



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 03:41 PM UTC

PDB ID : 3N93 / pdb_00003n93
Title : Crystal structure of human CRFR2 alpha extracellular domain in complex with Urocortin 3
Authors : Pal, K.; Swaminathan, K.; Pioszak, A.A.; Xu, H.E.
Deposited on : 2010-05-28
Resolution : 2.50 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	:	4-5-2 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

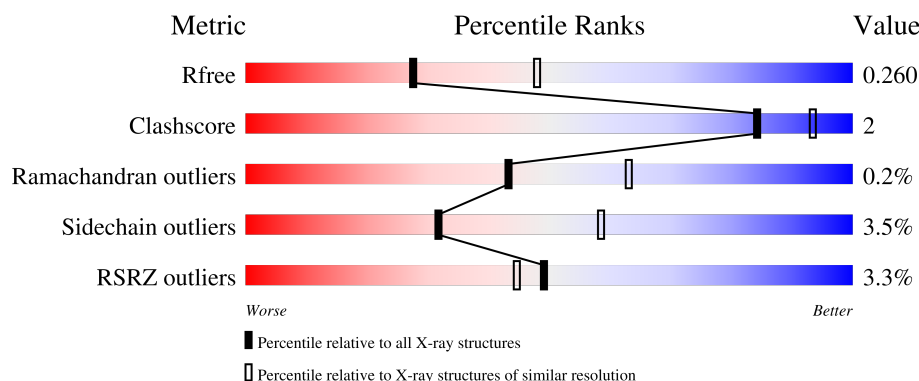
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	482	2% 91% 6% .
1	B	482	4% 86% 10% .
2	C	17	12% 88% 12%
3	D	2	50% 50%
3	E	2	100%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 7553 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 protein-CRFR2 alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	471	Total	C	N	O	S	0	0	0
			3651	2341	595	703	12			
1	B	464	Total	C	N	O	S	0	0	0
			3603	2308	587	696	12			

- Molecule 2 is a protein called Urocortin-3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	17	Total	C	N	O	S	0	0	1
			118	71	26	20	1			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	42	NH2	-	amidation	UNP Q969E3

- Molecule 3 is an oligosaccharide called alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose.



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

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



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

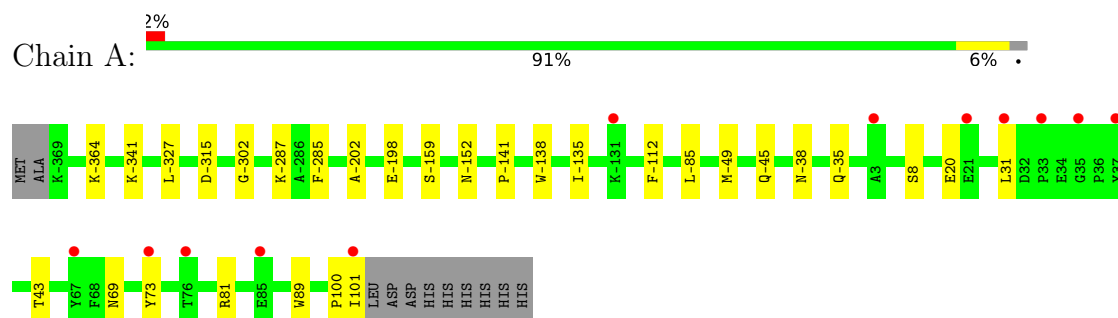
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	69	Total	O	0	0
			69	69		
5	B	59	Total	O	0	0
			59	59		
5	C	1	Total	O	0	0
			1	1		

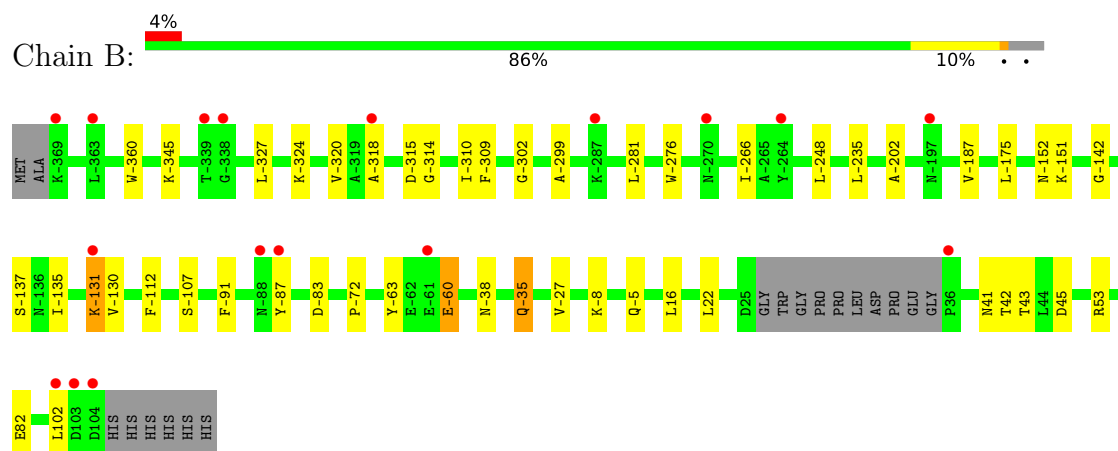
3 Residue-property plots

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.

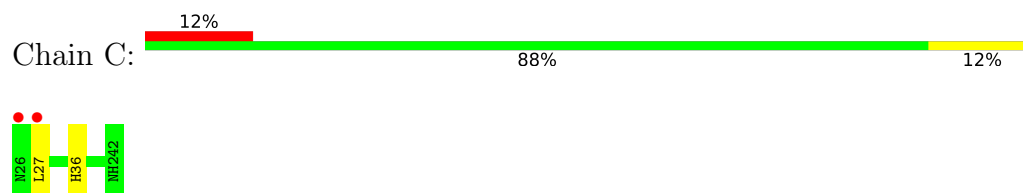
- Molecule 1: Maltose binding protein-CRFR2 alpha



- Molecule 1: Maltose binding protein-CRFR2 alpha



- Molecule 2: Urococtin-3



- Molecule 3: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose





- Molecule 3: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose

Chain E:

100%



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	54.28Å 208.51Å 212.55Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.50 50.00 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.0 (50.00-2.50) 99.2 (50.00-2.50)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.52 (at 2.48Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.220 , 0.266 0.218 , 0.260	Depositor DCC
R_{free} test set	2140 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	36.2	Xtriage
Anisotropy	0.598	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 31.2	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	0.93	EDS
Total number of atoms	7553	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.33% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, GLC, NH2

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	0.61	0/3743	0.84	0/5093
1	B	0.60	0/3689	0.87	3/5014 (0.1%)
2	C	0.49	0/117	0.83	0/157
All	All	0.61	0/7549	0.85	3/10264 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	-142	GLY	CA-C-N	6.17	126.35	119.32
1	B	-142	GLY	C-N-CA	6.17	126.35	119.32
1	B	-130	VAL	N-CA-C	5.75	116.69	108.93

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	-131	LYS	Peptide

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	3651	0	3570	9	0
1	B	3603	0	3528	24	0
2	C	118	0	119	1	0
3	D	23	0	21	0	0
3	E	23	0	21	0	0
4	B	6	0	8	1	0
5	A	69	0	0	1	0
5	B	59	0	0	2	0
5	C	1	0	0	0	0
All	All	7553	0	7267	33	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 2.

All (33) 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:42:THR:HG21	5:B:234:HOH:O	1.69	0.92
1:A:-302:GLY:HA3	1:A:-38:ASN:O	1.86	0.76
1:B:-360:TRP:HB3	1:B:-327:LEU:HD11	1.73	0.69
1:B:41:ASN:HD21	4:B:3968:GOL:H31	1.58	0.69
1:B:-131:LYS:HA	5:B:120:HOH:O	2.03	0.58
1:B:-318:ALA:HB1	2:C:36:HIS:NE2	2.21	0.56
1:B:-302:GLY:HA3	1:B:-38:ASN:O	2.06	0.55
1:A:-141:PRO:HA	1:A:-138:TRP:CE2	2.42	0.55
1:B:-309:PHE:HA	1:B:-107:SER:O	2.05	0.54
1:B:-83:ASP:OD1	1:B:-63:TYR:HB2	2.08	0.54
1:B:-152:ASN:HD21	1:B:-135:ILE:HG12	1.74	0.52
1:B:-8:LYS:O	1:B:-5:GLN:HB3	2.11	0.51
1:B:-35:GLN:NE2	1:B:-35:GLN:H	2.10	0.50
1:B:-137:SER:HB2	1:B:-72:PRO:HD3	1.94	0.50
1:A:-49:MET:HA	1:A:-49:MET:HE2	1.95	0.48
1:A:31:LEU:H	1:A:31:LEU:HD12	1.80	0.47
1:B:-281:LEU:HD12	1:B:-276:TRP:CZ2	2.51	0.46
1:B:-60:GLU:H	1:B:-60:GLU:HG2	1.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:GLU:HB3	5:A:116:HOH:O	2.18	0.43
1:B:-315:ASP:CG	1:B:-314:GLY:H	2.26	0.43
1:B:-324:LYS:O	1:B:-320:VAL:HG22	2.19	0.43
1:B:-315:ASP:CG	1:B:-314:GLY:N	2.78	0.42
1:B:-299:ALA:HB2	1:B:-266:ILE:HD13	2.00	0.42
1:B:-248:LEU:HD11	1:B:-235:LEU:HD21	2.01	0.42
1:B:-187:VAL:HG21	1:B:-27:VAL:HG22	2.01	0.41
1:B:45:ASP:C	1:B:45:ASP:OD1	2.63	0.41
1:B:16:LEU:HD23	1:B:16:LEU:HA	1.88	0.41
1:A:-152:ASN:HD21	1:A:-135:ILE:HG12	1.84	0.41
1:A:73:TYR:HA	1:A:100:PRO:HA	2.01	0.41
1:B:-35:GLN:H	1:B:-35:GLN:HE21	1.69	0.41
1:A:81:ARG:HD3	1:A:89:TRP:CE3	2.56	0.40
1:A:-285:PHE:HZ	1:A:-85:LEU:HD13	1.87	0.40
1:B:-91:PHE:O	1:B:-87:TYR:HB2	2.21	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	469/482 (97%)	462 (98%)	6 (1%)	1 (0%)	43	63
1	B	460/482 (95%)	447 (97%)	12 (3%)	1 (0%)	43	63
2	C	15/17 (88%)	15 (100%)	0	0	100	100
All	All	944/981 (96%)	924 (98%)	18 (2%)	2 (0%)	43	63

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	-202	ALA
1	A	-202	ALA

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	378/388 (97%)	364 (96%)	14 (4%)	30	57
1	B	374/388 (96%)	362 (97%)	12 (3%)	34	62
2	C	10/10 (100%)	9 (90%)	1 (10%)	7	15
All	All	762/786 (97%)	735 (96%)	27 (4%)	32	58

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	-364	LYS
1	A	-341	LYS
1	A	-327	LEU
1	A	-315	ASP
1	A	-287	LYS
1	A	-198	GLU
1	A	-159	SER
1	A	-112	PHE
1	A	-45	GLN
1	A	-35	GLN
1	A	8	SER
1	A	43	THR
1	A	69	ASN
1	A	101	ILE
1	B	-345	LYS
1	B	-310	ILE
1	B	-175	LEU
1	B	-151	LYS
1	B	-112	PHE
1	B	-60	GLU
1	B	-35	GLN
1	B	22	LEU
1	B	43	THR
1	B	53	ARG
1	B	82	GLU
1	B	102	LEU

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Mol	Chain	Res	Type
2	C	27	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	-352	ASN
1	A	-321	GLN
1	A	-169	ASN
1	A	-152	ASN
1	A	-45	GLN
1	A	-35	GLN
1	B	-352	ASN
1	B	-331	HIS
1	B	-321	GLN
1	B	-270	ASN
1	B	-246	ASN
1	B	-169	ASN
1	B	-152	ASN
1	B	-35	GLN
1	B	-15	GLN
1	B	41	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 ⓘ

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	$\# Z > 2$
3	GLC	D	1	3	12,12,12	0.64	0	17,17,17	0.92	0
3	GLC	D	2	3	11,11,12	0.70	0	15,15,17	0.79	1 (6%)
3	GLC	E	1	3	12,12,12	0.54	0	17,17,17	0.90	1 (5%)
3	GLC	E	2	3	11,11,12	0.67	0	15,15,17	0.78	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
3	GLC	D	1	3	-	2/2/22/22	0/1/1/1
3	GLC	D	2	3	-	1/2/19/22	0/1/1/1
3	GLC	E	1	3	-	0/2/22/22	0/1/1/1
3	GLC	E	2	3	-	2/2/19/22	0/1/1/1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	2	GLC	C1-O5-C5	2.54	115.59	112.19
3	D	2	GLC	C1-O5-C5	2.18	115.11	112.19
3	E	1	GLC	C1-C2-C3	2.11	114.65	110.36

There are no chirality outliers.

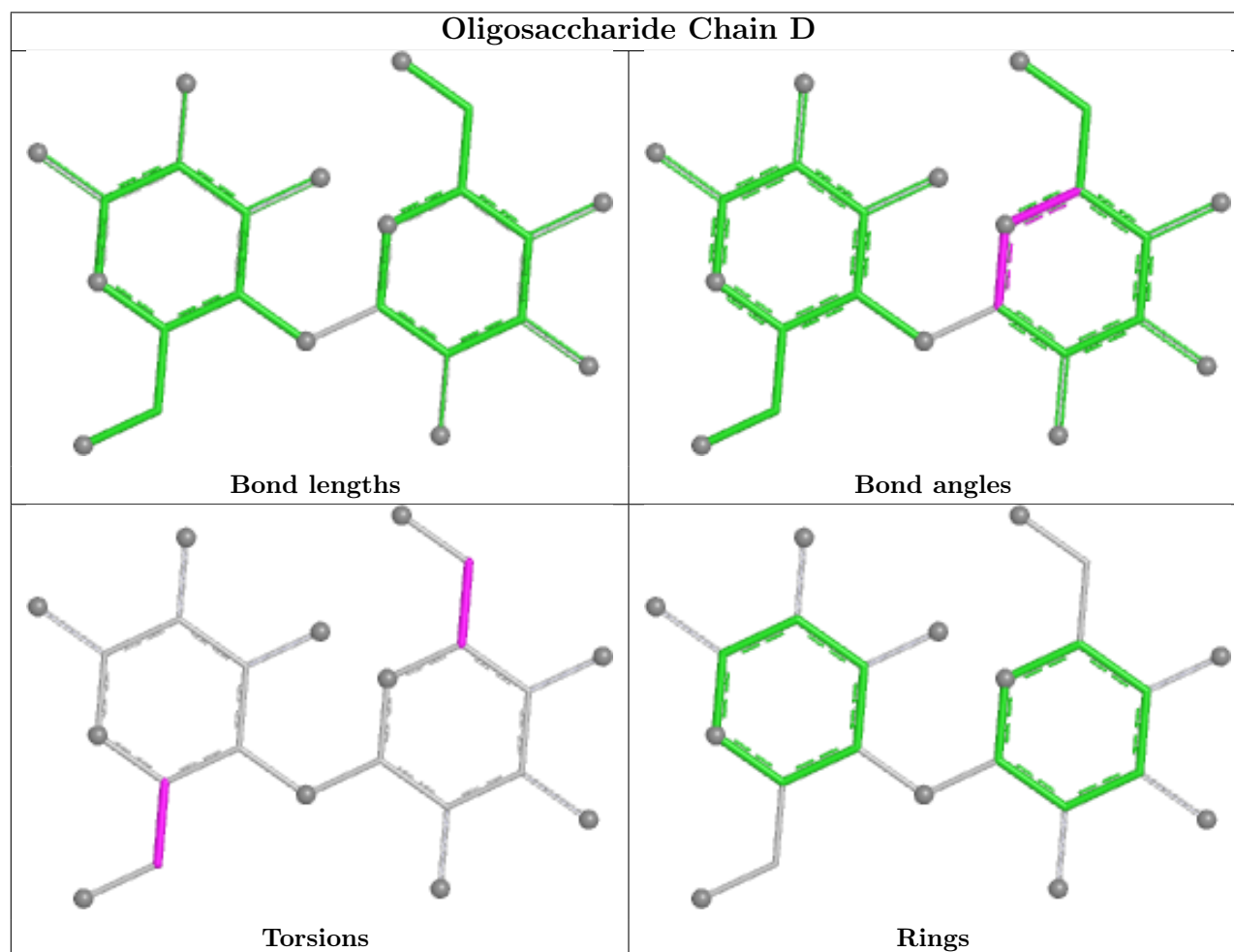
All (5) torsion outliers are listed below:

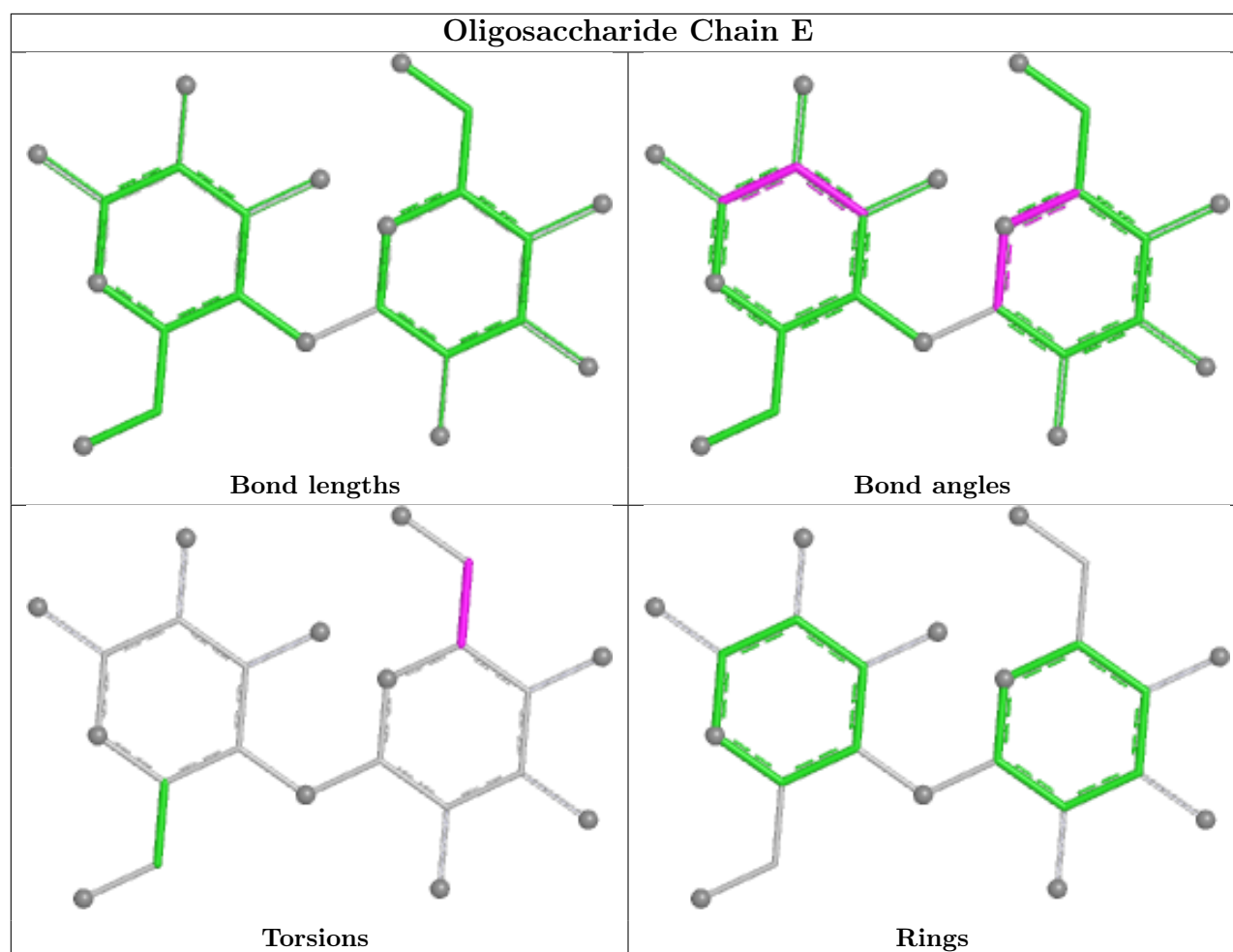
Mol	Chain	Res	Type	Atoms
3	D	1	GLC	C4-C5-C6-O6
3	D	1	GLC	O5-C5-C6-O6
3	E	2	GLC	C4-C5-C6-O6
3	E	2	GLC	O5-C5-C6-O6
3	D	2	GLC	C4-C5-C6-O6

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	$\# Z > 2$
4	GOL	B	3968	-	5,5,5	0.60	0	5,5,5	1.07	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	B	3968	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	3968	GOL	O1-C1-C2-C3
4	B	3968	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	3968	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

6.1 Protein, DNA and RNA chains

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	471/482 (97%)	-0.06	12 (2%) 58 54	17, 31, 66, 100	0
1	B	464/482 (96%)	0.32	17 (3%) 45 40	16, 38, 70, 90	0
2	C	16/17 (94%)	1.32	2 (12%) 8 6	46, 64, 103, 103	0
All	All	951/981 (96%)	0.15	31 (3%) 49 45	16, 34, 71, 103	0

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	101	ILE	5.9
2	C	27	LEU	5.4
2	C	26	ASN	4.1
1	A	67	TYR	3.5
1	A	31	LEU	3.2
1	B	-369	LYS	3.2
1	B	103	ASP	2.7
1	B	-87	TYR	2.6
1	B	-270	ASN	2.6
1	B	-131	LYS	2.5
1	B	104	ASP	2.5
1	B	-197	ASN	2.4
1	B	-318	ALA	2.4
1	B	-287	LYS	2.4
1	B	-264	TYR	2.3
1	A	3	ALA	2.3
1	A	76	THR	2.3
1	B	102	LEU	2.3
1	A	-131	LYS	2.2
1	B	-339	THR	2.2
1	A	85	GLU	2.2
1	B	-88	ASN	2.2
1	B	-363	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	73	TYR	2.1
1	B	36	PRO	2.1
1	B	-61	GLU	2.1
1	A	33	PRO	2.1
1	A	35	GLY	2.1
1	A	21	GLU	2.0
1	B	-338	GLY	2.0
1	A	37	TYR	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](#)

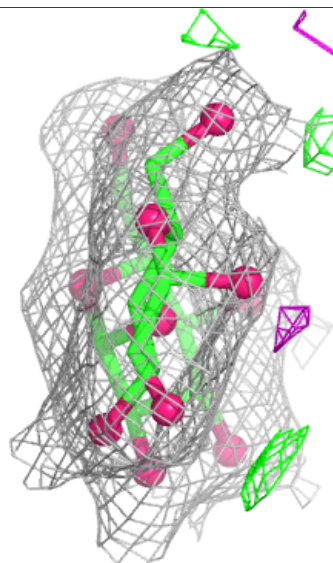
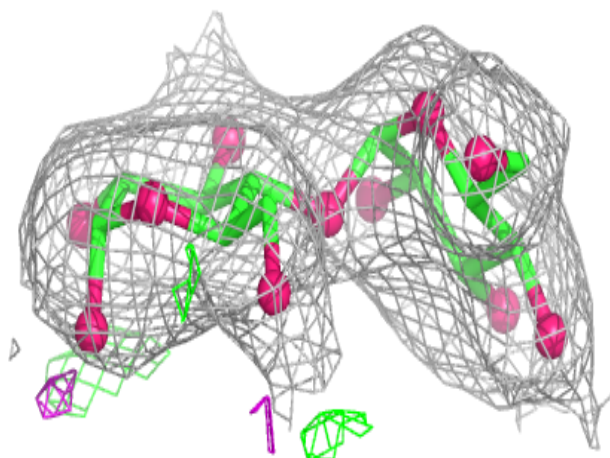
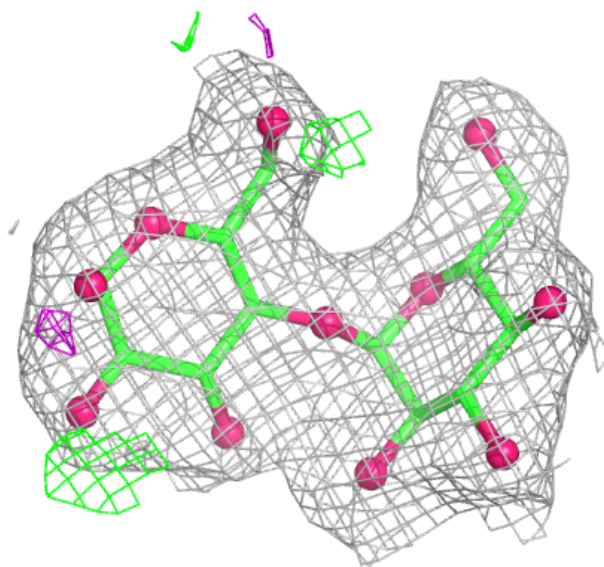
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

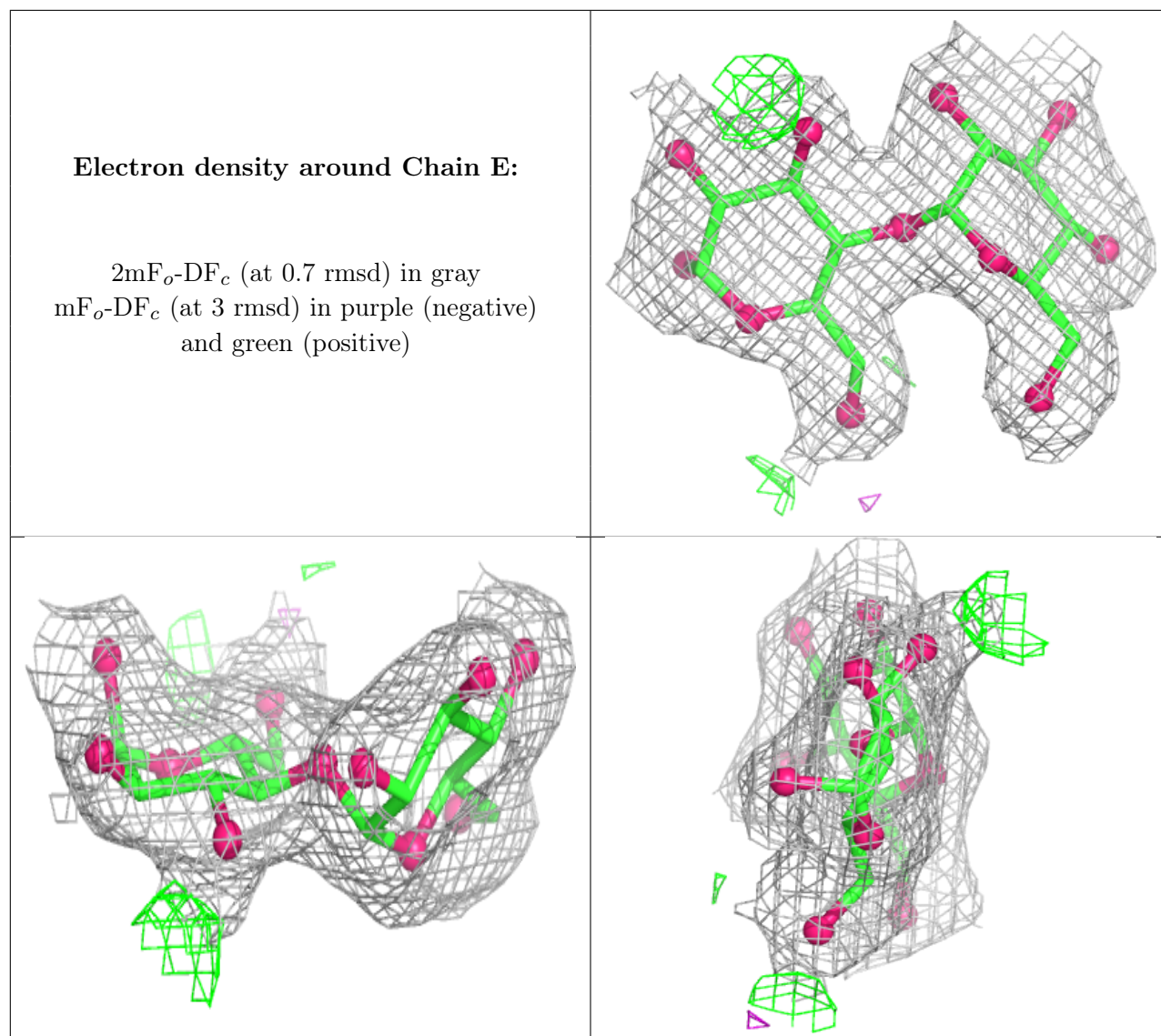
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	GLC	E	1	12/12	0.91	0.08	29,31,33,34	0
3	GLC	D	1	12/12	0.94	0.07	23,25,27,31	0
3	GLC	D	2	11/12	0.96	0.06	18,20,22,22	0
3	GLC	E	2	11/12	0.96	0.06	24,27,29,30	0

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 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
4	GOL	B	3968	6/6	0.89	0.11	24,29,29,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.