

Full wwPDB X-ray Structure Validation Report (i)

Dec 16, 2023 – 06:05 PM EST

PDB ID : 4PJ8

Title : Structure of human MR1-5-OP-RU in complex with human MAIT TRBV20

TCR

Authors: Birkinshaw, R.W.; Rossjohn, J.

Deposited on : 2014-05-12

Resolution : 3.30 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.orgA 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)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

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

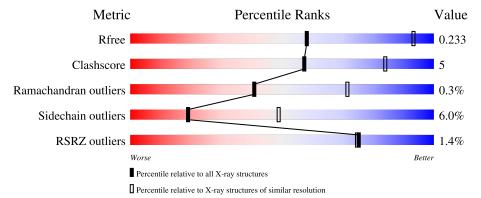
Validation Pipeline (wwPDB-VP) : 2.36

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 3.30 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	1149 (3.34-3.26)		
Clashscore	141614	1205 (3.34-3.26)		
Ramachandran outliers	138981	1183 (3.34-3.26)		
Sidechain outliers	138945	1182 (3.34-3.26)		
RSRZ outliers	127900	1115 (3.34-3.26)		

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	271	76%	19%	
2	В	99	83%	12%	
3	С	203	82%	15%	.
4	D	247	83%	15%	- :



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 6251 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	
1	Λ	260	Total	С	N	О	S	0	0	0
1	Α	200	2095	1343	361	381	10	0	0	U

There are 2 discrepancies between the modelled and reference sequences:

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	В	97	Total 763	C 490	N 129	O 142	S 2	0	0	0

• Molecule 3 is a protein called TCR-alpha.

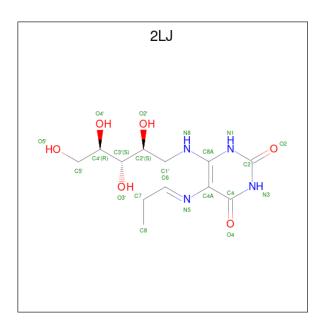
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
3	С	197	Total 1502	C 951	N 238	O 303	S 10	0	0	0

• Molecule 4 is a protein called TCR-beta.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
4	D	244	Total 1858	C 1176	N 319	O 355	S 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: C₁₂H₂₀N₄O₆).





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

• Molecule 6 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	С	1	Total Na 1 1	0	0

• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	2	Total O 2 2	0	0
7	В	1	Total O 1 1	0	0
7	С	3	Total O 3 3	0	0
7	D	4	Total O 4 4	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: Major histocompatibility complex class I-related gene protein









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants	113.57Å 113.57Å 227.98Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	
Resolution (Å)	48.07 - 3.30	Depositor
Trossoration (11)	41.37 - 3.30	EDS
% Data completeness	93.4 (48.07-3.30)	Depositor
(in resolution range)	93.4 (41.37-3.30)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.00 (at 3.32Å)	Xtriage
Refinement program	BUSTER 2.10.0	Depositor
D D	0.163 , 0.213	Depositor
R, R_{free}	0.183 , 0.233	DCC
R_{free} test set	1247 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	74.1	Xtriage
Anisotropy	0.721	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.31, 65.8	EDS
L-test for twinning ²	$< L > = 0.47, < L^2> = 0.29$	Xtriage
Estimated twinning fraction	0.038 for -h,-k,l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6251	wwPDB-VP
Average B, all atoms (\mathring{A}^2)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.03% 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: 2LJ, NA

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).

Mal	Chain	Bond	lengths	Bond angles		
Mol	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.51	0/2157	0.69	$1/2936 \ (0.0\%)$	
2	В	0.48	0/786	0.68	0/1075	
3	С	0.50	0/1537	0.68	0/2094	
4	D	0.45	0/1909	0.67	1/2611 (0.0%)	
All	All	0.49	0/6389	0.68	2/8716 (0.0%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
4	D	110	GLY	C-N-CA	5.66	135.85	121.70
1	A	257	HIS	CA-CB-CG	5.11	122.28	113.60

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	2095	0	1948	28	0
2	В	763	0	691	9	0
3	С	1502	0	1353	11	0
4	D	1858	0	1694	15	0
5	A	22	0	18	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	С	1	0	0	0	0
7	A	2	0	0	0	0
7	В	1	0	0	0	0
7	С	3	0	0	0	0
7	D	4	0	0	0	0
All	All	6251	0	5704	59	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.

All (59) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A 4 1	A 4 0	Interatomic	Clash
Atom-1	Atom-2	${\rm distance} \ ({\rm \AA})$	overlap (Å)
1:A:257:HIS:CE1	1:A:264:HIS:NE2	2.48	0.82
1:A:77:LEU:HD13	1:A:92:TYR:HB2	1.73	0.69
4:D:34:PHE:HB2	4:D:95:SER:HB3	1.76	0.68
1:A:8:PHE:CE1	1:A:95:MET:HG3	2.33	0.63
1:A:54:LEU:HB2	1:A:59:TRP:CH2	2.34	0.62
2:B:11:SER:HB2	2:B:21:ASN:HD22	1.64	0.62
2:B:7:ILE:HG12	2:B:82:VAL:HG21	1.82	0.61
1:A:203:HIS:NE2	2:B:13:HIS:CE1	2.68	0.61
4:D:89:SER:HB3	4:D:115:VAL:H	1.67	0.59
1:A:135:VAL:O	1:A:139:ILE:HD12	2.02	0.59
1:A:54:LEU:HB2	1:A:59:TRP:CZ3	2.38	0.59
3:C:131:VAL:HG12	3:C:174:TRP:HB3	1.85	0.58
3:C:36:GLN:HB2	3:C:46:LEU:HD11	1.86	0.57
1:A:232:PRO:HG2	2:B:65:LEU:HD13	1.87	0.57
4:D:3:VAL:HG23	4:D:26:LEU:HB2	1.87	0.55
3:C:50:VAL:O	3:C:66:ARG:HD3	2.09	0.52
1:A:127:LEU:HD11	1:A:154:LYS:HD2	1.92	0.51
4:D:153:TYR:CD1	4:D:154:PRO:HA	2.45	0.51
4:D:178:PRO:HB2	4:D:190:TYR:HB3	1.94	0.50
4:D:210:PHE:HB2	4:D:241:ALA:HB3	1.94	0.49
1:A:166:LYS:HA	1:A:169:LEU:HD12	1.95	0.48
4:D:124:PRO:HD3	4:D:232:PRO:HB3	1.94	0.48
1:A:94:ARG:HG3	1:A:112:TYR:CZ	2.49	0.48
1:A:33:ILE:HD12	1:A:34:THR:HG23	1.96	0.47
1:A:257:HIS:NE2	1:A:264:HIS:NE2	2.62	0.47
3:C:28:GLY:HA3	3:C:93:SER:HB3	1.97	0.47
2:B:64:LEU:HD22	2:B:66:TYR:HE2	1.79	0.47
3:C:157:CYS:HB3	4:D:195:ARG:HH11	1.79	0.47

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A		Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:A:147:GLN:HA	1:A:150:LEU:HD12	1.97	0.47
1:A:9:ARG:HB2	1:A:94:ARG:HB3	1.97	0.46
1:A:228:GLY:HA3	1:A:241:TRP:NE1	2.30	0.46
1:A:154:LYS:HE3	1:A:158:GLU:OE2	2.16	0.46
1:A:200:CYS:HB2	1:A:214:TRP:CZ2	2.50	0.46
2:B:20:SER:HA	2:B:71:THR:HG22	1.97	0.46
1:A:208:PRO:HB3	1:A:238:TYR:CG	2.51	0.45
1:A:233:SER:HB3	2:B:12:ARG:HG3	1.98	0.45
1:A:212:MET:HG3	1:A:258:VAL:HG22	1.99	0.45
2:B:11:SER:HB2	2:B:21:ASN:ND2	2.30	0.44
4:D:149:ALA:HB2	4:D:214:VAL:HG21	1.98	0.44
3:C:73:LEU:HD23	3:C:75:LEU:HD11	2.00	0.43
3:C:36:GLN:HG3	3:C:86:TYR:CE1	2.53	0.43
1:A:10:LEU:HD23	1:A:23:ILE:HD11	2.00	0.43
3:C:78:LEU:HD21	3:C:107:ILE:HD12	2.00	0.43
3:C:116:PRO:HG2	3:C:192:PRO:HG2	2.00	0.43
4:D:6:GLN:HE22	4:D:93:ILE:HA	1.84	0.43
3:C:54:LEU:HD11	3:C:61:SER:HB3	2.01	0.43
4:D:137:ILE:H	4:D:137:ILE:HG13	1.62	0.43
1:A:23:ILE:HG22	1:A:37:ASP:HB3	2.01	0.42
1:A:94:ARG:HG3	1:A:112:TYR:CE1	2.55	0.42
2:B:7:ILE:HB	2:B:93:VAL:HG21	2.01	0.42
1:A:10:LEU:HB3	1:A:23:ILE:HG13	2.01	0.41
1:A:80:LEU:HD23	1:A:114:TYR:CD1	2.56	0.41
1:A:180:GLU:O	1:A:205:PHE:HA	2.21	0.41
3:C:158:VAL:HG22	3:C:169:ASN:OD1	2.21	0.41
4:D:205:ASN:O	4:D:243:GLY:HA3	2.20	0.41
4:D:24:ARG:HA	4:D:75:THR:O	2.21	0.40
4:D:40:PRO:HA	4:D:41:LYS:HA	1.76	0.40
1:A:120:LEU:HD13	1:A:143:TRP:CZ3	2.56	0.40
4:D:6:GLN:HG2	4:D:108:GLY:HA3	2.03	0.40

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	Perce	ntiles
1	A	$252/271 \ (93\%)$	243 (96%)	8 (3%)	1 (0%)	34	66
2	В	95/99~(96%)	89 (94%)	5 (5%)	1 (1%)	14	45
3	C	195/203~(96%)	186 (95%)	9 (5%)	0	100	100
4	D	241/247 (98%)	229 (95%)	12 (5%)	0	100	100
All	All	783/820 (96%)	747 (95%)	34 (4%)	2 (0%)	41	71

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	190	GLU
2	В	12	ARG

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	entiles
1	A	216/241 (90%)	204 (94%)	12 (6%)	21	52
2	В	80/94 (85%)	75 (94%)	5 (6%)	18	47
3	С	159/180 (88%)	148 (93%)	11 (7%)	15	44
4	D	193/216 (89%)	182 (94%)	11 (6%)	20	51
All	All	648/731 (89%)	609 (94%)	39 (6%)	19	49

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	SER
1	A	33	ILE
1	A	73	PHE
1	A	86	HIS
1	A	98	CYS
1	A	102	GLU

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Mol	Chain	Res	ous page Type
1	A	107	Type THR
1	A	138	THR
1	A		
	A A	155	ASN
1	A	175	THR
1	A	239	GLN
1	A	253	LEU
2	В	13	HIS
2	В	38	ASP
2	В	64	LEU
2	В	70	PHE
2	В	92	ILE
3	С	2	GLN
3	С	3	ASN
3	С	25	GLN
3	С	62	SER
3	С	76	LYS
3	С	83	SER
3	C C C C	94	ASN
3	С	154	THR
3	C C C	159	LEU
3	С	163	SER
3	С	178	SER
4	D	17	THR
4	D	19	VAL
4	D	57	THR
4	D	99	SER
4	D	117	GLU
4	D	129	VAL
4	D	137	ILE
4	D	145	LEU
4	D	150	THR
4	D	173	CYS
4	D	223	ASP
	1		1

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such side chains are listed below:

Mol	Chain	Res	Type
1	A	155	ASN
2	В	8	GLN
2	В	13	HIS
2	В	21	ASN
3	С	187	ASN

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Mol	Chain	Res	Type
4	D	6	GLN
4	D	215	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)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	Pag	Pos Lin	Link	Bond lengths			Bond angles		
				Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2		
5	2LJ	A	301	1	21,22,22	1.63	3 (14%)	21,29,29	1.05	2 (9%)		

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	301	1	-	1/18/19/19	0/1/1/1

All (3) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
5	A	301	2LJ	C7-C6	5.38	1.54	1.49
5	A	301	2LJ	C8A-N8	4.14	1.38	1.32
5	A	301	2LJ	C1'-C2'	2.55	1.56	1.52

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
5	A	301	2LJ	C8-C7-C6	2.90	118.88	113.75
5	A	301	2LJ	C6-N5-C4A	2.87	125.37	121.19

There are no chirality outliers.

All (1) torsion outliers are listed below:

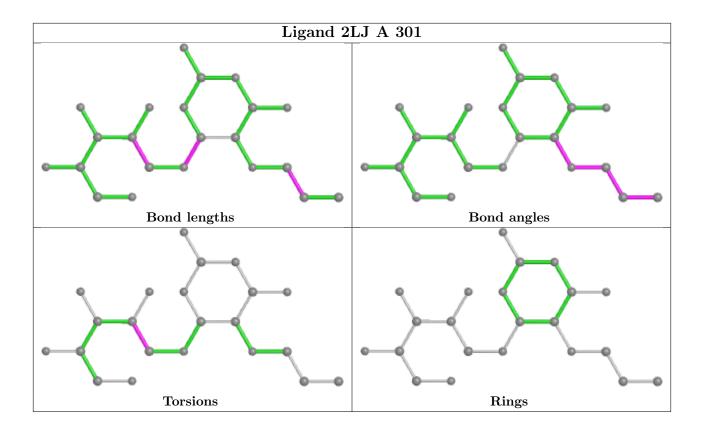
Mol	Chain	Res	Type	Atoms
5	A	301	2LJ	N8-C1'-C2'-C3'

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 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>	$\# \mathrm{RSRZ} {>} 2$	$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q < 0.9
1	A	$260/271 \ (95\%)$	-0.08	10 (3%) 40 37	47, 72, 112, 155	1 (0%)
2	В	97/99 (97%)	-0.04	0 100 100	60, 88, 125, 127	0
3	С	197/203 (97%)	-0.11	0 100 100	50, 79, 119, 131	0
4	D	244/247 (98%)	-0.06	1 (0%) 92 93	54, 90, 126, 158	1 (0%)
All	All	798/820 (97%)	-0.08	11 (1%) 75 75	47, 81, 122, 158	2 (0%)

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	191	THR	3.9
1	A	196	THR	3.7
1	A	194	GLY	3.2
1	A	197	ALA	2.9
1	A	254	TYR	2.8
1	A	198	LEU	2.5
1	A	195	VAL	2.5
4	D	232	PRO	2.2
1	A	244	ILE	2.2
1	A	193	PRO	2.1
1	A	190	GLU	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)

There are no monosaccharides in this entry.

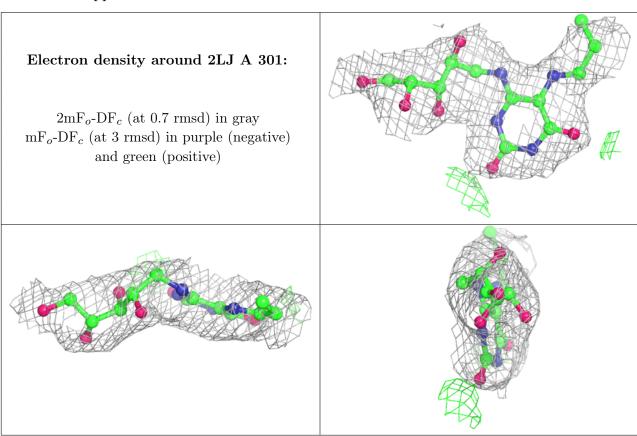


6.4 Ligands (i)

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
6	NA	С	301	1/1	0.85	0.24	61,61,61,61	0
5	2LJ	A	301	22/22	0.98	0.20	49,54,61,62	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.

