



# wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 18, 2023 – 03:47 PM EDT

PDB ID : 5D5M  
Title : Structure of human MR1-5-OP-RU in complex with human MAIT M33.64 TCR  
Authors : Keller, A.N.; Birkinshaw, R.W.; Rossjohn, J.  
Deposited on : 2015-08-11  
Resolution : 2.20 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) 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 : 2.35.1  
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) : 2.35.1

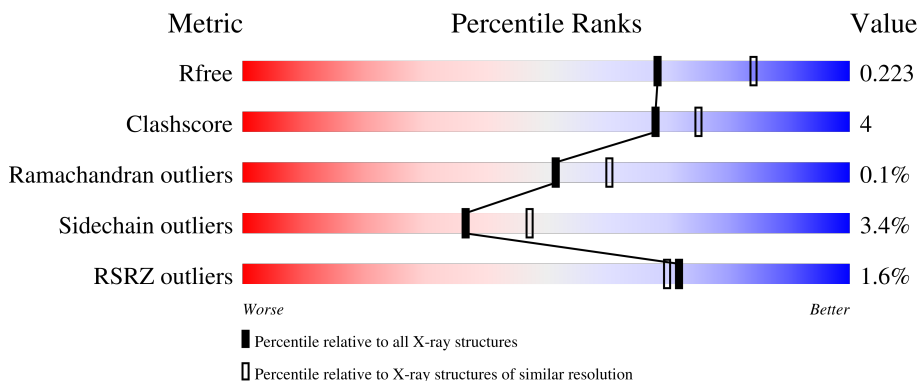
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.20 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.



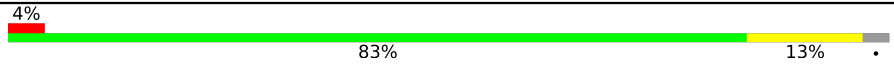


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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  $\geq 3$ , 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	271	 86% 12% .
1	C	271	 87% 11% ..
2	B	100	 88% 8% ..
2	D	100	 90% 8% .
3	E	204	 89% 8% .

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Mol	Chain	Length	Quality of chain
3	G	204	 4% 83% 13% •
4	F	245	 84% 14% •
4	H	245	 % 89% 9% ••

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 13782 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 Major histocompatibility complex class I-related gene protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	264	Total	C	N	O	S	0	3	0
			2206	1413	382	401	10			
1	C	269	Total	C	N	O	S	0	1	0
			2229	1425	384	410	10			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP Q95460
A	261	SER	CYS	conflict	UNP Q95460
C	0	MET	-	initiating methionine	UNP Q95460
C	261	SER	CYS	conflict	UNP Q95460

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	98	Total	C	N	O	S	0	0	0
			820	523	139	156	2			
2	D	98	Total	C	N	O	S	0	0	0
			816	521	138	154	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	0	MET	-	initiating methionine	UNP P61769
D	0	MET	-	initiating methionine	UNP P61769

- Molecule 3 is a protein called M33.64 TCR Alpha Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	E	200	Total	C	N	O	S	0	1	0
			1570	989	253	318	10			

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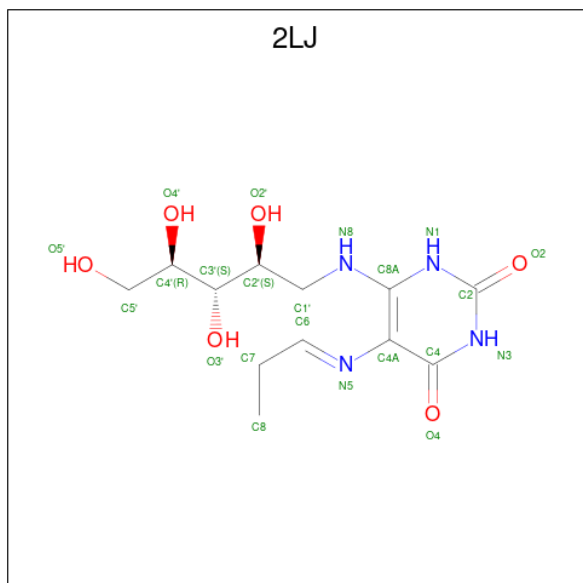
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	G	198	1555	980	251	314	10	0	0	0

- Molecule 4 is a protein called M33.64 TCR Beta Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	F	240	1872	1173	329	362	8	0	0	0
4	H	241	1883	1179	333	363	8	0	0	0

- Molecule 5 is 1-deoxy-1-({2,6-dioxo-5-[(E)-propylideneamino]-1,2,3,6-tetrahydropyrimidin-4-yl}amino)-D-ribitol (three-letter code: 2LJ) (formula: C<sub>12</sub>H<sub>20</sub>N<sub>4</sub>O<sub>6</sub>).



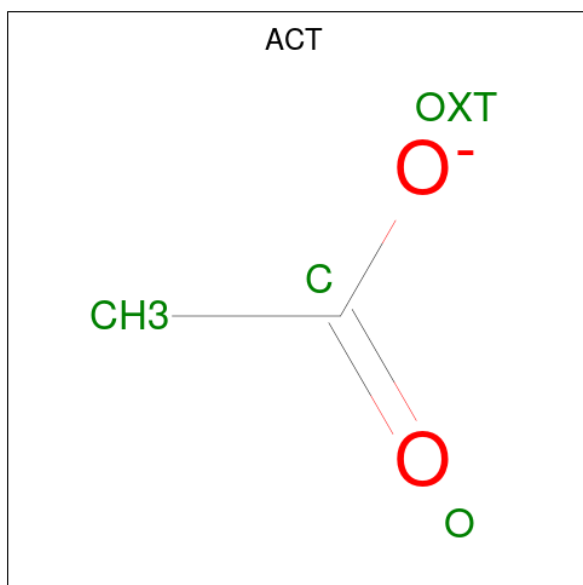
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	A	1	22	12	4	6	0	0
5	C	1	22	12	4	6	0	0

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	1	Total C O 6 3 3	0	0
6	F	1	Total C O 6 3 3	0	0
6	G	1	Total C O 6 3 3	0	0
6	H	1	Total C O 6 3 3	0	0

- Molecule 7 is ACETATE ION (three-letter code: ACT) (formula:  $C_2H_3O_2^-$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	C	1	Total	C	O	0	0
			4	2	2		
7	H	1	Total	C	O	0	0
			4	2	2		

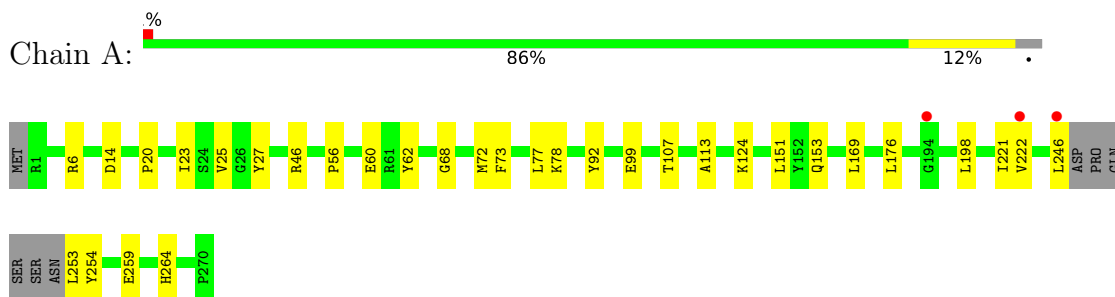
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	152	Total	O	0	0
			152	152		
8	B	39	Total	O	0	0
			39	39		
8	C	113	Total	O	0	0
			113	113		
8	D	18	Total	O	0	0
			18	18		
8	E	121	Total	O	0	0
			121	121		
8	F	115	Total	O	0	0
			115	115		
8	G	80	Total	O	0	0
			80	80		
8	H	117	Total	O	0	0
			117	117		

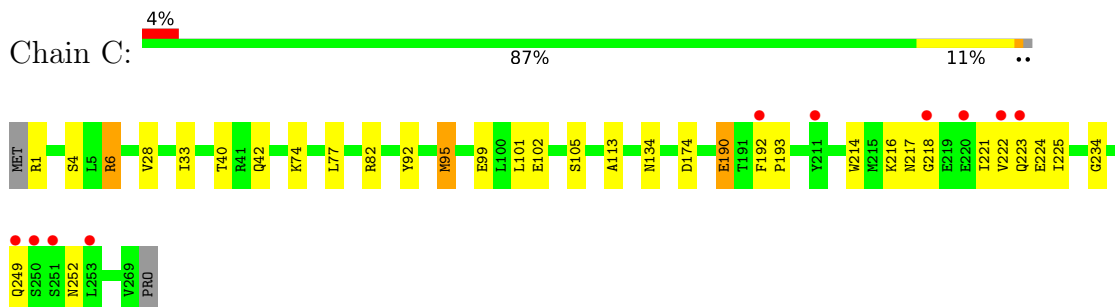
### 3 Residue-property plots [i](#)

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.

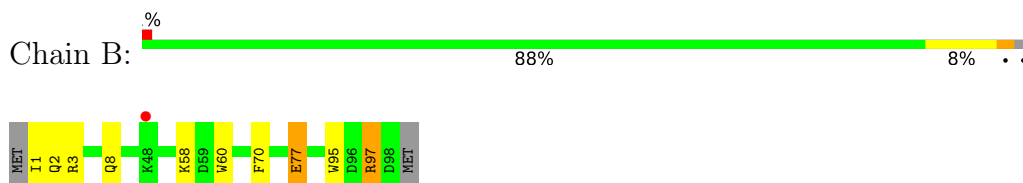
- Molecule 1: Major histocompatibility complex class I-related gene protein



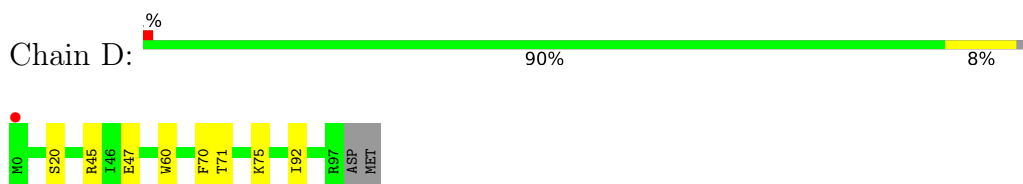
- Molecule 1: Major histocompatibility complex class I-related gene protein



- Molecule 2: Beta-2-microglobulin




- Molecule 2: Beta-2-microglobulin




- Molecule 3: M33.64 TCR Alpha Chain

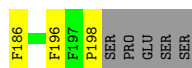


Chain E:  89% 8%




• Molecule 3: M33.64 TCR Alpha Chain

Chain G:  4% 83% 13%

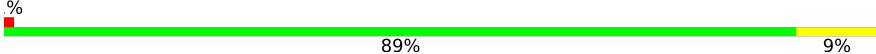


• Molecule 4: M33.64 TCR Beta Chain

Chain F:  84% 14%



• Molecule 4: M33.64 TCR Beta Chain

Chain H:  89% 9%



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	216.20Å 70.26Å 142.38Å 90.00° 104.15° 90.00°	Depositor
Resolution (Å)	47.74 – 2.20 75.11 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.9 (47.74-2.20) 99.9 (75.11-2.20)	Depositor EDS
$R_{merge}$	0.11	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.20 (at 2.20Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.171 , 0.222 0.173 , 0.223	Depositor DCC
$R_{free}$ test set	5253 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	34.1	Xtrriage
Anisotropy	0.563	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 44.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	13782	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.28% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: ACT, 2LJ, 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	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.45	0/2280	0.57	0/3098
1	C	0.42	0/2301	0.57	0/3129
2	B	0.43	0/843	0.56	1/1142 (0.1%)
2	D	0.32	0/839	0.49	0/1137
3	E	0.43	0/1609	0.55	0/2180
3	G	0.42	0/1589	0.57	0/2152
4	F	0.42	0/1920	0.55	0/2616
4	H	0.41	0/1931	0.55	0/2630
All	All	0.42	0/13312	0.56	1/18084 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	H	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3	ARG	NE-CZ-NH2	-5.41	117.59	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	H	107	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	2206	0	2099	20	0
1	C	2229	0	2117	22	0
2	B	820	0	785	8	0
2	D	816	0	779	3	0
3	E	1570	0	1489	12	0
3	G	1555	0	1476	12	0
4	F	1872	0	1776	21	0
4	H	1883	0	1792	9	0
5	A	22	0	18	2	0
5	C	22	0	18	1	0
6	C	6	0	8	0	0
6	F	6	0	8	0	0
6	G	6	0	8	0	0
6	H	6	0	8	0	0
7	C	4	0	3	0	0
7	H	4	0	3	0	0
8	A	152	0	0	5	0
8	B	39	0	0	1	0
8	C	113	0	0	4	0
8	D	18	0	0	1	0
8	E	121	0	0	1	0
8	F	115	0	0	2	0
8	G	80	0	0	0	0
8	H	117	0	0	1	0
All	All	13782	0	12387	97	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.

The worst 5 of 97 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:6[B]:ARG:HH12	2:B:58:LYS:HE2	1.49	0.77
1:C:1:ARG:N	8:C:403:HOH:O	2.17	0.77
1:A:253:LEU:N	8:A:701:HOH:O	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:45:ARG:HH12	2:D:47:GLU:HG3	1.51	0.74
1:C:223:GLN:N	1:C:224:GLU:HA	2.04	0.73

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	263/271 (97%)	254 (97%)	9 (3%)	0	100	100
1	C	268/271 (99%)	259 (97%)	7 (3%)	2 (1%)	22	22
2	B	96/100 (96%)	96 (100%)	0	0	100	100
2	D	96/100 (96%)	93 (97%)	3 (3%)	0	100	100
3	E	199/204 (98%)	194 (98%)	5 (2%)	0	100	100
3	G	196/204 (96%)	186 (95%)	10 (5%)	0	100	100
4	F	238/245 (97%)	231 (97%)	7 (3%)	0	100	100
4	H	239/245 (98%)	232 (97%)	7 (3%)	0	100	100
All	All	1595/1640 (97%)	1545 (97%)	48 (3%)	2 (0%)	51	60

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	192	PHE
1	C	193	PRO

### 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	236/241 (98%)	231 (98%)	5 (2%)	53	67
1	C	240/241 (100%)	235 (98%)	5 (2%)	53	67
2	B	93/95 (98%)	89 (96%)	4 (4%)	29	36
2	D	92/95 (97%)	89 (97%)	3 (3%)	38	49
3	E	178/181 (98%)	174 (98%)	4 (2%)	52	65
3	G	175/181 (97%)	166 (95%)	9 (5%)	24	29
4	F	201/205 (98%)	194 (96%)	7 (4%)	36	46
4	H	202/205 (98%)	191 (95%)	11 (5%)	22	26
All	All	1417/1444 (98%)	1369 (97%)	48 (3%)	37	47

5 of 48 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	G	70	TYR
3	G	146	SER
3	G	91	MET
3	G	126	SER
4	H	10	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	252	ASN
2	D	17	ASN
4	F	47	HIS

### 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		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
5	2LJ	A	600	1	21,22,22	0.46	0	21,29,29	0.76	1 (4%)
7	ACT	H	302	-	3,3,3	0.79	0	3,3,3	0.95	0
5	2LJ	C	301	1	21,22,22	0.67	1 (4%)	21,29,29	0.81	1 (4%)
6	GOL	C	302	-	5,5,5	0.34	0	5,5,5	0.85	0
6	GOL	F	301	-	5,5,5	0.43	0	5,5,5	0.37	0
6	GOL	H	301	-	5,5,5	0.41	0	5,5,5	0.36	0
7	ACT	C	303	-	3,3,3	0.84	0	3,3,3	1.35	0
6	GOL	G	301	-	5,5,5	0.38	0	5,5,5	0.32	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
5	2LJ	A	600	1	-	1/18/19/19	0/1/1/1
5	2LJ	C	301	1	-	1/18/19/19	0/1/1/1
6	GOL	C	302	-	-	4/4/4/4	-
6	GOL	F	301	-	-	0/4/4/4	-
6	GOL	H	301	-	-	1/4/4/4	-
6	GOL	G	301	-	-	2/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	301	2LJ	C7-C6	-2.49	1.46	1.49

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C	301	2LJ	C8-C7-C6	2.13	117.51	113.75
5	A	600	2LJ	C2'-C1'-N8	2.03	117.36	111.52

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	C	302	GOL	O1-C1-C2-C3
6	C	302	GOL	C1-C2-C3-O3
6	G	301	GOL	C1-C2-C3-O3
5	C	301	2LJ	N8-C1'-C2'-C3'
6	C	302	GOL	O1-C1-C2-O2

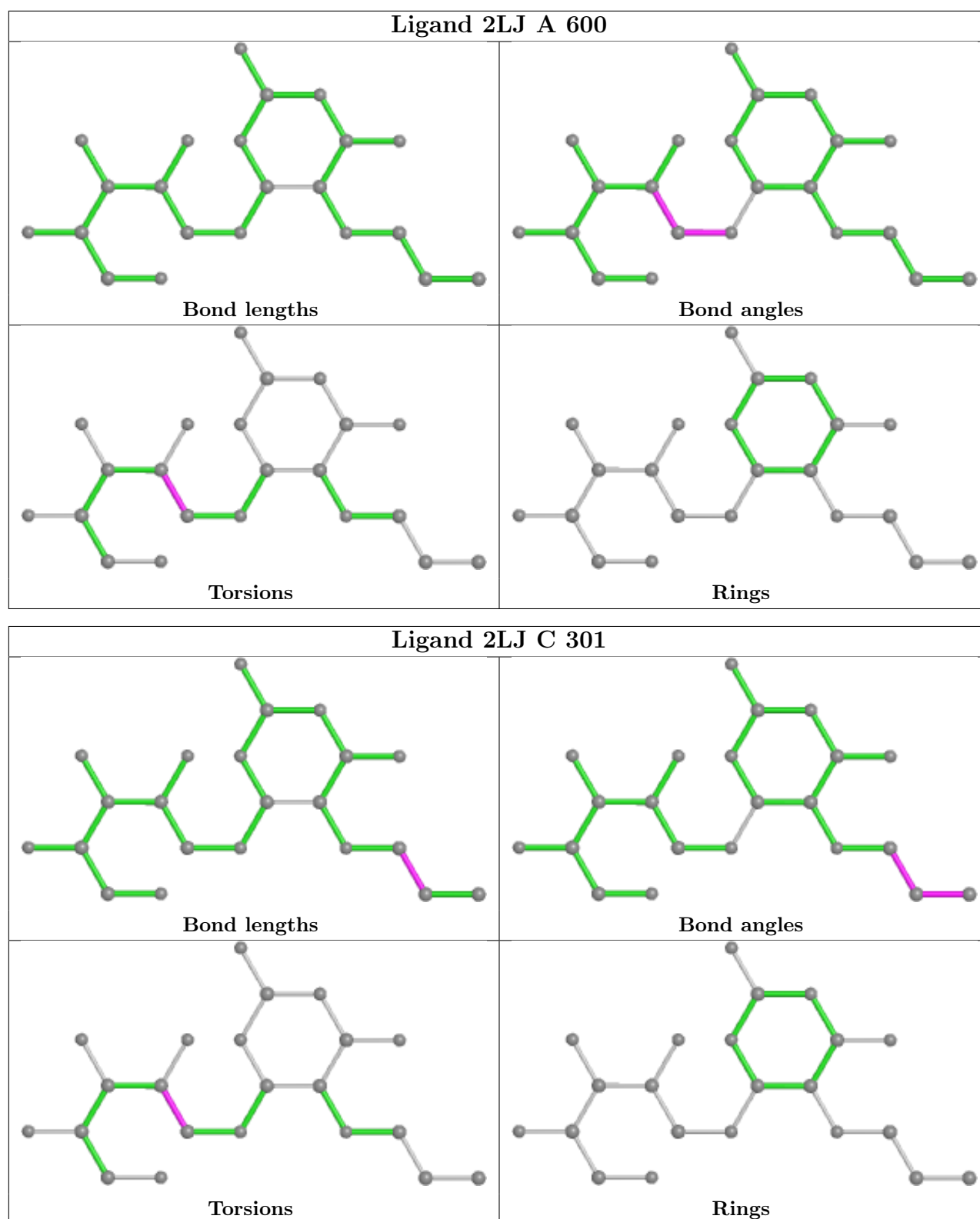
There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	600	2LJ	2	0
5	C	301	2LJ	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 than 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

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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	264/271 (97%)	-0.15	3 (1%) 80 79	23, 34, 74, 114	0
1	C	269/271 (99%)	-0.01	10 (3%) 41 39	29, 44, 93, 135	0
2	B	98/100 (98%)	-0.09	1 (1%) 82 81	28, 46, 80, 90	0
2	D	98/100 (98%)	0.09	1 (1%) 82 81	37, 70, 106, 122	0
3	E	200/204 (98%)	-0.21	0 100 100	24, 38, 75, 92	0
3	G	198/204 (97%)	0.21	8 (4%) 38 36	21, 48, 101, 121	0
4	F	240/245 (97%)	-0.14	0 100 100	30, 44, 70, 105	0
4	H	241/245 (98%)	-0.10	3 (1%) 79 77	23, 42, 81, 125	0
All	All	1608/1640 (98%)	-0.06	26 (1%) 72 70	21, 43, 88, 135	0

The worst 5 of 26 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	H	205	ARG	3.1
2	D	0	MET	3.1
4	H	132	GLU	3.1
1	C	253	LEU	3.0
1	C	223	GLN	3.0

### 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](#)

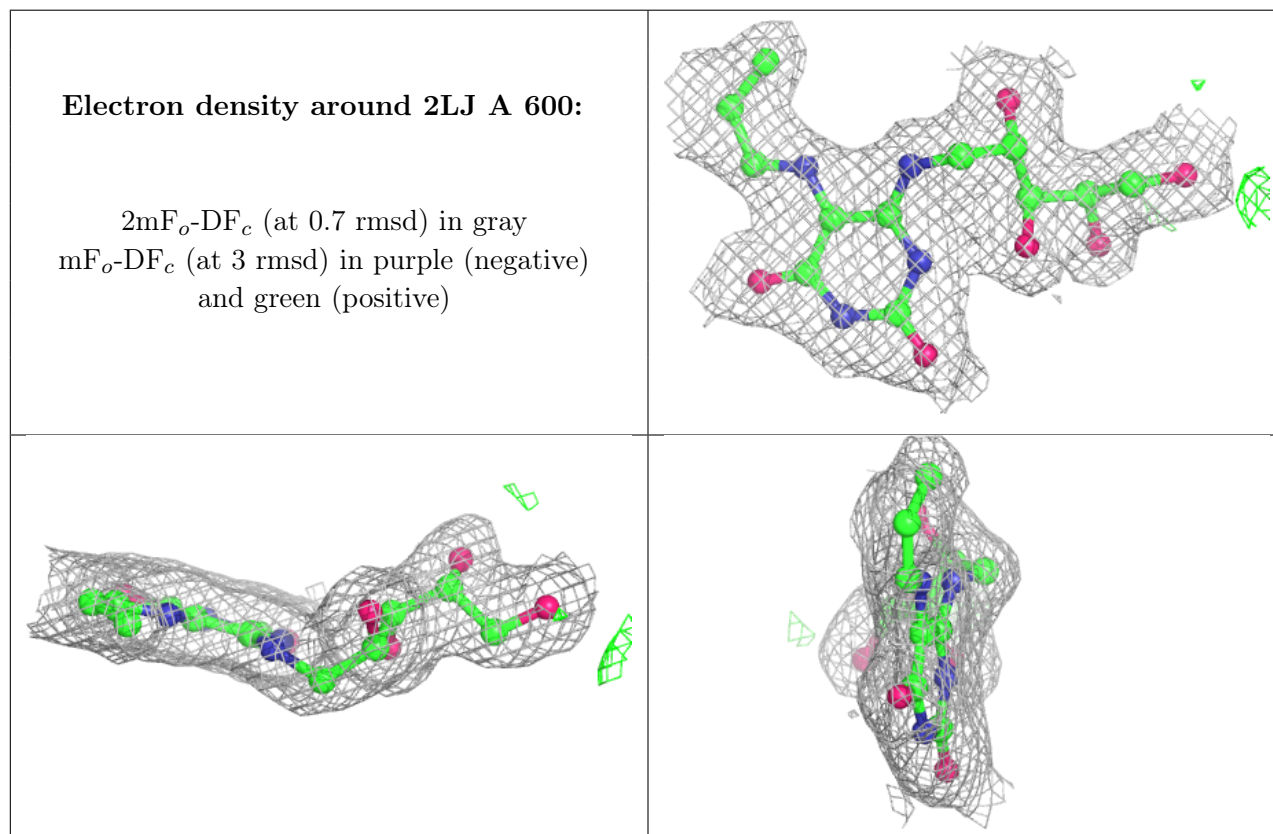
There are no monosaccharides in this entry.

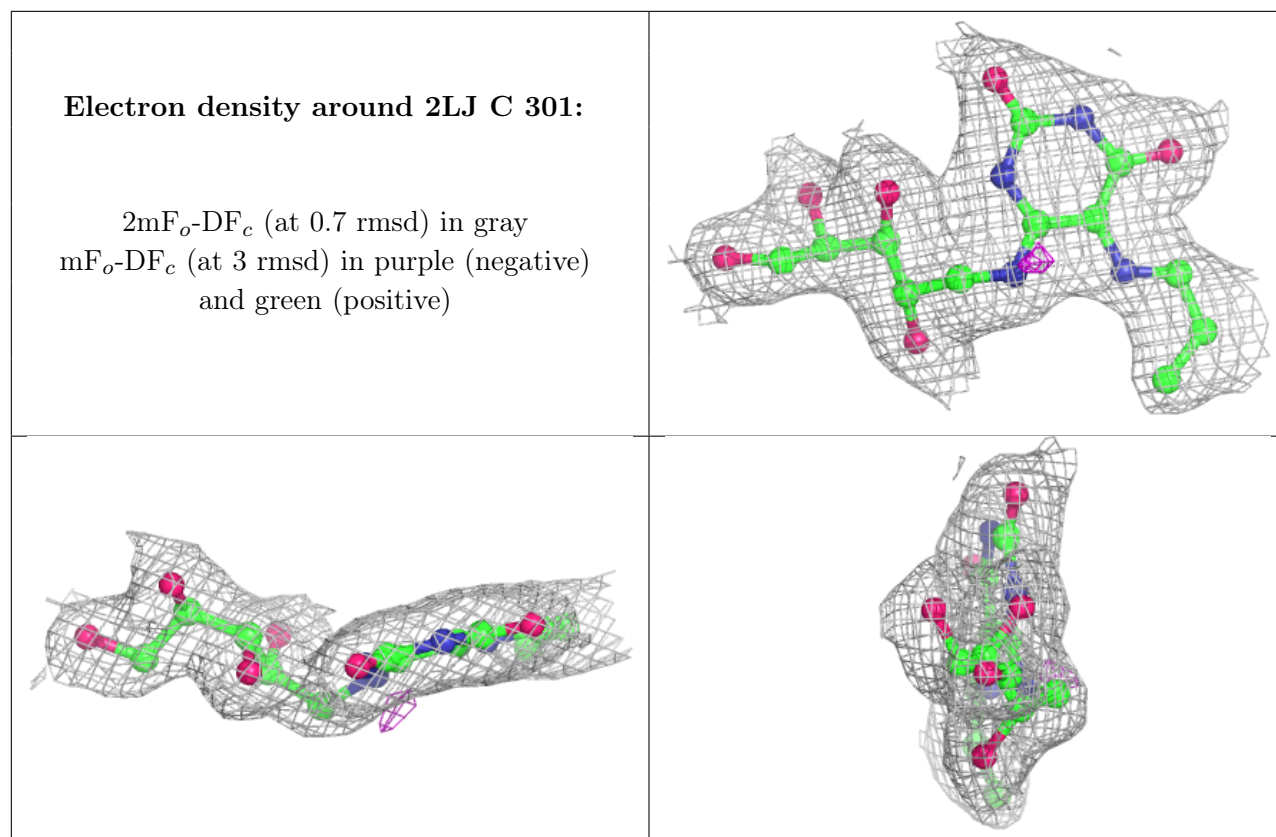
## 6.4 Ligands [i](#)

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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
7	ACT	C	303	4/4	0.81	0.20	55,64,64,67	0
6	GOL	G	301	6/6	0.84	0.20	56,62,65,65	0
6	GOL	C	302	6/6	0.87	0.22	41,50,62,70	0
7	ACT	H	302	4/4	0.91	0.19	35,38,42,45	0
6	GOL	H	301	6/6	0.97	0.13	31,34,40,40	0
5	2LJ	A	600	22/22	0.98	0.12	19,25,27,30	0
6	GOL	F	301	6/6	0.98	0.16	28,35,41,42	0
5	2LJ	C	301	22/22	0.98	0.12	21,29,32,34	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.





## 6.5 Other polymers [i](#)

There are no such residues in this entry.