



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 8, 2026 – 04:57 PM UTC

PDB ID : 3OG6 / pdb_00003og6
Title : The crystal structure of human interferon lambda 1 complexed with its high affinity receptor in space group P212121
Authors : Miknis, Z.J.; Magracheva, E.; Lei, W.; Zdanov, A.; Kotenko, S.V.; Wlodawer, A.
Deposited on : 2010-08-16
Resolution : 2.10 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 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

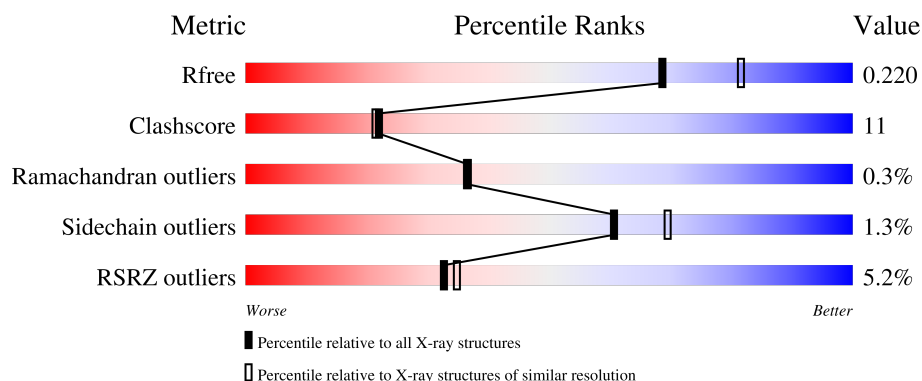
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	196	4% 60% 13% • 27%
2	B	226	5% 66% 22% 12%
3	C	3	67% 33%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 3082 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 Interleukin-29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	143	Total	C	N	O	S	0	0	0
			1122	714	203	202	3			

There are 17 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-14	HIS	-	expression tag	UNP Q8IU54
A	-13	HIS	-	expression tag	UNP Q8IU54
A	-12	HIS	-	expression tag	UNP Q8IU54
A	-11	HIS	-	expression tag	UNP Q8IU54
A	-10	HIS	-	expression tag	UNP Q8IU54
A	-9	HIS	-	expression tag	UNP Q8IU54
A	-8	ASP	-	expression tag	UNP Q8IU54
A	-7	TYR	-	expression tag	UNP Q8IU54
A	-6	LYS	-	expression tag	UNP Q8IU54
A	-5	ASP	-	expression tag	UNP Q8IU54
A	-4	ASP	-	expression tag	UNP Q8IU54
A	-3	ASP	-	expression tag	UNP Q8IU54
A	-2	ASP	-	expression tag	UNP Q8IU54
A	-1	LYS	-	expression tag	UNP Q8IU54
A	0	ALA	-	expression tag	UNP Q8IU54
A	1	ASP	GLY	engineered mutation	UNP Q8IU54
A	10	PRO	THR	engineered mutation	UNP Q8IU54

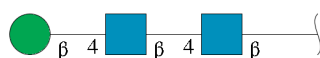
- Molecule 2 is a protein called Interleukin 28 receptor, alpha (Interferon, lambda receptor).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	200	Total	C	N	O	S	0	1	0
			1603	1039	262	293	9			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	207	ALA	-	expression tag	UNP Q5VTX7
B	208	SER	-	expression tag	UNP Q5VTX7
B	209	GLY	-	expression tag	UNP Q5VTX7
B	210	SER	-	expression tag	UNP Q5VTX7
B	211	SER	-	expression tag	UNP Q5VTX7
B	212	GLY	-	expression tag	UNP Q5VTX7
B	213	GLY	-	expression tag	UNP Q5VTX7
B	214	SER	-	expression tag	UNP Q5VTX7
B	215	SER	-	expression tag	UNP Q5VTX7
B	216	GLY	-	expression tag	UNP Q5VTX7
B	217	THR	-	expression tag	UNP Q5VTX7
B	218	SER	-	expression tag	UNP Q5VTX7
B	219	HIS	-	expression tag	UNP Q5VTX7
B	220	HIS	-	expression tag	UNP Q5VTX7
B	221	HIS	-	expression tag	UNP Q5VTX7
B	222	HIS	-	expression tag	UNP Q5VTX7
B	223	HIS	-	expression tag	UNP Q5VTX7
B	224	HIS	-	expression tag	UNP Q5VTX7

- Molecule 3 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



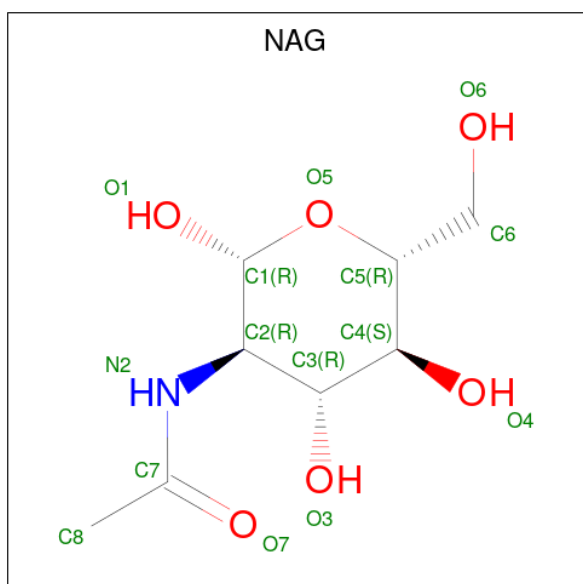
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	3	Total	C	N	O	0	0	0
			39	22	2	15			

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			6	3	3		
4	A	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total	C	N	O	0	0
			14	8	1	5		
5	B	1	Total	C	N	O	0	0
			14	8	1	5		

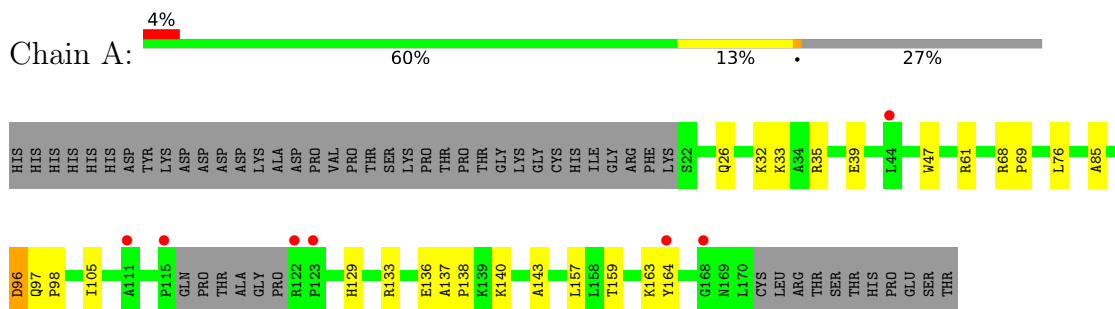
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	114	Total	O	0	0
			114	114		
6	B	152	Total	O	0	0
			152	152		

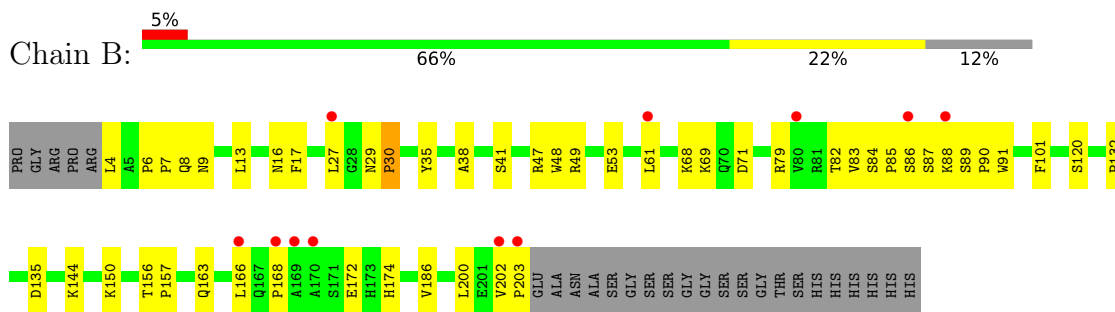
3 Residue-property plots

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.

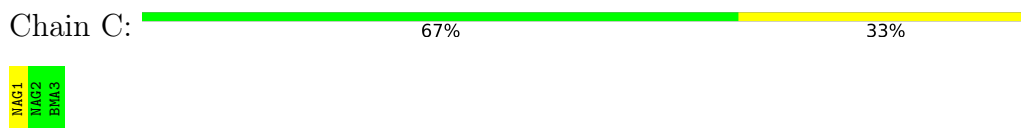
- Molecule 1: Interleukin-29



- Molecule 2: Interleukin 28 receptor, alpha (Interferon, lambda receptor)



- Molecule 3: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	64.96Å 85.79Å 116.51Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.39 – 2.10 29.39 – 2.10	Depositor EDS
% Data completeness (in resolution range)	90.0 (29.39-2.10) 89.9 (29.39-2.10)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.37 (at 2.10Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.184 , 0.228 0.179 , 0.220	Depositor DCC
R_{free} test set	1148 reflections (3.04%)	wwPDB-VP
Wilson B-factor (Å ²)	37.5	Xtriage
Anisotropy	0.399	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 68.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3082	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.55% 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: GOL, BMA, NAG

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	1.28	4/1146 (0.3%)	1.17	3/1555 (0.2%)
2	B	0.93	1/1656 (0.1%)	1.06	1/2263 (0.0%)
All	All	1.08	5/2802 (0.2%)	1.11	4/3818 (0.1%)

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	96	ASP	CA-C	6.52	1.61	1.52
1	A	143	ALA	CA-CB	5.72	1.62	1.53
2	B	132	PRO	CA-C	5.41	1.54	1.51
1	A	85	ALA	C-O	-5.20	1.17	1.24
1	A	143	ALA	C-O	-5.12	1.18	1.24

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	85	ALA	N-CA-C	-6.99	104.23	112.89
2	B	132	PRO	CA-C-O	-6.72	116.06	120.90
1	A	35	ARG	N-CA-C	-5.79	105.05	111.36
1	A	39	GLU	N-CA-C	-5.64	105.21	111.36

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	1122	0	1130	16	1
2	B	1603	0	1586	45	0
3	C	39	0	34	0	0
4	A	12	0	16	2	0
4	B	12	0	16	3	0
5	B	28	0	26	0	0
6	A	114	0	0	1	0
6	B	152	0	0	4	1
All	All	3082	0	2808	60	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 11.

The worst 5 of 60 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:49:ARG:HD3	6:B:338:HOH:O	1.69	0.92
2:B:79:ARG:HD3	2:B:91:TRP:CE3	2.14	0.83
2:B:144:LYS:HD3	2:B:172:GLU:OE1	1.88	0.73
2:B:6:PRO:HG3	2:B:90:PRO:HD2	1.70	0.72
1:A:159:THR:O	1:A:163:LYS:HE2	1.90	0.72

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:96:ASP:OD1	6:B:283:HOH:O[4_466]	2.16	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	139/196 (71%)	137 (99%)	2 (1%)	0	100	100
2	B	199/226 (88%)	183 (92%)	15 (8%)	1 (0%)	24	22
All	All	338/422 (80%)	320 (95%)	17 (5%)	1 (0%)	36	36

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	30	PRO

5.3.2 Protein sidechains ⓘ

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	120/170 (71%)	118 (98%)	2 (2%)	53	62
2	B	182/201 (90%)	180 (99%)	2 (1%)	65	74
All	All	302/371 (81%)	298 (99%)	4 (1%)	61	69

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	26	GLN
1	A	133	ARG
2	B	135	ASP
2	B	186	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	104	HIS
2	B	74	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

3 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
3	NAG	C	1	3,2	14,14,15	0.63	0	17,19,21	0.93	1 (5%)
3	NAG	C	2	3	14,14,15	0.56	0	17,19,21	0.61	0
3	BMA	C	3	3	11,11,12	0.70	0	15,15,17	0.53	0

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	NAG	C	1	3,2	-	2/6/23/26	0/1/1/1
3	NAG	C	2	3	-	2/6/23/26	0/1/1/1
3	BMA	C	3	3	-	1/2/19/22	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	1	NAG	O5-C1-C2	-2.09	108.06	111.29

There are no chirality outliers.

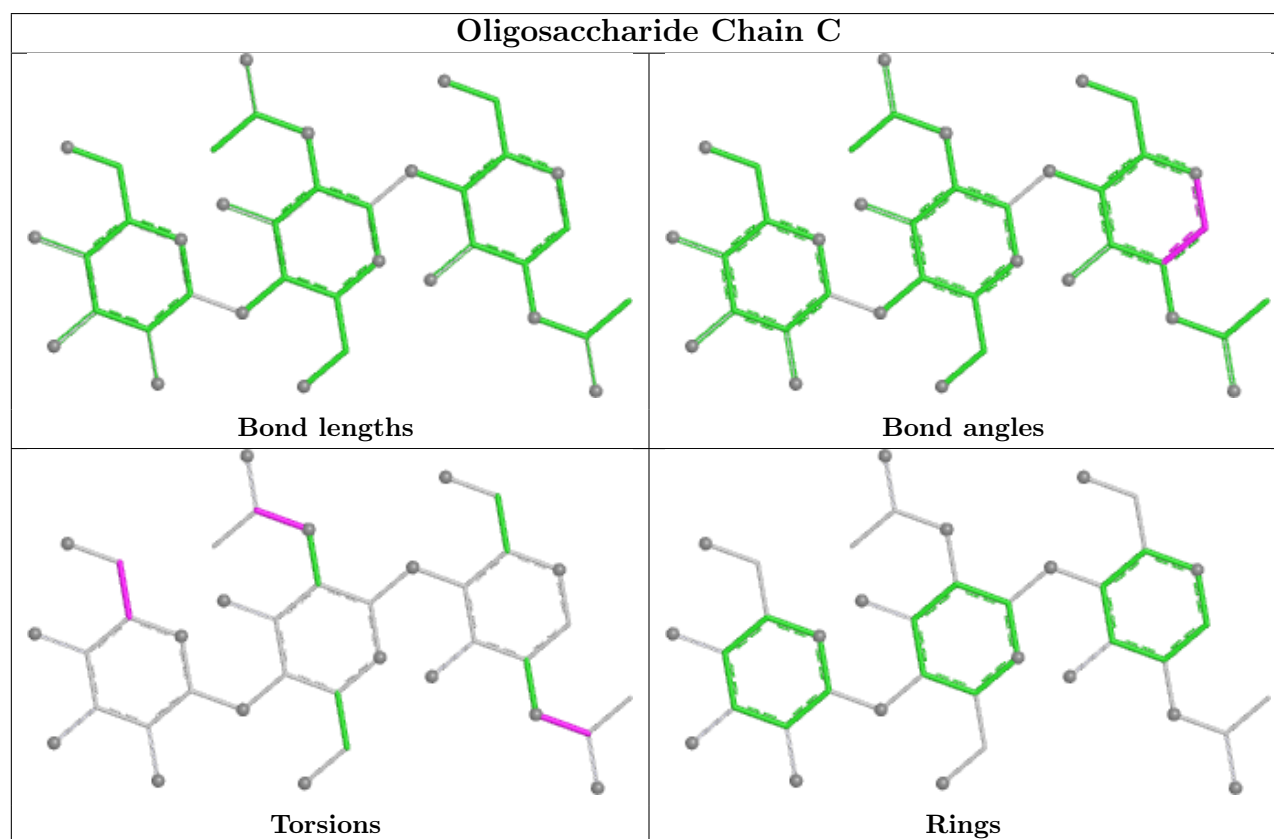
All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	1	NAG	C8-C7-N2-C2
3	C	1	NAG	O7-C7-N2-C2
3	C	2	NAG	C8-C7-N2-C2
3	C	2	NAG	O7-C7-N2-C2
3	C	3	BMA	C4-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](#)

6 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
4	GOL	A	182	-	5,5,5	0.47	0	5,5,5	0.48	0
4	GOL	A	183	-	5,5,5	0.42	0	5,5,5	0.27	0
5	NAG	B	304	2	14,14,15	1.02	1 (7%)	17,19,21	1.72	2 (11%)
4	GOL	B	225	-	5,5,5	0.49	0	5,5,5	0.95	0
4	GOL	B	226	-	5,5,5	0.26	0	5,5,5	0.92	0
5	NAG	B	300	2	14,14,15	0.56	0	17,19,21	0.62	0

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	GOL	A	182	-	-	4/4/4/4	-
4	GOL	A	183	-	-	4/4/4/4	-
5	NAG	B	304	2	-	0/6/23/26	0/1/1/1
4	GOL	B	225	-	-	4/4/4/4	-
4	GOL	B	226	-	-	2/4/4/4	-
5	NAG	B	300	2	-	1/6/23/26	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	304	NAG	C1-C2	3.09	1.56	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	304	NAG	C1-O5-C5	5.32	119.32	112.19
5	B	304	NAG	O5-C5-C6	2.33	112.20	107.66

There are no chirality outliers.

5 of 15 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	182	GOL	O1-C1-C2-C3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
4	A	183	GOL	O1-C1-C2-C3
4	A	183	GOL	C1-C2-C3-O3
4	B	225	GOL	O1-C1-C2-O2
4	B	225	GOL	O1-C1-C2-C3

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	183	GOL	2	0
4	B	225	GOL	2	0
4	B	226	GOL	1	0

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	143/196 (72%)	-0.00	7 (4%) 35 37	28, 40, 93, 148	0
2	B	200/226 (88%)	0.30	11 (5%) 30 32	30, 58, 134, 203	1 (0%)
All	All	343/422 (81%)	0.17	18 (5%) 33 35	28, 52, 128, 203	1 (0%)

The worst 5 of 18 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	27	LEU	5.2
2	B	169	ALA	4.2
1	A	122	ARG	4.1
2	B	203	PRO	4.0
2	B	202	VAL	3.4

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

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

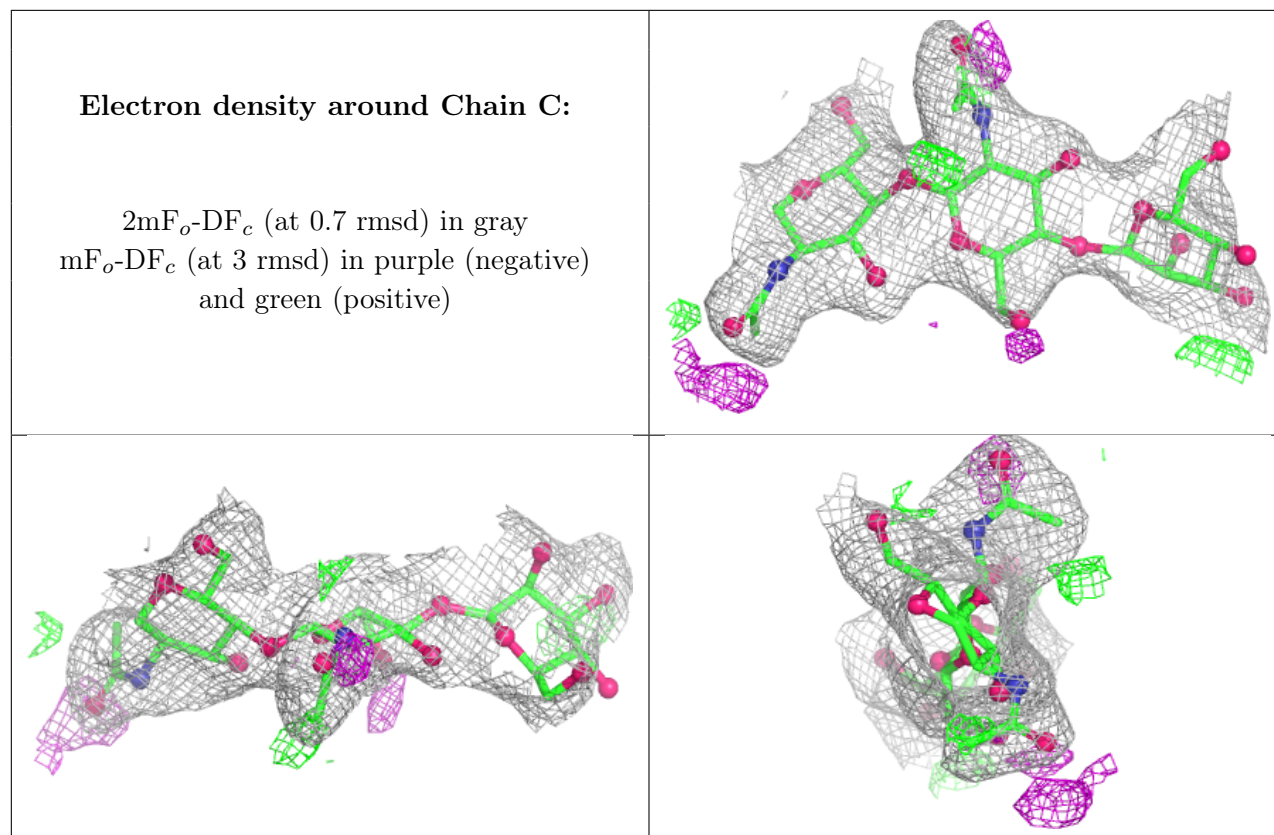
6.3 Carbohydrates [i](#)

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
3	BMA	C	3	11/12	0.34	0.13	125,139,144,145	0
3	NAG	C	2	14/15	0.72	0.14	57,90,101,114	0
3	NAG	C	1	14/15	0.88	0.10	63,71,75,77	0

The following is a graphical depiction of the model fit to experimental electron density for oligosac-

charide. 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($\text{\AA}^2$)	Q<0.9
5	NAG	B	300	14/15	0.49	0.16	116,133,144,148	0
4	GOL	A	182	6/6	0.72	0.18	97,106,115,118	0
5	NAG	B	304	14/15	0.81	0.12	82,96,103,111	0
4	GOL	B	225	6/6	0.83	0.22	51,82,86,90	0
4	GOL	A	183	6/6	0.89	0.20	90,95,102,106	0
4	GOL	B	226	6/6	0.91	0.16	81,87,95,99	0

6.5 Other polymers [i](#)

There are no such residues in this entry.