

wwPDB X-ray Structure Validation Summary Report (i)

Nov 13, 2023 – 04:19 PM JST

PDB ID : 5XO7

Title : Crystal structure of a novel ZEN lactonase mutant with ligand a

Authors : Zheng, Y.Y.; Liu, W.T.; Liu, W.D.; Chen, C.C.; Guo, R.T.

Deposited on : 2017-05-27

Resolution : 1.88 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 (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:

MolProbity: 4.02b-467

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

Xtriage (Phenix) : 1.13

EDS : 2.36

buster-report : 1.1.7 (2018)

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

Refmac : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

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

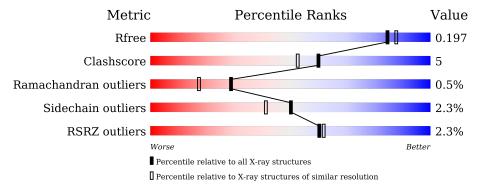
Validation Pipeline (wwPDB-VP) : 2.36

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 1.88 Å.

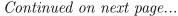
Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	9470 (1.90-1.86)
Clashscore	141614	10282 (1.90-1.86)
Ramachandran outliers	138981	10152 (1.90-1.86)
Sidechain outliers	138945	10152 (1.90-1.86)
RSRZ outliers	127900	9303 (1.90-1.86)

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	266	91%	8%	.
1	В	266	90%	9%	-
1	С	266	88%	11%	
1	D	266	90%	8%	
1	Е	266	89%	9%	
1	F	266	91%	8%	-





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Mol	Chain	Length	Quality of chain	
1	G	266	6% 84%	13% ••
1	Н	266	91%	8% •



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 18834 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 lactonase for protein.

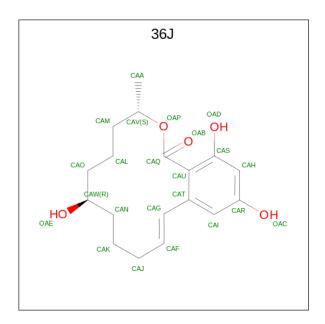
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	263	Total	С	N	О	S	0	0	0
1	A	203	2055	1306	347	393	9	0	U	
1	В	263	Total	С	N	О	S	0	0	0
1	Б	203	2055	1306	347	393	9	0	U	
1	С	263	Total	С	N	О	S	0	1	0
1		203	2061	1310	347	395	9	0	1	
1	D	262	Total	С	N	О	S	0	0	0
1	D	202	2045	1300	345	391	9	0		
1	Е	263	Total	С	N	О	S	0	0	0
1	12	203	2054	1306	347	392	9	0		
1	F	264	Total	С	N	О	S	0	0	0
1	Г	204	2060	1309	348	394	9	0	0	
1	G	263	Total	С	N	О	S	0	0	0
1	G	203	2055	1306	347	393	9		U	
1	Н	263	Total	С	N	О	S	0	0	0
1	11	203	2055	1306	347	393	9	U	U	U

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
В	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
С	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
D	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
Е	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
F	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
G	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1
Н	105	ALA	SER	engineered mutation	UNP A0A0D2ILK1

• Molecule 2 is (3S,7R,11E)-7,14,16-trihydroxy-3-methyl-3,4,5,6,7,8,9,10-octahydro-1H-2-benz oxacyclotetradecin-1-one (three-letter code: 36J) (formula: $C_{18}H_{24}O_5$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 23 18 5	0	0
2	В	1	Total C O 23 18 5	0	0
2	С	1	Total C O 23 18 5	0	0
2	D	1	Total C O 23 18 5	0	0
2	E	1	Total C O 23 18 5	0	0
2	F	1	Total C O 23 18 5	0	0
2	G	1	Total C O 23 18 5	0	0
2	Н	1	Total C O 23 18 5	0	0

• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	354	Total O 354 354	0	0
3	В	345	Total O 345 345	0	0
3	С	274	Total O 274 274	0	0
3	D	249	Total O 249 249	0	0

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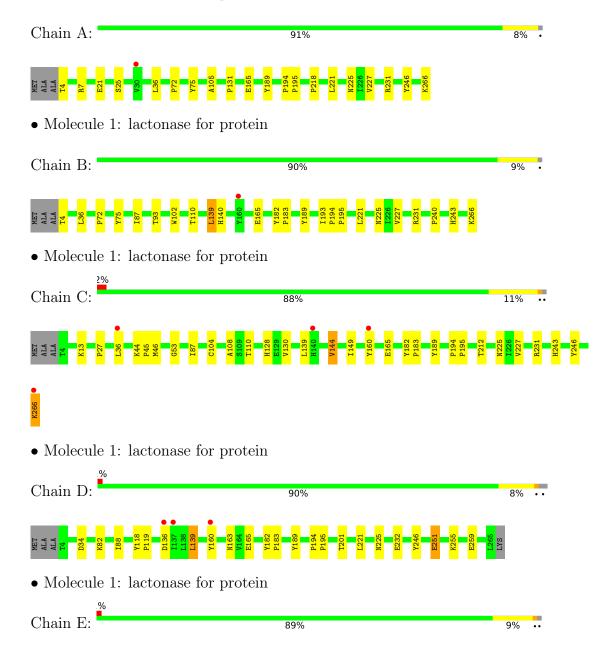
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	E	328	Total O 328 328	0	0
3	F	277	Total O 277 277	0	0
3	G	184	Total O 184 184	0	0
3	Н	199	Total O 199 199	0	0



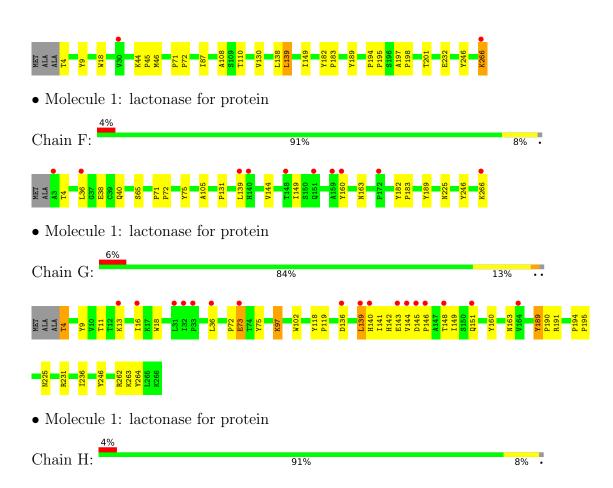
3 Residue-property plots (i)

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: lactonase for protein









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	75.46Å 95.16Å 101.44Å	Donositon
a, b, c, α , β , γ	90.20° 92.13° 91.60°	Depositor
Resolution (Å)	24.93 - 1.88	Depositor
rtesolution (A)	24.93 - 1.88	EDS
% Data completeness	97.5 (24.93-1.88)	Depositor
(in resolution range)	97.5 (24.93-1.88)	EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.25 (at 1.88Å)	Xtriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.156 , 0.195	Depositor
	0.168 , 0.197	DCC
R_{free} test set	2038 reflections (0.91%)	wwPDB-VP
Wilson B-factor (Å ²)	24.9	Xtriage
Anisotropy	0.272	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 53.6	EDS
L-test for twinning ²	$< L > = 0.50, < L^2> = 0.33$	Xtriage
	0.022 for h,-k,-l	
Estimated twinning fraction	0.012 for -h,k,-l	Xtriage
	0.011 for -h,-k,l	
F_o, F_c correlation	0.96	EDS
Total number of atoms	18834	wwPDB-VP
Average B, all atoms (\mathring{A}^2)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.47% 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: 36J

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		
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	1.36	0/2114	0.81	0/2886	
1	В	1.33	0/2114	0.78	0/2886	
1	С	1.29	0/2123	0.79	0/2898	
1	D	1.29	0/2104	0.79	0/2875	
1	Е	1.30	0/2113	0.79	0/2884	
1	F	1.30	0/2119	0.76	0/2893	
1	G	1.22	0/2114	0.76	0/2886	
1	Н	1.24	0/2114	0.76	0/2886	
All	All	1.29	0/16915	0.78	0/23094	

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	A	2055	0	1992	10	0
1	В	2055	0	1993	15	0
1	С	2061	0	1999	33	0
1	D	2045	0	1979	12	0
1	Е	2054	0	1993	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	2060	0	1997	12	0
1	G	2055	0	1993	29	0
1	Н	2055	0	1993	14	0
2	A	23	0	23	1	0
2	В	23	0	22	2	0
2	С	23	0	23	8	0
2	D	23	0	23	3	0
2	Е	23	0	22	3	0
2	F	23	0	23	2	0
2	G	23	0	23	5	0
2	Н	23	0	23	2	0
3	A	354	0	0	3	0
3	В	345	0	0	4	0
3	С	274	0	0	3	0
3	D	249	0	0	3	0
3	Ε	328	0	0	1	0
3	F	277	0	0	4	0
3	G	184	0	0	5	0
3	Н	199	0	0	4	0
All	All	18834	0	16121	149	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 5.

The worst 5 of 149 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	$\operatorname{distance}\ (ext{\AA})$	overlap(Å)
1:E:139:LEU:HD22	3:E:575:HOH:O	1.42	1.13
1:C:160:TYR:CD1	1:C:243:HIS:NE2	2.33	0.95
1:C:160:TYR:HB3	1:C:243:HIS:HD2	1.35	0.90
1:C:160:TYR:HD2	2:C:301:36J:H24	1.24	0.83
1:B:4:THR:HA	3:B:599:HOH:O	1.80	0.82

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	261/266~(98%)	255 (98%)	5 (2%)	1 (0%)	34 22
1	В	261/266 (98%)	253 (97%)	7 (3%)	1 (0%)	34 22
1	С	$262/266 \ (98\%)$	255 (97%)	6 (2%)	1 (0%)	34 22
1	D	260/266 (98%)	252 (97%)	6 (2%)	2 (1%)	19 9
1	E	261/266~(98%)	253 (97%)	7 (3%)	1 (0%)	34 22
1	F	262/266~(98%)	254 (97%)	6 (2%)	2 (1%)	19 9
1	G	261/266~(98%)	251 (96%)	8 (3%)	2 (1%)	19 9
1	Н	261/266 (98%)	253 (97%)	7 (3%)	1 (0%)	34 22
All	All	$2089/2128 \ (98\%)$	2026 (97%)	52 (2%)	11 (0%)	29 17

5 of 11 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	163	ASN
1	F	163	ASN
1	A	189	TYR
1	В	189	TYR
1	D	189	TYR

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	Percentiles	
1	A	223/224 (100%)	219 (98%)	4 (2%)	59 52	

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Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	В	223/224 (100%)	218 (98%)	5 (2%)	52	43
1	\mathbf{C}	$224/224 \ (100\%)$	218 (97%)	6 (3%)	44	34
1	D	222/224~(99%)	217 (98%)	5 (2%)	50	41
1	E	223/224 (100%)	219 (98%)	4 (2%)	59	52
1	F	$223/224\ (100\%)$	220 (99%)	3 (1%)	69	64
1	G	223/224 (100%)	213 (96%)	10 (4%)	27	16
1	Н	223/224 (100%)	219 (98%)	4 (2%)	59	52
All	All	1784/1792 (100%)	1743 (98%)	41 (2%)	50	41

5 of 41 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	G	13	LYS
1	G	236	ILE
1	G	73	GLU
1	G	141	ILE
1	Н	73	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	С	128	HIS
1	D	134	ASN
1	Н	151	GLN
1	G	134	ASN
1	С	76	GLN

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)

8 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	36J	F	301	-	24,24,24	2.00	9 (37%)	32,32,32	1.68	5 (15%)
2	36J	A	301	-	24,24,24	2.08	7 (29%)	32,32,32	1.96	6 (18%)
2	36J	G	301	-	24,24,24	1.37	5 (20%)	32,32,32	1.72	6 (18%)
2	36J	Н	301	-	24,24,24	1.28	2 (8%)	32,32,32	1.82	8 (25%)
2	36J	С	301	-	24,24,24	1.35	4 (16%)	32,32,32	1.39	6 (18%)
2	36J	D	301	-	24,24,24	2.08	5 (20%)	32,32,32	3.10	11 (34%)
2	36J	В	301	-	24,24,24	1.74	6 (25%)	32,32,32	1.72	9 (28%)
2	36J	Е	301	-	24,24,24	2.11	6 (25%)	32,32,32	1.72	7 (21%)

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
2	36J	F	301	-	-	5/22/22/22	0/1/2/2
2	36J	A	301	-	-	5/22/22/22	0/1/2/2
2	36J	G	301	-	-	7/22/22/22	0/1/2/2
2	36J	Н	301	-	-	6/22/22/22	0/1/2/2
2	36J	С	301	-	-	8/22/22/22	0/1/2/2
2	36J	D	301	-	-	8/22/22/22	0/1/2/2
2	36J	В	301	-	-	6/22/22/22	0/1/2/2
2	36J	E	301	-	-	7/22/22/22	0/1/2/2



The worst	5	of	44	bond	length	outliers	are	listed	below:
THE WOLDS	\circ	$O_{\mathbf{I}}$	T T	DOM	10115 011	Outilities	COL C	mouca	DCIOW.

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\textup{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	D	301	36J	OAP-CAV	6.63	1.58	1.47
2	Е	301	36J	OAP-CAV	6.38	1.58	1.47
2	A	301	36J	OAP-CAV	5.25	1.56	1.47
2	В	301	36J	OAP-CAV	4.78	1.55	1.47
2	A	301	36J	CAH-CAS	4.50	1.45	1.38

The worst 5 of 58 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
2	D	301	36J	CAV-OAP-CAQ	11.33	137.30	117.61
2	D	301	36J	OAP-CAV-CAM	8.47	124.49	106.85
2	Ε	301	36J	CAT-CAG-CAF	6.67	139.91	125.52
2	A	301	36J	CAN-CAK-CAJ	-6.07	101.30	114.49
2	D	301	36J	CAN-CAK-CAJ	-5.89	101.67	114.49

There are no chirality outliers.

5 of 52 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	С	301	36J	CAA-CAV-OAP-CAQ
2	D	301	36J	CAA-CAV-OAP-CAQ
2	Е	301	36J	CAA-CAV-OAP-CAQ
2	Е	301	36J	CAU-CAQ-OAP-CAV
2	Е	301	36J	CAJ-CAF-CAG-CAT

There are no ring outliers.

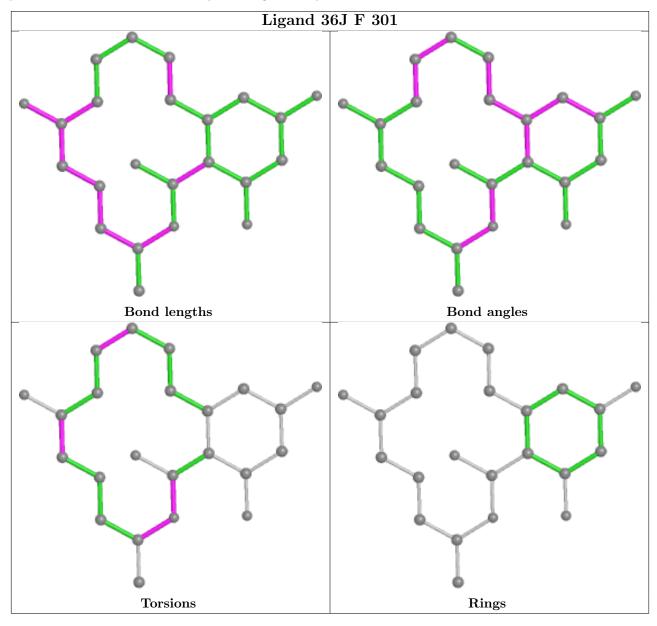
8 monomers are involved in 26 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	301	36J	2	0
2	A	301	36J	1	0
2	G	301	36J	5	0
2	Н	301	36J	2	0
2	С	301	36J	8	0
2	D	301	36J	3	0
2	В	301	36J	2	0
2	Е	301	36J	3	0

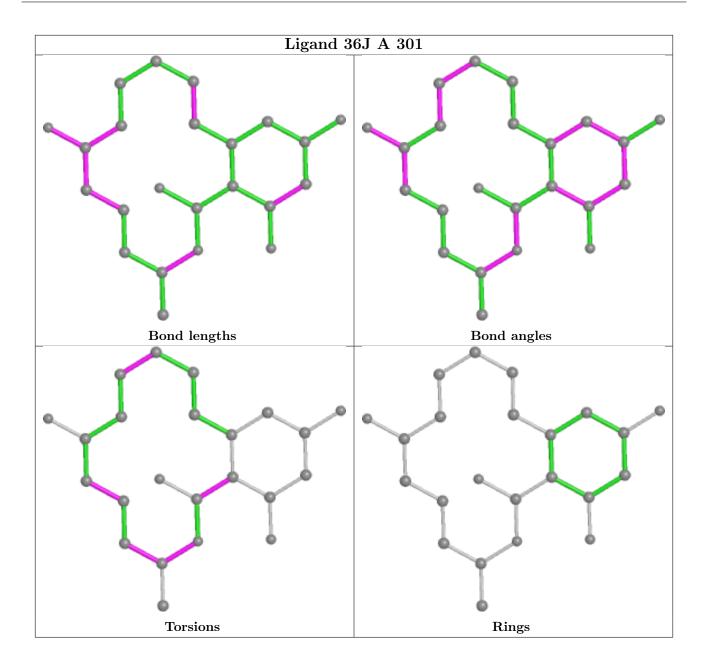
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will



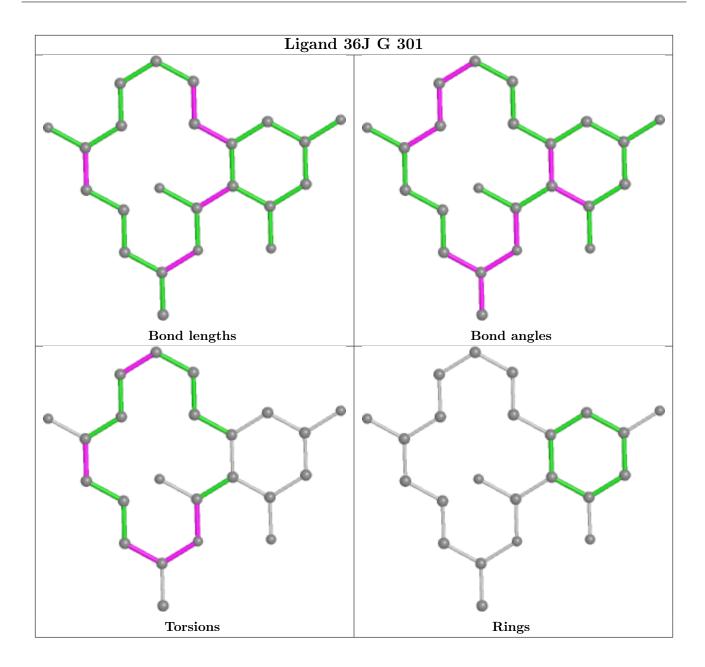
also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted 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.



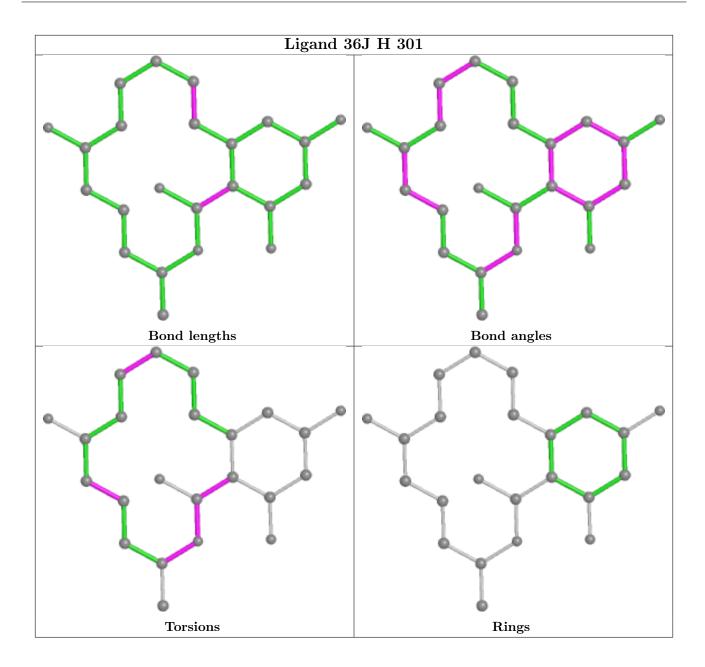




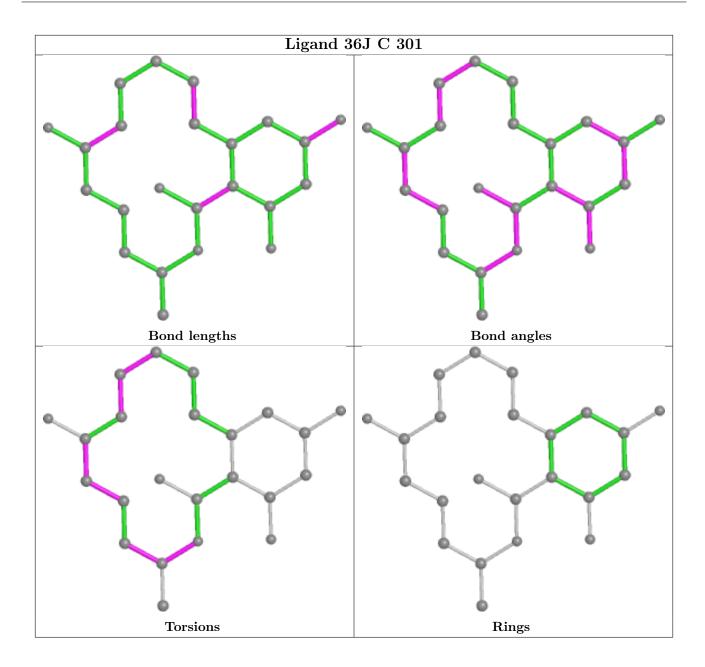




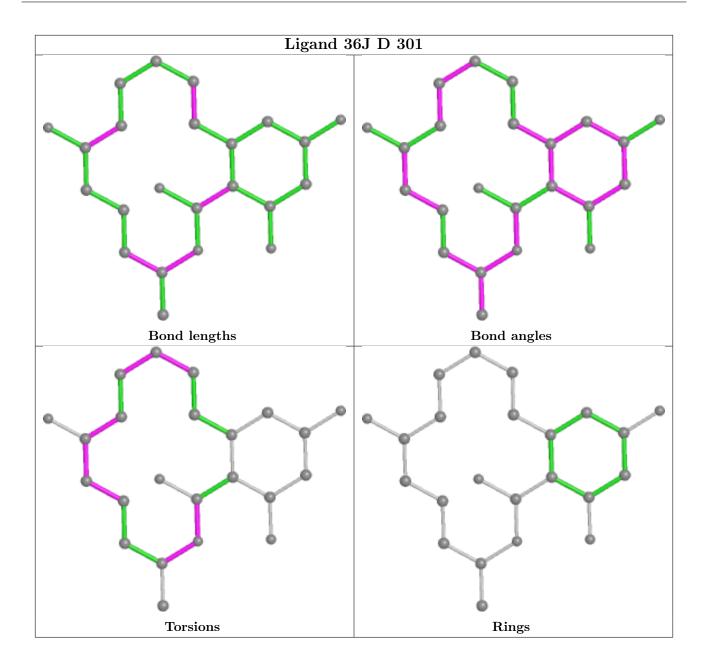




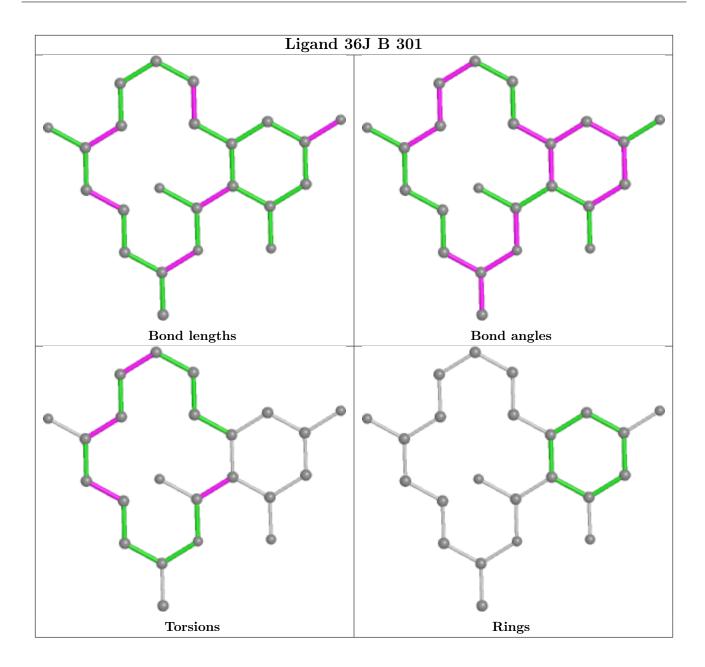




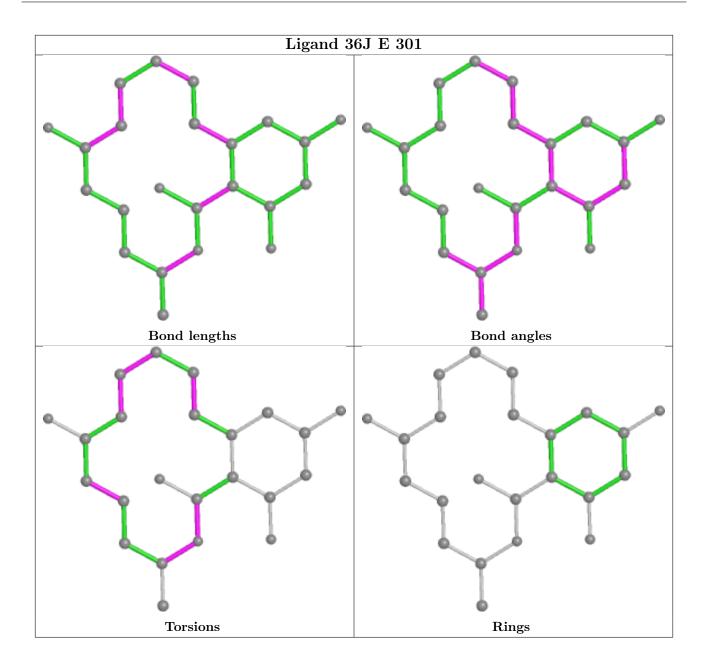












5.7 Other polymers (i)

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></rsrz>	# RSRZ > 2		$OWAB(A^2)$	Q < 0.9
1	A	263/266~(98%)	-0.36	1 (0%) 92	93	16, 23, 36, 54	0
1	В	263/266 (98%)	-0.35	1 (0%) 92	93	16, 23, 39, 54	0
1	С	263/266 (98%)	-0.15	4 (1%) 73	75	18, 26, 48, 79	0
1	D	262/266 (98%)	-0.10	3 (1%) 80	82	20, 29, 46, 65	0
1	Е	263/266 (98%)	-0.28	2 (0%) 86	87	18, 26, 39, 90	0
1	F	264/266 (99%)	-0.10	10 (3%) 40	42	17, 28, 49, 88	0
1	G	263/266 (98%)	0.34	17 (6%) 18	20	22, 36, 61, 77	0
1	Н	263/266 (98%)	0.18	11 (4%) 36	37	21, 34, 54, 66	0
All	All	2104/2128 (98%)	-0.10	49 (2%) 60	62	16, 28, 50, 90	0

The worst 5 of 49 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	3	ALA	5.3
1	F	160	TYR	5.0
1	G	136	ASP	4.5
1	G	139	LEU	4.4
1	Е	266	LYS	4.0

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)

There are no monosaccharides in this entry.



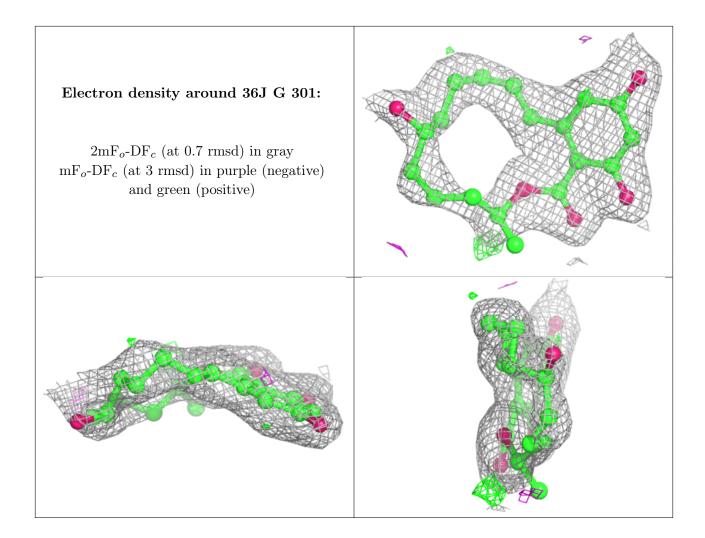
6.4 Ligands (i)

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.

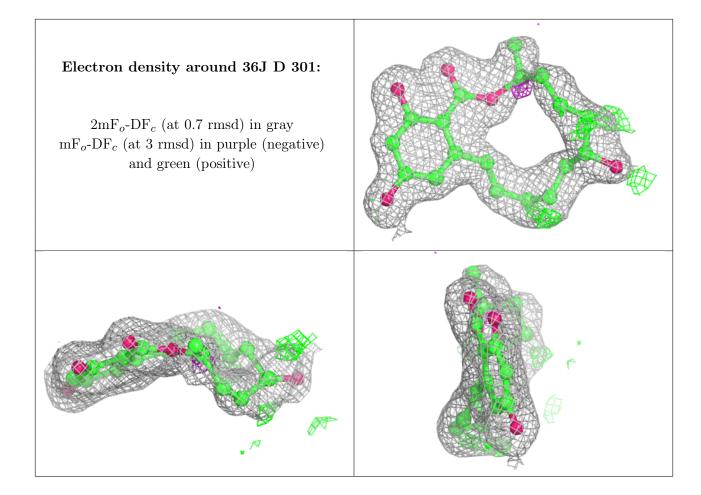
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	36J	G	301	23/23	0.92	0.21	34,45,65,69	0
2	36J	D	301	23/23	0.94	0.14	26,34,55,57	0
2	36J	Н	301	23/23	0.94	0.21	29,35,57,58	0
2	36J	A	301	23/23	0.95	0.14	19,25,32,34	0
2	36J	Е	301	23/23	0.95	0.13	20,24,36,40	0
2	36J	F	301	23/23	0.97	0.17	24,34,51,53	0
2	36J	В	301	23/23	0.97	0.14	18,28,46,47	0
2	36J	С	301	23/23	0.97	0.15	22,30,60,65	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.

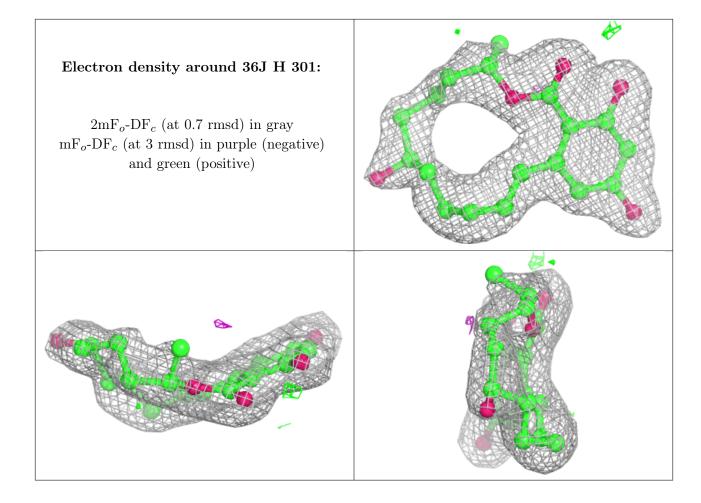




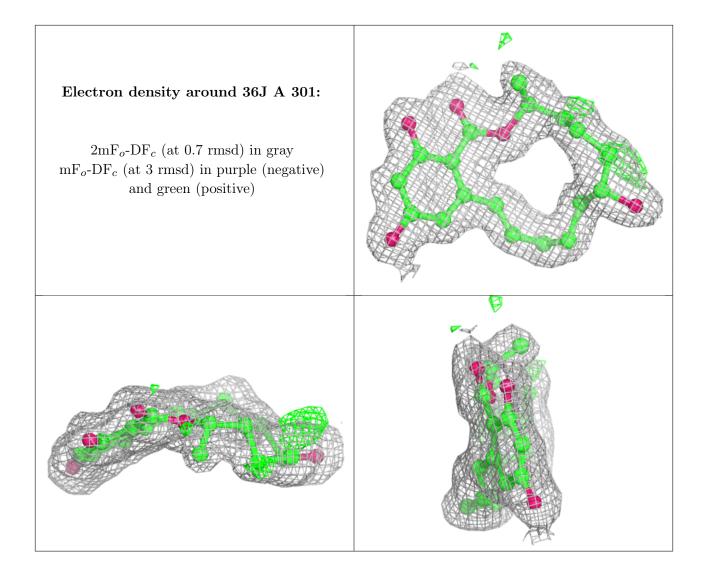








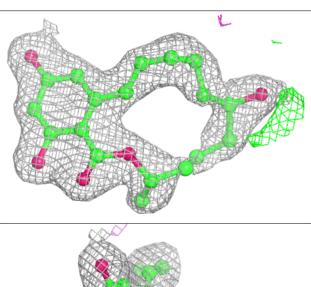


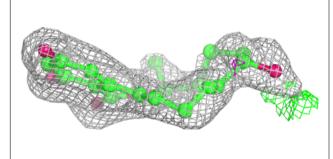


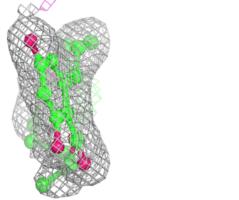


Electron density around 36J F 301:

 $2 {\rm mF}_o\text{-}{\rm DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)











6.5 Other polymers (i)

There are no such residues in this entry.

