

Full wwPDB X-ray Structure Validation Report (i)

Sep 3, 2023 – 03:43 PM EDT

PDB ID : 3SO3

Title : Structures of Fab-Protease Complexes Reveal a Highly Specific Non-Canonical

Mechanism of Inhibition.

Authors: Schneider, E.L.; Farady, C.J.; Egea, P.F.; Goetz, D.H.; Baharuddin, A.; Craik,

C.S.

Deposited on : 2011-06-29

Resolution : 2.10 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 (i) 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 (1)) were used in the production of this report:

 $Mol Probity \quad : \quad 4.02b\text{--}467$

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13 EDS : 2.35

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

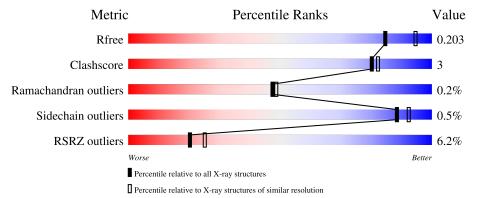
Validation Pipeline (wwPDB-VP) : 2.35

1 Overall quality at a glance (i)

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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (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 <=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	241	93%	7%
2	В	217	92%	7%
3	С	228	11% 89%	7% •
4	D	2	100%	



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 5605 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 Suppressor of tumorigenicity 14 protein.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	240	Total	C	N 227	O 247	S 10	0	1	0
1	A	240	1862	1178	327	347	10	U		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	122	SER	CYS	engineered mutation	UNP Q9Y5Y6

• Molecule 2 is a protein called A11 FAB light chain.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
2	В	216	Total	C	N	0	S	0	0	0
			1640	1027	280	329	4			

• Molecule 3 is a protein called A11 FAB heavy chain.

\mathbf{Mol}	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
3	С	220	Total 1607	C 1014	N 270	O 316	S 7	0	0	0

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



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

• Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total 12	C 6	O 6	0	1

• Molecule 6 is water.

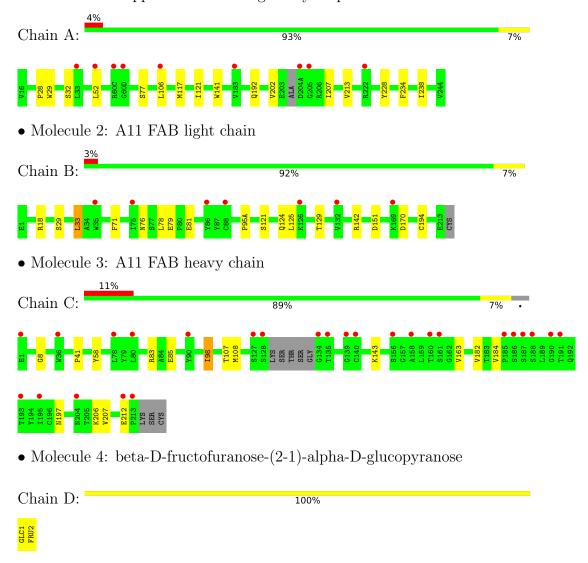
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	178	Total O 178 178	0	0
6	В	156	Total O 156 156	0	0
6	С	127	Total O 127 127	0	0



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: Suppressor of tumorigenicity 14 protein





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 64	Depositor
Cell constants	130.60Å 130.60Å 96.94Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	19.88 - 2.10	Depositor
Resolution (A)	19.88 - 2.10	EDS
% Data completeness	99.7 (19.88-2.10)	Depositor
(in resolution range)	99.9 (19.88-2.10)	EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$< I/\sigma(I) > 1$	2.11 (at 2.09Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.161 , 0.194	Depositor
it, it free	0.172 , 0.203	DCC
R_{free} test set	2774 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	44.6	Xtriage
Anisotropy	0.124	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35, 62.2	EDS
L-test for twinning ²	$< L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	0.038 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5605	wwPDB-VP
Average B, all atoms (\mathring{A}^2)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.51% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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, GLC, GOL

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	Bo	nd lengths	Bo	nd angles
IVIOI	Chain	RMSZ	RMSZ $\# Z > 5$		# Z > 5
1	A	0.75	0/1916	0.75	0/2604
2	В	0.90	3/1678 (0.2%)	0.88	5/2286 (0.2%)
3	С	0.78	0/1643	0.77	0/2238
All	All	0.81	3/5237 (0.1%)	0.80	5/7128 (0.1%)

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 maintain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	С	0	1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\mathring{A})$	$Ideal(\AA)$
2	В	151	ASP	CG-OD1	6.98	1.41	1.25
2	В	151	ASP	CG-OD2	6.36	1.40	1.25
2	В	194	CYS	CB-SG	-6.20	1.71	1.82

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	151	ASP	CB-CG-OD2	-7.02	111.98	118.30
2	В	142	ARG	NE-CZ-NH1	5.71	123.16	120.30
2	В	170	ASP	CB-CG-OD1	5.31	123.08	118.30
2	В	33	LEU	CA-CB-CG	-5.31	103.10	115.30
2	В	78	LEU	CB-CG-CD2	-5.22	102.13	111.00

There are no chirality outliers.



All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	С	212	GLU	Peptide

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	1862	0	1780	9	0
2	В	1640	0	1580	9	0
3	С	1607	0	1570	10	0
4	D	23	0	21	0	0
5	A	12	0	16	0	0
6	A	178	0	0	2	0
6	В	156	0	0	1	1
6	С	127	0	0	2	1
All	All	5605	0	4967	27	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 3.

All (27) 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:A:77:SER:OG	6:A:556:HOH:O	2.07	0.73	
2:B:18:ARG:NH1	2:B:76:ASN:OD1	2.26	0.69	
3:C:41:PRO:O	6:C:426:HOH:O	2.13	0.66	
2:B:121:SER:O	2:B:125:LEU:HD12	1.99	0.63	
1:A:117:MET:HE2	6:A:524:HOH:O	2.04	0.57	
2:B:79:GLU:HB3	2:B:81:GLU:OE2	2.04	0.57	
2:B:121:SER:O	2:B:125:LEU:CD1	2.54	0.56	
1:A:234:PHE:O	1:A:238:ILE:HG13	2.09	0.52	
3:C:8:GLY:O	3:C:107:THR:HG21	2.11	0.50	
3:C:163:VAL:HG22	3:C:182:VAL:HB	1.95	0.49	
3:C:108:MET:HE2	6:C:425:HOH:O	2.12	0.48	
3:C:206:LYS:O	3:C:207:VAL:HG23	2.14	0.47	
3:C:83:ARG:HD3	3:C:85:GLU:OE1	2.15	0.46	

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${f distance}({ m \AA})$	overlap (Å)
1:A:52:LEU:HB2	1:A:106:LEU:HB2	1.97	0.45
3:C:182:VAL:HG22	3:C:184:VAL:HG13	1.98	0.45
2:B:33:LEU:HD22	2:B:71:PHE:CG	2.51	0.45
2:B:81:GLU:H	2:B:81:GLU:CD	2.21	0.44
3:C:98:ILE:O	3:C:98:ILE:HG23	2.18	0.44
2:B:33:LEU:HD22	2:B:71:PHE:CD1	2.53	0.44
6:B:439:HOH:O	3:C:143:LYS:NZ	2.51	0.43
1:A:202:VAL:HG22	1:A:207:ILE:HD12	2.00	0.43
1:A:213:VAL:HG22	1:A:228:TYR:HE1	1.83	0.43
2:B:124:GLN:HG2	2:B:129:THR:O	2.19	0.43
1:A:29:TRP:CG	1:A:121:ILE:HB	2.55	0.42
1:A:32:SER:HB2	1:A:141:TRP:CZ3	2.55	0.41
2:B:95(A):PRO:HG2	3:C:58:TYR:CE1	2.55	0.41
1:A:28:PRO:HD2	1:A:29:TRP:CZ3	2.56	0.41

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	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
6:B:554:HOH:O	6:C:314:HOH:O[2_655]	1.96	0.24

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	Perce	entiles
1	A	237/241 (98%)	232 (98%)	5 (2%)	0	100	100
2	В	214/217 (99%)	208 (97%)	6 (3%)	0	100	100
3	С	216/228 (95%)	212 (98%)	3 (1%)	1 (0%)	29	26
All	All	667/686 (97%)	652 (98%)	14 (2%)	1 (0%)	47	54

All (1) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
3	С	98	ILE

5.3.2 Protein sidechains (i)

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	Perce	ntiles
1	A	198/197 (100%)	197 (100%)	1 (0%)	88	92
2	В	182/187 (97%)	181 (100%)	1 (0%)	88	92
3	С	177/187 (95%)	176 (99%)	1 (1%)	86	90
All	All	557/571 (98%)	554 (100%)	3 (0%)	88	92

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	192	GLN
2	В	29	SER
3	С	197	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

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	Bo	Bond lengths			Bond angles		
MIOI			rtes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
4	GLC	D	1	4	11,11,12	1.18	1 (9%)	15,15,17	1.83	5 (33%)	
4	FRU	D	2	4	11,12,12	1.44	2 (18%)	10,18,18	1.43	3 (30%)	

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	D	1	4	-	0/2/19/22	0/1/1/1
4	FRU	D	2	4	-	0/5/24/24	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$Ideal(\AA)$
4	D	1	GLC	O5-C1	2.73	1.48	1.43
4	D	2	FRU	C1-C2	2.38	1.56	1.52
4	D	2	FRU	O2-C2	2.23	1.44	1.40

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
4	D	1	GLC	O5-C5-C4	-2.85	103.90	110.83
4	D	1	GLC	C3-C4-C5	-2.55	105.68	110.24
4	D	1	GLC	O5-C5-C6	2.52	111.16	107.20
4	D	2	FRU	O5-C5-C6	2.51	115.84	108.85
4	D	2	FRU	O4-C4-C5	-2.42	104.04	111.05
4	D	2	FRU	O1-C1-C2	-2.25	107.08	111.86
4	D	1	GLC	O3-C3-C2	2.19	114.19	109.99
4	D	1	GLC	O6-C6-C5	-2.14	103.96	111.29

There are no chirality outliers.

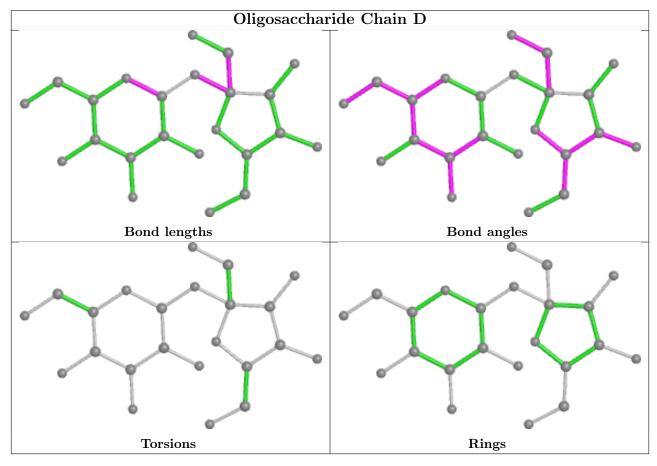
There are no torsion outliers.

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)

2 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	Т	Chain	Res	Link	Bond lengths			В	ond ang	gles
IVIOI	Type	Chain	nes	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	GOL	A	301[B]	-	5,5,5	0.30	0	5,5,5	0.39	0
5	GOL	A	301[A]	-	5,5,5	0.30	0	5,5,5	0.43	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.

\mathbf{Mol}	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	GOL	A	301[B]	-	-	4/4/4/4	-
5	GOL	A	301[A]	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	301[A]	GOL	O1-C1-C2-O2
5	A	301[A]	GOL	O1-C1-C2-C3
5	A	301[B]	GOL	O1-C1-C2-C3
5	A	301[B]	GOL	C1-C2-C3-O3
5	A	301[B]	GOL	O1-C1-C2-O2
5	A	301[B]	GOL	O2-C2-C3-O3

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, 95^{th} 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>	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q<0.9
1	A	240/241 (99%)	0.01	9 (3%) 40 46	42, 56, 78, 104	0
2	В	216/217 (99%)	0.13	7 (3%) 47 54	40, 55, 93, 127	0
3	С	220/228 (96%)	0.24	26 (11%) 4 5	41, 60, 110, 142	0
All	All	676/686 (98%)	0.12	42 (6%) 20 25	40, 57, 95, 142	0

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	С	191	THR	5.0
1	A	205	GLY	4.7
1	A	60(C)	ARG	4.6
3	С	134	GLY	4.5
2	В	132	VAL	4.1
3	С	190	GLY	4.0
3	С	161	SER	3.8
3	С	128	SER	3.7
2	В	126	LYS	3.6
3	С	187	SER	3.6
3	С	160	THR	3.6
3	С	186	SER	3.5
3	С	1	GLU	3.2
1	A	204(A)	ASP	3.2
3	С	135	THR	3.2
1	A	52	LEU	3.2
3	С	158	ALA	3.1
2	В	169	LYS	2.9
1	A	106	LEU	2.9
3	С	127	SER	2.9
3	C	193	THR	2.9
3	С	80	LEU	2.9
3	С	213	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	60(D)	GLY	2.7
2	В	86	TYR	2.7
3	С	36	TRP	2.6
3	С	139	GLY	2.6
1	A	183	VAL	2.6
3	С	204	ASN	2.6
3	С	140	CYS	2.5
3	С	188	SER	2.5
3	С	156	SER	2.4
2	В	35	TRP	2.4
3	С	212	GLU	2.3
2	В	75	ILE	2.3
2	В	88	CYS	2.2
1	A	33	LEU	2.2
1	A	222	ARG	2.2
3	С	78	LEU	2.1
3	С	195	ILE	2.1
3	С	185	PRO	2.0
3	С	90	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.

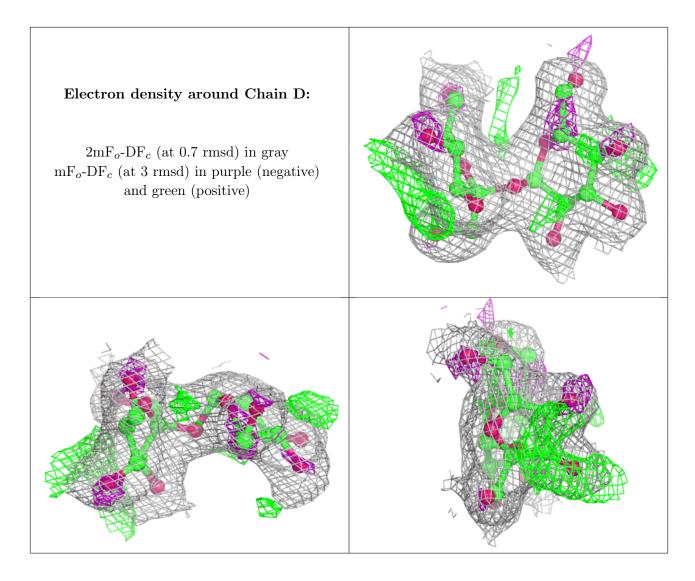
6.3 Carbohydrates (i)

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, 95^{th} 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
4	GLC	D	1	11/12	0.92	0.12	33,38,41,47	0
4	FRU	D	2	12/12	0.96	0.08	32,35,36,37	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, 95^{th} 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
5	GOL	A	301[A]	6/6	0.52	0.26	74,74,74,74	6
5	GOL	A	301[B]	6/6	0.52	0.26	52,55,56,57	6

6.5 Other polymers (i)

There are no such residues in this entry.

