



wwPDB X-ray Structure Validation Summary Report

Aug 8, 2020 – 03:28 PM BST

PDB ID : 5DJY
Title : Fc Heterodimer Design 20.8 Y349S / T366V / K370Y / K409V + E357D/S364Q/Y407A
Authors : Atwell, S.; Leaver-Fay, A.; Froning, K.J.; Aldaz, H.; Pustilnik, A.; Lu, F.; Huang, F.; Yuan, R.; Dhanani, S.H.; Chamberlain, A.K.; Fitchett, J.R.; Gutierrez, B.; Hendle, J.; Demarest, S.J.; Kuhlman, B.
Deposited on : 2015-09-02
Resolution : 2.15 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 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)
Xtriage (Phenix) : 1.13
EDS : 2.13.1
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) : 2.13.1

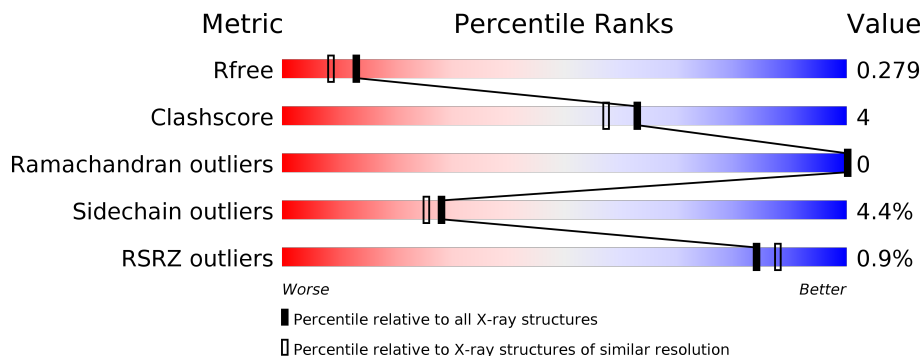
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 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	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	1560 (2.16-2.16)
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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 on 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	227	
2	B	240	
3	C	13	
4	D	8	
4	E	8	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3654 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 Ig gamma-1 chain C region.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	208	1645	1046	275	317	7	0	1	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	349	SER	TYR	engineered mutation	UNP P01857
A	356	GLU	ASP	variant	UNP P01857
A	358	MET	LEU	variant	UNP P01857
A	366	VAL	THR	engineered mutation	UNP P01857
A	370	TYR	LYS	engineered mutation	UNP P01857
A	409	VAL	LYS	engineered mutation	UNP P01857

- Molecule 2 is a protein called Ig gamma-1 chain C region.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	207	1622	1032	271	313	6	0	0	0

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	208	HIS	-	expression tag	UNP P01857
B	209	HIS	-	expression tag	UNP P01857
B	210	HIS	-	expression tag	UNP P01857
B	211	HIS	-	expression tag	UNP P01857
B	212	HIS	-	expression tag	UNP P01857
B	213	HIS	-	expression tag	UNP P01857
B	214	HIS	-	expression tag	UNP P01857
B	215	HIS	-	expression tag	UNP P01857
B	216	SER	-	expression tag	UNP P01857
B	217	GLY	-	expression tag	UNP P01857

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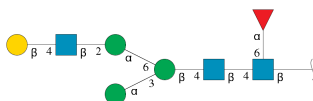
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Chain	Residue	Modelled	Actual	Comment	Reference
B	218	SER	-	expression tag	UNP P01857
B	219	GLY	-	expression tag	UNP P01857
B	220	SER	-	expression tag	UNP P01857
B	252	GLU	MET	engineered mutation	UNP P01857
B	253	ALA	ILE	engineered mutation	UNP P01857
B	356	GLU	ASP	variant	UNP P01857
B	357	ASP	GLU	engineered mutation	UNP P01857
B	358	MET	LEU	variant	UNP P01857
B	364	GLN	SER	engineered mutation	UNP P01857
B	407	ALA	TYR	engineered mutation	UNP P01857
B	435	ALA	HIS	engineered mutation	UNP P01857

- Molecule 3 is a protein called Fc-III peptide.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
			Total	C	N	O				S
3	C	13	107	69	17	19	2	0	0	0

- Molecule 4 is an oligosaccharide called beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
4	D	8	96	54	3	39	0	0	0
4	E	8	96	54	3	39	0	0	0

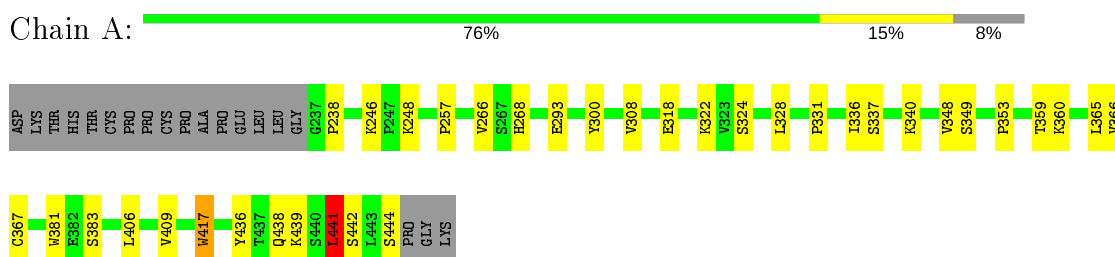
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	38	Total	O	0	0
			38	38		
5	B	50	Total	O	0	0
			50	50		

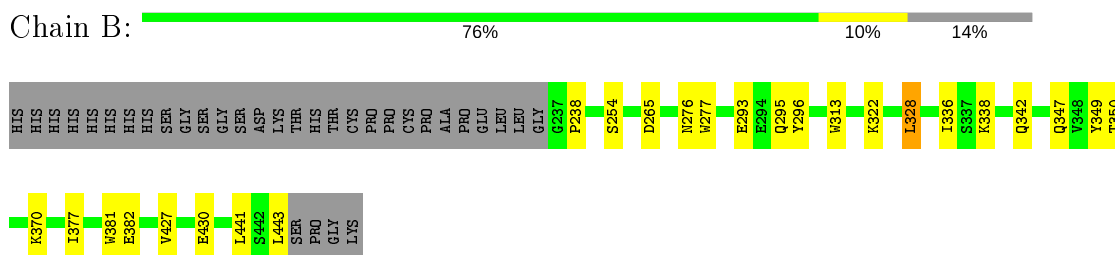
3 Residue-property plots [i](#)

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.

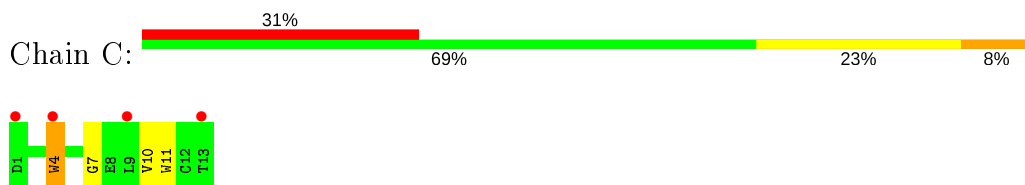
- Molecule 1: Ig gamma-1 chain C region



- Molecule 2: Ig gamma-1 chain C region



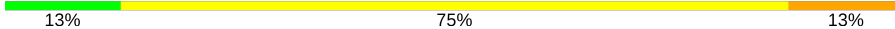
- Molecule 3: Fc-III peptide



- Molecule 4: beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 4: beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-alpha-D-mannopyranose-(1-6)-[alpha-D-mannopyranose-(1-3)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain E:  13% 75% 13%

MAG1	MAG2	BGL3	MAN4	MAG5	GAL6	MAN7	FUC8
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4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.69Å 67.28Å 78.66Å 90.00° 105.46° 90.00°	Depositor
Resolution (Å)	30.00 – 2.15 44.14 – 2.15	Depositor EDS
% Data completeness (in resolution range)	99.6 (30.00-2.15) 99.6 (44.14-2.15)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.95 (at 2.16Å)	Xtrriage
Refinement program	REFMAC 5.7.0017	Depositor
R, R_{free}	0.221 , 0.277 0.222 , 0.279	Depositor DCC
R_{free} test set	1679 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	33.9	Xtrriage
Anisotropy	0.077	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 36.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.26$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3654	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.69% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: MAN, GAL, BMA, NAG, FUC

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	0.64	1/1694 (0.1%)	0.70	1/2312 (0.0%)
2	B	0.64	2/1666 (0.1%)	0.68	0/2275
3	C	1.18	2/111 (1.8%)	0.65	0/151
All	All	0.67	5/3471 (0.1%)	0.69	1/4738 (0.0%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	11	TRP	CD2-CE2	6.03	1.48	1.41
1	A	417	TRP	CD2-CE2	5.67	1.48	1.41
3	C	4	TRP	CD2-CE2	5.57	1.48	1.41
2	B	277	TRP	CD2-CE2	5.52	1.48	1.41
2	B	381	TRP	CD2-CE2	5.14	1.47	1.41

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	441	LEU	CA-CB-CG	5.03	126.88	115.30

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	1645	0	1593	17	0
2	B	1622	0	1563	12	0
3	C	107	0	93	3	0
4	D	96	0	82	0	0
4	E	96	0	82	1	0
5	A	38	0	0	2	0
5	B	50	0	0	0	0
All	All	3654	0	3413	30	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 4.

The worst 5 of 30 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)
2:B:238:PRO:HD2	2:B:328:LEU:HD13	1.35	1.09
2:B:238:PRO:HD2	2:B:328:LEU:CD1	2.15	0.75
1:A:360:LYS:NZ	2:B:349:TYR:OH	2.24	0.69
1:A:406:LEU:HD12	1:A:406:LEU:C	2.20	0.61
1:A:238:PRO:HD2	1:A:328:LEU:HD13	1.82	0.60

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	207/227 (91%)	198 (96%)	9 (4%)	0	100	100
2	B	205/240 (85%)	200 (98%)	5 (2%)	0	100	100
3	C	11/13 (85%)	10 (91%)	1 (9%)	0	100	100
All	All	423/480 (88%)	408 (96%)	15 (4%)	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	191/210 (91%)	181 (95%)	10 (5%)	23	19
2	B	183/218 (84%)	176 (96%)	7 (4%)	33	31
3	C	11/11 (100%)	11 (100%)	0	100	100
All	All	385/439 (88%)	368 (96%)	17 (4%)	28	25

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	383	SER
1	A	441	LEU
2	B	342	GLN
1	A	349	SER
2	B	370	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
2	B	361	ASN
2	B	421	ASN
2	B	384	ASN
1	A	438	GLN
2	B	418	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](#)

16 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
4	NAG	D	1	1,4	14,14,15	0.59	0	17,19,21	0.86	1 (5%)
4	NAG	D	2	4	14,14,15	0.58	0	17,19,21	1.36	1 (5%)
4	BMA	D	3	4	11,11,12	0.35	0	15,15,17	1.62	3 (20%)
4	MAN	D	4	4	11,11,12	0.71	0	15,15,17	1.38	3 (20%)
4	NAG	D	5	4	14,14,15	0.46	0	17,19,21	0.86	0
4	GAL	D	6	4	11,11,12	0.80	0	15,15,17	1.49	3 (20%)
4	MAN	D	7	4	11,11,12	0.71	0	15,15,17	1.35	1 (6%)
4	FUC	D	8	4	10,10,11	0.64	0	14,14,16	1.05	1 (7%)
4	NAG	E	1	2,4	14,14,15	0.67	0	17,19,21	1.19	2 (11%)
4	NAG	E	2	4	14,14,15	0.59	0	17,19,21	1.20	2 (11%)
4	BMA	E	3	4	11,11,12	0.42	0	15,15,17	1.63	1 (6%)
4	MAN	E	4	4	11,11,12	0.74	0	15,15,17	1.56	3 (20%)
4	NAG	E	5	4	14,14,15	0.73	0	17,19,21	0.60	0
4	GAL	E	6	4	11,11,12	0.69	0	15,15,17	1.39	2 (13%)
4	MAN	E	7	4	11,11,12	0.62	0	15,15,17	2.07	2 (13%)
4	FUC	E	8	4	10,10,11	0.64	0	14,14,16	1.58	3 (21%)

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
4	NAG	D	1	1,4	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	D	2	4	-	2/6/23/26	0/1/1/1
4	BMA	D	3	4	-	1/2/19/22	0/1/1/1
4	MAN	D	4	4	-	2/2/19/22	0/1/1/1
4	NAG	D	5	4	-	0/6/23/26	0/1/1/1
4	GAL	D	6	4	-	0/2/19/22	0/1/1/1
4	MAN	D	7	4	-	1/2/19/22	0/1/1/1
4	FUC	D	8	4	-	-	0/1/1/1
4	NAG	E	1	2,4	-	0/6/23/26	0/1/1/1
4	NAG	E	2	4	-	1/6/23/26	0/1/1/1
4	BMA	E	3	4	-	0/2/19/22	0/1/1/1
4	MAN	E	4	4	-	2/2/19/22	0/1/1/1
4	NAG	E	5	4	-	0/6/23/26	0/1/1/1
4	GAL	E	6	4	-	1/2/19/22	0/1/1/1
4	MAN	E	7	4	-	0/2/19/22	0/1/1/1
4	FUC	E	8	4	-	-	0/1/1/1

There are no bond length outliers.

The worst 5 of 28 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	7	MAN	C1-C2-C3	-6.23	102.01	109.67
4	E	3	BMA	C1-O5-C5	5.48	119.62	112.19
4	E	4	MAN	O2-C2-C3	-4.09	101.95	110.14
4	D	2	NAG	C1-C2-N2	3.89	117.13	110.49
4	D	4	MAN	O2-C2-C3	-3.69	102.76	110.14

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

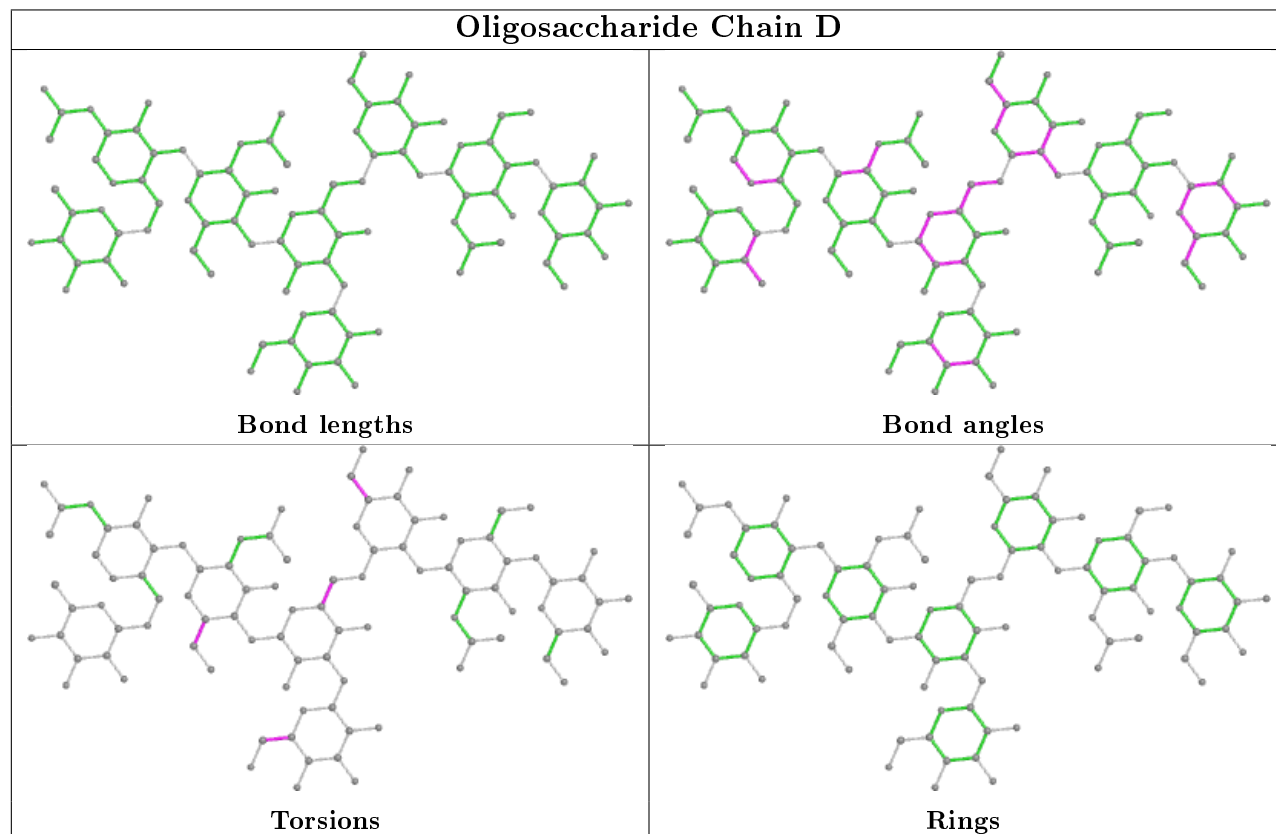
Mol	Chain	Res	Type	Atoms
4	E	4	MAN	O5-C5-C6-O6
4	E	4	MAN	C4-C5-C6-O6
4	D	4	MAN	O5-C5-C6-O6
4	D	2	NAG	O5-C5-C6-O6
4	D	7	MAN	C4-C5-C6-O6

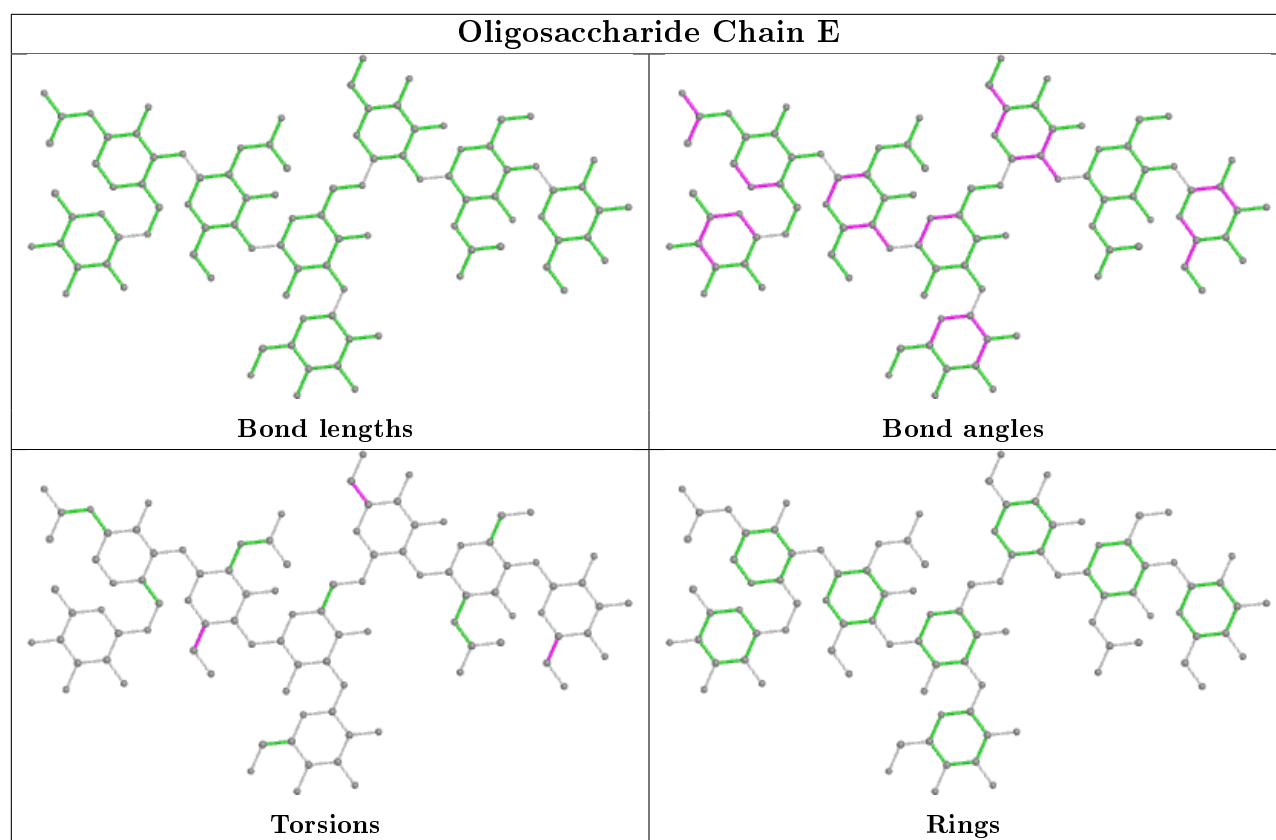
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	E	1	NAG	1	0

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](#)

There are no ligands in this entry.

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	208/227 (91%)	0.10	0 100 100	19, 35, 54, 74	0
2	B	207/240 (86%)	0.04	0 100 100	17, 33, 54, 69	0
3	C	13/13 (100%)	1.46	4 (30%) 0 0	30, 49, 69, 69	0
All	All	428/480 (89%)	0.11	4 (0%) 84 88	17, 34, 56, 74	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	13	THR	3.6
3	C	9	LEU	3.3
3	C	4	TRP	2.6
3	C	1	ASP	2.4

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.

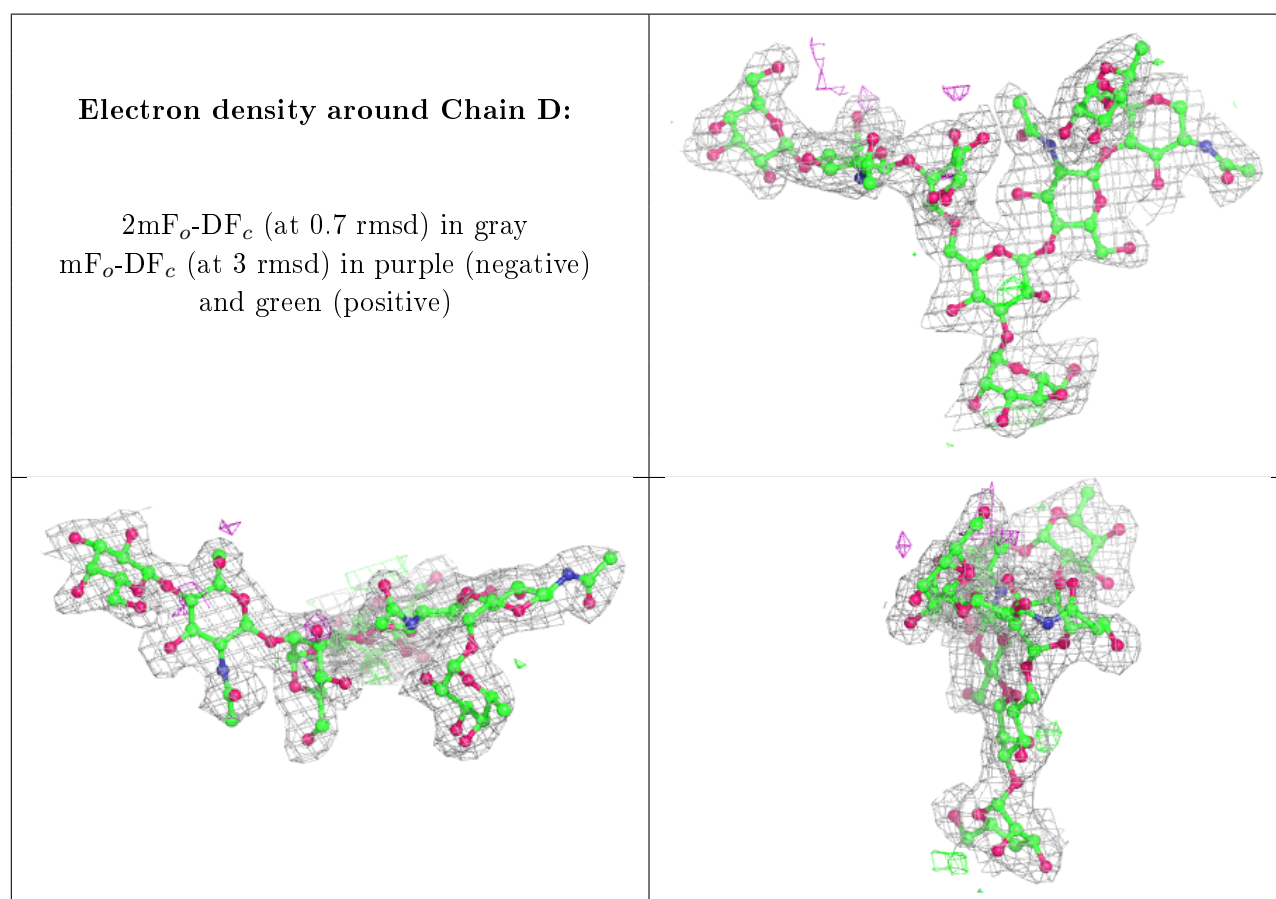
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	MAN	E	7	11/12	0.84	0.14	47,62,74,77	0
4	MAN	D	7	11/12	0.87	0.12	52,62,75,82	0
4	GAL	D	6	11/12	0.90	0.13	40,52,60,60	0
4	FUC	D	8	10/11	0.90	0.16	46,58,64,64	0

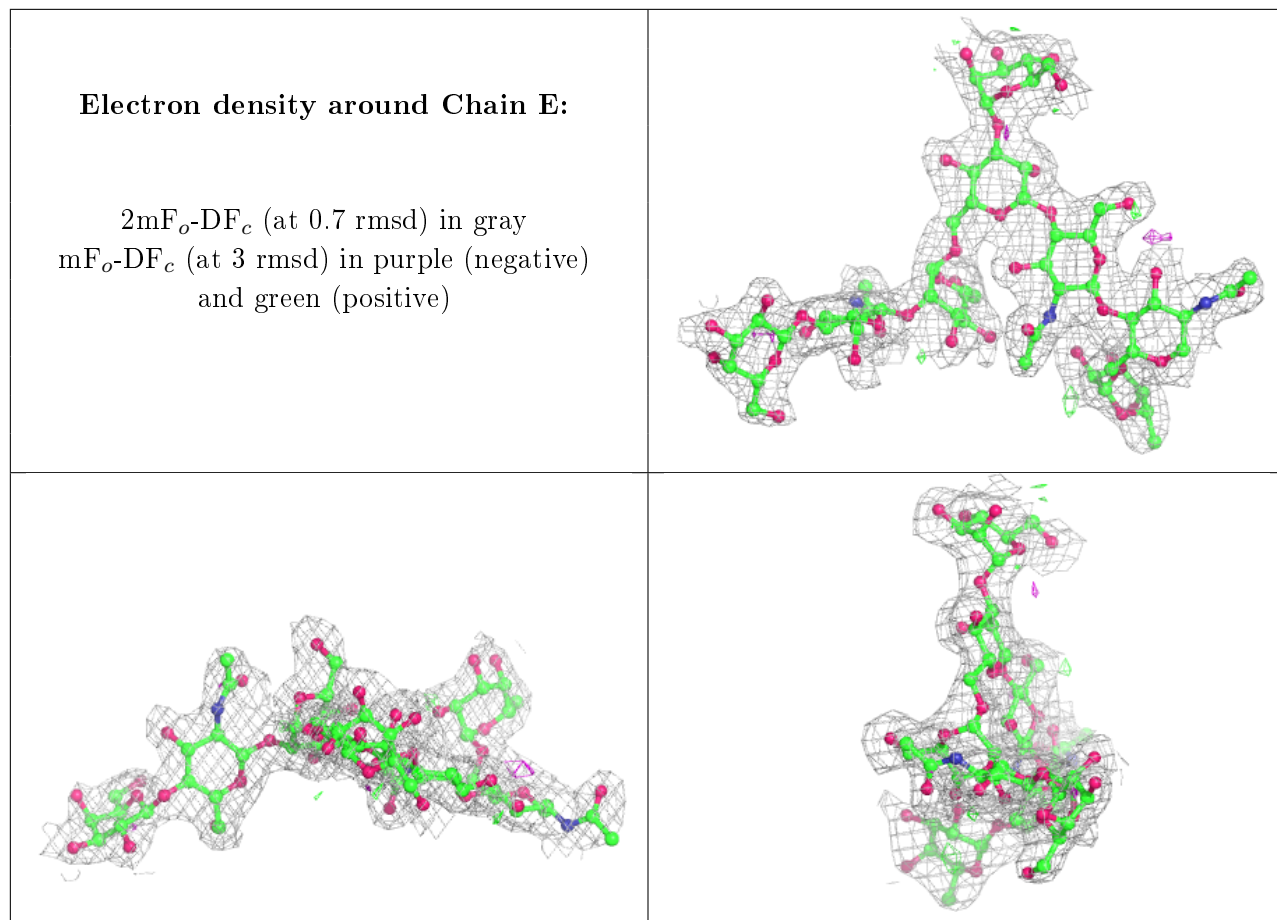
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	MAN	D	4	11/12	0.91	0.13	37,52,55,60	0
4	FUC	E	8	10/11	0.92	0.14	44,54,64,68	0
4	BMA	D	3	11/12	0.92	0.10	39,43,63,66	0
4	NAG	D	2	14/15	0.92	0.13	35,45,54,55	0
4	NAG	E	1	14/15	0.93	0.13	37,45,55,58	0
4	NAG	D	5	14/15	0.93	0.12	30,36,47,54	0
4	GAL	E	6	11/12	0.94	0.19	39,45,56,62	0
4	BMA	E	3	11/12	0.94	0.10	35,42,51,65	0
4	NAG	E	5	14/15	0.94	0.12	29,37,53,58	0
4	MAN	E	4	11/12	0.94	0.10	31,45,54,61	0
4	NAG	D	1	14/15	0.95	0.15	42,47,58,66	0
4	NAG	E	2	14/15	0.96	0.11	31,36,41,44	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.