



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 07:49 pm BST

PDB ID : 1MRD
Title : PREPARATION, CHARACTERIZATION AND CRYSTALLIZATION OF AN ANTIBODY FAB FRAGMENT THAT RECOGNIZES RNA. CRYSTAL STRUCTURES OF NATIVE FAB AND THREE FAB-MONONUCLEOTIDE COMPLEXES
Authors : Pokkuluri, P.R.; Cygler, M.
Deposited on : 1994-06-13
Resolution : 2.30 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.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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 : 2.11
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) : 2.11

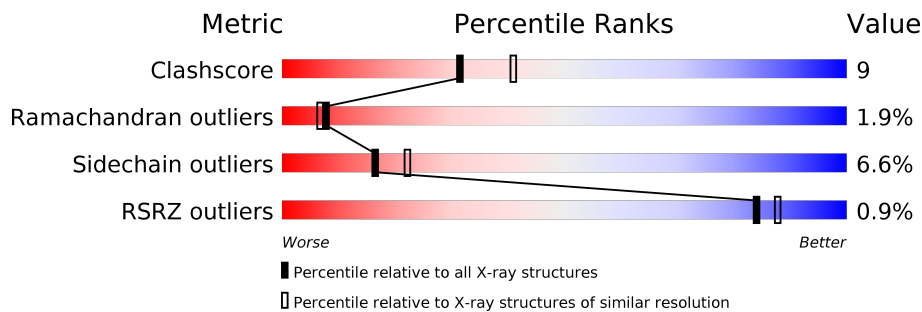
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 2.30 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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 $\leq 5\%$. 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	L	219	 74% 23% ..
2	H	215	 2% 73% 21% ..

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 3305 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 IGG2B-KAPPA JEL103 FAB (LIGHT CHAIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	216	1633	1023	278	326	6	0	0	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	3	VAL	LEU	CONFLICT	PIR PC4203
L	27B	LEU	ILE	CONFLICT	PIR PC4203
L	27A	SER	THR	CONFLICT	PIR PC4203
L	34	HIS	GLU	CONFLICT	PIR PC4203
L	87	PHE	TYR	CONFLICT	PIR PC4203
L	89	SER	PHE	CONFLICT	PIR PC4203
L	91	SER	GLY	CONFLICT	PIR PC4203
L	92	THR	SER	CONFLICT	PIR PC4203
L	153	LYS	SER	CONFLICT	PIR PC4203
L	167	ASN	ASP	CONFLICT	PIR PC4203

- Molecule 2 is a protein called IGG2B-KAPPA JEL103 FAB (HEAVY CHAIN).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	208	1536	976	243	310	7	0	0	0

There are 31 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	13	LYS	ARG	CONFLICT	GB 387221
H	16	ALA	THR	CONFLICT	GB 387221
H	20	LEU	MET	CONFLICT	GB 387221
H	25	SER	ALA	CONFLICT	GB 387221
H	31	SER	ASN	CONFLICT	GB 387221
H	34	MET	ILE	CONFLICT	GB 387221

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Chain	Residue	Modelled	Actual	Comment	Reference
H	35	GLN	GLY	CONFLICT	GB 387221
H	39	GLN	GLU	CONFLICT	GB 387221
H	43	GLN	HIS	CONFLICT	GB 387221
H	50	GLU	ASP	CONFLICT	GB 387221
H	52	ASP	TYR	CONFLICT	GB 387221
H	53	SER	GLY	CONFLICT	GB 387221
H	54	ASP	GLY	CONFLICT	GB 387221
H	55	SER	GLY	CONFLICT	GB 387221
H	56	TYR	PHE	CONFLICT	GB 387221
H	61	GLN	GLU	CONFLICT	GB 387221
H	62	LYS	ASN	CONFLICT	GB 387221
H	71	VAL	ALA	CONFLICT	GB 387221
H	89	VAL	ILE	CONFLICT	GB 387221
H	91	TYR	HIS	CONFLICT	GB 387221
H	?	-	ARG	DELETION	GB 387221
H	?	-	GLY	DELETION	GB 387221
H	?	-	ILE	DELETION	GB 387221
H	?	-	TYR	DELETION	GB 387221
H	?	-	TYR	DELETION	GB 387221
H	95	LEU	SER	CONFLICT	GB 387221
H	96	ARG	SER	CONFLICT	GB 387221
H	97	GLY	PRO	CONFLICT	GB 387221
H	102	TYR	SER	CONFLICT	GB 387221
H	140	LEU	SER	CONFLICT	GB 387221
H	151	SER	PRO	CONFLICT	GB 387221

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	L	1	Total Zn 1 1	0	0

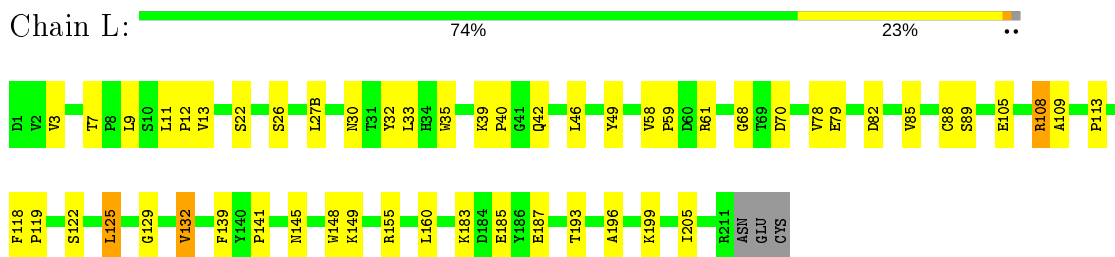
- Molecule 4 is IMIDAZOLE (three-letter code: IMD) (formula: C₃H₅N₂).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	L	55	Total 55	O 55	0	0
6	H	48	Total 48	O 48	0	0

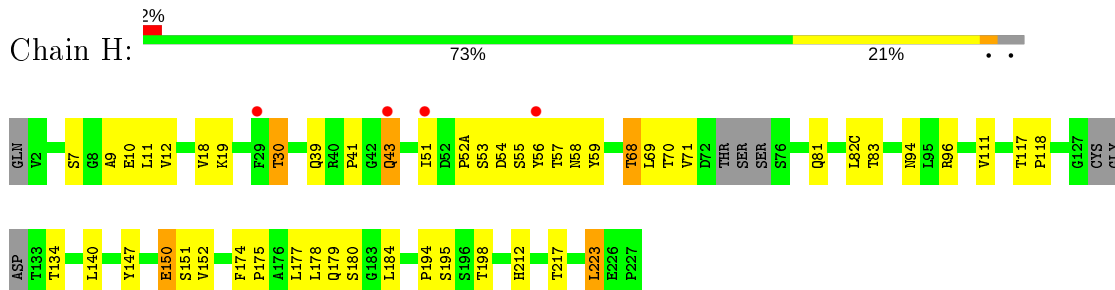
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: IGG2B-KAPPA JEL103 FAB (LIGHT CHAIN)



- Molecule 2: IGG2B-KAPPA JEL103 FAB (HEAVY CHAIN)



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	66.20Å 75.30Å 105.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	(Not available) – 2.30 56.03 – 2.05	Depositor EDS
% Data completeness (in resolution range)	(Not available) ((Not available)-2.30) 50.7 (56.03-2.05)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.27 (at 2.05Å)	Xtrriage
Refinement program	X-PLOR	Depositor
R, R_{free}	0.195 , (Not available) 0.189 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	35.7	Xtrriage
Anisotropy	0.308	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 81.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3305	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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: ZN, IMD, IDP

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	L	0.49	0/1669	0.78	0/2268
2	H	0.48	0/1577	0.79	0/2159
All	All	0.49	0/3246	0.78	0/4427

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	L	1633	0	1551	29	0
2	H	1536	0	1431	29	0
3	L	1	0	0	0	0
4	L	5	0	4	0	0
5	L	27	0	10	1	0
6	H	48	0	0	0	0
6	L	55	0	0	2	0
All	All	3305	0	2996	56	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 9.

All (56) 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:L:85:VAL:HG21	2:H:43:GLN:HE22	1.58	0.69
2:H:54:ASP:HB3	2:H:56:TYR:CD1	2.33	0.64
2:H:12:VAL:HG21	2:H:82(C):LEU:HD13	1.81	0.61
2:H:68:THR:HG23	2:H:81:GLN:HB3	1.83	0.59
2:H:140:LEU:HB3	2:H:223:LEU:HD22	1.87	0.57
2:H:30:THR:OG1	2:H:53:SER:HB3	2.05	0.56
1:L:12:PRO:HA	1:L:105:GLU:O	2.07	0.54
1:L:3:VAL:HG13	1:L:26:SER:HB3	1.89	0.54
1:L:108:ARG:HD3	1:L:109:ALA:O	2.07	0.54
2:H:19:LYS:HG3	2:H:81:GLN:HG3	1.88	0.54
1:L:85:VAL:HG21	2:H:43:GLN:NE2	2.23	0.53
1:L:13:VAL:HG21	1:L:78:VAL:HG21	1.90	0.53
2:H:51:ILE:O	2:H:52(A):PRO:HD3	2.08	0.53
2:H:12:VAL:HG21	2:H:82(C):LEU:CD1	2.40	0.52
1:L:183:LYS:HB3	6:L:657:HOH:O	2.11	0.50
1:L:39:LYS:O	1:L:42:GLN:HB2	2.11	0.50
1:L:129:GLY:HA3	6:L:662:HOH:O	2.12	0.49
1:L:33:LEU:HD22	1:L:89:SER:O	2.13	0.49
1:L:35:TRP:CZ3	1:L:88:CYS:HB3	2.49	0.48
1:L:79:GLU:O	1:L:82:ASP:HB2	2.14	0.48
1:L:7:THR:HB	1:L:22:SER:HB3	1.96	0.47
1:L:113:PRO:HB3	1:L:139:PHE:HB3	1.97	0.46
2:H:212:HIS:HB3	2:H:217:THR:HB	1.98	0.46
1:L:61:ARG:HH11	1:L:61:ARG:HG3	1.81	0.46
1:L:11:LEU:HA	1:L:12:PRO:HD2	1.90	0.45
2:H:9:ALA:O	2:H:10:GLU:HG2	2.16	0.45
1:L:141:PRO:HG3	1:L:199:LYS:HD3	1.99	0.45
1:L:205:ILE:N	1:L:205:ILE:HD12	2.31	0.44
1:L:132:VAL:HG22	1:L:148:TRP:CH2	2.52	0.44
2:H:57:THR:HG21	2:H:59:TYR:HE1	1.82	0.44
2:H:30:THR:HA	2:H:52(A):PRO:HB2	2.00	0.43
1:L:145:ASN:O	1:L:196:ALA:HA	2.18	0.43
2:H:39:GLN:NE2	2:H:43:GLN:HG2	2.33	0.43
2:H:52(A):PRO:HA	2:H:71:VAL:HG21	2.00	0.43
1:L:118:PHE:HA	1:L:119:PRO:HD3	1.86	0.43
1:L:125:LEU:HA	1:L:125:LEU:HD12	1.90	0.43
2:H:57:THR:CG2	2:H:59:TYR:HE1	2.32	0.43
1:L:149:LYS:HB2	1:L:193:THR:HB	2.00	0.43
2:H:152:VAL:HG23	2:H:212:HIS:CD2	2.54	0.42
2:H:147:TYR:HE1	2:H:150:GLU:O	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:59:TYR:OH	2:H:68:THR:HA	2.19	0.42
2:H:59:TYR:CE2	2:H:69:LEU:HD22	2.54	0.41
1:L:205:ILE:H	1:L:205:ILE:HD12	1.86	0.41
2:H:51:ILE:HD13	2:H:71:VAL:HG13	2.03	0.41
2:H:94:ASN:HA	2:H:94:ASN:HD22	1.69	0.41
2:H:12:VAL:O	2:H:111:VAL:HA	2.20	0.41
1:L:183:LYS:O	1:L:187:GLU:HG3	2.21	0.41
5:L:901:IDP:H2'	5:L:901:IDP:H8	1.93	0.41
2:H:117:THR:HA	2:H:118:PRO:HD3	1.85	0.40
1:L:30:ASN:HB2	1:L:32:TYR:CE1	2.56	0.40
1:L:58:VAL:HA	1:L:59:PRO:HD3	1.80	0.40
2:H:174:PHE:HA	2:H:175:PRO:HD3	1.78	0.40
1:L:46:LEU:HD21	1:L:49:TYR:HB3	2.04	0.40
1:L:160:LEU:HD11	2:H:179:GLN:HE21	1.87	0.40
2:H:18:VAL:HG12	2:H:82(C):LEU:HD11	2.03	0.40
2:H:194:PRO:HB2	2:H:198:THR:HG23	2.02	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	Percentiles	
1	L	214/219 (98%)	204 (95%)	9 (4%)	1 (0%)	29	35
2	H	202/215 (94%)	188 (93%)	7 (4%)	7 (4%)	3	2
All	All	416/434 (96%)	392 (94%)	16 (4%)	8 (2%)	8	7

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	30	THR
2	H	55	SER

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Mol	Chain	Res	Type
2	H	134	THR
2	H	41	PRO
2	H	151	SER
2	H	180	SER
2	H	43	GLN
1	L	68	GLY

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	L	181/197 (92%)	171 (94%)	10 (6%)	21	30
2	H	167/186 (90%)	154 (92%)	13 (8%)	12	16
All	All	348/383 (91%)	325 (93%)	23 (7%)	16	22

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	9	LEU
1	L	27(B)	LEU
1	L	40	PRO
1	L	70	ASP
1	L	108	ARG
1	L	122	SER
1	L	125	LEU
1	L	132	VAL
1	L	155	ARG
1	L	185	GLU
2	H	7	SER
2	H	11	LEU
2	H	58	ASN
2	H	68	THR
2	H	70	THR
2	H	83	THR
2	H	96	ARG

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Mol	Chain	Res	Type
2	H	150	GLU
2	H	177	LEU
2	H	178	LEU
2	H	184	LEU
2	H	195	SER
2	H	223	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	42	GLN
1	L	137	ASN
2	H	43	GLN
2	H	94	ASN
2	H	179	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 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	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	IDP	L	901	-	23,29,29	1.70	2 (8%)	27,45,45	2.09	6 (22%)
4	IMD	L	902	3	3,5,5	0.15	0	4,5,5	0.41	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	IDP	L	901	-	-	8/12/32/32	0/3/3/3
4	IMD	L	902	3	-	-	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	901	IDP	C6-C5	6.28	1.52	1.41
5	L	901	IDP	C6-N1	2.94	1.38	1.33

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	901	IDP	C2-N1-C6	6.45	126.68	115.88
5	L	901	IDP	N3-C2-N1	-4.50	121.64	128.68
5	L	901	IDP	O4'-C4'-C5'	3.85	122.05	109.37
5	L	901	IDP	C5'-C4'-C3'	2.77	125.57	115.18
5	L	901	IDP	C3'-C2'-C1'	2.45	104.66	100.98
5	L	901	IDP	O2'-C2'-C1'	2.23	119.08	110.85

There are no chirality outliers.

All (8) torsion outliers are listed below:

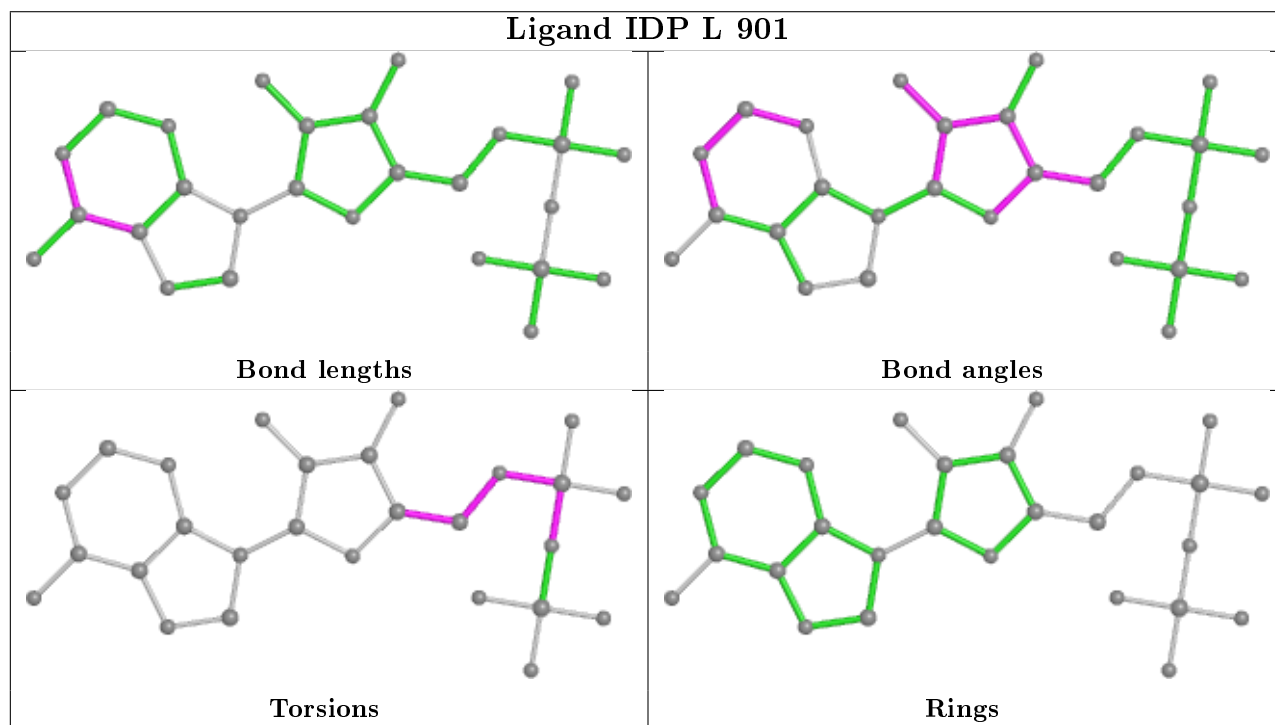
Mol	Chain	Res	Type	Atoms
5	L	901	IDP	C5'-O5'-PA-O1A
5	L	901	IDP	C5'-O5'-PA-O2A
5	L	901	IDP	O4'-C4'-C5'-O5'
5	L	901	IDP	PB-O3A-PA-O1A
5	L	901	IDP	PB-O3A-PA-O5'
5	L	901	IDP	C4'-C5'-O5'-PA
5	L	901	IDP	C3'-C4'-C5'-O5'
5	L	901	IDP	C5'-O5'-PA-O3A

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	L	901	IDP	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, 95th 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 ²)	Q<0.9
1	L	216/219 (98%)	-0.60	0 100 100	16, 33, 50, 61	0
2	H	208/215 (96%)	-0.38	4 (1%) 66 73	13, 41, 76, 99	0
All	All	424/434 (97%)	-0.49	4 (0%) 84 88	13, 36, 71, 99	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	51	ILE	3.0
2	H	29	PHE	3.0
2	H	43	GLN	2.2
2	H	56	TYR	2.2

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 carbohydrates 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, 95th 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.

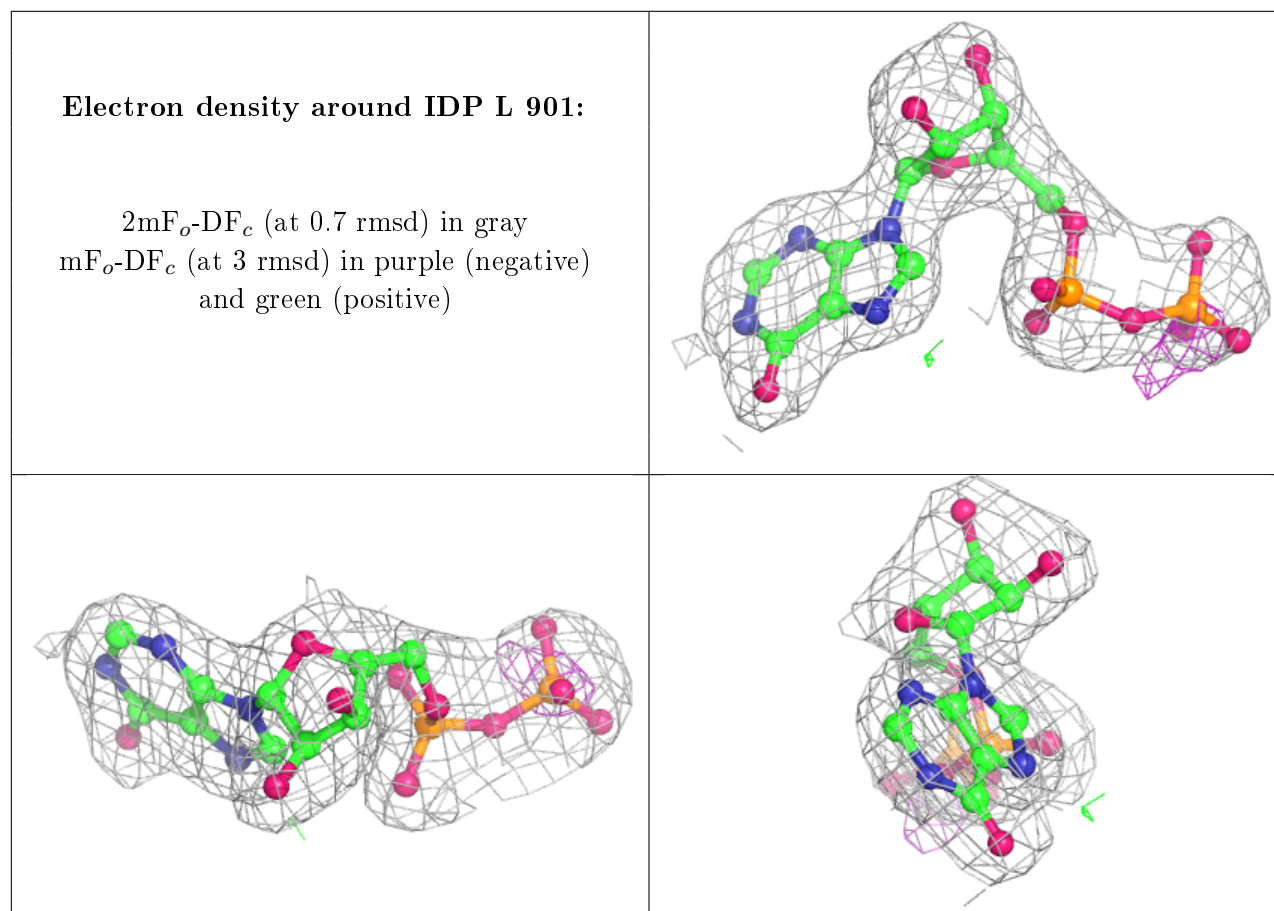
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	IDP	L	901	27/27	0.95	0.10	37,51,95,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	IMD	L	902	5/5	0.99	0.08	25,25,27,27	0
3	ZN	L	600	1/1	1.00	0.06	28,28,28,28	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.