4XHS
Title	:	Crystal structure of human NLRP12 PYD domain and implication in homotypic interaction
Authors	:	Jin, T.; Huang, M.; Jiang, J.; Xiao, T.
Deposited on	:	2015-01-06
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 (i)) were used in the production of this report:

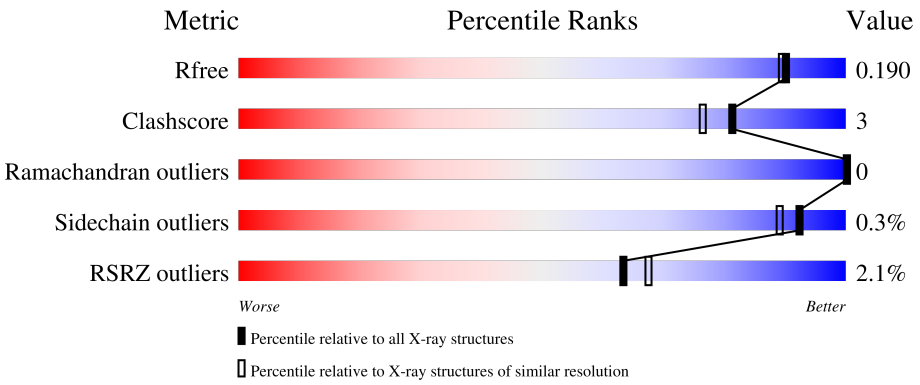
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (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 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
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	480	2%, 89%, 5%, 6%
1	B	480	2%, 88%, 7%, 5%
2	C	2	50%, 50%
2	D	2	50%, 50%

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 8321 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,NACHT, LRR and PYD domains-containing protein 12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	452	3579	2314	587	667	11	0	13	0
1	B	454	3596	2326	586	673	11	0	12	0

There are 50 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP P0AEY0
A	83	ALA	ASP	conflict	UNP P0AEY0
A	84	ALA	LYS	conflict	UNP P0AEY0
A	173	ALA	GLU	conflict	UNP P0AEY0
A	174	ALA	ASN	conflict	UNP P0AEY0
A	240	ALA	LYS	conflict	UNP P0AEY0
A	360	ALA	GLU	conflict	UNP P0AEY0
A	363	ALA	LYS	conflict	UNP P0AEY0
A	364	ALA	ASP	conflict	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	PHE	-	linker	UNP P0AEY0
A	374	ALA	-	linker	UNP P0AEY0
A	375	ALA	-	linker	UNP P0AEY0
A	376	ALA	-	linker	UNP P0AEY0
A	474	GLU	-	expression tag	UNP P59046
A	475	HIS	-	expression tag	UNP P59046
A	476	HIS	-	expression tag	UNP P59046
A	477	HIS	-	expression tag	UNP P59046
A	478	HIS	-	expression tag	UNP P59046
A	479	HIS	-	expression tag	UNP P59046

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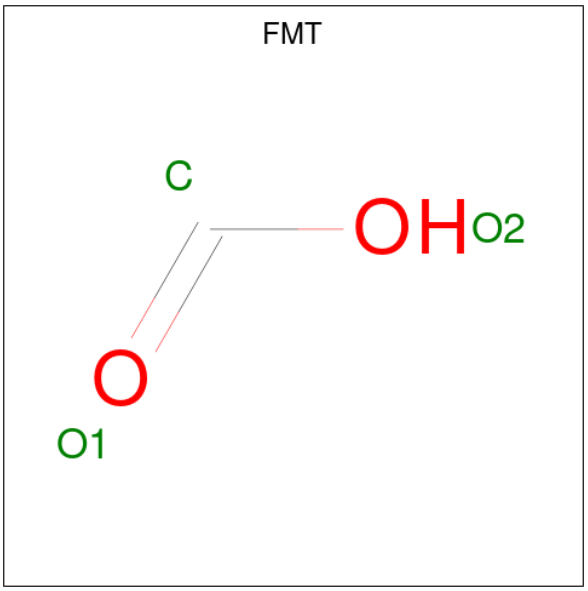
Chain	Residue	Modelled	Actual	Comment	Reference
A	480	HIS	-	expression tag	UNP P59046
B	1	MET	-	initiating methionine	UNP P0AEY0
B	83	ALA	ASP	conflict	UNP P0AEY0
B	84	ALA	LYS	conflict	UNP P0AEY0
B	173	ALA	GLU	conflict	UNP P0AEY0
B	174	ALA	ASN	conflict	UNP P0AEY0
B	240	ALA	LYS	conflict	UNP P0AEY0
B	360	ALA	GLU	conflict	UNP P0AEY0
B	363	ALA	LYS	conflict	UNP P0AEY0
B	364	ALA	ASP	conflict	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	PHE	-	linker	UNP P0AEY0
B	374	ALA	-	linker	UNP P0AEY0
B	375	ALA	-	linker	UNP P0AEY0
B	376	ALA	-	linker	UNP P0AEY0
B	474	GLU	-	expression tag	UNP P59046
B	475	HIS	-	expression tag	UNP P59046
B	476	HIS	-	expression tag	UNP P59046
B	477	HIS	-	expression tag	UNP P59046
B	478	HIS	-	expression tag	UNP P59046
B	479	HIS	-	expression tag	UNP P59046
B	480	HIS	-	expression tag	UNP P59046

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

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

- Molecule 3 is FORMIC ACID (three-letter code: FMT) (formula: CH_2O_2).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 3 1 2	0	0
3	A	1	Total C O 3 1 2	0	0
3	B	1	Total C O 3 1 2	0	0
3	B	1	Total C O 3 1 2	0	0

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total Na 2 2	0	0
4	B	5	Total Na 5 5	0	0

- Molecule 5 is water.

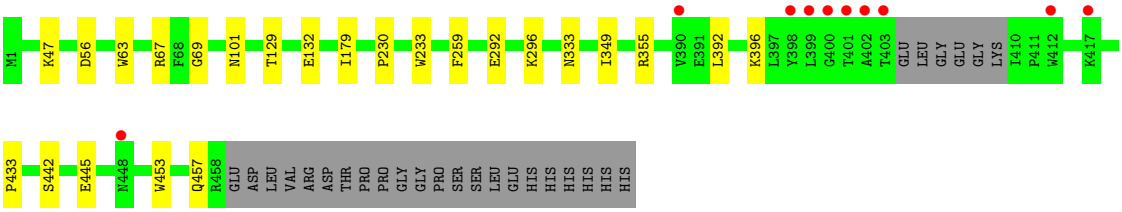
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	551	Total O 551 551	0	0
5	B	530	Total O 530 530	0	0

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.

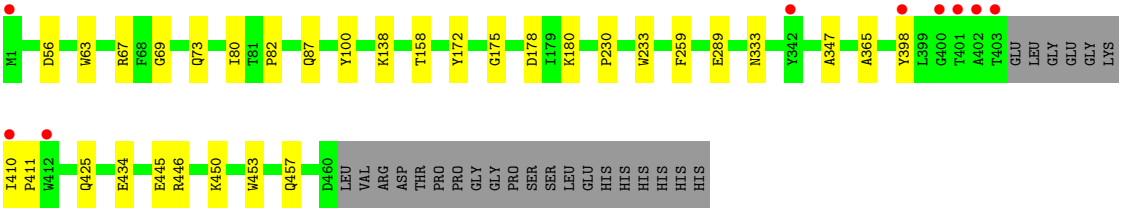
• Molecule 1: Maltose-binding periplasmic protein,NACHT, LRR and PYD domains-containing protein 12

Chain A:



• Molecule 1: Maltose-binding periplasmic protein,NACHT, LRR and PYD domains-containing protein 12

Chain B:



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

Chain C:

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

Chain D:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 2 21 21	Depositor
Cell constants a, b, c, α, β, γ	52.72Å 103.62Å 186.74Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.99 – 1.70 46.99 – 1.70	Depositor EDS
% Data completeness (in resolution range)	94.8 (46.99-1.70) 90.1 (46.99-1.70)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.36 (at 1.70Å)	Xtriage
Refinement program	PHENIX 1.9_1683	Depositor
R, R_{free}	0.160 , 0.190 0.161 , 0.190	Depositor DCC
R_{free} test set	1892 reflections (1.80%)	wwPDB-VP
Wilson B-factor (Å^2)	19.4	Xtriage
Anisotropy	0.258	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.37 , 50.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.46$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	8321	wwPDB-VP
Average B, all atoms (Å^2)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.03% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical 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.

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: FMT, NA, 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	0.33	0/3703	0.49	0/5022
1	B	0.34	0/3718	0.49	0/5043
All	All	0.34	0/7421	0.49	0/10065

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	3579	0	3599	16	0
1	B	3596	0	3603	21	0
2	C	23	0	21	0	0
2	D	23	0	21	0	0
3	A	6	0	2	0	0
3	B	6	0	2	0	0
4	A	2	0	0	0	0
4	B	5	0	0	0	0
5	A	551	0	0	3	0
5	B	530	0	0	3	0
All	All	8321	0	7248	37	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 (37) 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:80:ILE:HG22	1:B:82:PRO:HD3	1.60	0.84
1:A:101[A]:ASN:ND2	5:A:602:HOH:O	2.21	0.65
1:B:73:GLN:HG2	1:B:434:GLU:HG2	1.86	0.57
1:B:178:ASP:OD2	1:B:180:LYS:HG2	2.08	0.53
1:B:398[A]:TYR:CD2	1:B:446:ARG:HD3	2.44	0.53
1:A:56:ASP:OD1	5:A:601:HOH:O	2.19	0.52
1:A:179:ILE:HD13	1:A:433:PRO:HG3	1.92	0.52
1:B:138:LYS:NZ	5:B:608:HOH:O	2.41	0.51
1:A:69:GLY:HA3	1:A:333:ASN:O	2.11	0.50
1:B:158:THR:HG23	5:B:607:HOH:O	2.10	0.50
1:B:398[A]:TYR:HD2	1:B:446:ARG:HD3	1.75	0.50
1:A:63:TRP:CD1	1:A:67[A]:ARG:HG3	2.47	0.50
1:A:349:ILE:HG22	1:A:355:ARG:HH22	1.77	0.49
1:A:392:LEU:HG	1:A:396:LYS:HE3	1.95	0.49
1:B:445:GLU:HG3	1:B:450:LYS:HG2	1.96	0.47
1:B:180:LYS:HE3	1:B:425[B]:GLN:HE22	1.80	0.47
1:B:69:GLY:HA3	1:B:333:ASN:O	2.15	0.47
1:B:347:ALA:HB2	1:B:365:ALA:HB2	1.97	0.47
1:A:292:GLU:O	1:A:296:LYS:HG2	2.14	0.47
1:B:63:TRP:CD1	1:B:67[B]:ARG:HG3	2.52	0.44
1:A:230:PRO:HA	1:A:233:TRP:CE2	2.52	0.44
1:B:82:PRO:HG2	1:B:87:GLN:HG2	1.99	0.44
1:A:67[B]:ARG:HD2	5:A:879:HOH:O	2.16	0.44
1:B:230:PRO:HA	1:B:233:TRP:CE2	2.53	0.44
1:A:47:LYS:HE3	1:A:47:LYS:HB2	1.74	0.43
1:B:172:TYR:OH	1:B:175:GLY:HA2	2.18	0.43
1:A:129:THR:OG1	1:A:132:GLU:HG3	2.18	0.43
1:A:63:TRP:CD1	1:A:67[B]:ARG:HG3	2.54	0.42
1:B:425[A]:GLN:NE2	5:B:605:HOH:O	2.40	0.42
1:A:442:SER:O	1:A:445:GLU:HG2	2.19	0.42
1:B:453:TRP:O	1:B:457:GLN:HG2	2.19	0.42
1:A:453:TRP:O	1:A:457:GLN:HG2	2.18	0.42
1:B:73:GLN:NE2	1:B:100:TYR:OH	2.47	0.42
1:A:349:ILE:HG22	1:A:355:ARG:NH2	2.35	0.42
1:B:289:GLU:H	1:B:289:GLU:CD	2.25	0.41
1:B:410:ILE:HA	1:B:411:PRO:HD3	1.88	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	461/480 (96%)	455 (99%)	6 (1%)	0	100	100
1	B	462/480 (96%)	455 (98%)	7 (2%)	0	100	100
All	All	923/960 (96%)	910 (99%)	13 (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	Rotameric	Outliers	Percentiles	
1	A	367/378 (97%)	366 (100%)	1 (0%)	92	89
1	B	368/378 (97%)	367 (100%)	1 (0%)	92	89
All	All	735/756 (97%)	733 (100%)	2 (0%)	92	89

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	259	PHE
1	B	259	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	73	GLN

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	0.42	0	17,17,17	0.53	0
2	GLC	C	2	2	11,11,12	0.47	0	15,15,17	1.00	1 (6%)
2	GLC	D	1	2	12,12,12	0.54	0	17,17,17	0.71	0
2	GLC	D	2	2	11,11,12	0.54	0	15,15,17	1.18	1 (6%)

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
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 (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	2	GLC	C1-O5-C5	3.68	117.18	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	2	GLC	C1-O5-C5	2.90	116.11	112.19

There are no chirality outliers.

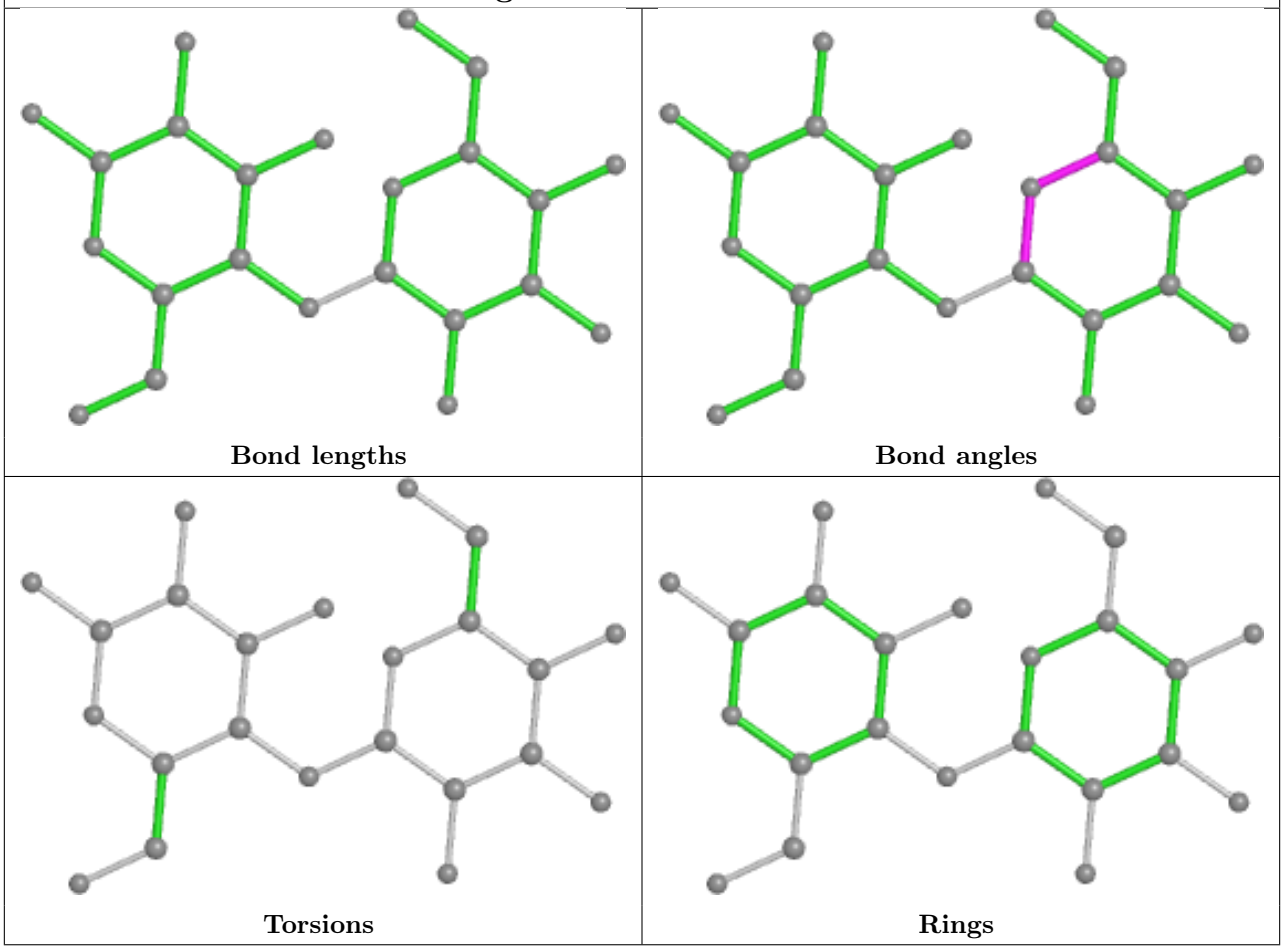
There are no torsion outliers.

There are no ring outliers.

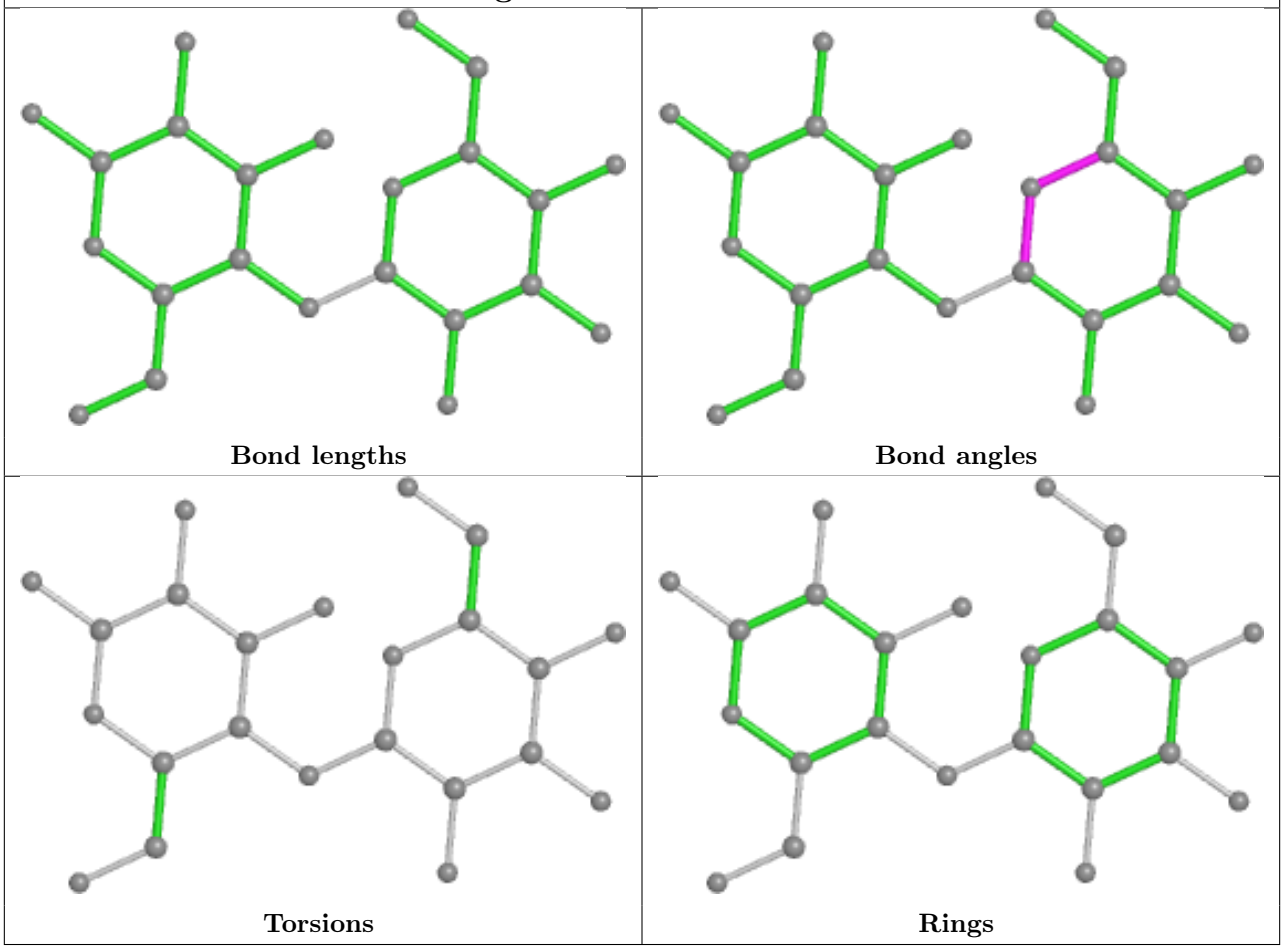
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

Oligosaccharide Chain C



Oligosaccharide Chain D



5.6 Ligand geometry (i)

Of 11 ligands modelled in this entry, 7 are monoatomic - leaving 4 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	FMT	A	503	-	2,2,2	0.68	0	1,1,1	0.15	0
3	FMT	A	502	-	2,2,2	0.68	0	1,1,1	0.25	0
3	FMT	B	502	-	2,2,2	0.66	0	1,1,1	0.13	0
3	FMT	B	503	-	2,2,2	0.68	0	1,1,1	0.17	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	452/480 (94%)	-0.23	10 (2%)	62	66	13, 22, 46, 76	0
1	B	454/480 (94%)	-0.12	9 (1%)	65	69	12, 21, 43, 72	0
All	All	906/960 (94%)	-0.18	19 (2%)	63	67	12, 22, 45, 76	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	402	ALA	8.4
1	A	401	THR	6.7
1	A	403	THR	6.6
1	B	403	THR	5.5
1	A	390	VAL	4.0
1	A	412	TRP	3.7
1	B	398[A]	TYR	3.5
1	B	400	GLY	3.2
1	B	402	ALA	2.7
1	A	399	LEU	2.6
1	A	417	LYS	2.4
1	A	398	TYR	2.4
1	B	342[A]	TYR	2.4
1	B	401	THR	2.3
1	B	412	TRP	2.2
1	A	400	GLY	2.2
1	B	1	MET	2.1
1	A	448	ASN	2.0
1	B	410	ILE	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)

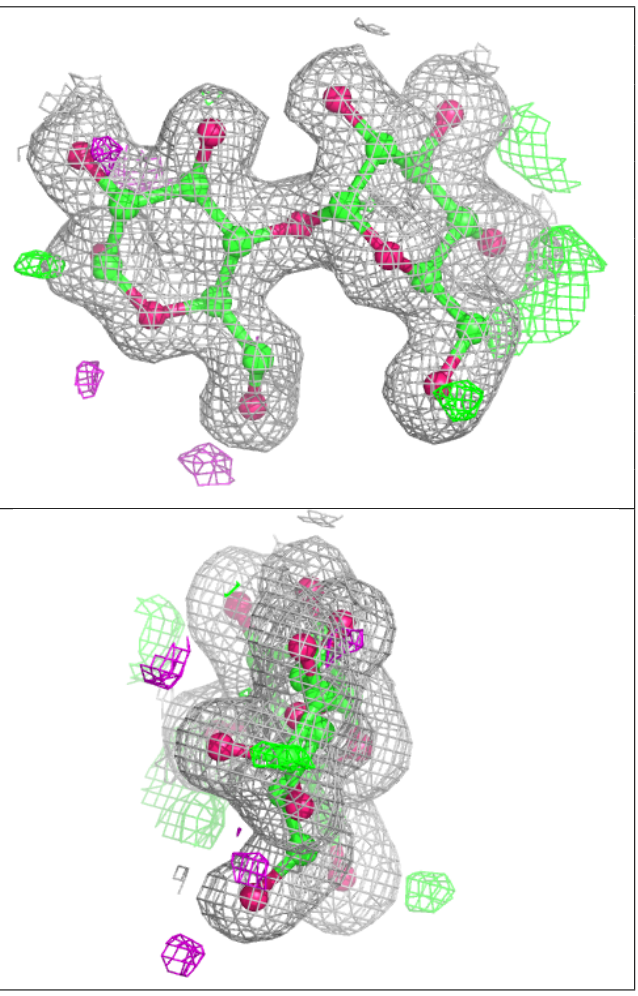
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	0.97	0.08	11,16,21,22	0
2	GLC	D	1	12/12	0.97	0.11	13,18,25,26	0
2	GLC	D	2	11/12	0.97	0.12	13,14,17,18	0
2	GLC	C	2	11/12	0.98	0.09	11,13,15,17	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.

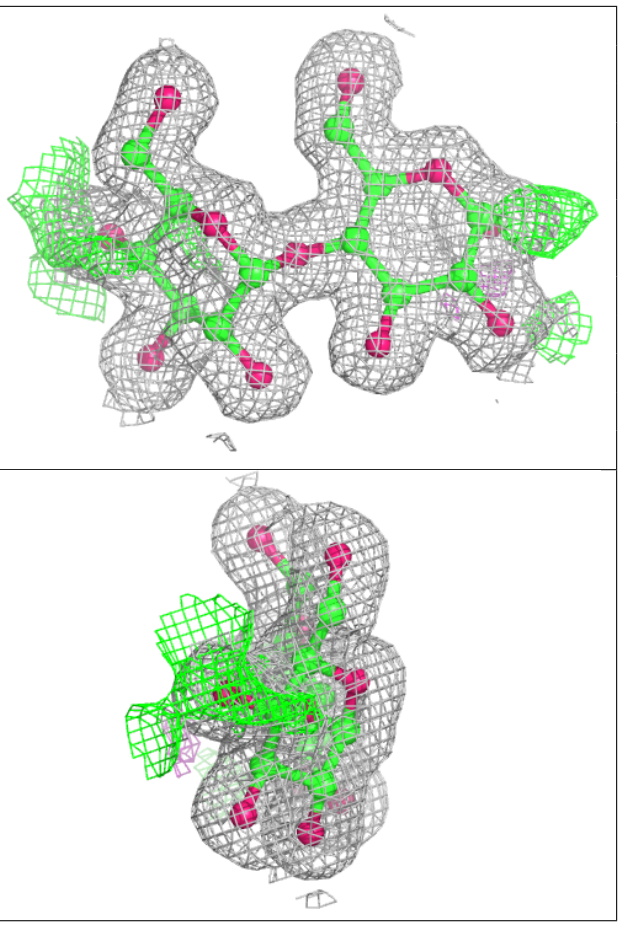
Electron density around Chain C:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative) and green (positive)



Electron density around Chain D:

$2mF_o$-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
3	FMT	B	502	3/3	0.81	0.29	38,38,38,38	0
4	NA	B	508	1/1	0.85	0.43	45,45,45,45	0
3	FMT	B	503	3/3	0.90	0.15	39,39,42,43	0
3	FMT	A	502	3/3	0.92	0.14	35,35,35,36	0
4	NA	A	505	1/1	0.93	0.39	43,43,43,43	0
3	FMT	A	503	3/3	0.97	0.12	26,26,34,34	0
4	NA	B	505	1/1	0.98	0.07	37,37,37,37	0
4	NA	A	504	1/1	0.98	0.17	37,37,37,37	0
4	NA	B	506	1/1	0.99	0.05	18,18,18,18	0
4	NA	B	507	1/1	0.99	0.12	27,27,27,27	0
4	NA	B	504	1/1	0.99	0.04	20,20,20,20	0

6.5 Other polymers (i)

There are no such residues in this entry.