



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 22, 2024 – 12:10 AM EDT

PDB ID : 3P0Y  
Title : anti-EGFR/HER3 Fab DL11 in complex with domain III of EGFR extracellular region  
Authors : Eigenbrot, C.; Shia, S.  
Deposited on : 2010-09-29  
Resolution : 1.80 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

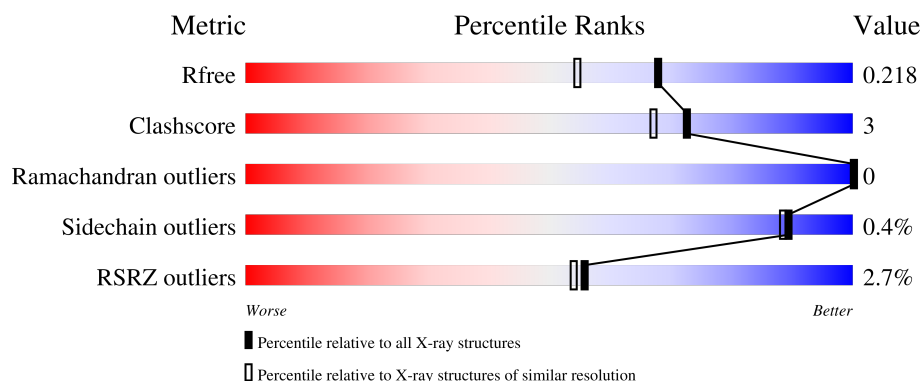
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*


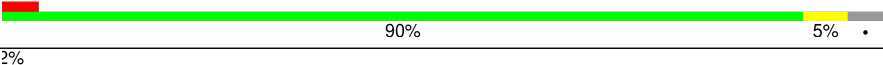
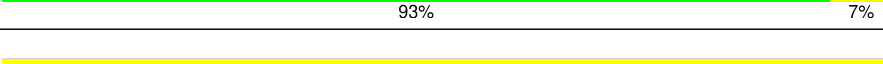

The reported resolution of this entry is 1.80 Å.

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))
$R_{free}$	164625	7108 (1.80-1.80)
Clashscore	180529	8162 (1.80-1.80)
Ramachandran outliers	177936	8077 (1.80-1.80)
Sidechain outliers	177891	8076 (1.80-1.80)
RSRZ outliers	164620	7108 (1.80-1.80)

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  $\geq 3$ , 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	214	
2	H	228	
3	L	214	
4	B	2	
4	D	2	

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Mol	Chain	Length	Quality of chain
5	C	3	 33% 67%

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5590 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 Epidermal growth factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	194	Total	C	N	O	S	0	4	0
			1530	955	278	287	10			

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	515	GLY	-	expression tag	UNP P00533
A	516	ASN	-	expression tag	UNP P00533
A	517	SER	-	expression tag	UNP P00533
A	518	HIS	-	expression tag	UNP P00533
A	519	HIS	-	expression tag	UNP P00533
A	520	HIS	-	expression tag	UNP P00533
A	521	HIS	-	expression tag	UNP P00533
A	522	HIS	-	expression tag	UNP P00533
A	523	HIS	-	expression tag	UNP P00533

- Molecule 2 is a protein called Fab DL11 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	218	Total	C	N	O	S	0	2	0
			1631	1025	275	324	7			

- Molecule 3 is a protein called Fab DL11 light chain.

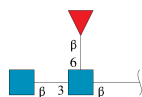
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	L	213	Total	C	N	O	S	0	5	0
			1679	1050	278	346	5			

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



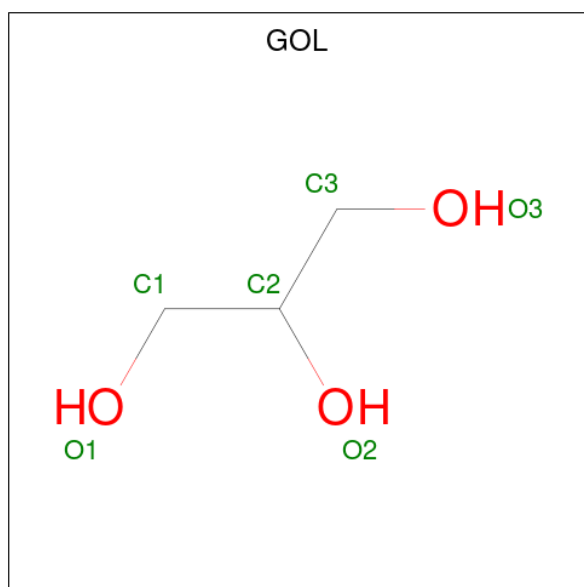
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	B	2	Total	C	N	O	0	0	0
			28	16	2	10			
4	D	2	Total	C	N	O	0	0	0
			28	16	2	10			

- Molecule 5 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-3)-[beta-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	C	3	Total	C	N	O	0	0	0
			38	22	2	14			

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	H	1	Total	C	O	0	0
			6	3	3		

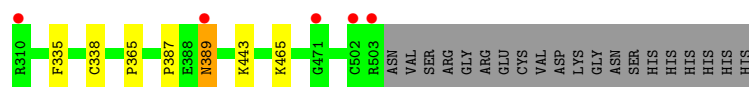
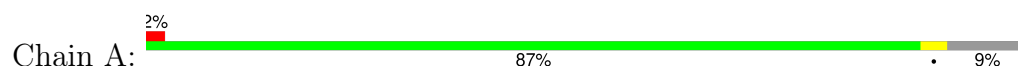
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	163	Total 163	O 163	0	0
7	H	240	Total 240	O 240	0	0
7	L	247	Total 247	O 247	0	0

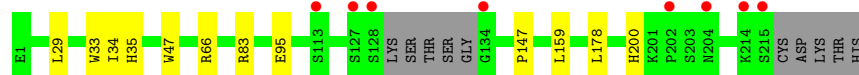
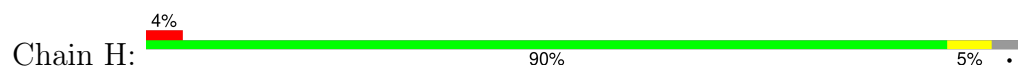
### 3 Residue-property plots [i](#)

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: Epidermal growth factor receptor



- Molecule 2: Fab DL11 heavy chain



- Molecule 3: Fab DL11 light chain



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



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



- Molecule 5: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-3)-[beta-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose

Chain C: 





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	81.93Å 200.68Å 49.43Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.80 50.00 – 1.80	Depositor EDS
% Data completeness (in resolution range)	97.9 (50.00-1.80) 97.8 (50.00-1.80)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.05	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.73 (at 1.81Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.181 , 0.215 0.182 , 0.218	Depositor DCC
$R_{free}$ test set	1507 reflections (2.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	22.0	Xtriage
Anisotropy	0.034	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 42.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	5590	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.10% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>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

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, GOL, FUL

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	0.46	0/1558	0.59	0/2104
2	H	0.49	0/1668	0.57	0/2271
3	L	0.47	0/1715	0.57	0/2330
All	All	0.47	0/4941	0.58	0/6705

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

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	1530	0	1519	6	0
2	H	1631	0	1585	16	0
3	L	1679	0	1621	9	0
4	B	28	0	25	0	0
4	D	28	0	25	0	0
5	C	38	0	34	0	0
6	H	6	0	8	2	0
7	A	163	0	0	1	0
7	H	240	0	0	2	0
7	L	247	0	0	2	0
All	All	5590	0	4817	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 3.

All (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)
3:L:22[B]:THR:HG22	3:L:72[B]:THR:HG22	1.45	0.96
2:H:35:HIS:HD2	2:H:47:TRP:HE1	1.14	0.93
3:L:20:THR:HG23	3:L:72[A]:THR:CG2	2.21	0.70
3:L:155:GLN:HE21	3:L:158:ASN:HD21	1.37	0.69
2:H:29:LEU:HD22	2:H:34:ILE:HG13	1.76	0.68
2:H:83[B]:ARG:CG	2:H:83[B]:ARG:HH11	2.07	0.68
1:A:365:PRO:HB3	1:A:387:PRO:HG3	1.76	0.67
2:H:147:PRO:O	2:H:200:HIS:HE1	1.78	0.67
2:H:35:HIS:CD2	2:H:47:TRP:HE1	2.05	0.64
2:H:35:HIS:HD2	2:H:47:TRP:NE1	1.95	0.61
3:L:83:PHE:CE1	3:L:105[B]:GLU:OE2	2.55	0.60
2:H:83[B]:ARG:HH11	2:H:83[B]:ARG:HG2	1.68	0.58
6:H:401:GOL:H11	7:H:569:HOH:O	2.04	0.56
3:L:90:GLN:HG2	7:L:567:HOH:O	2.06	0.56
3:L:163:VAL:HG22	3:L:175:LEU:HD12	1.90	0.53
2:H:83[B]:ARG:NH2	7:H:902:HOH:O	2.43	0.49
3:L:39:LYS:HD3	7:L:1085:HOH:O	2.13	0.48
2:H:83[B]:ARG:CG	2:H:83[B]:ARG:NH1	2.69	0.47
2:H:159:LEU:HB2	6:H:401:GOL:H12	1.96	0.47
1:A:389:ASN:ND2	7:A:601:HOH:O	2.48	0.47
3:L:89:GLN:HE21	3:L:96:TYR:HB3	1.80	0.46
3:L:22[B]:THR:HG22	3:L:72[B]:THR:CG2	2.33	0.44
2:H:35:HIS:CE1	2:H:95:GLU:HB2	2.53	0.44
1:A:465:LYS:HG3	2:H:33:TRP:CZ2	2.53	0.43
1:A:335:PHE:HA	1:A:338[A]:CYS:SG	2.60	0.41
2:H:66:ARG:HD3	2:H:83[B]:ARG:HH21	1.85	0.41
2:H:35:HIS:HE1	2:H:95:GLU:OE1	2.04	0.41
1:A:443:LYS:HA	1:A:443:LYS:HD3	1.92	0.41
2:H:178:LEU:C	2:H:178:LEU:HD12	2.42	0.40
1:A:465:LYS:HG3	2:H:33:TRP:CH2	2.56	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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	196/214 (92%)	194 (99%)	2 (1%)	0	100	100
2	H	216/228 (95%)	213 (99%)	3 (1%)	0	100	100
3	L	216/214 (101%)	211 (98%)	5 (2%)	0	100	100
All	All	628/656 (96%)	618 (98%)	10 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 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	173/187 (92%)	172 (99%)	1 (1%)	84	82
2	H	179/186 (96%)	179 (100%)	0	100	100
3	L	192/188 (102%)	191 (100%)	1 (0%)	86	86
All	All	544/561 (97%)	542 (100%)	2 (0%)	89	88

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

Mol	Chain	Res	Type
1	A	389	ASN
3	L	149	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	398	ASN
1	A	469	ASN
1	A	480	GLN
2	H	35	HIS
2	H	171	GLN
2	H	200	HIS
3	L	27	GLN
3	L	155	GLN

### 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 ⓘ

7 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	B	1	1,4	14,14,15	0.58	0	17,19,21	0.92	1 (5%)
4	NAG	B	2	4	14,14,15	0.52	0	17,19,21	1.07	1 (5%)
5	NAG	C	1	5,1	14,14,15	0.65	0	17,19,21	0.87	0
5	NAG	C	2	5	14,14,15	0.50	0	17,19,21	1.22	1 (5%)
5	FUL	C	3	5	10,10,11	0.74	0	14,14,16	2.44	3 (21%)
4	NAG	D	1	1,4	14,14,15	0.66	0	17,19,21	1.12	1 (5%)
4	NAG	D	2	4	14,14,15	0.50	0	17,19,21	0.77	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	NAG	B	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	B	2	4	-	1/6/23/26	0/1/1/1
5	NAG	C	1	5,1	-	4/6/23/26	0/1/1/1
5	NAG	C	2	5	-	4/6/23/26	0/1/1/1
5	FUL	C	3	5	-	-	0/1/1/1
4	NAG	D	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	D	2	4	-	3/6/23/26	0/1/1/1

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C	3	FUL	C1-C2-C3	-6.87	99.64	109.64
5	C	3	FUL	C1-O5-C5	-4.74	101.77	112.97
5	C	2	NAG	C1-O5-C5	4.34	118.00	112.19
4	D	1	NAG	O5-C1-C2	-3.00	106.64	111.29
4	B	2	NAG	C1-O5-C5	2.63	115.71	112.19
5	C	3	FUL	O2-C2-C3	2.16	114.63	110.15
4	B	1	NAG	O5-C1-C2	-2.09	108.05	111.29

There are no chirality outliers.

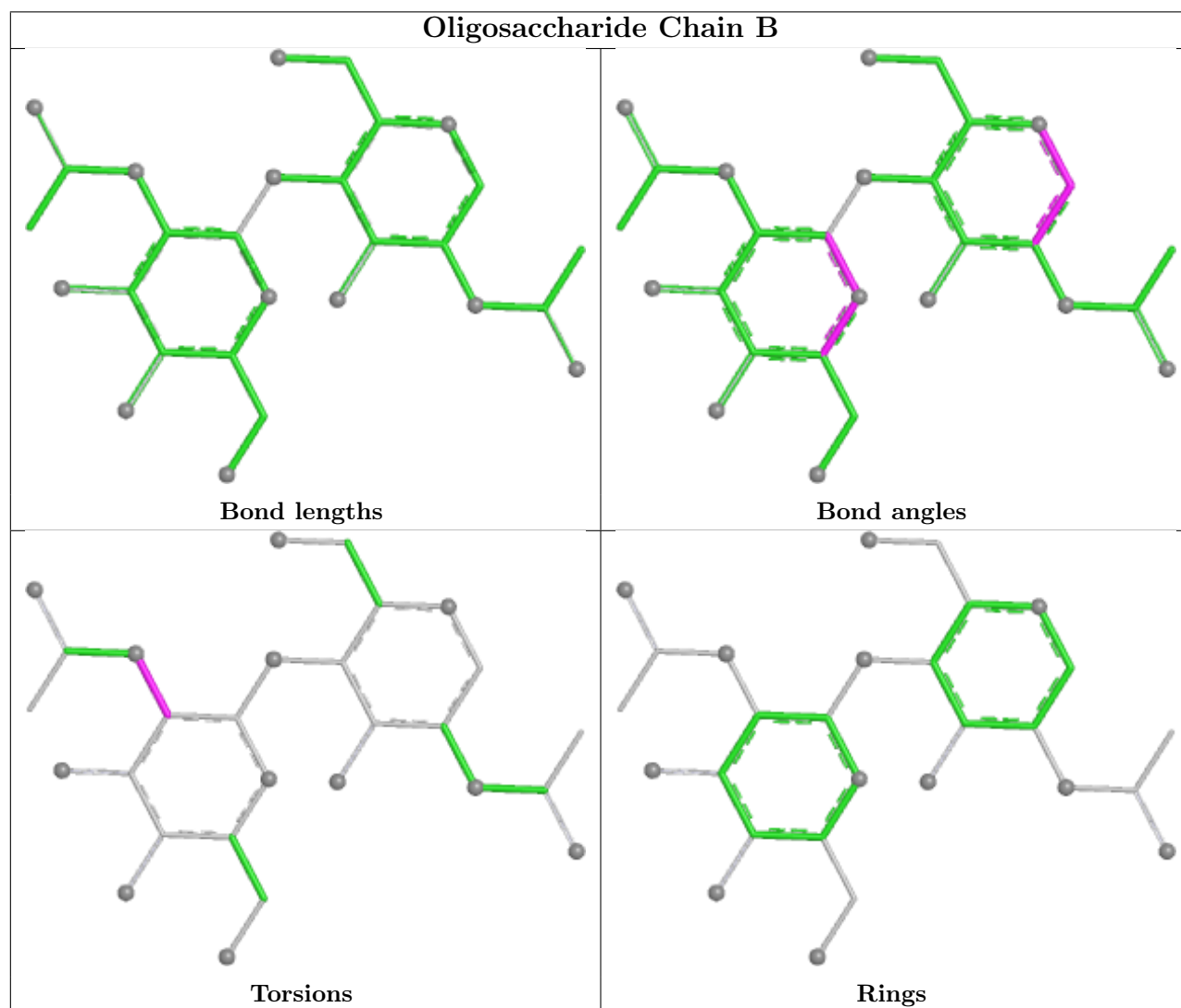
All (12) torsion outliers are listed below:

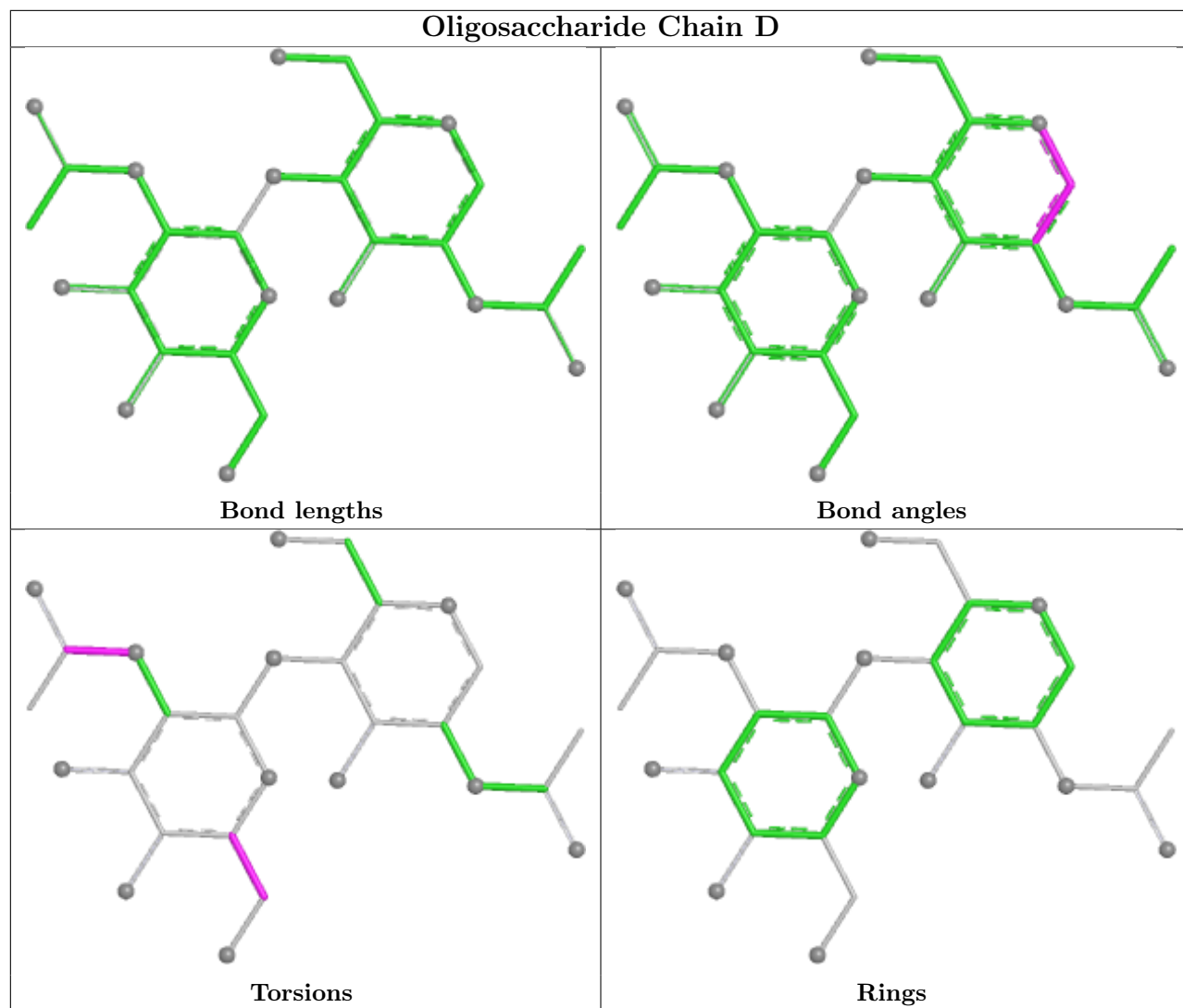
Mol	Chain	Res	Type	Atoms
4	D	2	NAG	C8-C7-N2-C2
4	D	2	NAG	O7-C7-N2-C2
5	C	2	NAG	C8-C7-N2-C2
5	C	2	NAG	O7-C7-N2-C2
5	C	1	NAG	C8-C7-N2-C2
5	C	1	NAG	O7-C7-N2-C2
5	C	1	NAG	O5-C5-C6-O6
5	C	2	NAG	C4-C5-C6-O6
5	C	2	NAG	O5-C5-C6-O6
5	C	1	NAG	C4-C5-C6-O6
4	B	2	NAG	C1-C2-N2-C7
4	D	2	NAG	C4-C5-C6-O6

There are no ring outliers.

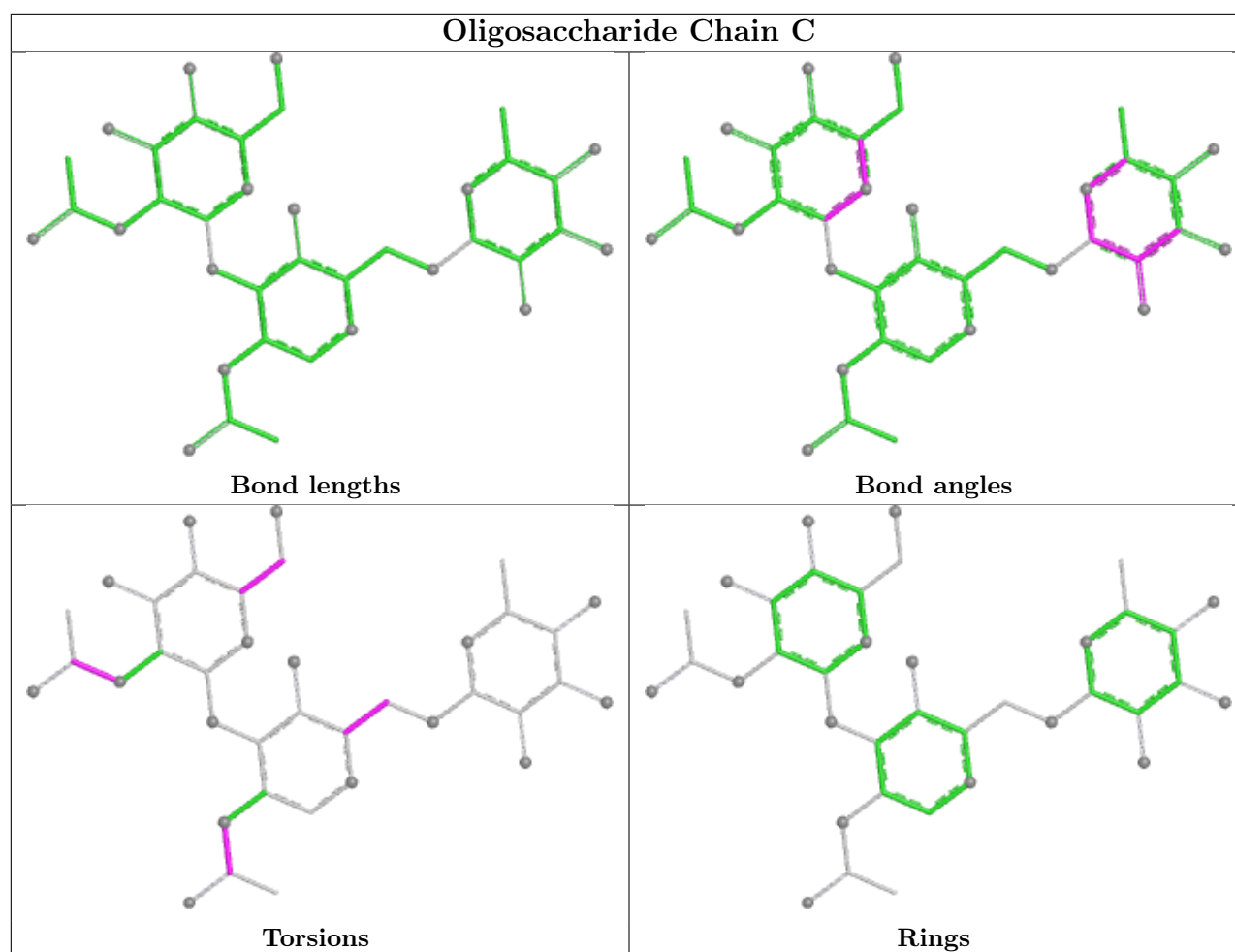
No monomer is involved in short contacts.

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](#)

1 ligand is 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	$\# Z  > 2$
6	GOL	H	401	-	5,5,5	0.48	0	5,5,5	0.15	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
6	GOL	H	401	-	-	3/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	H	401	GOL	O1-C1-C2-O2
6	H	401	GOL	O1-C1-C2-C3
6	H	401	GOL	O2-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	H	401	GOL	2	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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	194/214 (90%)	0.01	5 (2%) 57 55	9, 24, 42, 68	4 (2%)
2	H	218/228 (95%)	-0.34	8 (3%) 45 43	8, 19, 33, 72	2 (0%)
3	L	213/214 (99%)	-0.32	4 (1%) 66 64	9, 20, 34, 56	5 (2%)
All	All	625/656 (95%)	-0.22	17 (2%) 56 54	8, 20, 38, 72	11 (1%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	127	SER	6.2
2	H	128	SER	5.6
3	L	1	ASP	3.7
1	A	310	ARG	3.6
1	A	503	ARG	3.2
2	H	215	SER	3.2
2	H	134	GLY	3.0
2	H	113	SER	2.9
1	A	389	ASN	2.8
2	H	214	LYS	2.7
2	H	202	PRO	2.7
1	A	502	CYS	2.5
1	A	471	GLY	2.5
2	H	204	ASN	2.4
3	L	127	SER	2.4
3	L	126	LYS	2.3
3	L	213	GLU	2.1

### 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](#)

SUGAR-RSR INFOmissingINFO

### 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, 95<sup>th</sup> 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
6	GOL	H	401	6/6	0.86	0.14	37,39,43,44	0

### 6.5 Other polymers [i](#)

There are no such residues in this entry.