



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 07:08 AM EDT

PDB ID : 2H6H / pdb_00002h6h
Title : Y365F Protein Farnesyltransferase Mutant Complexed with a Farnesylated DDPTASACVLS Peptide Product at 1.8Å
Authors : Terry, K.L.; Beese, L.S.
Deposited on : 2006-05-31
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

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

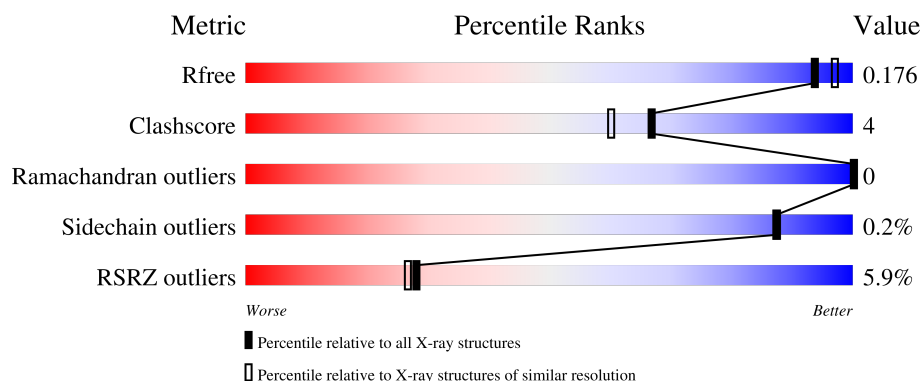
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

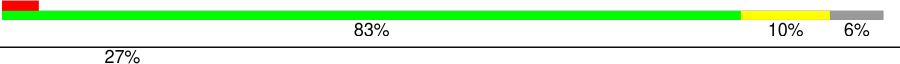
The reported resolution of this entry is 1.80 Å.

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}	180053	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (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 ≥ 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	382	
2	B	437	
3	P	11	
4	C	2	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 6719 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 Protein farnesyltransferase/geranylgeranyltransferase type I alpha subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	315	Total	C	N	O	S	0	0	0
			2683	1711	467	500	5			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	380	GLU	-	cloning artifact	UNP P49354
A	381	GLU	-	cloning artifact	UNP P49354
A	382	PHE	-	cloning artifact	UNP P49354

- Molecule 2 is a protein called Protein farnesyltransferase beta subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	410	Total	C	N	O	S	0	0	0
			3227	2065	552	588	22			

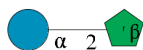
There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	865	PHE	TYR	engineered mutation	UNP P49356

- Molecule 3 is a protein called farnesylated peptide.

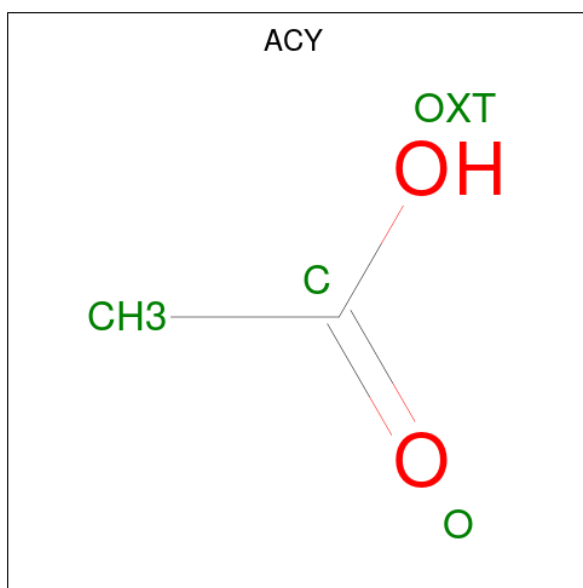
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	P	9	Total	C	N	O	S	0	0	0
			58	35	9	13	1			

- Molecule 4 is an oligosaccharide called beta-D-fructofuranose-(2-1)-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
4	C	2	Total	C	O	0	0	0
			23	12	11			

- Molecule 5 is ACETIC ACID (CCD ID: ACY) (formula: $C_2H_4O_2$).

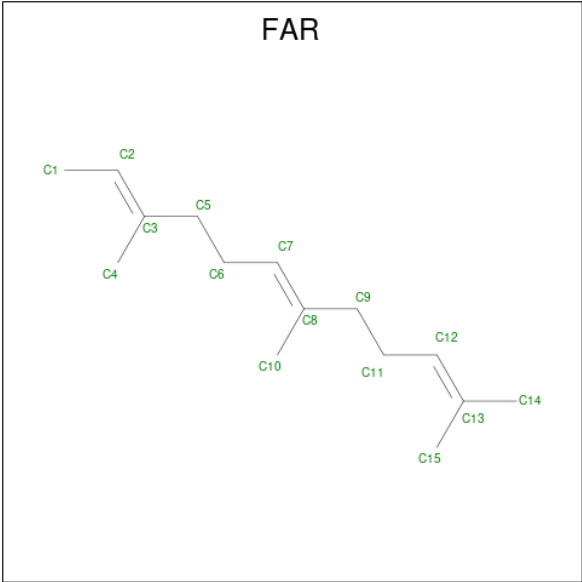


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	1	Total	Zn	0	0
			1	1		

- Molecule 7 is FARNESYL (CCD ID: FAR) (formula: $C_{15}H_{26}$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	P	1	Total	C	0	0
			15	15		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	327	Total	O	0	0
			327	327		
8	B	372	Total	O	0	0
			372	372		
8	P	9	Total	O	0	0
			9	9		

GLC1
FR02

4 Data and refinement statistics

Property	Value	Source
Space group	P 61	Depositor
Cell constants a, b, c, α , β , γ	178.78Å 178.78Å 64.59Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.59 – 1.80 49.59 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.7 (49.59-1.80) 99.8 (49.59-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.54 (at 1.79Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.177 , 0.180 0.174 , 0.176	Depositor DCC
R_{free} test set	5488 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	18.0	Xtriage
Anisotropy	0.049	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 40.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.021 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6719	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.80% 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: FRU, ZN, GLC, FAR, ACY

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	0.32	0/2750	0.80	8/3735 (0.2%)
2	B	0.34	0/3316	0.85	10/4506 (0.2%)
3	P	0.39	0/58	0.73	0/77
All	All	0.33	0/6124	0.83	18/8318 (0.2%)

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	185	GLU	N-CA-C	8.69	120.44	110.97
1	A	285	GLN	N-CA-C	7.55	119.51	111.28
2	B	920	VAL	N-CA-C	-6.92	102.16	108.95
2	B	875	HIS	N-CA-C	6.36	118.78	108.41
1	A	270	VAL	CA-C-N	6.02	126.46	119.47
1	A	270	VAL	C-N-CA	6.02	126.46	119.47
2	B	851	LEU	N-CA-C	5.81	117.80	109.14
2	B	903	ILE	N-CA-C	-5.50	99.78	108.90
2	B	801	SER	N-CA-C	-5.42	105.48	111.71
2	B	865	PHE	N-CA-C	5.38	119.01	112.23
2	B	664	GLY	N-CA-C	5.32	122.54	114.61
2	B	795	LEU	N-CA-C	5.24	117.63	110.55
1	A	348	LYS	N-CA-C	5.23	119.38	112.89
2	B	828	TRP	N-CA-C	-5.23	103.48	110.55
2	B	843	CYS	N-CA-C	5.18	119.56	112.88
1	A	85	ASN	CA-C-N	5.12	125.06	119.78
1	A	85	ASN	C-N-CA	5.12	125.06	119.78
1	A	367	HIS	N-CA-C	5.04	118.52	111.56

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	2683	0	2601	19	0
2	B	3227	0	3147	25	0
3	P	58	0	58	0	0
4	C	23	0	21	0	0
5	A	4	0	3	0	0
6	B	1	0	0	0	0
7	P	15	0	24	0	0
8	A	327	0	0	4	0
8	B	372	0	0	1	0
8	P	9	0	0	0	0
All	All	6719	0	5854	44	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.

All (44) 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:627:CYS:HB3	2:B:671:ILE:HD11	1.56	0.86
2:B:845:CYS:HB2	2:B:851:LEU:HD21	1.65	0.77
2:B:766:ARG:HH21	2:B:818:GLN:HG2	1.52	0.73
1:A:316:VAL:O	1:A:320:GLU:HG3	1.90	0.70
2:B:881:MET:C	2:B:882:LEU:HD12	2.21	0.66
1:A:221:GLN:HG3	8:A:1180:HOH:O	1.96	0.64
1:A:342:GLU:CD	1:A:357:ARG:HH12	2.07	0.62
1:A:298:GLN:O	1:A:302:LEU:HD23	2.01	0.61
2:B:577:LYS:HD3	2:B:846:PRO:O	2.02	0.60
2:B:739:ILE:HB	2:B:752:THR:HA	1.85	0.58
2:B:801:SER:O	2:B:805:ALA:HB3	2.03	0.58
1:A:303:GLN:N	1:A:304:PRO:HD2	2.20	0.56
2:B:692:LEU:HD23	2:B:699:VAL:CG2	2.36	0.55
2:B:753:PHE:HA	2:B:807:LEU:HD21	1.90	0.53
2:B:624:THR:O	2:B:628:GLN:HG3	2.09	0.51
2:B:806:GLY:HA2	2:B:872:ILE:HD13	1.93	0.51
1:A:58:LEU:HD11	1:A:126:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:850:LEU:HB2	2:B:863:THR:HA	1.94	0.48
2:B:763:LYS:HB2	2:B:763:LYS:NZ	2.29	0.47
2:B:908:VAL:O	2:B:912:THR:HG23	2.14	0.47
1:A:109:ARG:HG3	8:A:1256:HOH:O	2.15	0.47
1:A:353:LYS:O	1:A:357:ARG:HG2	2.14	0.46
1:A:354:GLU:HB2	8:A:1697:HOH:O	2.15	0.46
1:A:335:ASN:O	1:A:339:GLU:HG3	2.16	0.46
2:B:526:LEU:HD13	2:B:563:LYS:HB2	1.97	0.46
2:B:797:ASP:HB3	2:B:800:TYR:HD1	1.81	0.46
2:B:635:SER:OG	2:B:637:GLU:HG2	2.17	0.44
2:B:806:GLY:O	2:B:809:PRO:HD2	2.17	0.44
2:B:882:LEU:HD13	8:B:1780:HOH:O	2.18	0.44
2:B:651:ALA:HB3	2:B:652:PRO:CD	2.48	0.43
1:A:264:LEU:O	1:A:268:LYS:HG3	2.18	0.43
1:A:311:LEU:C	1:A:311:LEU:HD23	2.44	0.43
2:B:802:PHE:CE1	2:B:872:ILE:HD11	2.55	0.42
1:A:96:PHE:HA	1:A:126:LEU:HD13	2.02	0.42
1:A:84:PRO:C	1:A:86:PRO:HD3	2.45	0.42
1:A:342:GLU:OE1	1:A:357:ARG:NH1	2.52	0.41
1:A:87:VAL:O	1:A:88:VAL:C	2.63	0.41
2:B:881:MET:O	2:B:882:LEU:HD12	2.20	0.41
1:A:109:ARG:HH11	1:A:109:ARG:CB	2.34	0.41
1:A:330:LYS:HG2	8:A:1644:HOH:O	2.20	0.41
1:A:112:ARG:HA	1:A:140:LEU:CD2	2.50	0.40
2:B:692:LEU:HD23	2:B:699:VAL:HG22	2.02	0.40
2:B:851:LEU:HD23	2:B:858:ARG:HA	2.03	0.40
2:B:808:LEU:HD13	2:B:808:LEU:HA	1.92	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	313/382 (82%)	301 (96%)	12 (4%)	0	100	100
2	B	408/437 (93%)	401 (98%)	7 (2%)	0	100	100
3	P	7/11 (64%)	7 (100%)	0	0	100	100
All	All	728/830 (88%)	709 (97%)	19 (3%)	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	294/344 (86%)	294 (100%)	0	100	100
2	B	346/370 (94%)	345 (100%)	1 (0%)	86	86
3	P	7/9 (78%)	7 (100%)	0	100	100
All	All	647/723 (90%)	646 (100%)	1 (0%)	87	87

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	851	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	218	ASN
1	A	221	GLN
1	A	225	GLN
1	A	234	ASN
1	A	278	ASN
1	A	297	ASN
1	A	364	GLN
2	B	628	GLN
2	B	775	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
4	GLC	C	1	4	11,11,12	2.97	4 (36%)	15,15,17	1.48	3 (20%)
4	FRU	C	2	4	11,12,12	1.42	1 (9%)	10,18,18	0.70	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	GLC	C	1	4	-	0/2/19/22	0/1/1/1
4	FRU	C	2	4	-	0/5/24/24	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	1	GLC	C2-C3	8.68	1.65	1.52
4	C	2	FRU	O2-C2	3.79	1.47	1.40
4	C	1	GLC	O5-C5	2.53	1.48	1.43
4	C	1	GLC	C4-C5	2.34	1.58	1.53
4	C	1	GLC	O5-C1	2.06	1.47	1.43

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	1	GLC	C1-O5-C5	3.94	117.47	112.19
4	C	1	GLC	C1-C2-C3	-2.46	106.06	109.64
4	C	1	GLC	O3-C3-C2	-2.19	105.59	110.05

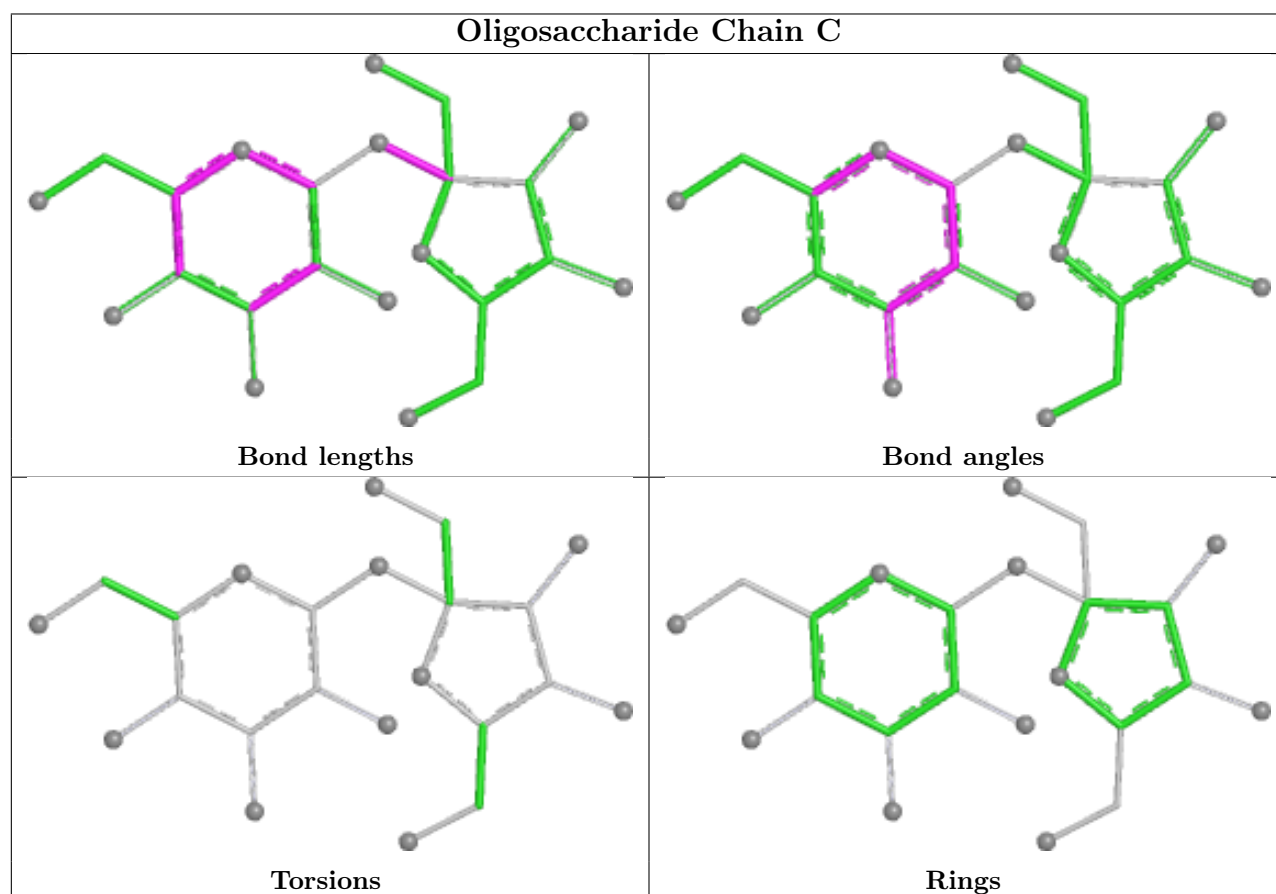
There are no chirality outliers.

There are no torsion outliers.

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](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 for Mogul analysis.

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	$\# Z > 2$
7	FAR	P	2010	3	14,14,14	0.60	0	15,16,16	0.53	0
5	ACY	A	3004	-	3,3,3	1.27	0	3,3,3	1.65	1 (33%)

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
7	FAR	P	2010	3	-	1/14/14/14	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
5	A	3004	ACY	O-C-CH3	-2.24	113.34	122.53

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	P	2010	FAR	C9-C11-C12-C13

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	315/382 (82%)	0.37	24 (7%) 20 18	12, 20, 36, 50	0
2	B	410/437 (93%)	-0.14	16 (3%) 43 43	10, 15, 26, 37	0
3	P	9/11 (81%)	1.55	3 (33%) 1 1	14, 22, 39, 42	0
All	All	734/830 (88%)	0.10	43 (5%) 28 27	10, 17, 30, 50	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	55	PHE	8.2
1	A	369	THR	7.2
1	A	368	SER	6.4
3	P	2001	PRO	5.1
2	B	515	SER	4.4
1	A	56	VAL	4.2
1	A	328	ASP	4.2
1	A	307	SER	3.9
1	A	303	GLN	3.7
2	B	879	GLY	3.6
2	B	924	GLU	3.6
1	A	59	ASP	3.6
1	A	301	ASP	3.5
1	A	302	LEU	3.3
1	A	58	LEU	3.2
2	B	881	MET	3.1
1	A	326	GLN	3.1
2	B	620	GLN	3.0
1	A	300	LEU	2.9
2	B	819	GLY	2.9
1	A	109	ARG	2.9
1	A	306	HIS	2.8
1	A	57	SER	2.8

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Mol	Chain	Res	Type	RSRZ
2	B	917	GLN	2.8
2	B	532	ARG	2.7
2	B	516	SER	2.7
1	A	304	PRO	2.6
1	A	305	SER	2.6
2	B	766	ARG	2.6
1	A	329	ASN	2.6
3	P	2005	ALA	2.5
1	A	367	HIS	2.4
2	B	880	ALA	2.4
1	A	330	LYS	2.4
2	B	576	GLU	2.3
2	B	825	MET	2.3
3	P	2003	ALA	2.2
2	B	618	ILE	2.2
1	A	346	LYS	2.1
1	A	150	GLU	2.1
2	B	877	GLY	2.1
1	A	327	CYS	2.1
2	B	588	GLN	2.0

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

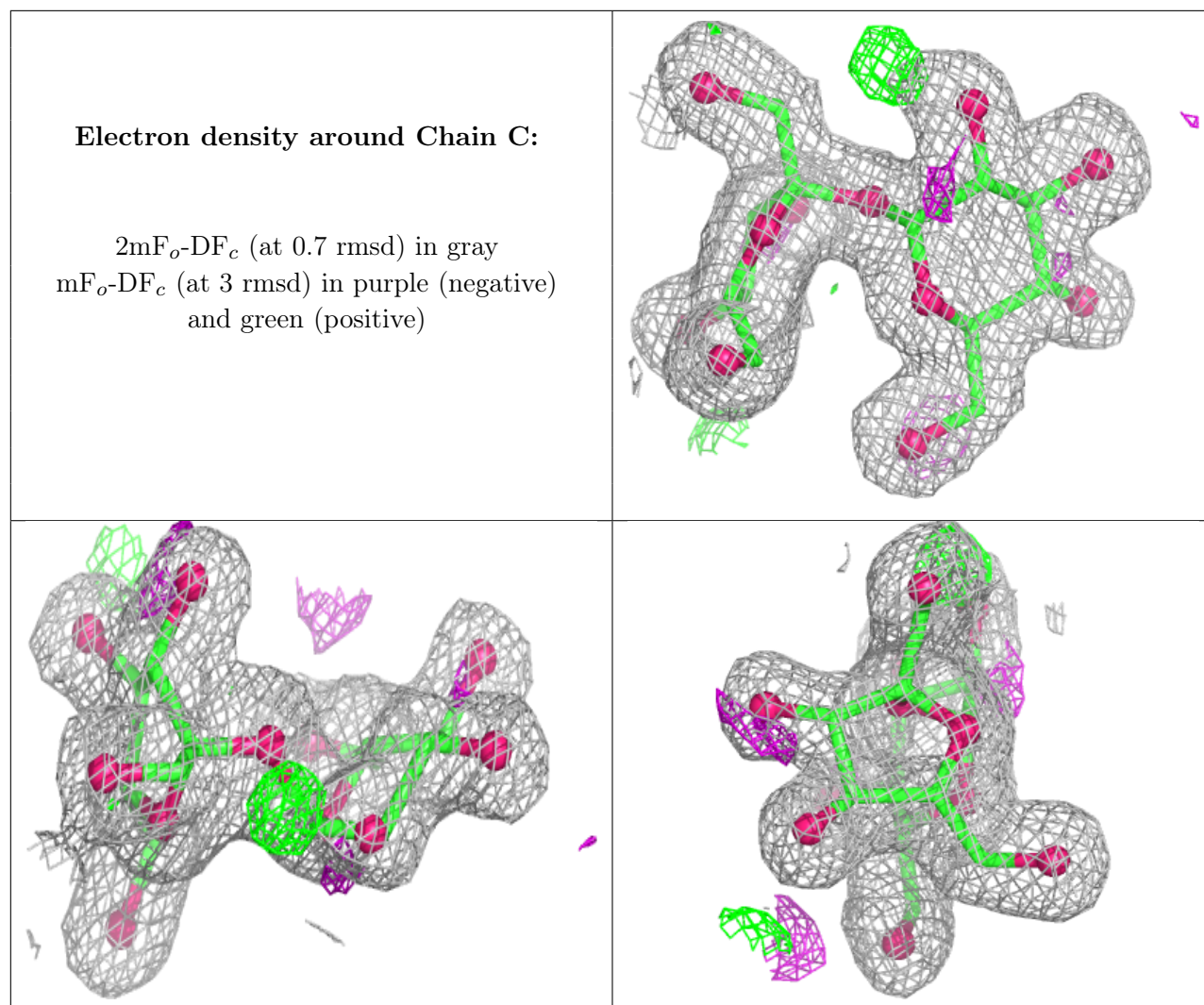
There are no non-standard protein/DNA/RNA residues in this entry.

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(Å ²)	Q<0.9
4	GLC	C	1	11/12	-	-	23,24,24,24	0
4	FRU	C	2	12/12	-	-	18,22,23,23	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](#)

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
7	FAR	P	2010	15/15	0.94	0.08	16,17,19,19	0
5	ACY	A	3004	4/4	0.97	0.09	18,18,18,19	0
6	ZN	B	1001	1/1	1.00	0.02	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.