

# Full wwPDB X-ray Structure Validation Report (i)

#### Aug 6, 2020 – 05:39 PM BST

PDB ID : 6S7G

Title: Cfucosylated linker peptide SBL1 bound to Fucose binding Lectin LecB (PA-

IIL) from Pseudomonas aeruginosa at 1.84 Angstrom resolution

Authors: Baeriswyl, S.; Stocker, A.; Reymond, J.-L.

Deposited on : 2019-07-04

Resolution : 1.84 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 following versions of software and data (see references (1)) were used in the production of this report:

Mol Probity : 4.02b-467

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

Xtriage (Phenix) : 1.13

EDS : 2.13.1 buster-report : 1.1.7 (2018)

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)

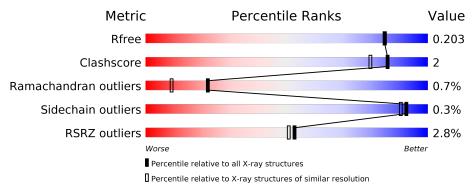
Validation Pipeline (wwPDB-VP) : 2.13.1

## 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 1.84 Å.

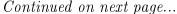
Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
$R_{free}$	130704	4003 (1.86-1.82)
Clashscore	141614	4233 (1.86-1.82)
Ramachandran outliers	138981	4185 (1.86-1.82)
Sidechain outliers	138945	4186 (1.86-1.82)
RSRZ outliers	127900	3957 (1.86-1.82)

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 on 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	114	2%	97%		•		
1	В	114	2%	96%		•		
1	С	114		95%		5%		
1	D	114		96%		•		
2	Е	6	17%	83%				
2	F	6	33%	33%	17%	17%		





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$\mathbf{Mol}$	Chain	$\mathbf{n} \mid \mathbf{Length} \mid$	Quality of chain					
			6	7%				
2	G	6		100%				
0	TT		17%					
2	Н	6	33%	67%				



# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7173 atoms, of which 3294 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 Fucose-binding lectin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	114	Total	С	Н	N	О	0	0	0
1	A	114	1619	506	796	143	174	U	0	0
1	В	114	Total	С	Н	N	О	0	0	0
1	Б	114	1605	504	787	140	174	U	U	
1	С	114	Total	С	Н	N	О	0	0	0
1		114	1605	504	787	140	174	0	U	U
1	D	114	Total	С	Н	N	О	0	0	0
	114	1605	504	787	140	174	U	0	U	

• Molecule 2 is a protein called SBL1.

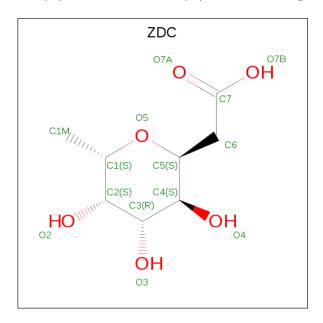
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	F	6	Total C H N O S 65 19 33 7 5 1	0	0	1
2	G	6	Total C H N O S 76 21 41 8 5 1	0	0	1
2	Н	2	Total C H N O 21 7 10 2 2	0	0	0
2	Е	1	Total C H N O 11 4 5 1 1	0	0	0

• Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	3	Total Ca 3 3	0	0
3	A	3	Total Ca 3 3	0	0
3	D	1	Total Ca 1 1	0	0
3	С	1	Total Ca 1 1	0	0



• Molecule 4 is 3,7-anhydro-2,8-dideoxy-L-glycero-D-gluco-octonic acid (three-letter code: ZDC) (formula:  $C_8H_{14}O_6$ ) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	$\mathbf{A}$	ton	ns		ZeroOcc	AltConf	
1	F	1	Total	С	Н	О	0	0	
4	Г	1	25	8	12	5	U	0	
1	G	1	Total	С	Н	О	0	0	
4	G	1	25	8	12	5	0		
1	Н	1	Total	С	Н	О	0	0	
4	11	1	25	8	12	5	0	0	
1	E	1	Total	С	Н	О	0	0	
4	L L		25	8	12	5	U	U	

• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	116	Total O 116 116	0	0
5	В	111	Total O 111 111	0	0
5	F	1	Total O 1 1	0	0
5	С	117	Total O 117 117	0	0
5	G	1	Total O 1 1	0	0
5	D	111	Total O 111 111	0	0

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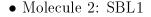
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	Н	1	Total O 1 1	0	0



# 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: Fucose-binding lectin Chain A: • Molecule 1: Fucose-binding lectin Chain B: • Molecule 1: Fucose-binding lectin Chain C: 95% • Molecule 1: Fucose-binding lectin Chain D: 96% • Molecule 2: SBL1 67% Chain F: 33% 17% 17%





	67%
Chain G:	100%
K2 A3 A4 A6 A6 A6 A6 A6 NH27	
• Molecule 2: SBL1	
17%	
Chain H: 33%	67%
K2 A3 LYS A1A A1A CYS NH2	
• Molecule 2: SBL1	
Chain E: 17%	
Chain E: 17%	83%
K2 AIA AIA AIA GYS CYS NHZ	



# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	123.23Å 56.74Å 70.62Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.43 - 1.84	Depositor
Resolution (A)	46.43 - 1.84	EDS
% Data completeness	99.5 (46.43-1.84)	Depositor
(in resolution range)	99.8 (46.43-1.84)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.47 (at 1.84Å)	Xtriage
Refinement program	PHENIX	Depositor
D D.	0.188 , 0.211	Depositor
$R, R_{free}$	0.179 , $0.203$	DCC
$R_{free}$ test set	2182 reflections $(5.00\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	17.8	Xtriage
Anisotropy	0.306	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.42 , 54.0	EDS
L-test for twinning <sup>2</sup>	$ < L > = 0.50, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	7173	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.13% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: CA, ZDC, 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		
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z  > 5	
1	A	0.27	0/833	0.48	0/1141	
1	В	0.27	0/828	0.49	0/1135	
1	С	0.26	0/828	0.48	0/1135	
1	D	0.27	0/828	0.49	0/1135	
2	Е	0.10	0/5	0.22	0/5	
2	F	0.25	0/30	0.89	0/38	
2	G	0.23	0/33	0.34	0/41	
2	Н	0.14	0/10	0.27	0/12	
All	All	0.27	0/3395	0.49	0/4642	

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 (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	Α	823	796	796	2	0
1	В	818	787	787	4	0
1	С	818	787	787	5	0
1	D	818	787	787	3	0
2	Ε	6	5	3	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	32	33	31	3	0
2	G	35	41	40	0	0
2	Н	11	10	8	0	0
3	A	3	0	0	0	0
3	В	3	0	0	0	0
3	С	1	0	0	0	0
3	D	1	0	0	0	0
4	Е	13	12	9	1	0
4	F	13	12	9	1	0
4	G	13	12	9	0	0
4	Н	13	12	9	0	0
5	A	116	0	0	0	3
5	В	111	0	0	1	0
5	С	117	0	0	2	0
5	D	111	0	0	0	3
5	F	1	0	0	0	0
5	G	1	0	0	0	0
5	Н	1	0	0	0	0
All	All	3879	3294	3275	15	4

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 (15) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
		${f distance}({f A})$	overlap $(A)$
1:B:86:GLU:OE1	5:B:401:HOH:O	2.05	0.73
1:C:66:GLN:NE2	5:C:401:HOH:O	2.11	0.70
1:B:81:VAL:HG21	1:D:81:VAL:HG21	1.82	0.60
1:A:81:VAL:HG21	1:C:81:VAL:HG21	1.86	0.56
1:C:13:ARG:NH2	5:C:402:HOH:O	2.44	0.51
1:B:99:ASP:OD2	4:F:101:ZDC:O3	2.29	0.50
2:F:4:LYS:O	2:F:5:ALA:HB3	2.14	0.46
1:A:90:ALA:HB3	1:A:109:ILE:HB	1.98	0.46
2:F:5:ALA:O	2:F:6:CYS:CB	2.63	0.45
1:C:114:GLY:OXT	4:E:101:ZDC:O2	2.35	0.45
1:D:90:ALA:HB3	1:D:109:ILE:HB	1.99	0.44
1:C:90:ALA:HB3	1:C:109:ILE:HB	1.99	0.43
1:D:13:ARG:HG2	1:D:113:LEU:HD12	2.01	0.43
1:B:90:ALA:HB3	1:B:109:ILE:HB	2.03	0.40
2:F:5:ALA:O	2:F:6:CYS:HB2	2.22	0.40



All (4) 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	$egin{aligned}  ext{Interatomic} \  ext{distance} \ ( ext{Å}) \end{aligned}$	$egin{aligned}  ext{Clash} \  ext{overlap} & ( ext{Å}) \end{aligned}$
5:A:504:HOH:O	5:D:511:HOH:O[2_565]	1.84	0.36
5:A:489:HOH:O	5:A:489:HOH:O[2_555]	2.13	0.07
5:D:442:HOH:O	5:D:442:HOH:O[2_565]	2.16	0.04
5:A:444:HOH:O	5:D:491:HOH:O[2_565]	2.18	0.02

### 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	${f ntiles}$
1	A	112/114 (98%)	109 (97%)	3 (3%)	0	100	100
1	В	112/114 (98%)	107 (96%)	5 (4%)	0	100	100
1	С	112/114 (98%)	108 (96%)	4 (4%)	0	100	100
1	D	112/114 (98%)	109 (97%)	3 (3%)	0	100	100
2	F	4/6 (67%)	0	1 (25%)	3 (75%)	0	0
2	G	4/6 (67%)	4 (100%)	0	0	100	100
All	All	$456/468 \; (97\%)$	437 (96%)	16 (4%)	3 (1%)	22	9

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F	3	ALA
2	F	6	CYS
2	F	4	LYS

#### 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	${f ntiles}$
1	A	$92/93\ (99\%)$	92 (100%)	0	100	100
1	В	91/93 (98%)	91 (100%)	0	100	100
1	С	91/93 (98%)	91 (100%)	0	100	100
1	D	91/93 (98%)	91 (100%)	0	100	100
2	F	2/3~(67%)	1 (50%)	1 (50%)	0	0
2	G	3/3 (100%)	3 (100%)	0	100	100
All	All	370/378~(98%)	369 (100%)	1 (0%)	92	90

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

Mol	Chain	Res	Type
2	F	4	LYS

Some 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)

There are no monosaccharides in this entry.

#### 5.6 Ligand geometry (i)

Of 12 ligands modelled in this entry, 8 are monoatomic - leaving 4 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	Trino	Chain	Res	Link	Bo	nd leng	ths	В	ond ang	les
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	ZDC	G	101	3,2	13,13,14	0.87	0	17,18,20	1.74	3 (17%)
4	ZDC	Н	101	3,2	13,13,14	0.86	0	17,18,20	1.83	3 (17%)
4	ZDC	Е	101	3,2	13,13,14	0.89	0	17,18,20	1.82	4 (23%)
4	ZDC	F	101	3,2	13,13,14	0.90	0	17,18,20	1.84	3 (17%)

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	ZDC	G	101	3,2	-	2/3/23/24	0/1/1/1
4	ZDC	Н	101	3,2	-	2/3/23/24	0/1/1/1
4	ZDC	Е	101	3,2	-	2/3/23/24	0/1/1/1
4	ZDC	F	101	3,2	-	2/3/23/24	0/1/1/1

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^{o})$
4	F	101	ZDC	O7A-C7-C6	-4.26	113.02	125.43
4	G	101	ZDC	O7A-C7-C6	-4.20	113.19	125.43
4	Н	101	ZDC	O7A-C7-C6	-4.06	113.60	125.43
4	Е	101	ZDC	O7A-C7-C6	-3.86	114.17	125.43
4	Н	101	ZDC	O5-C5-C6	3.72	123.01	110.56
4	G	101	ZDC	O5-C5-C6	3.38	121.87	110.56
4	F	101	ZDC	O5-C5-C6	3.31	121.63	110.56
4	E	101	ZDC	O5-C5-C6	3.28	121.54	110.56
4	F	101	ZDC	C3-C4-C5	-2.54	105.70	110.24
4	G	101	ZDC	C3-C4-C5	-2.30	106.13	110.24
4	Е	101	ZDC	C3-C4-C5	-2.14	106.42	110.24
4	Н	101	ZDC	O2-C2-C3	-2.05	105.61	110.35
4	E	101	ZDC	C4-C3-C2	2.01	114.34	110.82

There are no chirality outliers.

All (8) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
4	Е	101	ZDC	O5-C5-C6-C7
4	E	101	ZDC	C5-C6-C7-O7A
4	G	101	ZDC	O5-C5-C6-C7
4	F	101	ZDC	O5-C5-C6-C7
4	Н	101	ZDC	O5-C5-C6-C7
4	G	101	ZDC	C5-C6-C7-O7A
4	F	101	ZDC	C5-C6-C7-O7A
4	Н	101	ZDC	C5-C6-C7-O7A

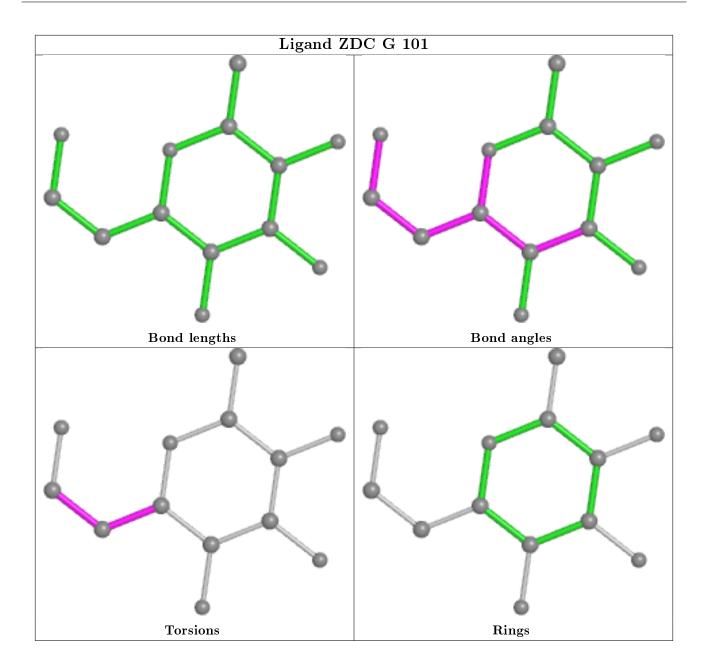
There are no ring outliers.

2 monomers are involved in 2 short contacts:

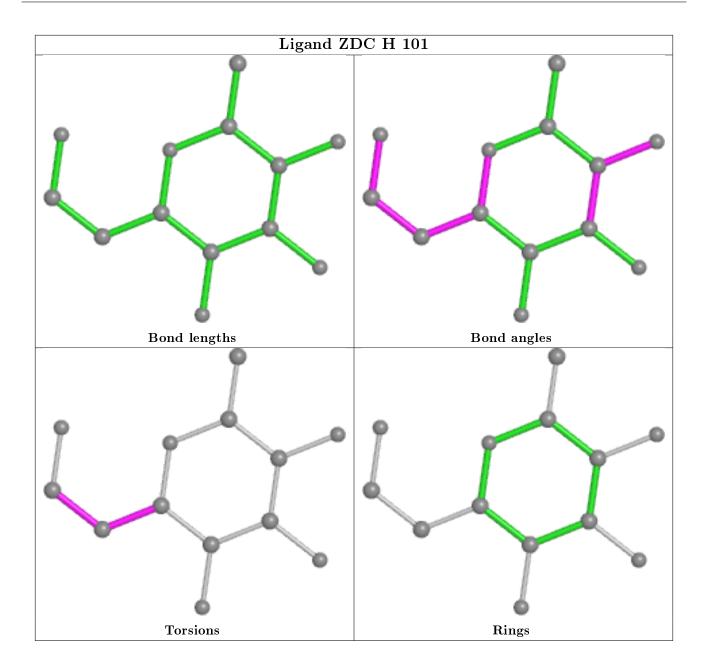
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	E	101	ZDC	1	0
4	F	101	ZDC	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

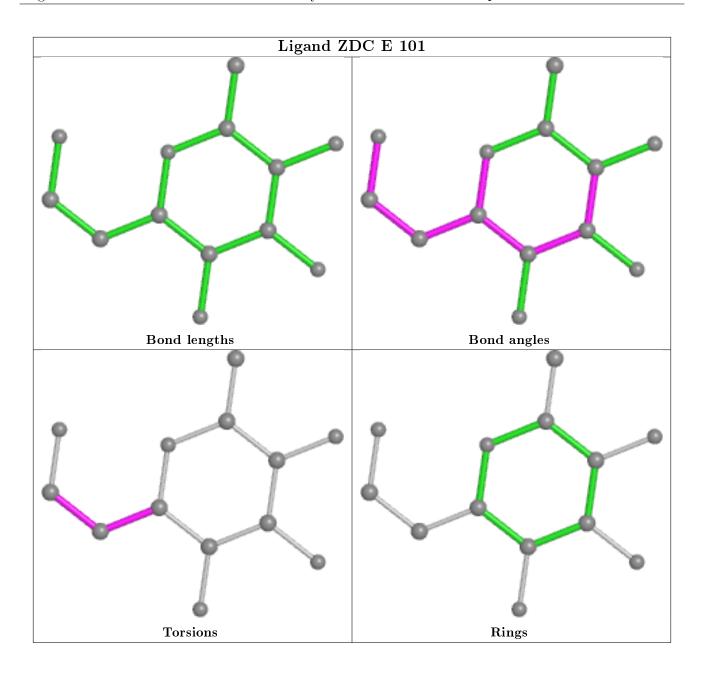




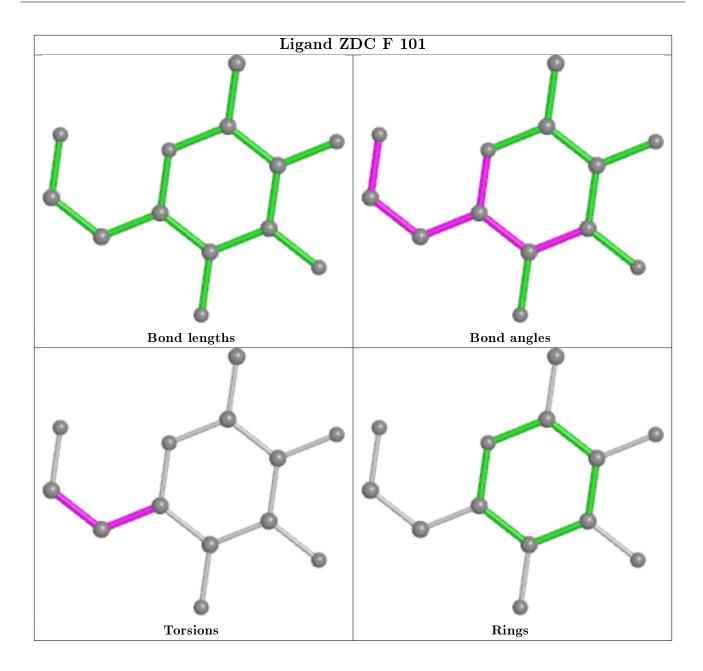












## 5.7 Other polymers (i)

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 $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	114/114 (100%)	-0.42	2 (1%) 68 67	14, 20, 33, 42	0
1	В	114/114 (100%)	-0.47	2 (1%) 68 67	13, 19, 31, 51	0
1	С	114/114 (100%)	-0.59	0 100 100	14, 18, 26, 41	0
1	D	114/114 (100%)	-0.51	0 100 100	14, 19, 30, 35	0
2	E	1/6 (16%)	1.88	0 100 100	37, 37, 37, 37	0
2	F	5/6 (83%)	5.97	4 (80%) 0 0	43, 57, 73, 75	0
2	G	5/6~(83%)	2.96	4 (80%) 0 0	35, 38, 50, 57	0
2	Н	2/6~(33%)	4.07	1 (50%) 0 0	37, 37, 37, 46	0
All	All	469/480 (97%)	-0.37	13 (2%) 53 51	13, 19, 35, 75	0

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	F	6	CYS	11.2
2	F	5	ALA	9.8
2	Н	3	ALA	6.5
2	G	6	CYS	6.2
2	F	4	LYS	4.6
2	G	3	ALA	3.5
2	F	3	ALA	2.9
1	A	23	SER	2.4
2	G	5	ALA	2.3
1	В	70	ASN	2.3
1	A	98	THR	2.2
1	В	71	GLY	2.2
2	G	4	LYS	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)

There are no monosaccharides in this entry.

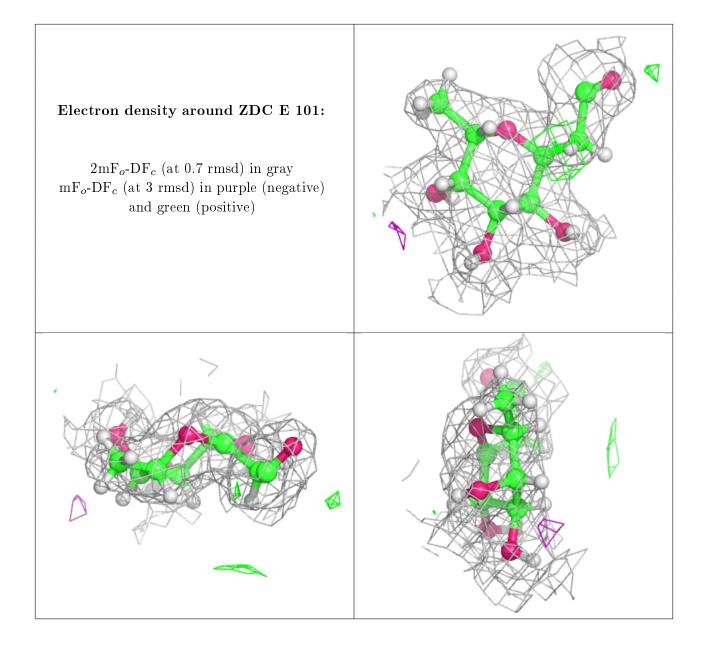
#### 6.4 Ligands (i)

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.

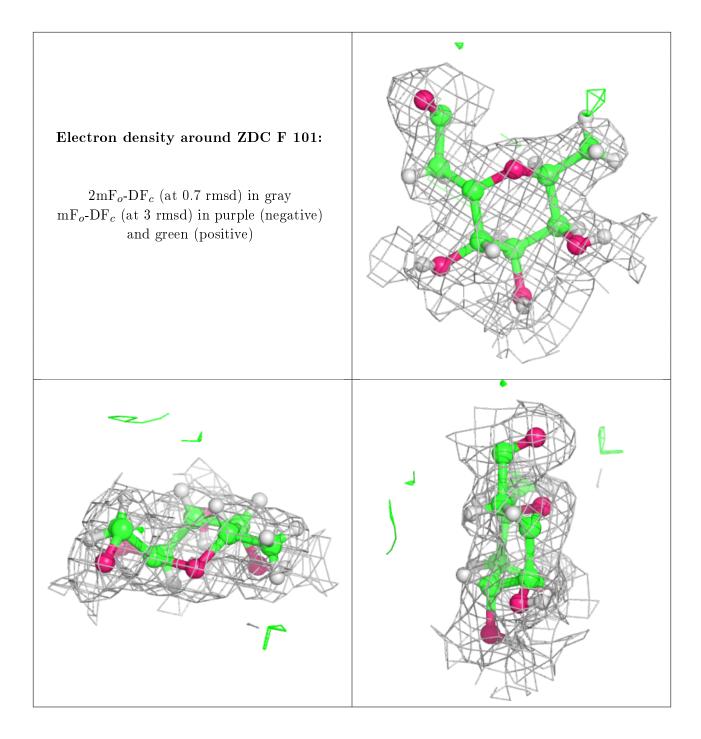
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q < 0.9
4	ZDC	E	101	13/14	0.96	0.13	20,24,31,33	0
4	ZDC	F	101	13/14	0.96	0.09	19,23,29,30	0
4	ZDC	G	101	13/14	0.97	0.07	16,19,22,24	0
4	ZDC	Н	101	13/14	0.97	0.09	15,18,25,28	0
3	CA	A	302	1/1	0.99	0.04	19,19,19,19	0
3	CA	A	301	1/1	0.99	0.04	20,20,20,20	0
3	CA	D	201	1/1	1.00	0.05	18,18,18,18	0
3	CA	В	303	1/1	1.00	0.04	17,17,17,17	0
3	CA	В	302	1/1	1.00	0.04	16,16,16,16	0
3	CA	С	301	1/1	1.00	0.06	16,16,16,16	0
3	CA	В	301	1/1	1.00	0.04	18,18,18,18	0
3	CA	A	303	1/1	1.00	0.06	16,16,16,16	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





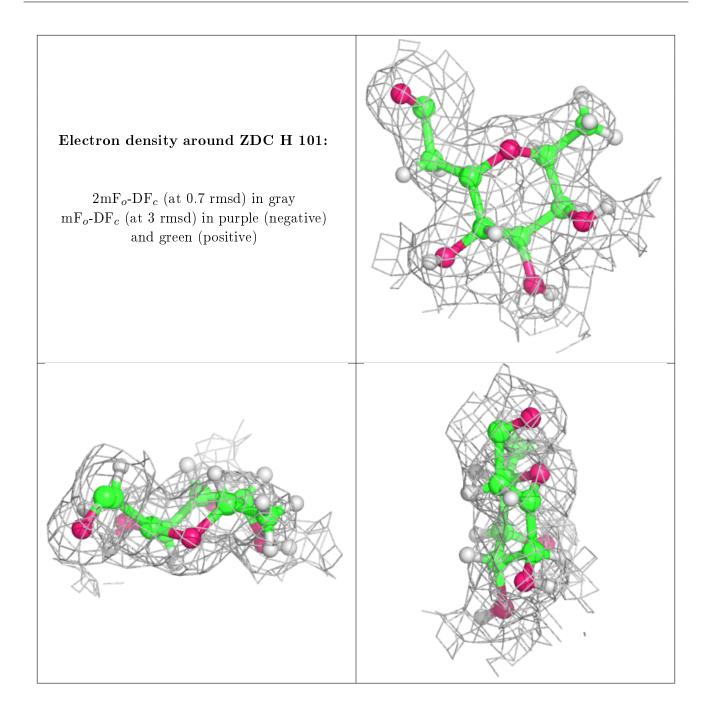






# Electron density around ZDC G 101: $2\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_{o}\text{-}\mathrm{DF}_{c}$ (at 3 rmsd) in purple (negative) and green (positive)





## 6.5 Other polymers (i)

There are no such residues in this entry.

