



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 03:38 PM UTC

PDB ID : 3NK3 / pdb_00003nk3
Title : Crystal structure of full-length sperm receptor ZP3 at 2.6 Å resolution
Authors : Monne, M.; Jovine, L.
Deposited on : 2010-06-18
Resolution : 2.60 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

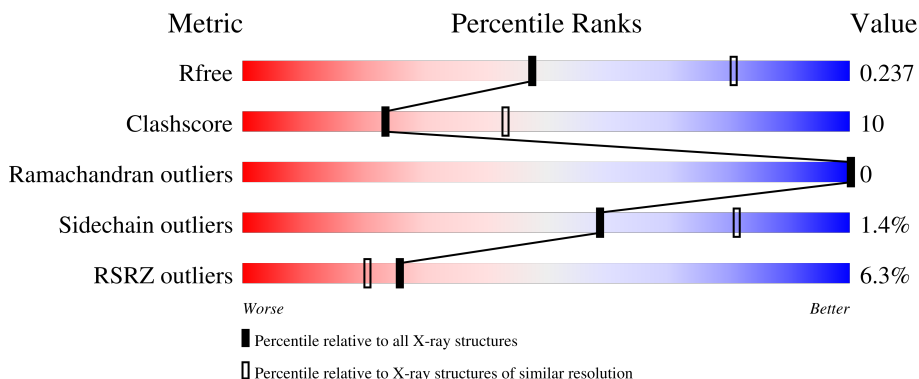
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	297	6% 79% 16% .
1	B	297	5% 71% 19% 9%
2	C	30	7% 57% 13% 30%
2	D	30	10% 33% 13% 53%
3	E	2	100%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9097 atoms, of which 4402 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 Zona pellucida 3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	284	Total	C	H	N	O	S	0	0	0
			4304	1373	2110	389	419	13			
1	B	270	Total	C	H	N	O	S	0	0	0
			4096	1300	2013	373	397	13			

There are 62 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	PRO	deletion	UNP P79762
A	?	-	TRP	deletion	UNP P79762
A	?	-	ASP	deletion	UNP P79762
A	?	-	ILE	deletion	UNP P79762
A	?	-	SER	deletion	UNP P79762
A	?	-	TRP	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762
A	?	-	ARG	deletion	UNP P79762
A	?	-	GLY	deletion	UNP P79762
A	?	-	ASP	deletion	UNP P79762
A	?	-	PRO	deletion	UNP P79762
A	?	-	SER	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762
A	?	-	TRP	deletion	UNP P79762
A	?	-	SER	deletion	UNP P79762
A	?	-	TRP	deletion	UNP P79762
A	?	-	GLY	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762
A	?	-	GLU	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762
A	?	-	HIS	deletion	UNP P79762
A	?	-	SER	deletion	UNP P79762
A	?	-	ARG	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	VAL	deletion	UNP P79762
A	?	-	ALA	deletion	UNP P79762
A	?	-	GLY	deletion	UNP P79762
A	?	-	SER	deletion	UNP P79762
A	?	-	HIS	deletion	UNP P79762
A	159	GLN	ASN	engineered mutation	UNP P79762
B	?	-	PRO	deletion	UNP P79762
B	?	-	TRP	deletion	UNP P79762
B	?	-	ASP	deletion	UNP P79762
B	?	-	ILE	deletion	UNP P79762
B	?	-	SER	deletion	UNP P79762
B	?	-	TRP	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	ARG	deletion	UNP P79762
B	?	-	GLY	deletion	UNP P79762
B	?	-	ASP	deletion	UNP P79762
B	?	-	PRO	deletion	UNP P79762
B	?	-	SER	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	TRP	deletion	UNP P79762
B	?	-	SER	deletion	UNP P79762
B	?	-	TRP	deletion	UNP P79762
B	?	-	GLY	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	GLU	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	HIS	deletion	UNP P79762
B	?	-	SER	deletion	UNP P79762
B	?	-	ARG	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	VAL	deletion	UNP P79762
B	?	-	ALA	deletion	UNP P79762
B	?	-	GLY	deletion	UNP P79762
B	?	-	SER	deletion	UNP P79762
B	?	-	HIS	deletion	UNP P79762
B	159	GLN	ASN	engineered mutation	UNP P79762

- Molecule 2 is a protein called Zona pellucida 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	21	Total	C	H	N	O	0	0	0
			309	101	148	33	27			

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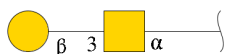
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	14	Total	C	H	N	O	0	0	0
			194	61	102	14	17			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	359	ALA	ARG	engineered mutation	UNP P79762
C	361	ALA	ARG	engineered mutation	UNP P79762
C	362	ALA	ARG	engineered mutation	UNP P79762
C	383	HIS	-	expression tag	UNP P79762
C	384	HIS	-	expression tag	UNP P79762
C	385	HIS	-	expression tag	UNP P79762
C	386	HIS	-	expression tag	UNP P79762
C	387	HIS	-	expression tag	UNP P79762
C	388	HIS	-	expression tag	UNP P79762
D	359	ALA	ARG	engineered mutation	UNP P79762
D	361	ALA	ARG	engineered mutation	UNP P79762
D	362	ALA	ARG	engineered mutation	UNP P79762
D	383	HIS	-	expression tag	UNP P79762
D	384	HIS	-	expression tag	UNP P79762
D	385	HIS	-	expression tag	UNP P79762
D	386	HIS	-	expression tag	UNP P79762
D	387	HIS	-	expression tag	UNP P79762
D	388	HIS	-	expression tag	UNP P79762

- Molecule 3 is an oligosaccharide called beta-D-galactopyranose-(1-3)-2-acetamido-2-deoxy-alpha-D-galactopyranose.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	2	Total	C	H	N	O	0	0	0
			49	14	24	1	10			

- Molecule 4 is CITRATE ANION (CCD ID: FLC) (formula: C₆H₅O₇).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	C	1	Total	C	H	O	0	0
			18	6	5	7		

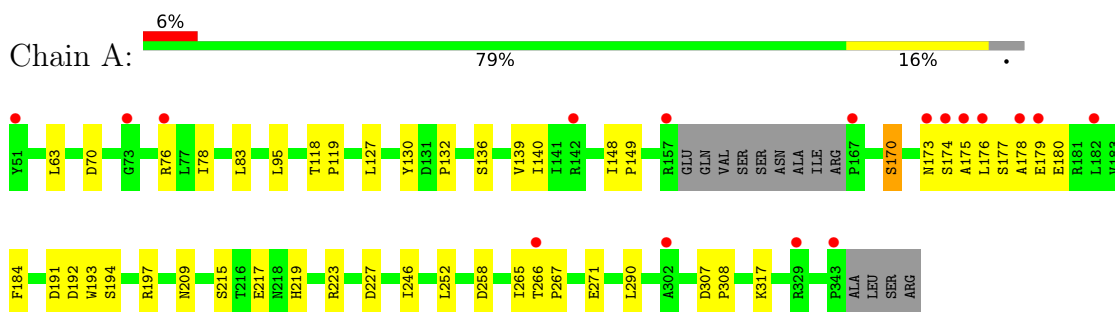
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	62	Total	O	0	0
			62	62		
5	B	57	Total	O	0	0
			57	57		
5	C	7	Total	O	0	0
			7	7		
5	D	1	Total	O	0	0
			1	1		

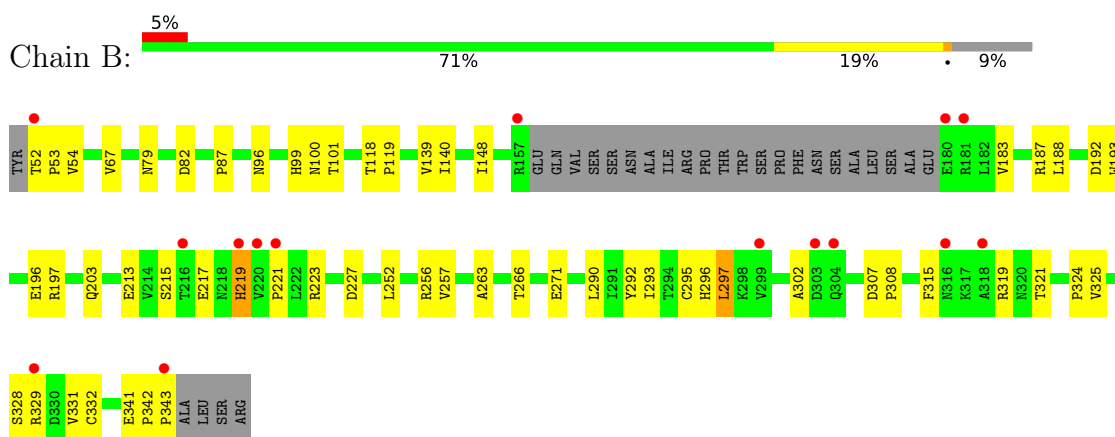
3 Residue-property plots [i](#)

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: Zona pellucida 3



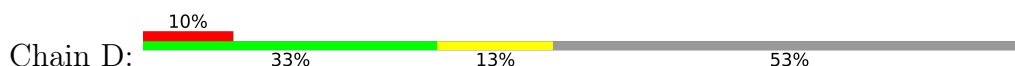
• Molecule 1: Zona pellucida 3



• Molecule 2: Zona pellucida 3



• Molecule 2: Zona pellucida 3





- Molecule 3: beta-D-galactopyranose-(1-3)-2-acetamido-2-deoxy-alpha-D-galactopyranose

Chain E:

100%

A2G1
GAL2

4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	98.39Å 98.39Å 257.37Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.32 – 2.60 48.32 – 2.60	Depositor EDS
% Data completeness (in resolution range)	94.8 (48.32-2.60) 94.9 (48.32-2.60)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.06 (at 2.61Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.5_2)	Depositor
R, R_{free}	0.219 , 0.249 0.207 , 0.237	Depositor DCC
R_{free} test set	1904 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	51.4	Xtriage
Anisotropy	0.559	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 52.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9097	wwPDB-VP
Average B, all atoms (Å ²)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.89% 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: GAL, A2G, FLC

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	0.63	0/2248	0.87	5/3075 (0.2%)
1	B	0.64	1/2131 (0.0%)	0.87	2/2913 (0.1%)
2	C	0.77	0/167	0.90	0/228
2	D	0.60	0/92	0.93	0/127
All	All	0.64	1/4638 (0.0%)	0.88	7/6343 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	148	ILE	CA-CB	-5.05	1.49	1.54

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	170	SER	CA-C-N	6.90	126.59	119.56
1	A	170	SER	C-N-CA	6.90	126.59	119.56
1	A	197	ARG	CA-C-N	5.28	125.22	119.78
1	A	197	ARG	C-N-CA	5.28	125.22	119.78
1	A	178	ALA	N-CA-C	-5.03	105.92	111.71

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	2194	2110	2110	37	0
1	B	2083	2013	2013	54	0
2	C	161	148	148	4	0
2	D	92	102	102	4	0
3	E	25	24	21	0	0
4	C	13	5	5	0	0
5	A	62	0	0	0	0
5	B	57	0	0	0	0
5	C	7	0	0	0	0
5	D	1	0	0	0	0
All	All	4695	4402	4399	91	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 10.

The worst 5 of 91 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:341:GLU:C	1:B:343:PRO:HD2	1.82	1.04
1:B:342:PRO:N	1:B:343:PRO:HD2	1.90	0.85
1:B:341:GLU:HB3	1:B:343:PRO:CD	2.08	0.83
1:B:297:LEU:N	1:B:297:LEU:HD23	1.98	0.79
1:B:341:GLU:HB3	1:B:343:PRO:HD2	1.73	0.70

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	280/297 (94%)	274 (98%)	6 (2%)	0	100	100
1	B	266/297 (90%)	258 (97%)	8 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	C	19/30 (63%)	19 (100%)	0	0	100	100
2	D	12/30 (40%)	12 (100%)	0	0	100	100
All	All	577/654 (88%)	563 (98%)	14 (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	247/258 (96%)	243 (98%)	4 (2%)	55	79
1	B	235/258 (91%)	232 (99%)	3 (1%)	61	82
2	C	17/21 (81%)	17 (100%)	0	100	100
2	D	10/21 (48%)	10 (100%)	0	100	100
All	All	509/558 (91%)	502 (99%)	7 (1%)	59	81

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	227	ASP
1	B	219	HIS
1	B	297	LEU
1	B	227	ASP
1	A	170	SER

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

Mol	Chain	Res	Type
1	A	289	ASN
1	B	100	ASN
1	B	309	GLN
1	A	144	ASN
1	A	57	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 ⓘ

2 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	A2G	E	1	3,1	14,14,15	0.68	0	17,19,21	1.48	2 (11%)
3	GAL	E	2	3	11,11,12	0.37	0	15,15,17	1.10	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	A2G	E	1	3,1	-	0/6/23/26	0/1/1/1
3	GAL	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	1	A2G	C3-C4-C5	-4.15	102.70	110.23
3	E	1	A2G	O7-C7-N2	2.25	125.96	121.98
3	E	2	GAL	C3-C4-C5	-2.18	106.27	110.23

There are no chirality outliers.

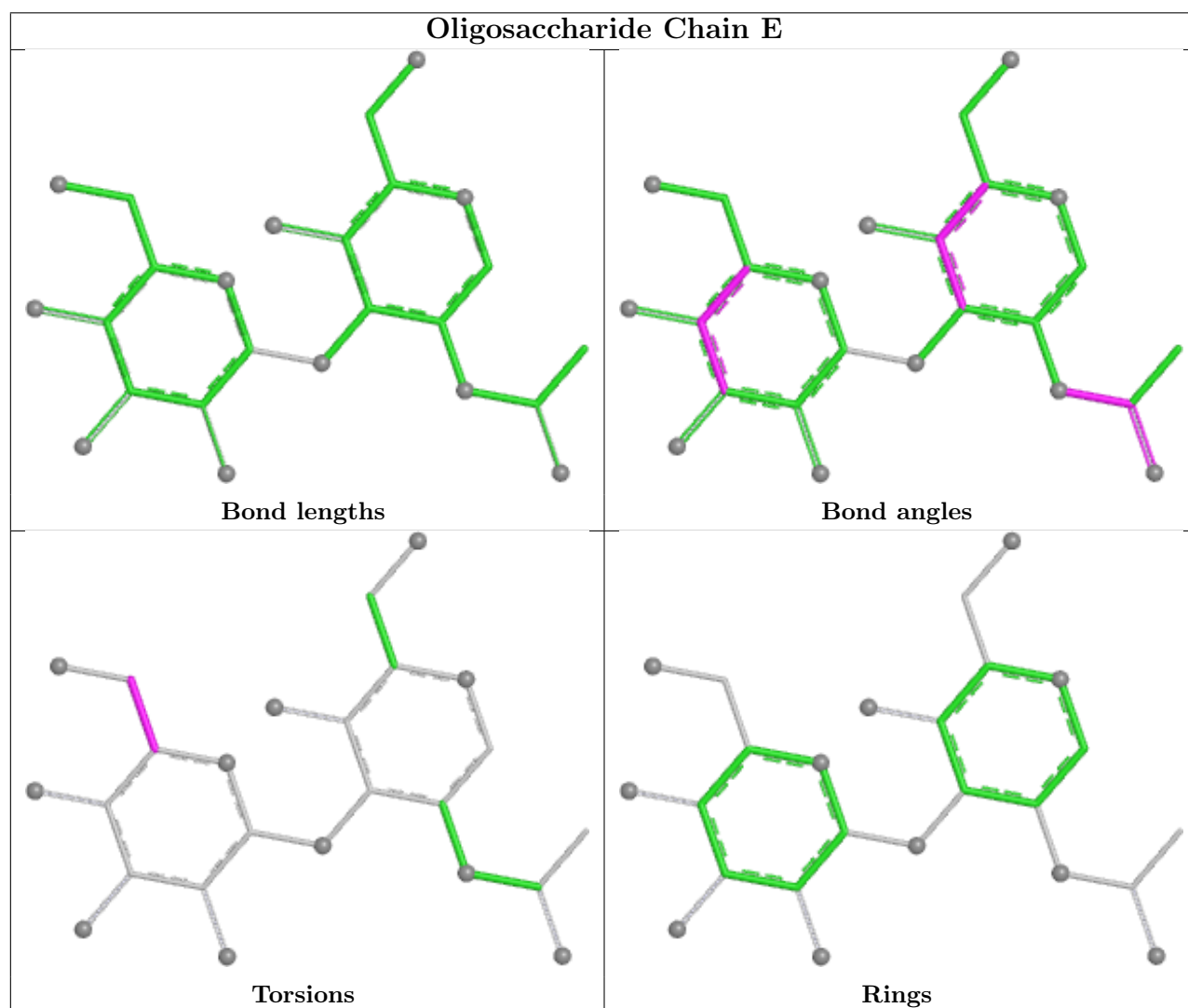
All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	E	2	GAL	O5-C5-C6-O6
3	E	2	GAL	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	FLC	C	910	-	12,12,12	1.78	1 (8%)	17,17,17	1.46	2 (11%)

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	FLC	C	910	-	-	5/16/16/16	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	910	FLC	CB-CBC	-5.06	1.48	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	910	FLC	OHB-CB-CBC	-2.96	104.76	108.96
4	C	910	FLC	OB1-CBC-CB	-2.64	116.99	122.09

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	C	910	FLC	CAC-CA-CB-CBC
4	C	910	FLC	CAC-CA-CB-CG
4	C	910	FLC	CAC-CA-CB-OHB
4	C	910	FLC	CBC-CB-CG-CGC
4	C	910	FLC	CA-CB-CG-CGC

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	284/297 (95%)	0.35	17 (5%) 27 22	33, 62, 120, 186	0
1	B	270/297 (90%)	0.31	15 (5%) 30 24	37, 65, 133, 185	0
2	C	21/30 (70%)	0.38	2 (9%) 14 10	44, 55, 76, 148	0
2	D	14/30 (46%)	1.17	3 (21%) 2 2	45, 66, 121, 123	0
All	All	589/654 (90%)	0.35	37 (6%) 26 20	33, 64, 130, 186	0

The worst 5 of 37 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	167	PRO	7.4
2	D	381	ALA	7.0
1	B	343	PRO	6.0
1	A	73	GLY	5.4
1	A	176	LEU	5.4

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

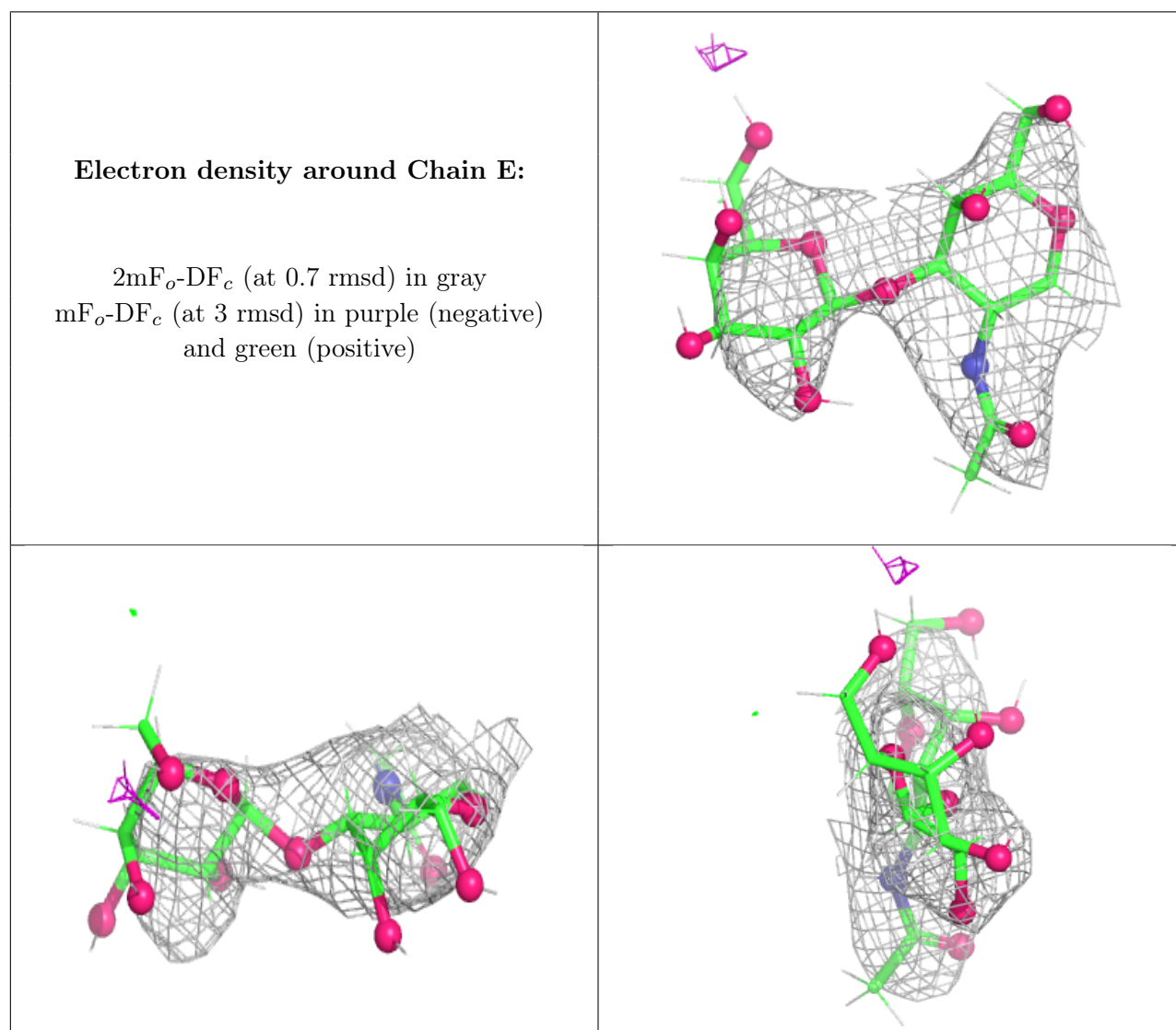
There are no non-standard protein/DNA/RNA residues in this entry.

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	GAL	E	2	11/12	0.42	0.22	156,193,227,233	0
3	A2G	E	1	14/15	0.86	0.16	108,143,172,182	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 ⓘ

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	FLC	C	910	13/13	0.94	0.12	52,75,94,99	0

6.5 Other polymers [i](#)

There are no such residues in this entry.