



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:35 PM UTC

PDB ID : 9GEJ / pdb\_00009gej  
Title : Crystal structure of CREBBP bromodomain in complex with (2R,13S,E)-2-methyl-1,2,3,5,10,11,13,14,20,21,24,25-dodecahydro-19H,23H-16,18-etheno-9,13-methano-7,28-(metheno)[1,4]diazepino[2,3-k]pyrido[1,2-s][1,4]dioxo[7,19]diazacyclodocosine-4,8-dione  
Authors : Amann, M.; Boyd, A.; Einsle, O.; Guenther, S.; Moroglu, M.; Conway, S.  
Deposited on : 2024-08-07  
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](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](#) ①) were used in the production of this report:

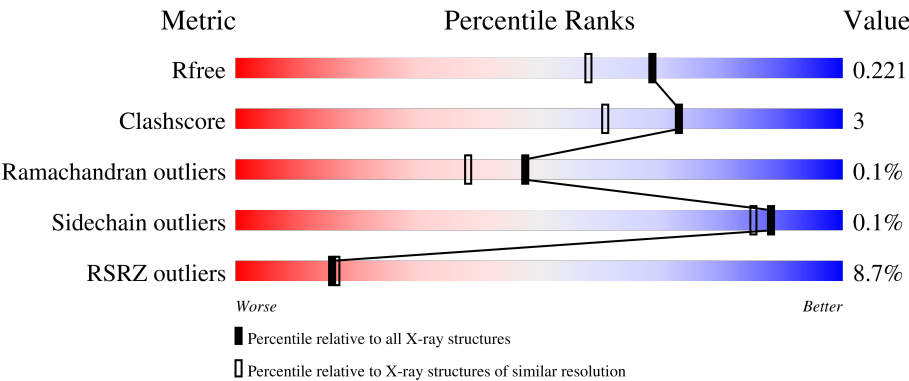
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

# 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	180053	1296 (1.84-1.84)
Clashscore	190562	1329 (1.84-1.84)
Ramachandran outliers	187476	1318 (1.84-1.84)
Sidechain outliers	187428	1318 (1.84-1.84)
RSRZ outliers	180081	1296 (1.84-1.84)

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	119	<div><div>5%</div><div><div></div><div>89%</div><div>9%</div><div></div></div><div></div></div>
1	B	119	<div><div>4%</div><div><div></div><div>90%</div><div>8%</div><div></div></div><div></div></div>
1	C	119	<div><div>3%</div><div><div></div><div>94%</div><div></div><div></div></div><div></div></div>
1	D	119	<div><div>5%</div><div><div></div><div>92%</div><div>6%</div><div></div></div><div></div></div>
1	E	119	<div><div>9%</div><div><div></div><div>84%</div><div>12%</div><div></div></div><div></div></div>

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Mol	Chain	Length	Quality of chain
1	F	119	
1	G	119	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	A1IKJ	A	201	X	-	-	-
2	A1IKJ	B	201[A]	X	-	-	-
2	A1IKJ	B	201[B]	X	-	-	-
2	A1IKJ	D	201	X	-	-	-
2	A1IKJ	E	201[A]	X	-	-	-
2	A1IKJ	E	201[B]	X	-	-	-
2	A1IKJ	F	201	X	-	-	-
2	A1IKJ	G	201[A]	X	-	-	-
2	A1IKJ	G	201[B]	X	-	-	-
2	A1IKJ	G	202[A]	X	-	-	-
2	A1IKJ	G	202[B]	X	-	-	-

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8082 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.

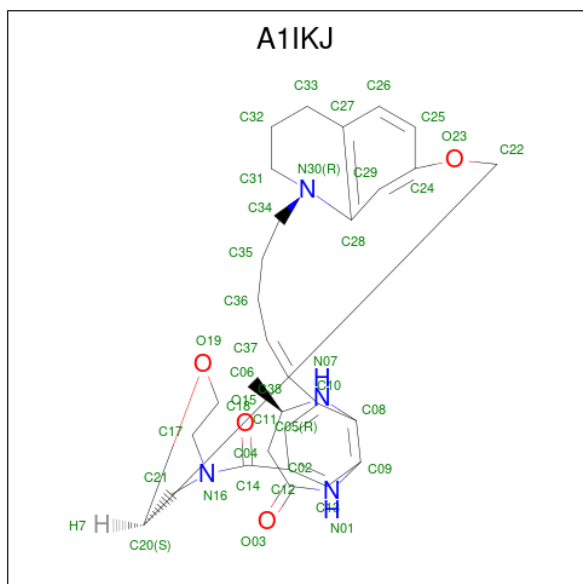
- Molecule 1 is a protein called CREBBP.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	117	Total	C	N	O	S	0	2	0
			983	640	158	180	5			
1	B	116	Total	C	N	O	S	0	2	0
			976	635	158	178	5			
1	C	115	Total	C	N	O	S	0	3	0
			979	637	161	176	5			
1	D	116	Total	C	N	O	S	0	4	1
			992	647	162	178	5			
1	E	114	Total	C	N	O	S	0	4	0
			980	636	162	177	5			
1	F	115	Total	C	N	O	S	0	2	1
			972	630	159	178	5			
1	G	111	Total	C	N	O	S	0	1	0
			909	590	148	166	5			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP Q92793
A	2	MET	-	expression tag	UNP Q92793
B	1	SER	-	expression tag	UNP Q92793
B	2	MET	-	expression tag	UNP Q92793
C	1	SER	-	expression tag	UNP Q92793
C	2	MET	-	expression tag	UNP Q92793
D	1	SER	-	expression tag	UNP Q92793
D	2	MET	-	expression tag	UNP Q92793
E	1	SER	-	expression tag	UNP Q92793
E	2	MET	-	expression tag	UNP Q92793
F	1	SER	-	expression tag	UNP Q92793
F	2	MET	-	expression tag	UNP Q92793
G	1	SER	-	expression tag	UNP Q92793
G	2	MET	-	expression tag	UNP Q92793

- Molecule 2 is 2R,13S,E)-2-methyl-1,2,3,5,10,11,13,14,20,21,24,25-dodecahydro-19H,23H-16,18-etheno-9,13-methano-7,28-(metheno)[1,4]diazepino[2,3-k]pyrido[1,2-s][1,4]dioxo[7,19]diazacyclodocosine-4,8-dione (CCD ID: A1IKJ) (formula: C<sub>30</sub>H<sub>36</sub>N<sub>4</sub>O<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			38	30	4	4		
2	B	1	Total	C	N	O	0	1
			76	60	8	8		
2	D	1	Total	C	N	O	0	0
			38	30	4	4		
2	E	1	Total	C	N	O	0	1
			76	60	8	8		
2	F	1	Total	C	N	O	0	0
			38	30	4	4		
2	G	1	Total	C	N	O	0	1
			76	60	8	8		
2	G	1	Total	C	N	O	0	1
			76	60	8	8		

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	C	1	Total	O	S	0	0
			5	4	1		
3	D	1	Total	O	S	0	0
			5	4	1		
3	D	1	Total	O	S	0	0
			5	4	1		
3	E	1	Total	O	S	0	0
			5	4	1		
3	F	1	Total	O	S	0	0
			5	4	1		
3	G	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	167	Total	O	0	0
			167	167		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	189	Total 189	O 189	0	0
4	C	104	Total 104	O 104	0	0
4	D	131	Total 131	O 131	0	0
4	E	83	Total 83	O 83	0	0
4	F	76	Total 76	O 76	0	0
4	G	68	Total 68	O 68	0	0

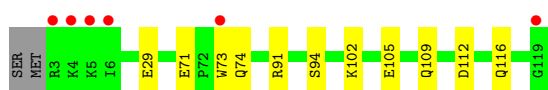


### 3 Residue-property plots [i](#)

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: CREBBP

Chain A: 



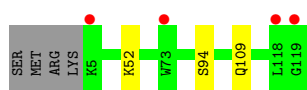
- Molecule 1: CREBBP

Chain B: 



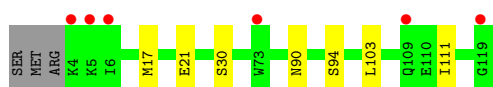
- Molecule 1: CREBBP

Chain C: 




- Molecule 1: CREBBP

Chain D: 

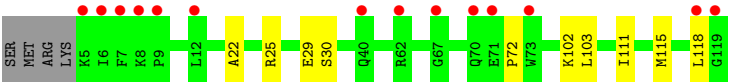
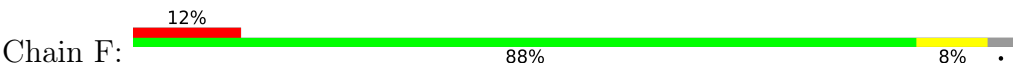


- Molecule 1: CREBBP

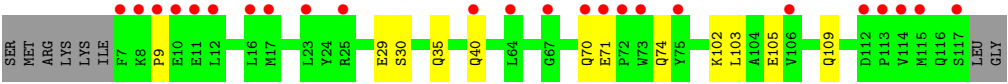
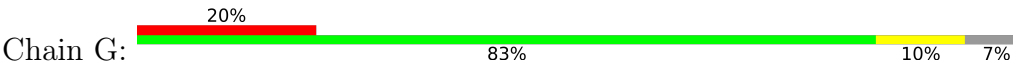
Chain E: 



- Molecule 1: CREBBP



● Molecule 1: CREBBP



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	162.16Å 50.19Å 144.46Å 90.00° 101.38° 90.00°	Depositor
Resolution (Å)	141.62 – 1.84 141.62 – 1.84	Depositor EDS
% Data completeness (in resolution range)	52.6 (141.62-1.84) 52.8 (141.62-1.84)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.52 (at 1.83Å)	Xtriage
Refinement program	PHENIX 1.21_5207	Depositor
R, $R_{free}$	0.192 , 0.220 0.193 , 0.221	Depositor DCC
$R_{free}$ test set	2582 reflections (2.58%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	20.1	Xtriage
Anisotropy	0.120	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 47.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.51$ , $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	8082	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.58% 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

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: A1IKJ, SO4

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	0.15	0/1016	0.31	0/1379
1	B	0.12	0/1009	0.29	0/1368
1	C	0.11	0/1015	0.26	0/1375
1	D	0.11	0/1033	0.27	0/1404
1	E	0.12	0/1016	0.30	0/1380
1	F	0.12	0/1008	0.27	0/1371
1	G	0.14	0/937	0.33	0/1274
All	All	0.13	0/7034	0.29	0/9551

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

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	983	0	963	9	0
1	B	976	0	961	6	0
1	C	979	0	973	3	0
1	D	992	0	978	4	0
1	E	980	0	963	10	0
1	F	972	0	947	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G	909	0	870	7	0
2	A	38	0	0	0	0
2	B	76	0	0	0	0
2	D	38	0	0	0	0
2	E	76	0	0	1	0
2	F	38	0	0	0	0
2	G	152	0	0	0	0
3	A	15	0	0	1	0
3	B	10	0	0	0	0
3	C	5	0	0	0	0
3	D	10	0	0	0	0
3	E	5	0	0	0	0
3	F	5	0	0	0	0
3	G	5	0	0	0	0
4	A	167	0	0	1	0
4	B	189	0	0	1	0
4	C	104	0	0	1	0
4	D	131	0	0	0	0
4	E	83	0	0	1	0
4	F	76	0	0	1	0
4	G	68	0	0	2	0
All	All	8082	0	6655	44	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 3.

All (44) 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:71:GLU:HG2	1:A:74:GLN:HG3	1.64	0.80
1:G:71:GLU:HG2	1:G:74:GLN:HG3	1.67	0.75
1:A:105:GLU:O	1:A:109:GLN:HG3	1.98	0.62
1:A:91:ARG:NH1	3:A:203:SO4:O3	2.34	0.61
1:B:95:ARG:NH1	4:B:304:HOH:O	2.34	0.61
1:E:70:GLN:N	1:E:74:GLN:OE1	2.33	0.59
1:E:71:GLU:HG3	1:E:74:GLN:HG3	1.88	0.55
1:G:35:GLN:NE2	4:G:301:HOH:O	2.28	0.55
1:A:71:GLU:CG	1:A:74:GLN:HG3	2.37	0.54
1:E:10:GLU:HG2	1:E:13[A]:ARG:HH21	1.75	0.52
1:B:72:PRO:HB2	1:B:115:MET:HE1	1.91	0.52
1:D:17:MET:O	1:D:21:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:72:PRO:HB2	1:F:115:MET:HE1	1.95	0.49
1:A:29:GLU:HG2	1:A:102:LYS:HG2	1.96	0.47
1:G:105:GLU:O	1:G:109:GLN:HG3	2.13	0.47
1:E:35[B]:GLN:NE2	4:E:304:HOH:O	2.47	0.47
1:A:112:ASP:O	1:A:116:GLN:HG3	2.13	0.47
1:F:29:GLU:HG2	1:F:102:LYS:HG2	1.97	0.47
1:B:71:GLU:HG3	1:B:74:GLN:HG3	1.96	0.46
1:B:17:MET:O	1:B:21:GLU:HG3	2.14	0.46
1:B:72:PRO:HB3	1:B:118:LEU:HD13	1.97	0.46
1:A:71:GLU:HG2	1:A:74:GLN:CG	2.41	0.46
1:C:94:SER:HB2	4:F:358:HOH:O	2.17	0.45
1:G:40:GLN:NE2	4:G:308:HOH:O	2.44	0.45
1:E:52:LYS:HA	1:E:52:LYS:HD3	1.78	0.44
1:B:76:VAL:HG21	1:B:115:MET:HE2	2.00	0.43
1:G:29:GLU:HG2	1:G:102:LYS:HG2	1.99	0.43
1:E:111:ILE:O	1:E:115:MET:HG2	2.19	0.43
1:E:95:ARG:HG2	2:E:201[A]:A1IKJ:C25	2.49	0.42
1:E:61:LYS:NZ	1:E:65:ASP:OD2	2.48	0.42
1:D:90:ASN:HB3	1:D:94[A]:SER:OG	2.20	0.42
1:F:111:ILE:HD12	1:F:111:ILE:HA	1.89	0.42
1:C:109:GLN:NE2	4:C:312:HOH:O	2.52	0.42
1:D:30:SER:HA	1:D:103:LEU:HD11	2.02	0.42
1:A:94:SER:HB2	4:A:417:HOH:O	2.20	0.41
1:G:70:GLN:N	1:G:74:GLN:OE1	2.53	0.41
1:G:30:SER:HA	1:G:103:LEU:HD11	2.01	0.41
1:F:22:ALA:O	1:F:25[B]:ARG:HG2	2.21	0.41
1:E:29:GLU:HG2	1:E:102:LYS:HG2	2.02	0.41
1:C:52:LYS:HD3	1:C:52:LYS:HA	1.62	0.40
1:F:30:SER:HA	1:F:103:LEU:HD11	2.03	0.40
1:D:111:ILE:HD12	1:D:111:ILE:HA	1.92	0.40
1:A:71:GLU:HB2	1:A:73:TRP:CE3	2.56	0.40
1:E:10:GLU:OE1	1:E:13[B]:ARG:NH1	2.54	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	A	117/119 (98%)	116 (99%)	1 (1%)	0	100	100
1	B	116/119 (98%)	116 (100%)	0	0	100	100
1	C	116/119 (98%)	116 (100%)	0	0	100	100
1	D	118/119 (99%)	118 (100%)	0	0	100	100
1	E	116/119 (98%)	116 (100%)	0	0	100	100
1	F	116/119 (98%)	116 (100%)	0	0	100	100
1	G	110/119 (92%)	108 (98%)	1 (1%)	1 (1%)	14	4
All	All	809/833 (97%)	806 (100%)	2 (0%)	1 (0%)	48	38

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	G	9	PRO

### 5.3.2 Protein sidechains ⓘ

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	108/112 (96%)	108 (100%)	0	100	100
1	B	107/112 (96%)	107 (100%)	0	100	100
1	C	108/112 (96%)	108 (100%)	0	100	100
1	D	110/112 (98%)	110 (100%)	0	100	100
1	E	108/112 (96%)	108 (100%)	0	100	100
1	F	107/112 (96%)	106 (99%)	1 (1%)	70	60
1	G	96/112 (86%)	96 (100%)	0	100	100
All	All	744/784 (95%)	743 (100%)	1 (0%)	88	85

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

Mol	Chain	Res	Type
1	F	118	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	GLN
1	B	68	GLN
1	B	84	ASN
1	D	14	GLN
1	D	109	GLN
1	E	40	GLN
1	F	84	ASN
1	G	26	GLN
1	G	68	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 oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

22 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
2	A1IKJ	G	201[A]	-	41,43,43	2.18	10 (24%)	52,61,61	3.25	21 (40%)
3	SO4	D	202	-	4,4,4	0.68	0	6,6,6	0.07	0
3	SO4	B	202	-	4,4,4	0.68	0	6,6,6	0.13	0
3	SO4	F	202	-	4,4,4	0.68	0	6,6,6	0.09	0
2	A1IKJ	F	201	-	41,43,43	2.07	10 (24%)	52,61,61	3.12	20 (38%)
2	A1IKJ	D	201	-	41,43,43	2.10	8 (19%)	52,61,61	3.08	22 (42%)
2	A1IKJ	E	201[B]	-	41,43,43	2.16	9 (21%)	52,61,61	3.14	18 (34%)
2	A1IKJ	G	201[B]	-	41,43,43	2.23	11 (26%)	52,61,61	3.25	20 (38%)
3	SO4	D	203	-	4,4,4	0.69	0	6,6,6	0.08	0
2	A1IKJ	G	202[A]	-	41,43,43	2.12	9 (21%)	52,61,61	3.17	22 (42%)
3	SO4	B	203	-	4,4,4	0.69	0	6,6,6	0.07	0
3	SO4	E	202	-	4,4,4	0.69	0	6,6,6	0.09	0
2	A1IKJ	B	201[A]	-	41,43,43	2.22	11 (26%)	52,61,61	3.23	20 (38%)
3	SO4	A	204	-	4,4,4	0.69	0	6,6,6	0.11	0
3	SO4	G	203	-	4,4,4	0.68	0	6,6,6	0.06	0
3	SO4	C	201	-	4,4,4	0.68	0	6,6,6	0.09	0
3	SO4	A	202	-	4,4,4	0.68	0	6,6,6	0.11	0
2	A1IKJ	A	201	-	41,43,43	2.06	9 (21%)	52,61,61	3.09	20 (38%)
2	A1IKJ	G	202[B]	-	41,43,43	2.21	10 (24%)	52,61,61	3.22	23 (44%)
2	A1IKJ	B	201[B]	-	41,43,43	2.21	10 (24%)	52,61,61	3.21	19 (36%)
3	SO4	A	203	-	4,4,4	0.69	0	6,6,6	0.08	0
2	A1IKJ	E	201[A]	-	41,43,43	2.09	8 (19%)	52,61,61	3.13	20 (38%)

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. '1' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	A1IKJ	F	201	-	2/2/6/10	7/21/53/53	0/5/6/6
2	A1IKJ	A	201	-	1/1/6/10	7/21/53/53	0/5/6/6
2	A1IKJ	D	201	-	1/1/6/10	7/21/53/53	0/5/6/6
2	A1IKJ	G	201[A]	-	1/1/6/10	8/21/53/53	0/5/6/6
2	A1IKJ	G	202[A]	-	1/1/6/10	7/21/53/53	0/5/6/6
2	A1IKJ	E	201[B]	-	2/2/6/10	5/21/53/53	0/5/6/6
2	A1IKJ	B	201[A]	-	2/2/6/10	4/21/53/53	0/5/6/6
2	A1IKJ	G	201[B]	-	2/2/6/10	6/21/53/53	0/5/6/6
2	A1IKJ	G	202[B]	-	1/1/6/10	6/21/53/53	0/5/6/6

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	A1IKJ	B	201[B]	-	2/2/6/10	5/21/53/53	0/5/6/6
2	A1IKJ	E	201[A]	-	1/1/6/10	7/21/53/53	0/5/6/6

All (105) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	202[B]	A1IKJ	C14-N16	7.06	1.49	1.34
2	B	201[B]	A1IKJ	C14-N16	7.02	1.49	1.34
2	B	201[A]	A1IKJ	C14-N16	6.99	1.49	1.34
2	D	201	A1IKJ	C14-N16	6.82	1.49	1.34
2	G	201[B]	A1IKJ	C14-N16	6.80	1.49	1.34
2	G	201[A]	A1IKJ	C14-N16	6.78	1.49	1.34
2	E	201[B]	A1IKJ	C14-N16	6.78	1.49	1.34
2	E	201[A]	A1IKJ	C14-N16	6.64	1.48	1.34
2	F	201	A1IKJ	C14-N16	6.61	1.48	1.34
2	A	201	A1IKJ	C14-N16	6.55	1.48	1.34
2	G	202[A]	A1IKJ	C14-N16	6.48	1.48	1.34
2	B	201[B]	A1IKJ	C21-N16	6.24	1.53	1.46
2	B	201[A]	A1IKJ	C21-N16	6.19	1.53	1.46
2	G	201[A]	A1IKJ	C21-N16	6.10	1.53	1.46
2	A	201	A1IKJ	C21-N16	6.06	1.53	1.46
2	G	202[B]	A1IKJ	C21-N16	5.95	1.53	1.46
2	D	201	A1IKJ	C21-N16	5.95	1.53	1.46
2	G	201[B]	A1IKJ	C21-N16	5.91	1.53	1.46
2	E	201[B]	A1IKJ	C21-N16	5.76	1.53	1.46
2	G	202[A]	A1IKJ	C21-N16	5.60	1.53	1.46
2	E	201[A]	A1IKJ	C21-N16	5.41	1.53	1.46
2	F	201	A1IKJ	C21-N16	5.12	1.52	1.46
2	G	202[A]	A1IKJ	C02-N01	4.91	1.41	1.35
2	G	201[B]	A1IKJ	C02-N01	4.84	1.40	1.35
2	E	201[A]	A1IKJ	C02-N01	4.70	1.40	1.35
2	G	201[A]	A1IKJ	C02-N01	4.68	1.40	1.35
2	B	201[A]	A1IKJ	C02-N01	4.52	1.40	1.35
2	B	201[B]	A1IKJ	C02-N01	4.47	1.40	1.35
2	E	201[B]	A1IKJ	C02-N01	4.37	1.40	1.35
2	G	202[B]	A1IKJ	C02-N01	4.20	1.40	1.35
2	D	201	A1IKJ	C02-N01	3.82	1.39	1.35
2	B	201[A]	A1IKJ	C10-C38	3.71	1.53	1.47
2	F	201	A1IKJ	C02-N01	3.70	1.39	1.35
2	F	201	A1IKJ	C10-C38	3.66	1.53	1.47
2	G	201[B]	A1IKJ	C10-C38	3.66	1.53	1.47
2	B	201[B]	A1IKJ	C10-C38	3.58	1.53	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	201[B]	A1IKJ	C10-C38	3.58	1.53	1.47
2	G	202[A]	A1IKJ	C10-C38	3.55	1.53	1.47
2	G	202[B]	A1IKJ	C10-C38	3.46	1.52	1.47
2	G	202[B]	A1IKJ	C29-C28	3.39	1.45	1.39
2	D	201	A1IKJ	C10-C38	3.34	1.52	1.47
2	A	201	A1IKJ	C10-C38	3.33	1.52	1.47
2	E	201[A]	A1IKJ	C10-C38	3.23	1.52	1.47
2	A	201	A1IKJ	C29-C28	3.21	1.44	1.39
2	G	202[A]	A1IKJ	C29-C28	3.21	1.44	1.39
2	G	201[B]	A1IKJ	C13-C09	3.18	1.44	1.39
2	F	201	A1IKJ	C29-C28	3.17	1.44	1.39
2	G	202[B]	A1IKJ	C13-C09	3.16	1.44	1.39
2	B	201[B]	A1IKJ	C29-C28	3.13	1.44	1.39
2	G	201[A]	A1IKJ	C29-C28	3.11	1.44	1.39
2	G	202[A]	A1IKJ	C13-C09	3.09	1.44	1.39
2	G	201[A]	A1IKJ	C13-C09	3.09	1.44	1.39
2	E	201[A]	A1IKJ	C29-C28	3.07	1.44	1.39
2	A	201	A1IKJ	C02-N01	3.06	1.39	1.35
2	E	201[A]	A1IKJ	C13-C09	3.02	1.44	1.39
2	B	201[A]	A1IKJ	C29-C28	3.01	1.44	1.39
2	E	201[B]	A1IKJ	C13-C09	2.99	1.44	1.39
2	G	201[B]	A1IKJ	C29-C28	2.98	1.44	1.39
2	D	201	A1IKJ	C29-C28	2.97	1.44	1.39
2	G	201[A]	A1IKJ	C10-C38	2.94	1.52	1.47
2	G	202[B]	A1IKJ	C12-C14	2.93	1.55	1.50
2	B	201[B]	A1IKJ	C13-C09	2.91	1.44	1.39
2	B	201[A]	A1IKJ	C13-C09	2.90	1.44	1.39
2	G	201[B]	A1IKJ	C12-C14	2.86	1.54	1.50
2	E	201[B]	A1IKJ	C29-C28	2.84	1.44	1.39
2	D	201	A1IKJ	C13-C09	2.77	1.43	1.39
2	G	201[A]	A1IKJ	C12-C14	2.76	1.54	1.50
2	A	201	A1IKJ	C13-C09	2.75	1.43	1.39
2	E	201[B]	A1IKJ	C12-C14	2.67	1.54	1.50
2	E	201[A]	A1IKJ	C12-C14	2.65	1.54	1.50
2	F	201	A1IKJ	C13-C09	2.62	1.43	1.39
2	E	201[B]	A1IKJ	C31-N30	2.55	1.51	1.46
2	D	201	A1IKJ	C28-C27	2.54	1.44	1.40
2	G	202[A]	A1IKJ	C12-C14	2.54	1.54	1.50
2	F	201	A1IKJ	C31-N30	2.49	1.51	1.46
2	B	201[A]	A1IKJ	C12-C14	2.49	1.54	1.50
2	B	201[A]	A1IKJ	C21-C20	2.48	1.60	1.51
2	G	201[A]	A1IKJ	C28-C27	2.47	1.43	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	201[B]	A1IKJ	C21-C20	2.47	1.60	1.51
2	G	202[B]	A1IKJ	C28-C27	2.46	1.43	1.40
2	E	201[A]	A1IKJ	C28-C27	2.38	1.43	1.40
2	B	201[B]	A1IKJ	C31-N30	2.37	1.50	1.46
2	B	201[A]	A1IKJ	C31-N30	2.35	1.50	1.46
2	G	201[B]	A1IKJ	C31-N30	2.32	1.50	1.46
2	F	201	A1IKJ	C12-C14	2.31	1.53	1.50
2	G	201[A]	A1IKJ	C21-C20	2.30	1.59	1.51
2	G	201[B]	A1IKJ	C21-C20	2.26	1.59	1.51
2	B	201[B]	A1IKJ	C12-C14	2.26	1.53	1.50
2	G	202[A]	A1IKJ	C21-C20	2.20	1.59	1.51
2	F	201	A1IKJ	C28-C27	2.17	1.43	1.40
2	G	202[B]	A1IKJ	C21-C20	2.16	1.58	1.51
2	G	202[B]	A1IKJ	C29-C24	2.13	1.42	1.39
2	E	201[B]	A1IKJ	C21-C20	2.13	1.58	1.51
2	G	201[A]	A1IKJ	C22-C20	2.13	1.57	1.50
2	F	201	A1IKJ	C21-C20	2.12	1.58	1.51
2	G	201[B]	A1IKJ	C22-C20	2.11	1.57	1.50
2	G	202[A]	A1IKJ	C28-C27	2.11	1.43	1.40
2	B	201[B]	A1IKJ	C22-C20	2.10	1.57	1.50
2	B	201[A]	A1IKJ	C28-C27	2.10	1.43	1.40
2	A	201	A1IKJ	C31-N30	2.09	1.50	1.46
2	G	201[B]	A1IKJ	C28-C27	2.09	1.43	1.40
2	A	201	A1IKJ	C28-C27	2.05	1.43	1.40
2	A	201	A1IKJ	C21-C20	2.02	1.58	1.51
2	B	201[A]	A1IKJ	C22-C20	2.01	1.57	1.50
2	D	201	A1IKJ	C21-C20	2.00	1.58	1.51

All (225) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	201[B]	A1IKJ	C04-C02-N01	17.39	128.40	116.63
2	B	201[A]	A1IKJ	C04-C02-N01	17.23	128.29	116.63
2	G	201[A]	A1IKJ	C04-C02-N01	17.19	128.26	116.63
2	B	201[B]	A1IKJ	C04-C02-N01	17.17	128.24	116.63
2	G	202[A]	A1IKJ	C04-C02-N01	16.84	128.03	116.63
2	G	202[B]	A1IKJ	C04-C02-N01	16.78	127.98	116.63
2	F	201	A1IKJ	C04-C02-N01	16.73	127.95	116.63
2	E	201[B]	A1IKJ	C04-C02-N01	16.68	127.92	116.63
2	E	201[A]	A1IKJ	C04-C02-N01	16.60	127.86	116.63
2	A	201	A1IKJ	C04-C02-N01	16.30	127.66	116.63
2	D	201	A1IKJ	C04-C02-N01	16.20	127.59	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	201[B]	A1IKJ	O03-C02-N01	-5.72	115.52	121.10
2	B	201[A]	A1IKJ	O03-C02-N01	-5.68	115.55	121.10
2	A	201	A1IKJ	O03-C02-N01	-5.59	115.64	121.10
2	G	201[B]	A1IKJ	O03-C02-N01	-5.56	115.67	121.10
2	F	201	A1IKJ	O03-C02-N01	-5.55	115.68	121.10
2	G	201[A]	A1IKJ	O03-C02-N01	-5.52	115.71	121.10
2	G	202[B]	A1IKJ	O03-C02-N01	-5.45	115.78	121.10
2	E	201[B]	A1IKJ	O03-C02-N01	-5.32	115.91	121.10
2	G	202[A]	A1IKJ	O03-C02-N01	-5.27	115.95	121.10
2	D	201	A1IKJ	O03-C02-N01	-5.25	115.98	121.10
2	E	201[A]	A1IKJ	O03-C02-N01	-5.19	116.03	121.10
2	G	202[B]	A1IKJ	C13-C12-C11	-4.94	113.87	119.65
2	G	201[B]	A1IKJ	C13-C12-C11	-4.89	113.93	119.65
2	G	201[A]	A1IKJ	C13-C12-C11	-4.86	113.96	119.65
2	B	201[A]	A1IKJ	C12-C14-N16	4.82	124.68	118.66
2	B	201[A]	A1IKJ	C13-C12-C11	-4.78	114.05	119.65
2	E	201[B]	A1IKJ	C13-C12-C11	-4.78	114.06	119.65
2	B	201[B]	A1IKJ	C13-C12-C11	-4.75	114.09	119.65
2	G	202[A]	A1IKJ	C13-C12-C11	-4.74	114.10	119.65
2	F	201	A1IKJ	C13-C12-C11	-4.72	114.12	119.65
2	G	201[B]	A1IKJ	C12-C14-N16	4.71	124.55	118.66
2	G	201[A]	A1IKJ	C12-C14-N16	4.70	124.53	118.66
2	E	201[A]	A1IKJ	C13-C12-C11	-4.69	114.16	119.65
2	A	201	A1IKJ	C13-C12-C11	-4.61	114.25	119.65
2	D	201	A1IKJ	C13-C12-C11	-4.59	114.28	119.65
2	A	201	A1IKJ	C12-C14-N16	4.56	124.35	118.66
2	B	201[B]	A1IKJ	C12-C14-N16	4.54	124.33	118.66
2	G	201[A]	A1IKJ	O15-C14-N16	-4.52	115.23	122.35
2	E	201[B]	A1IKJ	C12-C14-N16	4.51	124.29	118.66
2	G	201[B]	A1IKJ	O15-C14-N16	-4.49	115.27	122.35
2	D	201	A1IKJ	C34-N30-C31	-4.48	107.11	116.92
2	E	201[B]	A1IKJ	O15-C14-N16	-4.42	115.39	122.35
2	B	201[A]	A1IKJ	O15-C14-N16	-4.41	115.40	122.35
2	G	202[A]	A1IKJ	O15-C14-N16	-4.32	115.55	122.35
2	E	201[A]	A1IKJ	O15-C14-N16	-4.26	115.64	122.35
2	B	201[B]	A1IKJ	O15-C14-N16	-4.25	115.66	122.35
2	G	202[B]	A1IKJ	O15-C14-N16	-4.24	115.67	122.35
2	A	201	A1IKJ	O15-C14-N16	-4.17	115.78	122.35
2	G	202[A]	A1IKJ	C12-C14-N16	4.17	123.87	118.66
2	G	202[B]	A1IKJ	C12-C14-N16	4.08	123.76	118.66
2	E	201[A]	A1IKJ	C12-C14-N16	4.03	123.70	118.66
2	G	202[B]	A1IKJ	C36-C37-C38	4.01	134.38	125.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	201	A1IKJ	O15-C14-N16	-4.00	116.05	122.35
2	D	201	A1IKJ	O15-C14-N16	-3.98	116.07	122.35
2	E	201[A]	A1IKJ	C34-N30-C31	-3.93	108.30	116.92
2	F	201	A1IKJ	C12-C14-N16	3.79	123.40	118.66
2	G	202[B]	A1IKJ	C27-C28-N30	-3.74	118.72	121.60
2	D	201	A1IKJ	C12-C14-N16	3.59	123.14	118.66
2	G	201[A]	A1IKJ	C34-N30-C31	-3.48	109.29	116.92
2	G	202[A]	A1IKJ	C34-N30-C31	-3.47	109.31	116.92
2	G	202[A]	A1IKJ	C27-C28-N30	-3.45	118.95	121.60
2	G	201[A]	A1IKJ	C10-C38-C37	3.42	132.76	125.55
2	G	202[A]	A1IKJ	C10-C38-C37	3.31	132.54	125.55
2	G	201[B]	A1IKJ	O03-C02-C04	-3.29	115.93	121.05
2	F	201	A1IKJ	C08-C09-N01	-3.28	117.53	122.90
2	F	201	A1IKJ	C36-C37-C38	3.28	132.76	125.48
2	G	201[B]	A1IKJ	C08-C09-N01	-3.26	117.56	122.90
2	G	201[A]	A1IKJ	C08-C09-N01	-3.26	117.56	122.90
2	E	201[A]	A1IKJ	C27-C28-N30	-3.24	119.11	121.60
2	G	202[A]	A1IKJ	O03-C02-C04	-3.23	116.02	121.05
2	B	201[B]	A1IKJ	C08-C09-N01	-3.23	117.61	122.90
2	G	201[A]	A1IKJ	O03-C02-C04	-3.23	116.03	121.05
2	B	201[A]	A1IKJ	C08-C09-N01	-3.23	117.62	122.90
2	E	201[B]	A1IKJ	C10-C38-C37	3.22	132.35	125.55
2	A	201	A1IKJ	C08-C09-N01	-3.22	117.63	122.90
2	E	201[A]	A1IKJ	C10-C38-C37	3.21	132.33	125.55
2	G	202[B]	A1IKJ	C08-C09-N01	-3.21	117.65	122.90
2	E	201[A]	A1IKJ	O03-C02-C04	-3.18	116.11	121.05
2	B	201[A]	A1IKJ	C36-C37-C38	3.18	132.53	125.48
2	A	201	A1IKJ	C36-C37-C38	3.17	132.51	125.48
2	D	201	A1IKJ	C28-C29-C24	3.15	124.45	118.02
2	B	201[A]	A1IKJ	O03-C02-C04	-3.14	116.16	121.05
2	E	201[B]	A1IKJ	C08-C09-N01	-3.14	117.77	122.90
2	E	201[B]	A1IKJ	O03-C02-C04	-3.14	116.17	121.05
2	E	201[A]	A1IKJ	C08-C09-N01	-3.12	117.79	122.90
2	G	201[B]	A1IKJ	C28-C29-C24	3.12	124.40	118.02
2	G	201[B]	A1IKJ	C36-C37-C38	3.12	132.40	125.48
2	B	201[B]	A1IKJ	O03-C02-C04	-3.09	116.24	121.05
2	B	201[A]	A1IKJ	C28-C29-C24	3.09	124.34	118.02
2	G	202[B]	A1IKJ	O03-C02-C04	-3.09	116.24	121.05
2	G	201[A]	A1IKJ	C28-C29-C24	3.09	124.33	118.02
2	B	201[B]	A1IKJ	C28-C29-C24	3.08	124.32	118.02
2	A	201	A1IKJ	C28-C29-C24	3.08	124.32	118.02
2	F	201	A1IKJ	C28-C29-C24	3.07	124.30	118.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	201	A1IKJ	C08-C09-N01	-3.07	117.88	122.90
2	E	201[B]	A1IKJ	C28-C29-C24	3.06	124.27	118.02
2	B	201[A]	A1IKJ	C22-O23-C24	3.06	124.58	117.85
2	G	201[B]	A1IKJ	O23-C22-C20	3.04	114.79	107.79
2	G	201[A]	A1IKJ	O23-C22-C20	3.04	114.79	107.79
2	G	202[A]	A1IKJ	C08-C09-N01	-3.03	117.95	122.90
2	B	201[B]	A1IKJ	C10-C38-C37	3.02	131.93	125.55
2	B	201[A]	A1IKJ	C10-C38-C37	3.02	131.92	125.55
2	B	201[B]	A1IKJ	C22-O23-C24	3.02	124.50	117.85
2	G	201[B]	A1IKJ	C10-C38-C37	3.01	131.90	125.55
2	F	201	A1IKJ	O03-C02-C04	-3.01	116.37	121.05
2	B	201[B]	A1IKJ	C36-C37-C38	2.98	132.09	125.48
2	G	202[B]	A1IKJ	C28-C29-C24	2.98	124.10	118.02
2	B	201[B]	A1IKJ	O23-C22-C20	2.97	114.64	107.79
2	D	201	A1IKJ	O03-C02-C04	-2.97	116.43	121.05
2	D	201	A1IKJ	C22-O23-C24	2.94	124.33	117.85
2	G	201[B]	A1IKJ	C22-O23-C24	2.94	124.32	117.85
2	E	201[A]	A1IKJ	C28-C29-C24	2.91	123.97	118.02
2	F	201	A1IKJ	C22-O23-C24	2.91	124.26	117.85
2	G	201[A]	A1IKJ	C27-C28-N30	-2.90	119.37	121.60
2	G	202[B]	A1IKJ	C13-C12-C14	2.89	126.55	120.13
2	G	202[A]	A1IKJ	C28-C29-C24	2.88	123.91	118.02
2	D	201	A1IKJ	C27-C28-N30	-2.88	119.39	121.60
2	E	201[B]	A1IKJ	C36-C37-C38	2.87	131.85	125.48
2	G	202[B]	A1IKJ	C29-C28-N30	2.87	124.55	119.01
2	G	202[B]	A1IKJ	C22-O23-C24	2.87	124.16	117.85
2	E	201[B]	A1IKJ	O23-C22-C20	2.86	114.38	107.79
2	B	201[A]	A1IKJ	O23-C22-C20	2.85	114.36	107.79
2	G	202[A]	A1IKJ	C13-C12-C14	2.83	126.41	120.13
2	E	201[B]	A1IKJ	C22-O23-C24	2.82	124.06	117.85
2	A	201	A1IKJ	C22-O23-C24	2.81	124.04	117.85
2	F	201	A1IKJ	C10-C38-C37	2.80	131.47	125.55
2	G	202[B]	A1IKJ	C10-C11-C12	2.80	125.74	121.32
2	G	201[A]	A1IKJ	C22-O23-C24	2.80	124.02	117.85
2	A	201	A1IKJ	O03-C02-C04	-2.80	116.70	121.05
2	G	201[B]	A1IKJ	C13-C12-C14	2.79	126.33	120.13
2	G	201[A]	A1IKJ	C13-C12-C14	2.78	126.32	120.13
2	A	201	A1IKJ	C10-C38-C37	2.77	131.39	125.55
2	E	201[A]	A1IKJ	C22-O23-C24	2.76	123.94	117.85
2	G	201[A]	A1IKJ	C13-C09-N01	2.75	122.22	117.16
2	G	202[A]	A1IKJ	O23-C22-C20	2.74	114.10	107.79
2	A	201	A1IKJ	O23-C22-C20	2.71	114.04	107.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	201	A1IKJ	C27-C28-N30	-2.71	119.52	121.60
2	G	201[B]	A1IKJ	C10-C11-C12	2.71	125.59	121.32
2	E	201[A]	A1IKJ	C13-C12-C14	2.70	126.13	120.13
2	E	201[B]	A1IKJ	C13-C12-C14	2.67	126.08	120.13
2	F	201	A1IKJ	C13-C09-N01	2.67	122.07	117.16
2	G	201[B]	A1IKJ	C13-C09-N01	2.66	122.06	117.16
2	A	201	A1IKJ	C10-C11-C12	2.66	125.52	121.32
2	B	201[B]	A1IKJ	C13-C12-C14	2.66	126.05	120.13
2	B	201[B]	A1IKJ	C10-C11-C12	2.66	125.51	121.32
2	E	201[B]	A1IKJ	C10-C11-C12	2.65	125.50	121.32
2	A	201	A1IKJ	C13-C09-N01	2.65	122.04	117.16
2	B	201[A]	A1IKJ	C13-C09-N01	2.65	122.03	117.16
2	A	201	A1IKJ	C13-C12-C14	2.64	126.01	120.13
2	G	202[A]	A1IKJ	C22-O23-C24	2.63	123.65	117.85
2	B	201[B]	A1IKJ	C13-C09-N01	2.63	121.99	117.16
2	G	202[A]	A1IKJ	C10-C11-C12	2.62	125.46	121.32
2	E	201[A]	A1IKJ	O23-C22-C20	2.61	113.81	107.79
2	D	201	A1IKJ	C10-C38-C37	2.61	131.06	125.55
2	E	201[B]	A1IKJ	C13-C09-N01	2.61	121.96	117.16
2	G	202[B]	A1IKJ	C13-C09-N01	2.60	121.95	117.16
2	D	201	A1IKJ	C13-C12-C14	2.60	125.91	120.13
2	E	201[A]	A1IKJ	C13-C09-N01	2.60	121.94	117.16
2	B	201[A]	A1IKJ	C13-C12-C14	2.59	125.89	120.13
2	B	201[A]	A1IKJ	C10-C11-C12	2.59	125.41	121.32
2	F	201	A1IKJ	C13-C12-C14	2.58	125.86	120.13
2	D	201	A1IKJ	O23-C22-C20	2.57	113.70	107.79
2	D	201	A1IKJ	C13-C09-N01	2.56	121.86	117.16
2	G	201[A]	A1IKJ	C10-C11-C12	2.55	125.35	121.32
2	F	201	A1IKJ	O23-C22-C20	2.53	113.62	107.79
2	G	202[A]	A1IKJ	C29-C28-N30	2.53	123.89	119.01
2	E	201[A]	A1IKJ	C10-C11-C12	2.53	125.31	121.32
2	G	202[B]	A1IKJ	O23-C22-C20	2.53	113.61	107.79
2	F	201	A1IKJ	C10-C11-C12	2.53	125.31	121.32
2	G	202[A]	A1IKJ	C13-C09-N01	2.52	121.81	117.16
2	E	201[A]	A1IKJ	C29-C28-N30	2.52	123.86	119.01
2	D	201	A1IKJ	C29-C28-N30	2.50	123.84	119.01
2	D	201	A1IKJ	C10-C11-C12	2.45	125.18	121.32
2	G	201[A]	A1IKJ	C29-C28-N30	2.43	123.70	119.01
2	G	202[B]	A1IKJ	C25-C26-C27	2.42	124.56	121.39
2	G	201[A]	A1IKJ	C25-C26-C27	2.42	124.55	121.39
2	A	201	A1IKJ	C25-C26-C27	2.41	124.55	121.39
2	B	201[B]	A1IKJ	C25-C26-C27	2.40	124.53	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	201	A1IKJ	C25-C26-C27	2.40	124.53	121.39
2	G	201[B]	A1IKJ	C27-C28-N30	-2.38	119.77	121.60
2	B	201[A]	A1IKJ	C27-C28-N30	-2.37	119.78	121.60
2	B	201[B]	A1IKJ	C25-C24-C29	-2.35	117.34	120.50
2	E	201[A]	A1IKJ	C25-C26-C27	2.35	124.46	121.39
2	A	201	A1IKJ	C25-C24-C29	-2.35	117.35	120.50
2	F	201	A1IKJ	C29-C28-N30	2.33	123.51	119.01
2	D	201	A1IKJ	C25-C26-C27	2.32	124.43	121.39
2	G	202[A]	A1IKJ	C25-C26-C27	2.32	124.43	121.39
2	G	202[B]	A1IKJ	C34-N30-C28	2.31	125.28	121.89
2	B	201[A]	A1IKJ	C25-C26-C27	2.30	124.41	121.39
2	G	201[B]	A1IKJ	C25-C24-C29	-2.30	117.41	120.50
2	D	201	A1IKJ	C36-C37-C38	2.30	130.58	125.48
2	B	201[B]	A1IKJ	C27-C28-N30	-2.29	119.84	121.60
2	E	201[B]	A1IKJ	C25-C26-C27	2.29	124.38	121.39
2	G	202[B]	A1IKJ	C29-C28-C27	-2.27	116.72	120.00
2	E	201[A]	A1IKJ	O19-C18-C17	2.27	113.71	110.73
2	F	201	A1IKJ	C25-C24-C29	-2.27	117.46	120.50
2	G	201[B]	A1IKJ	C25-C26-C27	2.27	124.36	121.39
2	B	201[A]	A1IKJ	C25-C24-C29	-2.26	117.47	120.50
2	G	202[B]	A1IKJ	C34-N30-C31	-2.25	111.98	116.92
2	E	201[B]	A1IKJ	C25-C24-C29	-2.25	117.47	120.50
2	D	201	A1IKJ	C29-C28-C27	-2.24	116.78	120.00
2	G	201[A]	A1IKJ	C25-C24-C29	-2.19	117.56	120.50
2	B	201[A]	A1IKJ	C29-C28-N30	2.19	123.22	119.01
2	G	201[B]	A1IKJ	C29-C28-N30	2.18	123.21	119.01
2	E	201[B]	A1IKJ	C32-C31-N30	2.16	115.14	111.06
2	G	202[B]	A1IKJ	C25-C24-C29	-2.14	117.62	120.50
2	G	201[A]	A1IKJ	C29-C28-C27	-2.14	116.92	120.00
2	A	201	A1IKJ	C27-C28-N30	-2.11	119.98	121.60
2	G	202[B]	A1IKJ	O19-C18-C17	2.10	113.50	110.73
2	F	201	A1IKJ	C29-C28-C27	-2.10	116.97	120.00
2	D	201	A1IKJ	C25-C24-C29	-2.09	117.70	120.50
2	B	201[B]	A1IKJ	C29-C28-N30	2.09	123.03	119.01
2	G	202[A]	A1IKJ	C25-C24-C29	-2.09	117.70	120.50
2	B	201[A]	A1IKJ	C29-C28-C27	-2.08	117.00	120.00
2	G	201[B]	A1IKJ	C29-C28-C27	-2.07	117.02	120.00
2	G	202[A]	A1IKJ	O19-C18-C17	2.06	113.44	110.73
2	G	202[B]	A1IKJ	C08-C10-C38	2.06	123.82	120.80
2	E	201[A]	A1IKJ	C29-C28-C27	-2.06	117.03	120.00
2	G	202[A]	A1IKJ	C36-C37-C38	2.06	130.04	125.48
2	A	201	A1IKJ	C29-C28-N30	2.04	122.94	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	201	A1IKJ	C29-C28-C27	-2.02	117.08	120.00
2	D	201	A1IKJ	C12-C13-C09	2.02	123.17	119.43
2	G	201[A]	A1IKJ	C12-C13-C09	2.01	123.16	119.43
2	G	202[A]	A1IKJ	C12-C13-C09	2.00	123.14	119.43

All (16) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	201	A1IKJ	N16
2	B	201[A]	A1IKJ	N30
2	B	201[A]	A1IKJ	N16
2	B	201[B]	A1IKJ	N30
2	B	201[B]	A1IKJ	N16
2	D	201	A1IKJ	N16
2	E	201[A]	A1IKJ	N16
2	E	201[B]	A1IKJ	N30
2	E	201[B]	A1IKJ	N16
2	F	201	A1IKJ	N30
2	F	201	A1IKJ	N16
2	G	201[A]	A1IKJ	N16
2	G	201[B]	A1IKJ	N30
2	G	201[B]	A1IKJ	N16
2	G	202[A]	A1IKJ	N16
2	G	202[B]	A1IKJ	N16

All (69) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	201	A1IKJ	C21-C20-C22-O23
2	A	201	A1IKJ	O19-C20-C22-O23
2	B	201[A]	A1IKJ	C21-C20-C22-O23
2	B	201[A]	A1IKJ	O19-C20-C22-O23
2	B	201[B]	A1IKJ	C21-C20-C22-O23
2	B	201[B]	A1IKJ	O19-C20-C22-O23
2	D	201	A1IKJ	C21-C20-C22-O23
2	D	201	A1IKJ	O19-C20-C22-O23
2	E	201[A]	A1IKJ	O19-C20-C22-O23
2	E	201[B]	A1IKJ	C21-C20-C22-O23
2	E	201[B]	A1IKJ	O19-C20-C22-O23
2	F	201	A1IKJ	C21-C20-C22-O23
2	F	201	A1IKJ	O19-C20-C22-O23
2	G	201[A]	A1IKJ	O19-C20-C22-O23

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Mol	Chain	Res	Type	Atoms
2	G	201[B]	A1IKJ	C21-C20-C22-O23
2	G	201[B]	A1IKJ	O19-C20-C22-O23
2	G	202[A]	A1IKJ	O19-C20-C22-O23
2	G	202[B]	A1IKJ	C21-C20-C22-O23
2	G	202[B]	A1IKJ	O19-C20-C22-O23
2	G	202[B]	A1IKJ	C35-C34-N30-C28
2	D	201	A1IKJ	N30-C34-C35-C36
2	E	201[A]	A1IKJ	N30-C34-C35-C36
2	G	202[A]	A1IKJ	N30-C34-C35-C36
2	G	201[A]	A1IKJ	N30-C34-C35-C36
2	G	202[A]	A1IKJ	C29-C24-O23-C22
2	G	202[A]	A1IKJ	C25-C24-O23-C22
2	G	202[B]	A1IKJ	N30-C34-C35-C36
2	E	201[A]	A1IKJ	C21-C20-C22-O23
2	G	201[A]	A1IKJ	C21-C20-C22-O23
2	G	202[A]	A1IKJ	C21-C20-C22-O23
2	B	201[B]	A1IKJ	N30-C34-C35-C36
2	B	201[A]	A1IKJ	N30-C34-C35-C36
2	G	201[B]	A1IKJ	N30-C34-C35-C36
2	E	201[A]	A1IKJ	C20-C22-O23-C24
2	E	201[A]	A1IKJ	C29-C24-O23-C22
2	G	201[A]	A1IKJ	C29-C24-O23-C22
2	D	201	A1IKJ	C34-C35-C36-C37
2	E	201[B]	A1IKJ	C20-C22-O23-C24
2	F	201	A1IKJ	C20-C22-O23-C24
2	G	201[A]	A1IKJ	C20-C22-O23-C24
2	G	201[B]	A1IKJ	C20-C22-O23-C24
2	G	202[A]	A1IKJ	C20-C22-O23-C24
2	G	202[B]	A1IKJ	C20-C22-O23-C24
2	A	201	A1IKJ	C20-C22-O23-C24
2	B	201[A]	A1IKJ	C20-C22-O23-C24
2	B	201[B]	A1IKJ	C20-C22-O23-C24
2	D	201	A1IKJ	C20-C22-O23-C24
2	F	201	A1IKJ	N30-C34-C35-C36
2	G	202[A]	A1IKJ	C35-C34-N30-C28
2	E	201[B]	A1IKJ	N30-C34-C35-C36
2	E	201[A]	A1IKJ	C25-C24-O23-C22
2	G	201[A]	A1IKJ	C25-C24-O23-C22
2	A	201	A1IKJ	N30-C34-C35-C36
2	E	201[A]	A1IKJ	C35-C34-N30-C28
2	G	201[A]	A1IKJ	C35-C34-N30-C28
2	A	201	A1IKJ	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
2	B	201[B]	A1IKJ	C34-C35-C36-C37
2	F	201	A1IKJ	C29-C24-O23-C22
2	A	201	A1IKJ	C29-C24-O23-C22
2	G	202[B]	A1IKJ	C35-C34-N30-C31
2	G	201[A]	A1IKJ	C35-C36-C37-C38
2	F	201	A1IKJ	C25-C24-O23-C22
2	D	201	A1IKJ	C29-C24-O23-C22
2	G	201[B]	A1IKJ	C29-C24-O23-C22
2	A	201	A1IKJ	C25-C24-O23-C22
2	F	201	A1IKJ	C34-C35-C36-C37
2	E	201[B]	A1IKJ	C29-C24-O23-C22
2	D	201	A1IKJ	C25-C24-O23-C22
2	G	201[B]	A1IKJ	C25-C24-O23-C22

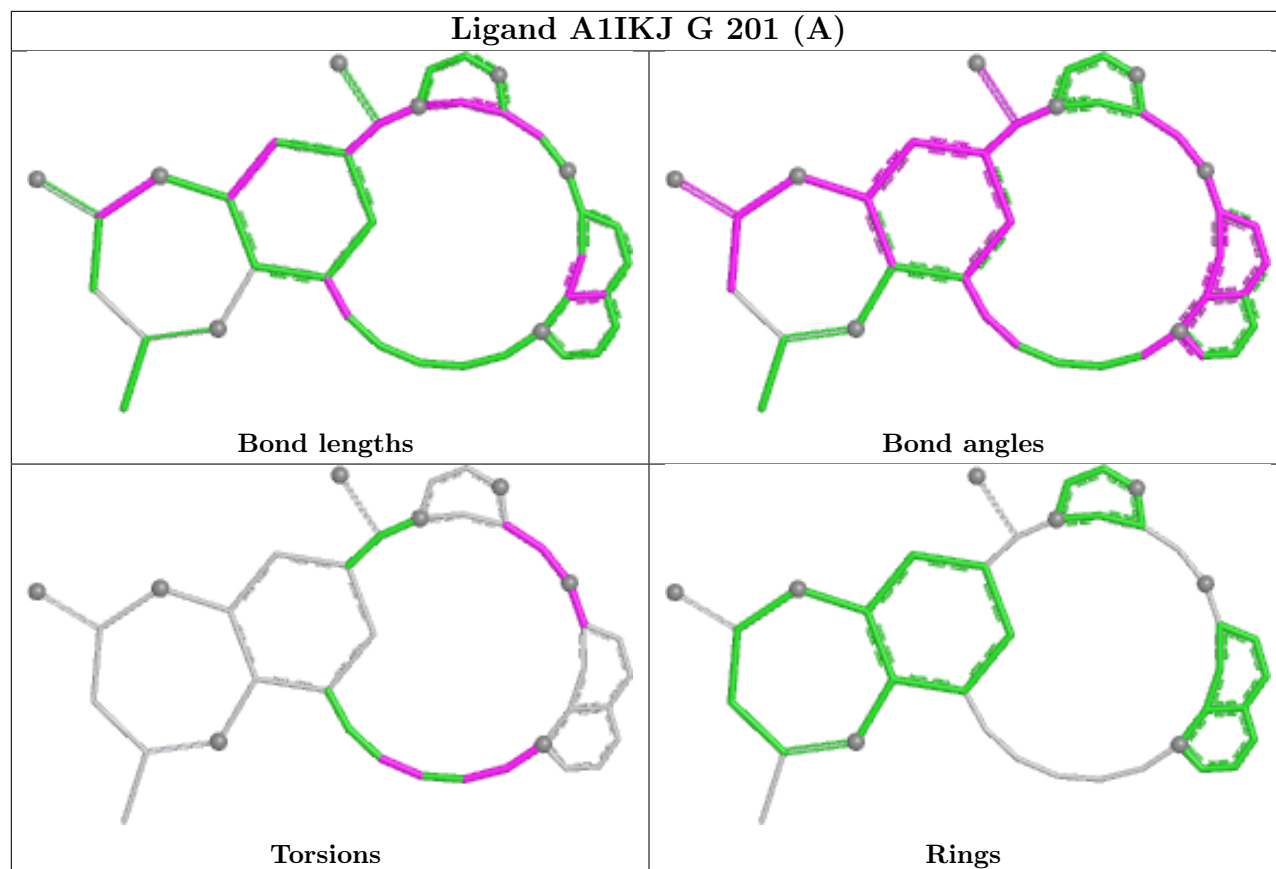
There are no ring outliers.

2 monomers are involved in 2 short contacts:

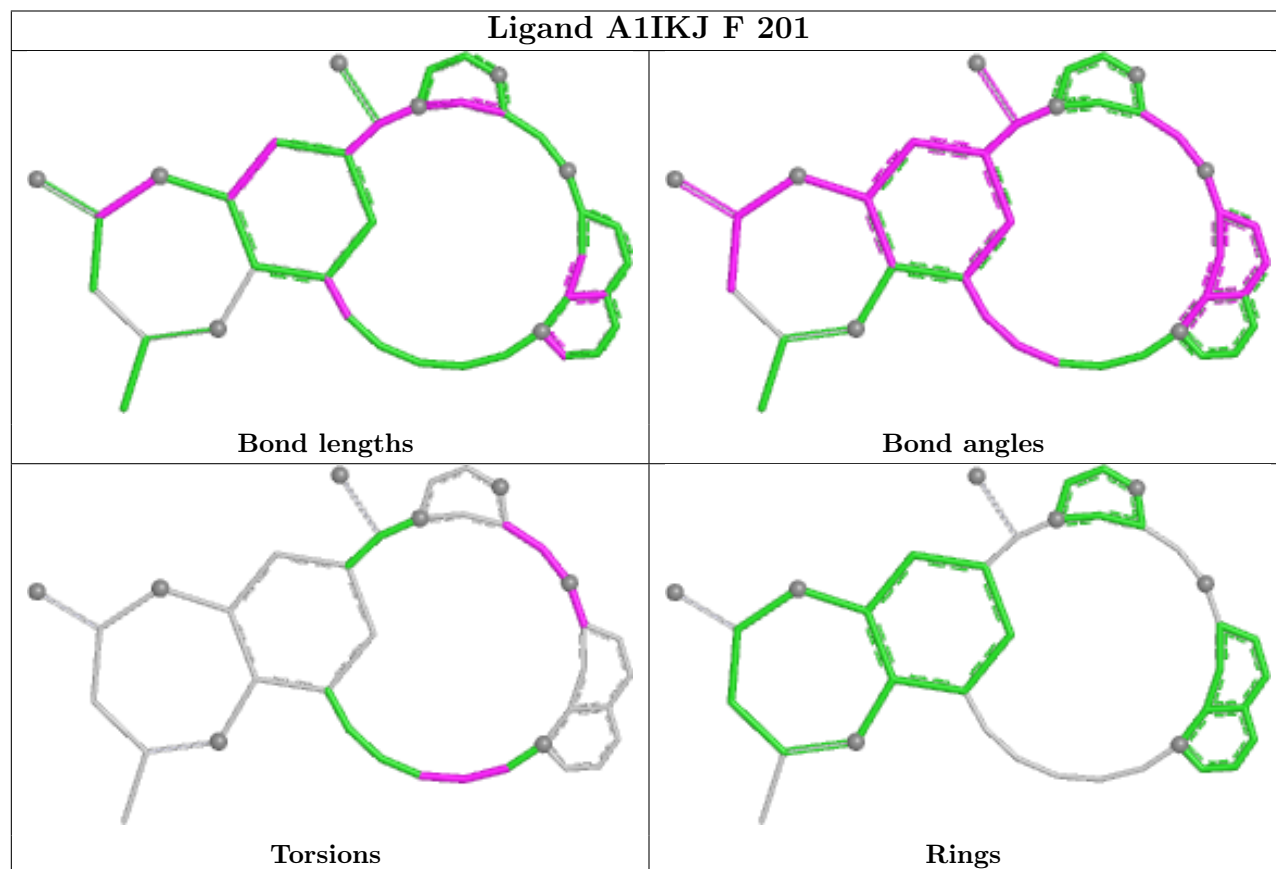
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	203	SO4	1	0
2	E	201[A]	A1IKJ	1	0

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.

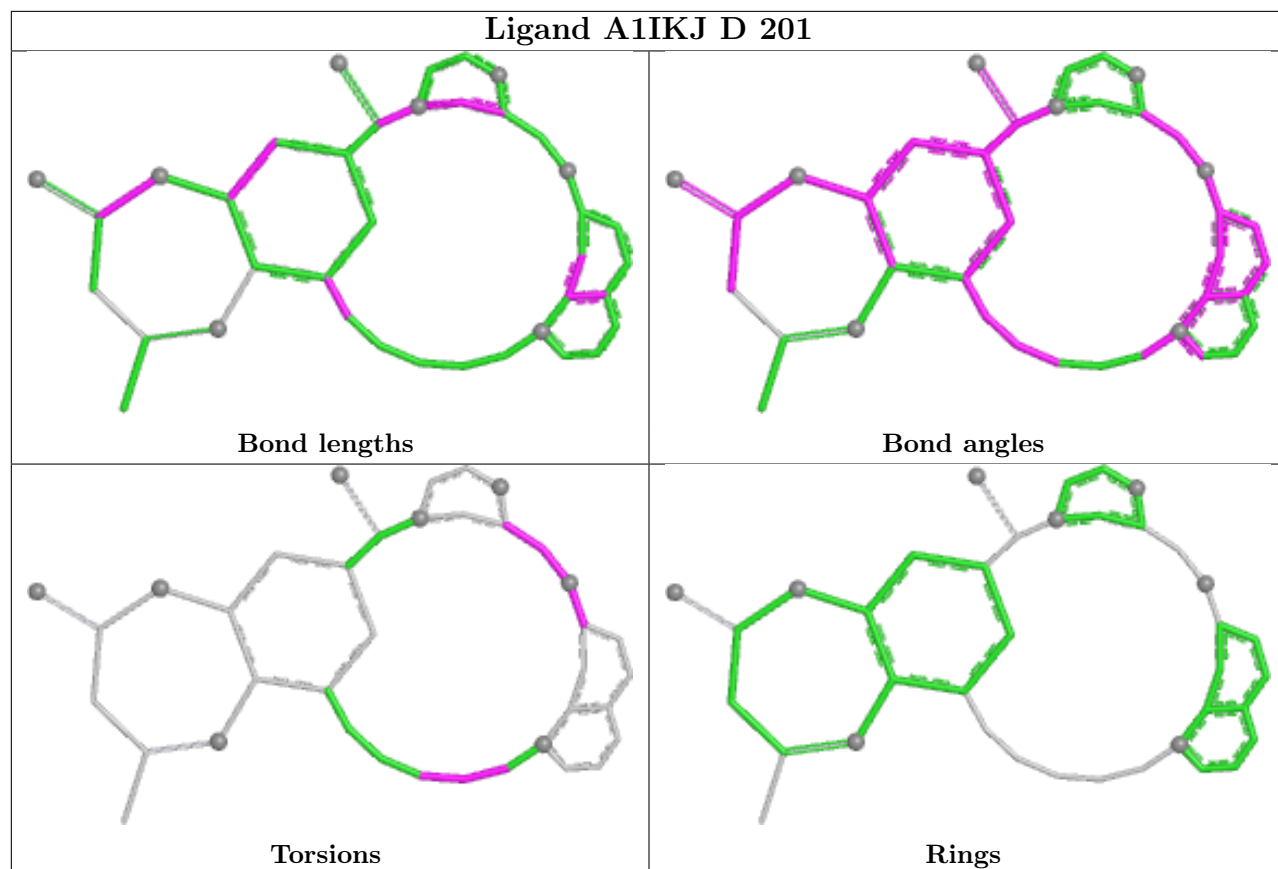
## Ligand A1IKJ G 201 (A)



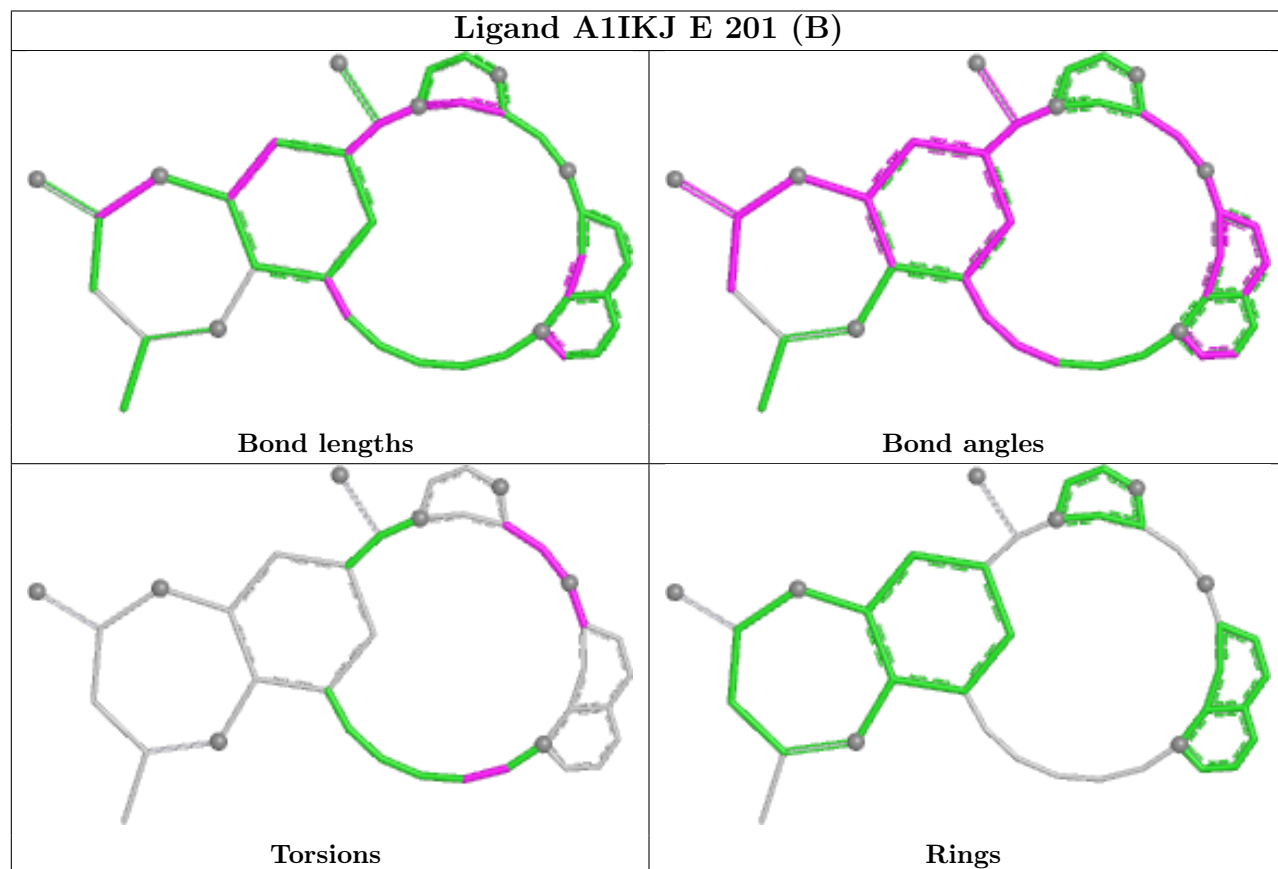
## Ligand A1IKJ F 201



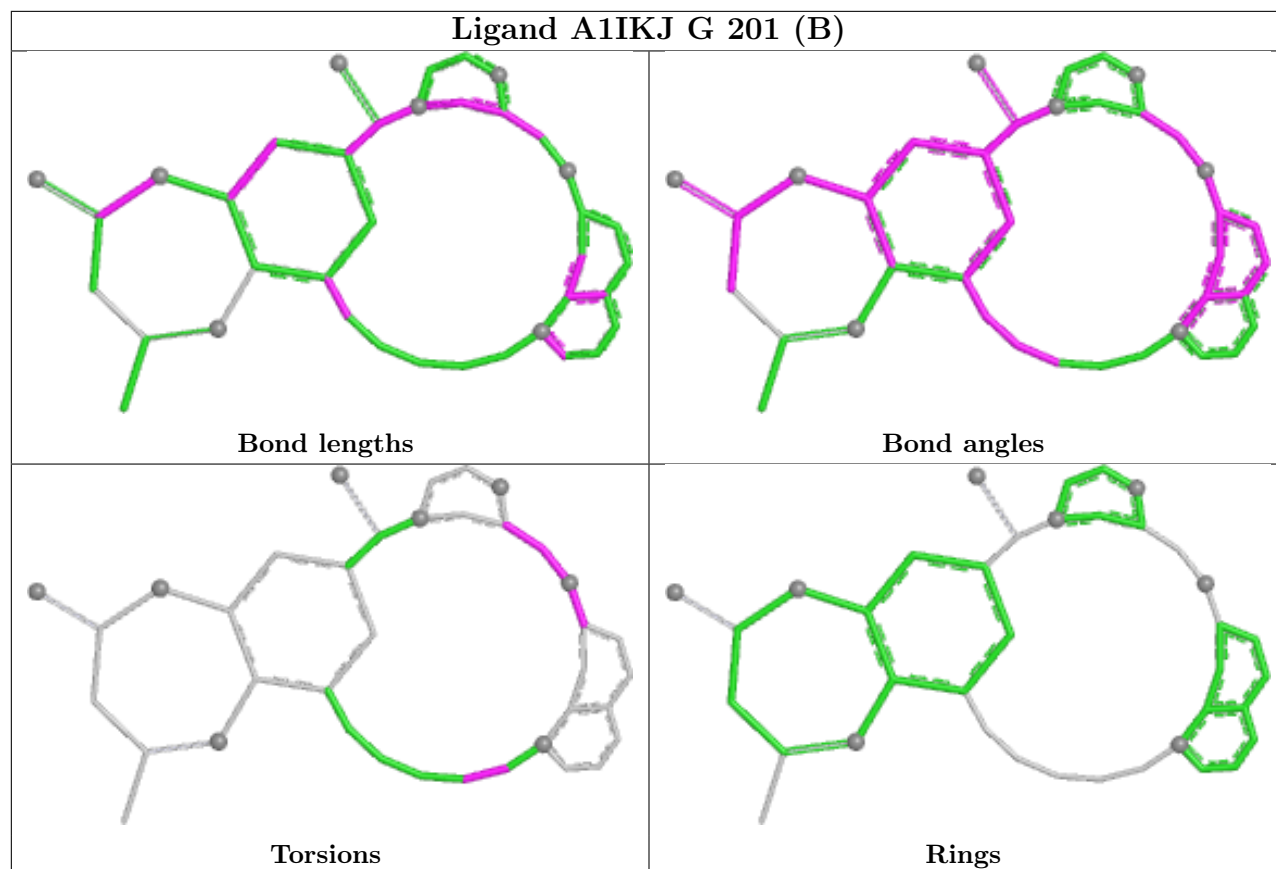
## Ligand A1IKJ D 201



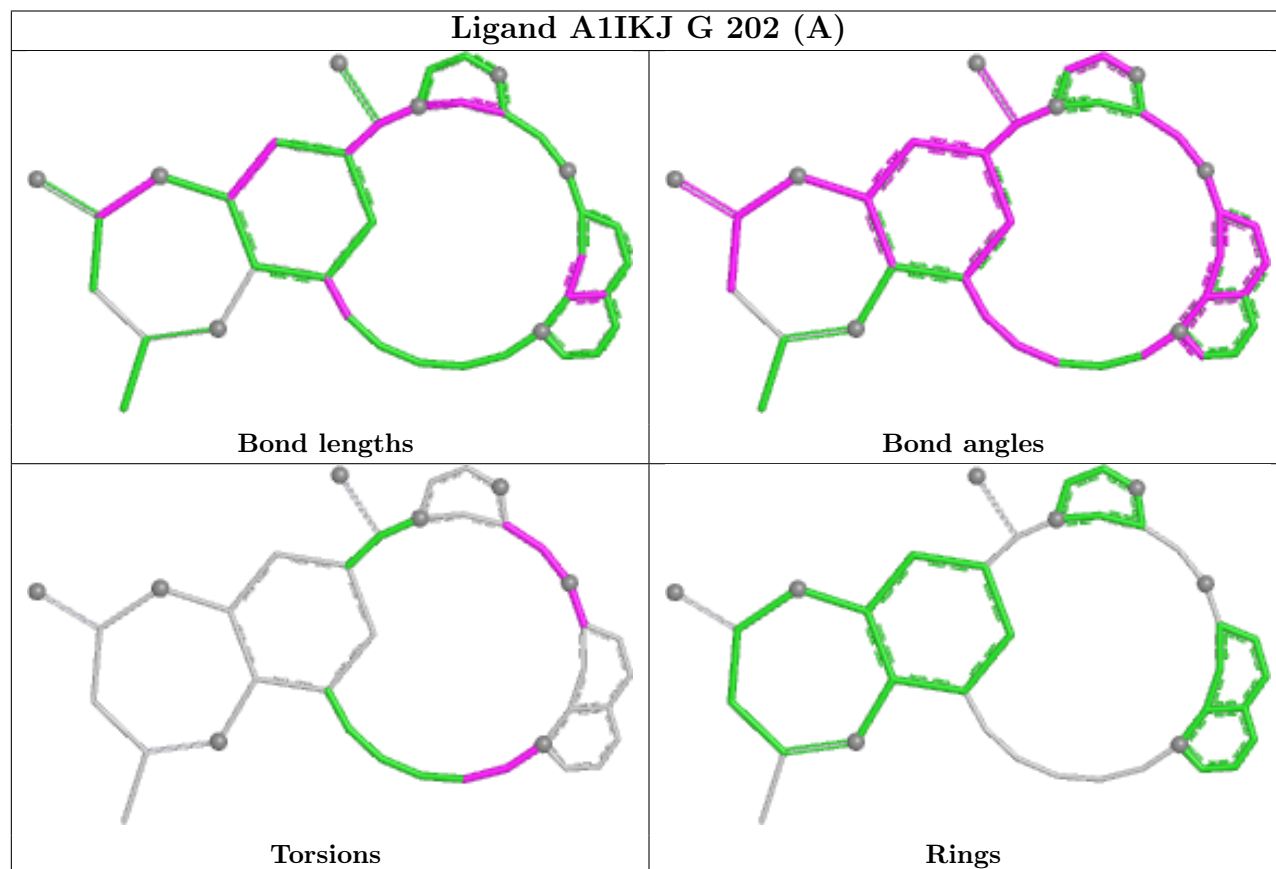
## Ligand A1IKJ E 201 (B)



## Ligand A1IKJ G 201 (B)

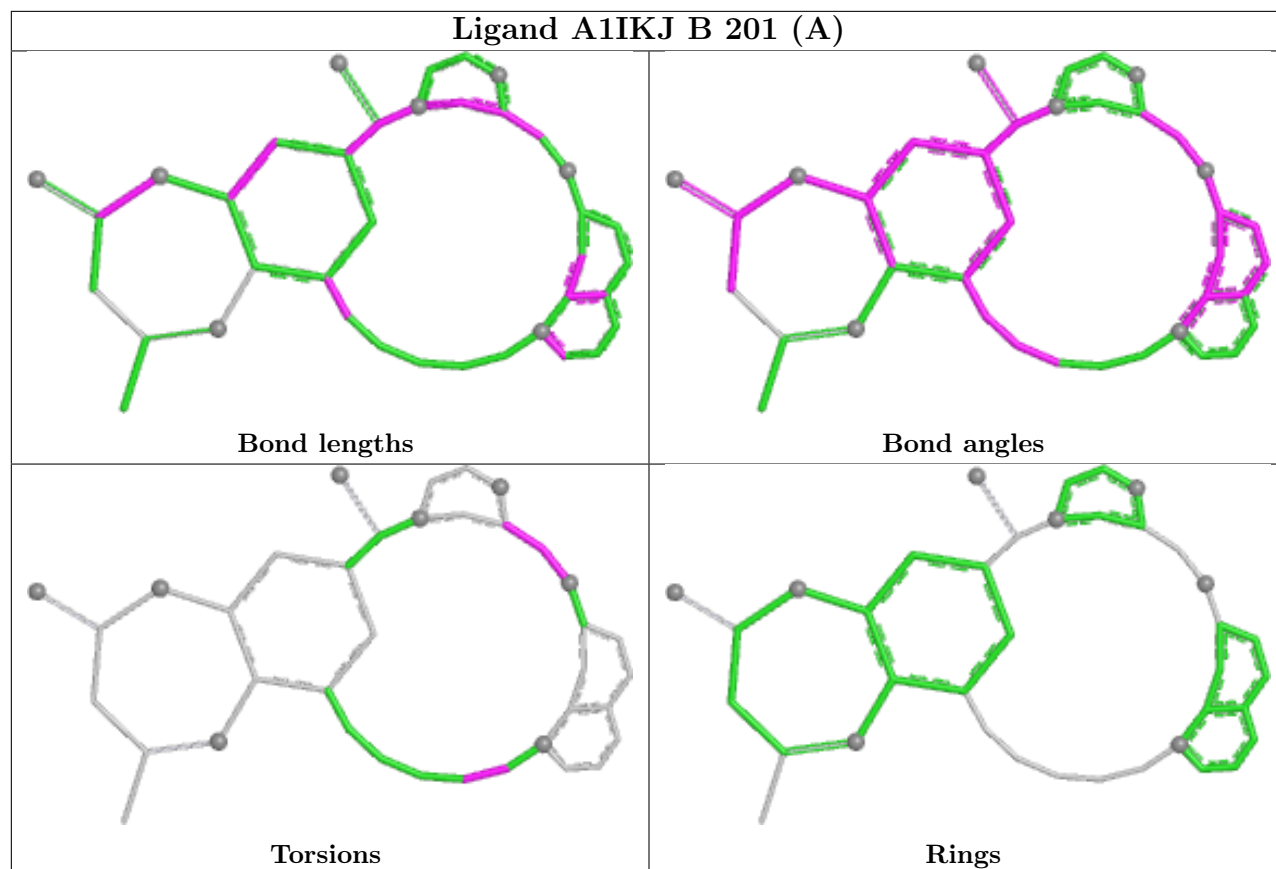


## Ligand A1IKJ G 202 (A)

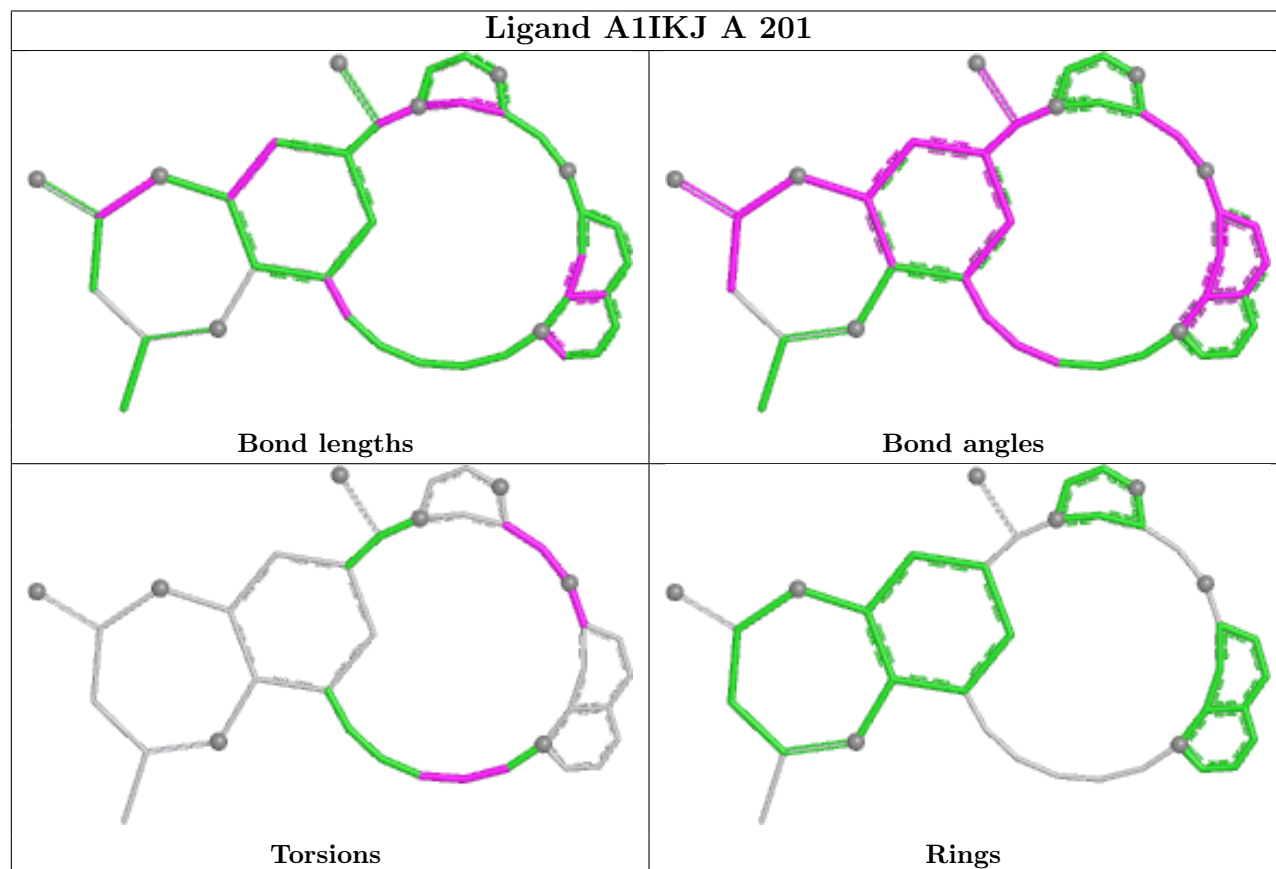




## Ligand A1IKJ B 201 (A)

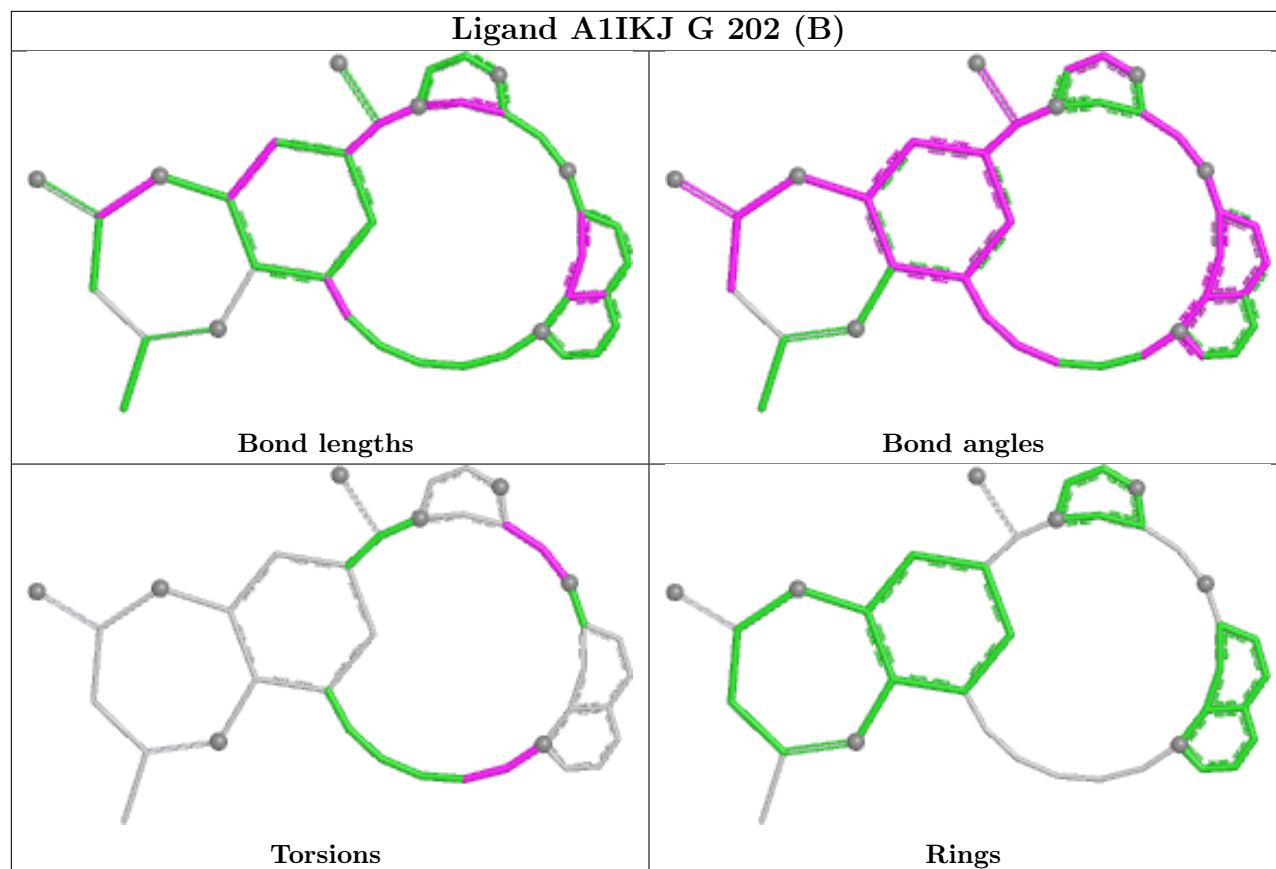


## Ligand A1IKJ A 201

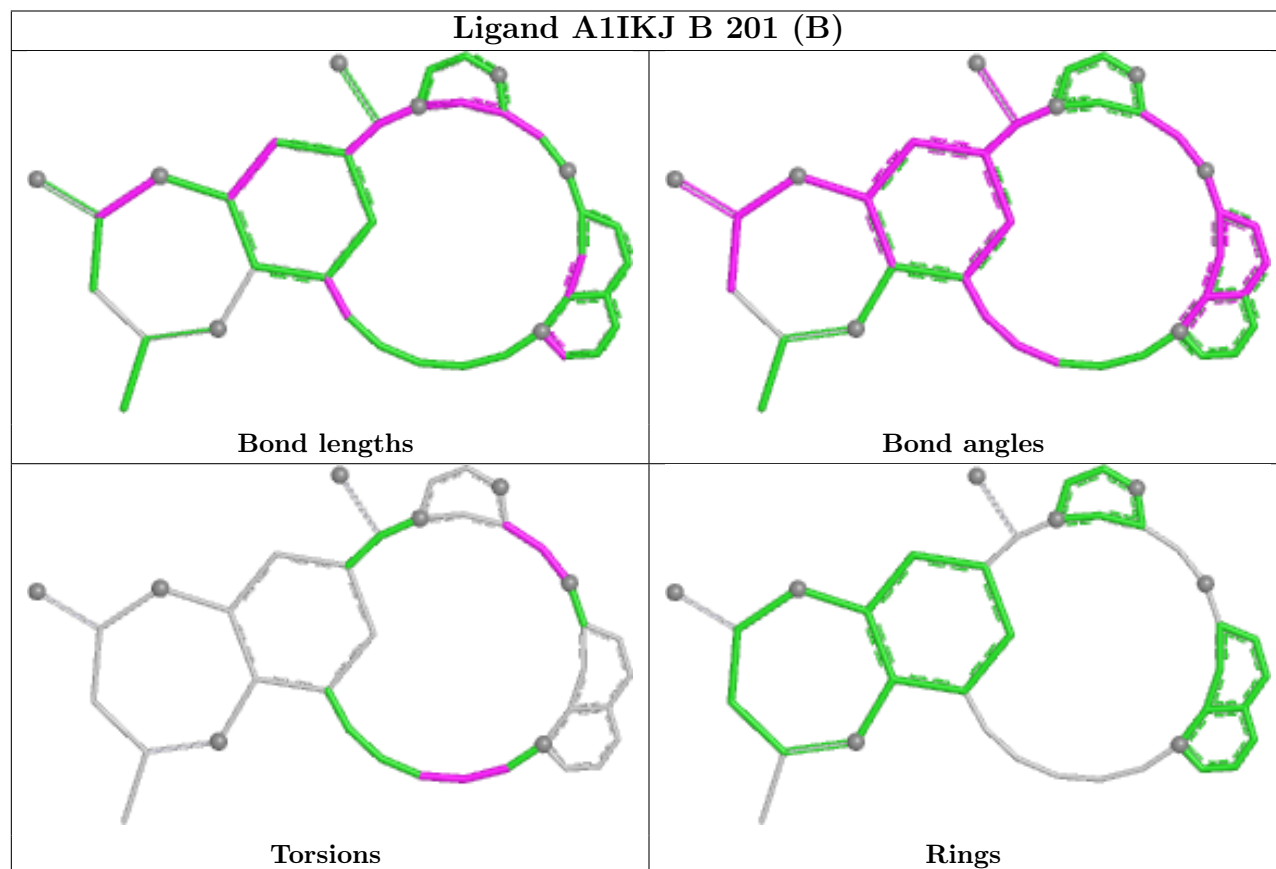


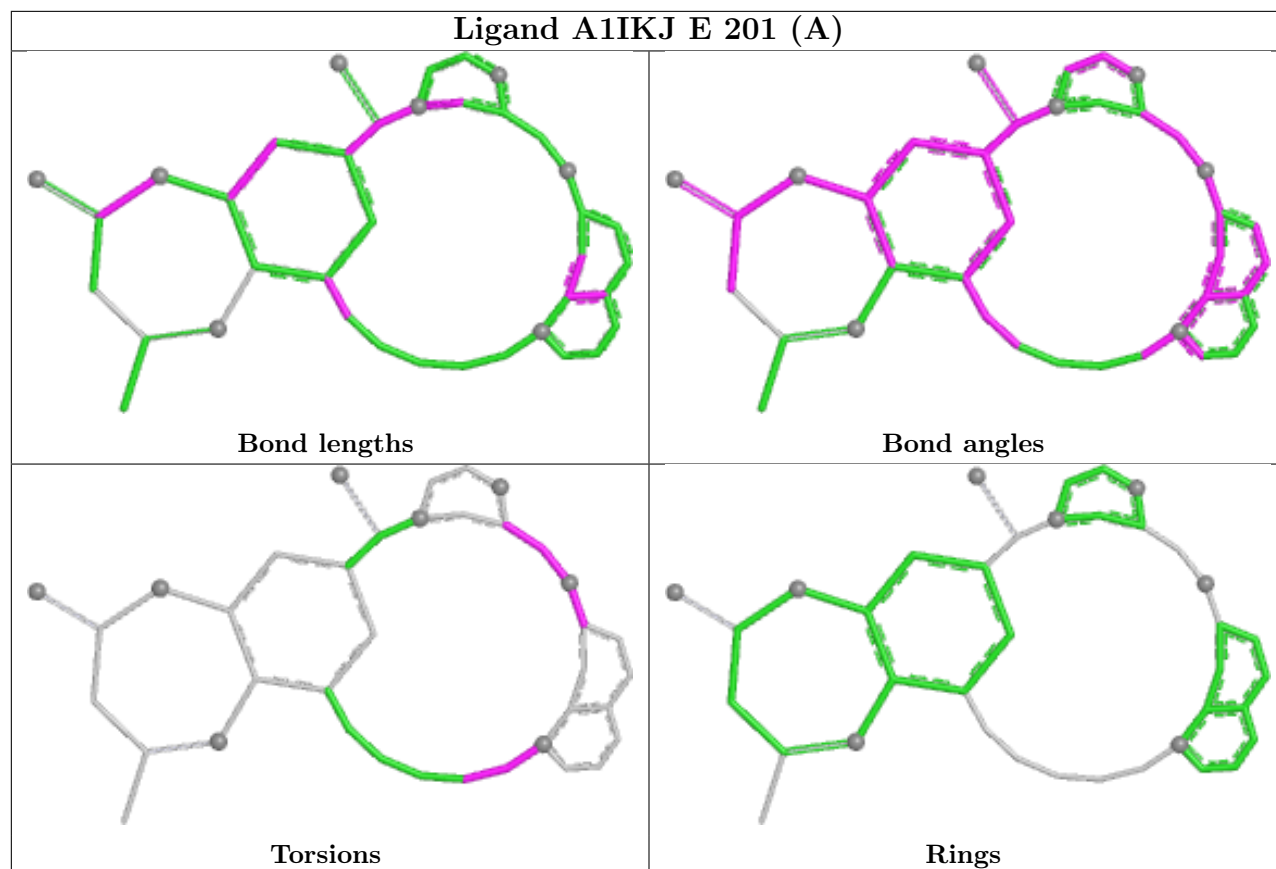


## Ligand A1IKJ G 202 (B)



## Ligand A1IKJ B 201 (B)





## 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

### 6.1 Protein, DNA and RNA chains

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	117/119 (98%)	-0.11	6 (5%) 33 35	10, 20, 50, 68	2 (1%)
1	B	116/119 (97%)	-0.05	5 (4%) 40 42	12, 21, 43, 85	2 (1%)
1	C	115/119 (96%)	0.12	4 (3%) 47 51	16, 27, 53, 69	3 (2%)
1	D	116/119 (97%)	0.29	6 (5%) 33 34	17, 29, 62, 74	5 (4%)
1	E	114/119 (95%)	0.64	11 (9%) 13 14	16, 34, 68, 82	4 (3%)
1	F	115/119 (96%)	0.79	14 (12%) 8 8	16, 38, 70, 78	2 (1%)
1	G	111/119 (93%)	1.02	24 (21%) 2 2	24, 39, 78, 86	3 (2%)
All	All	804/833 (96%)	0.38	70 (8%) 16 16	10, 31, 68, 86	21 (2%)

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	73	TRP	5.8
1	E	73	TRP	5.7
1	B	119	GLY	4.8
1	A	73	TRP	4.8
1	D	4	LYS	4.7
1	F	7	PHE	4.7
1	G	67	GLY	4.5
1	G	7	PHE	4.5
1	D	73[A]	TRP	4.4
1	F	119	GLY	4.2
1	G	12	LEU	4.0
1	A	6	ILE	3.9
1	G	11	GLU	3.8
1	A	4	LYS	3.7
1	E	13[A]	ARG	3.6
1	B	6	ILE	3.4
1	A	119	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
1	G	8	LYS	3.4
1	A	5	LYS	3.4
1	E	7	PHE	3.4
1	F	73	TRP	3.3
1	E	116	GLN	3.3
1	G	70	GLN	3.3
1	F	6	ILE	3.3
1	G	113	PRO	3.3
1	G	112	ASP	3.2
1	C	119	GLY	3.2
1	F	71[A]	GLU	3.2
1	D	119	GLY	3.2
1	G	9	PRO	3.1
1	B	4	LYS	3.1
1	E	8	LYS	3.0
1	G	10	GLU	3.0
1	C	5	LYS	3.0
1	G	114	VAL	2.9
1	G	16	LEU	2.9
1	F	8	LYS	2.9
1	G	115	MET	2.8
1	G	40	GLN	2.8
1	A	3	ARG	2.8
1	G	25[A]	ARG	2.8
1	E	118	LEU	2.8
1	G	64	LEU	2.7
1	G	117	SER	2.7
1	D	6	ILE	2.7
1	F	118	LEU	2.6
1	F	5	LYS	2.6
1	G	71	GLU	2.6
1	E	6	ILE	2.6
1	G	23	LEU	2.5
1	E	9	PRO	2.5
1	E	117	SER	2.4
1	G	75	TYR	2.4
1	F	12	LEU	2.3
1	B	5	LYS	2.3
1	G	106	VAL	2.3
1	C	73	TRP	2.3
1	D	109	GLN	2.3
1	F	9	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	67	GLY	2.2
1	F	70	GLN	2.2
1	D	5	LYS	2.2
1	F	62	ARG	2.2
1	G	17	MET	2.1
1	G	72	PRO	2.1
1	E	5	LYS	2.1
1	C	118	LEU	2.1
1	E	114	VAL	2.0
1	B	118	LEU	2.0
1	F	40	GLN	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 oligosaccharides 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( $\text{\AA}^2$ )	Q<0.9
3	SO4	B	203	5/5	0.82	0.11	57,57,70,75	0
3	SO4	E	202	5/5	0.82	0.15	43,59,66,72	0
3	SO4	D	203	5/5	0.85	0.11	52,60,75,83	0
2	A1IKJ	G	201[A]	38/38	0.88	0.13	25,29,32,34	38
2	A1IKJ	G	201[B]	38/38	0.88	0.13	25,29,32,34	38
3	SO4	A	203	5/5	0.88	0.10	49,61,69,78	0
2	A1IKJ	E	201[A]	38/38	0.89	0.11	19,23,27,29	38
2	A1IKJ	E	201[B]	38/38	0.89	0.11	19,23,27,29	38
2	A1IKJ	G	202[A]	38/38	0.89	0.12	23,26,30,31	38
2	A1IKJ	G	202[B]	38/38	0.89	0.12	23,26,30,31	38
3	SO4	C	201	5/5	0.91	0.11	38,40,50,62	0
2	A1IKJ	B	201[A]	38/38	0.93	0.07	9,14,18,21	38

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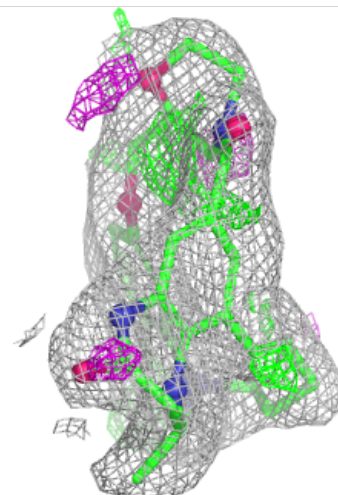
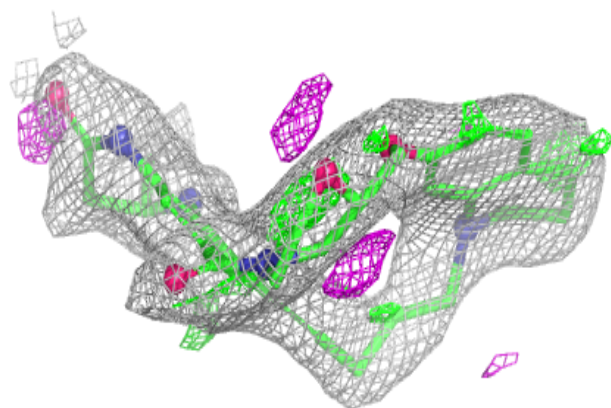
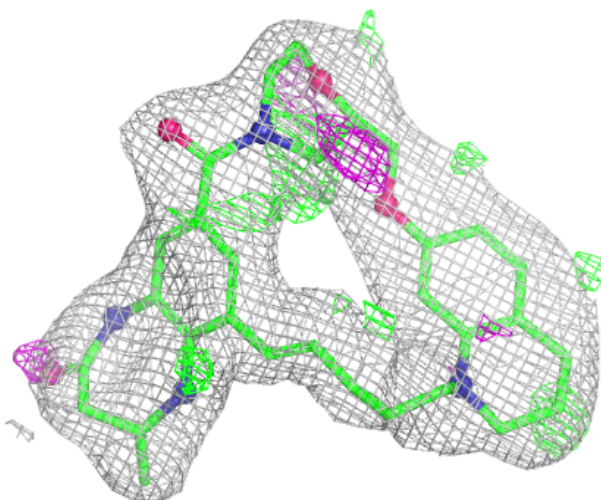
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	A1IKJ	B	201[B]	38/38	0.93	0.07	9,14,18,21	38
2	A1IKJ	F	201	38/38	0.93	0.08	13,21,32,33	0
3	SO4	A	202	5/5	0.94	0.09	41,43,49,51	0
2	A1IKJ	D	201	38/38	0.94	0.07	11,15,21,28	0
2	A1IKJ	A	201	38/38	0.94	0.07	10,15,22,23	0
3	SO4	G	203	5/5	0.94	0.07	34,47,53,60	0
3	SO4	F	202	5/5	0.95	0.07	39,42,45,53	0
3	SO4	A	204	5/5	0.95	0.07	38,39,43,44	0
3	SO4	B	202	5/5	0.96	0.13	36,36,40,49	0
3	SO4	D	202	5/5	0.97	0.06	36,38,46,49	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.

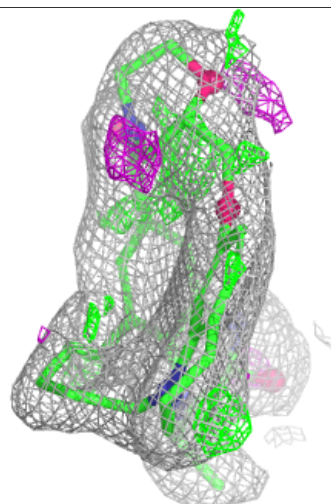
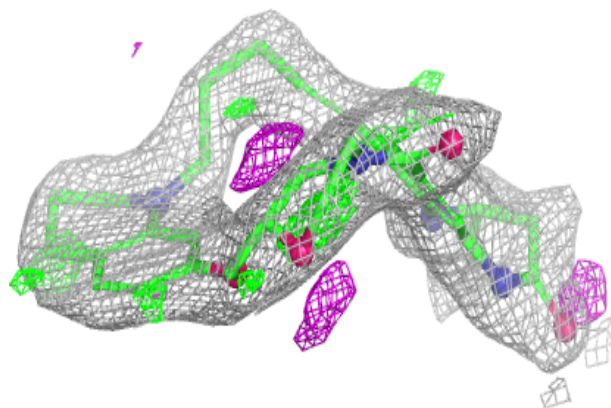
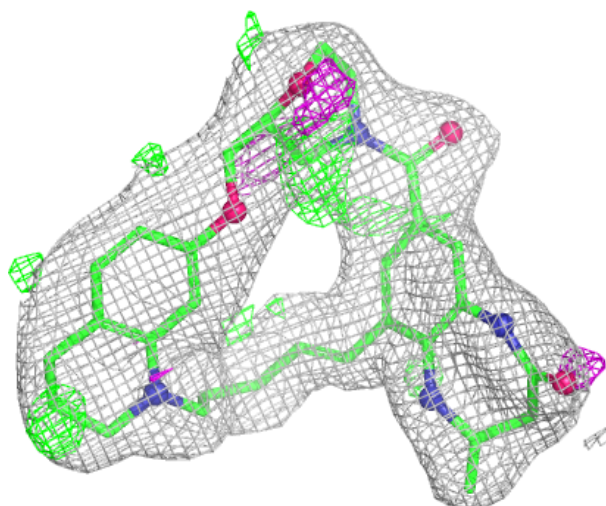
**Electron density around A1IKJ G 201 (A):**

2mF<sub>o</sub>-DF<sub>c</sub> (at 0.7 rmsd) in gray  
 mF<sub>o</sub>-DF<sub>c</sub> (at 3 rmsd) in purple (negative)  
 and green (positive)



**Electron density around A1IKJ G 201 (B):**

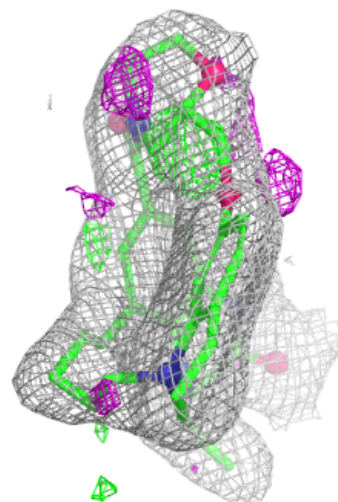
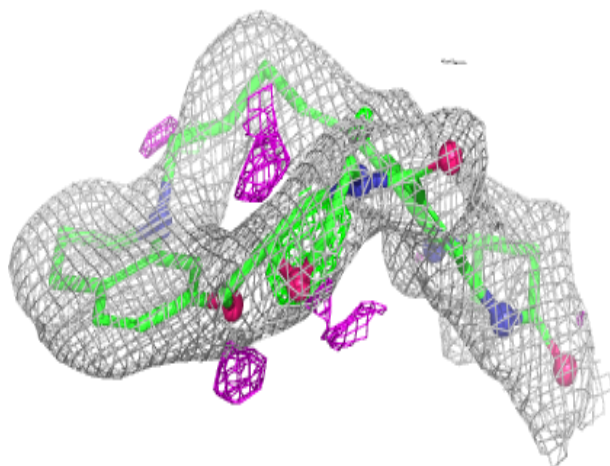
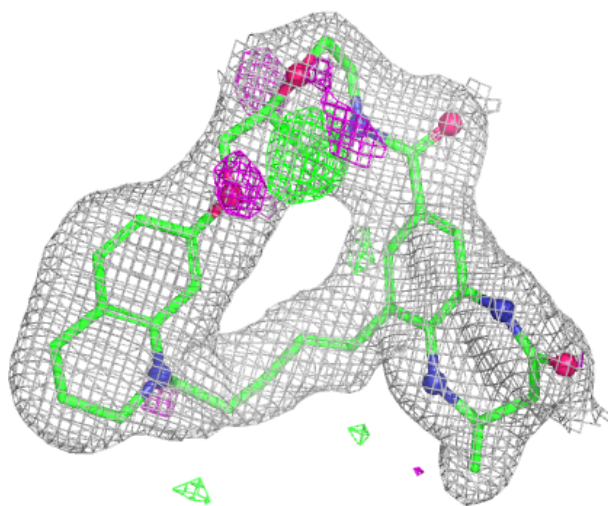
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





**Electron density around A1IKJ E 201 (A):**

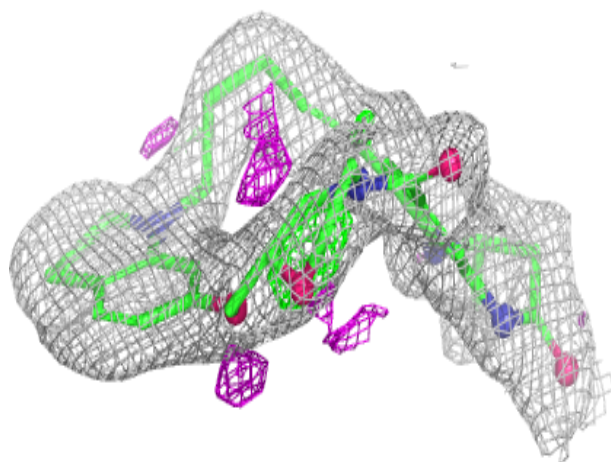
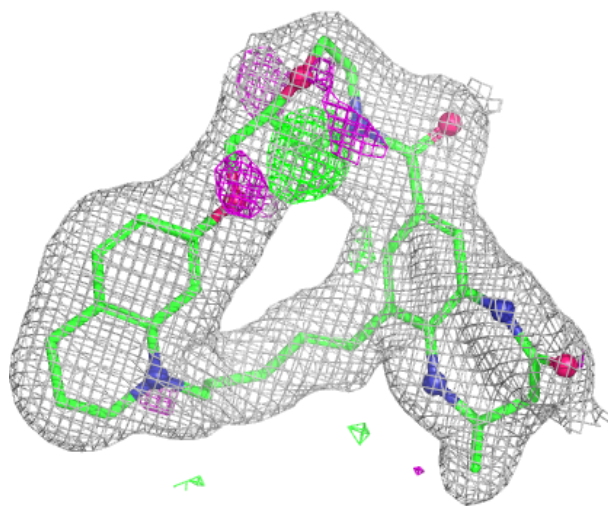
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 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





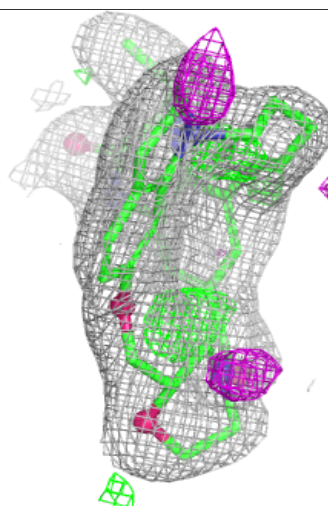
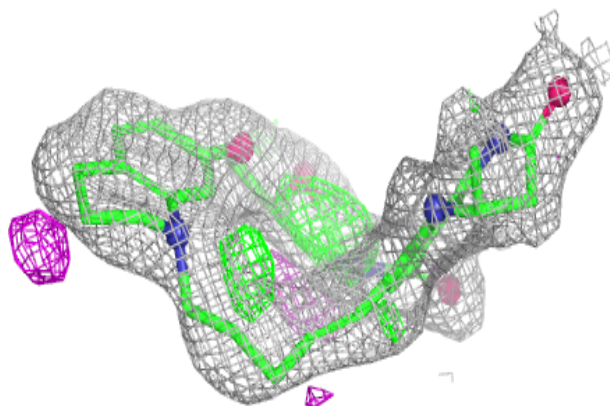
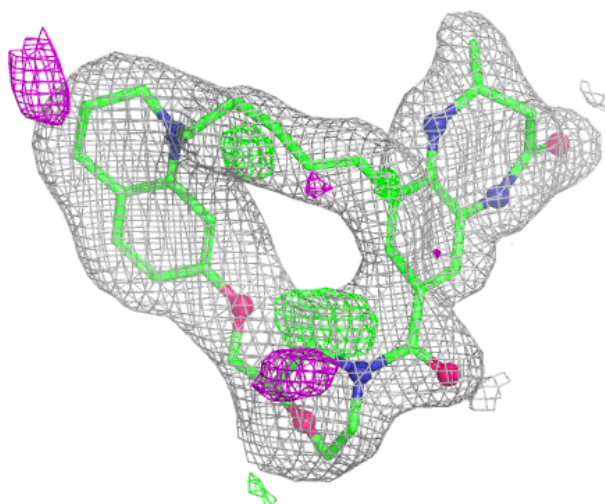
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and green (positive)



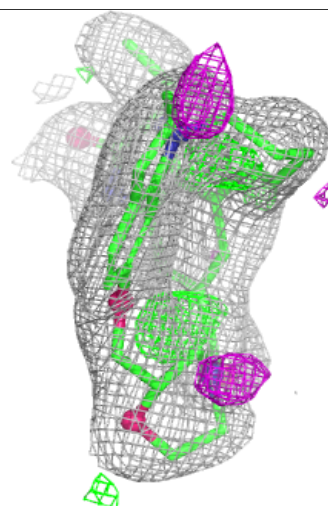
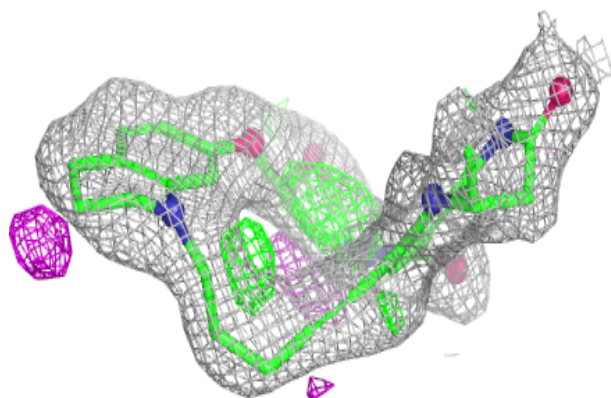
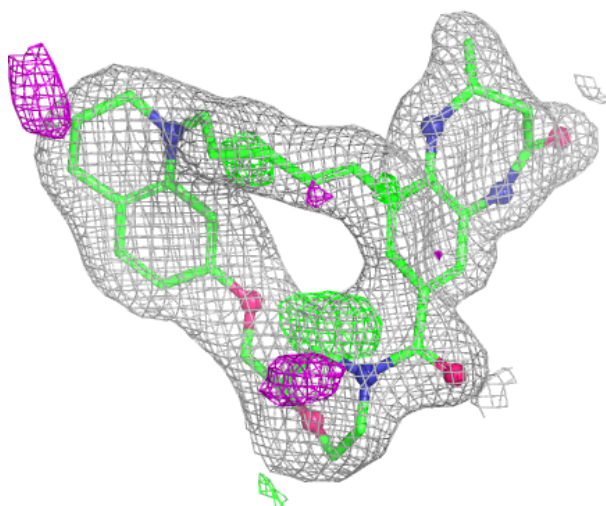
**Electron density around A1IKJ G 202 (A):**

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and green (positive)



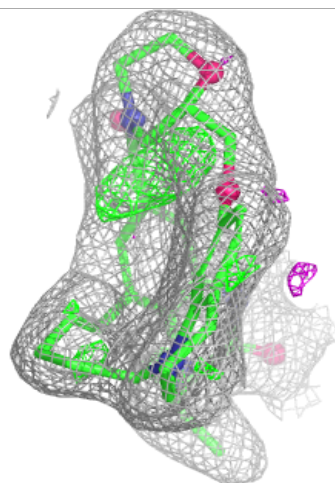
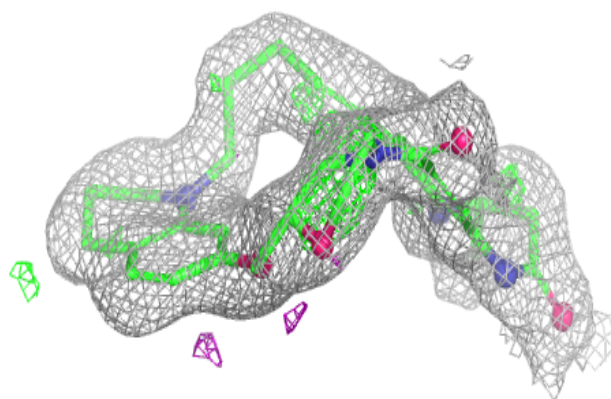
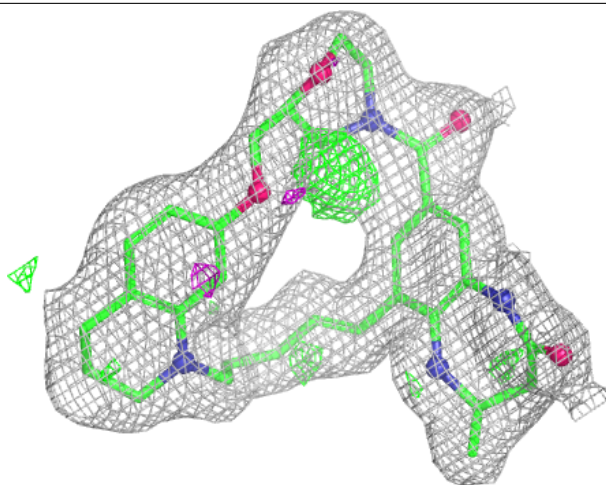
**Electron density around A1IKJ G 202 (B):**

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 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



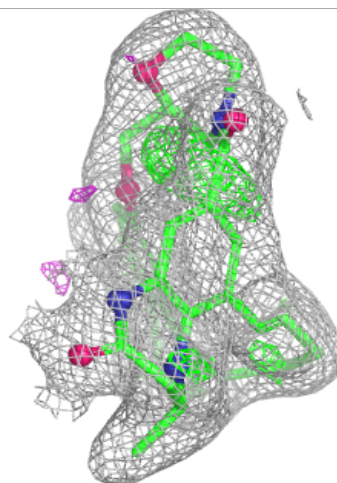
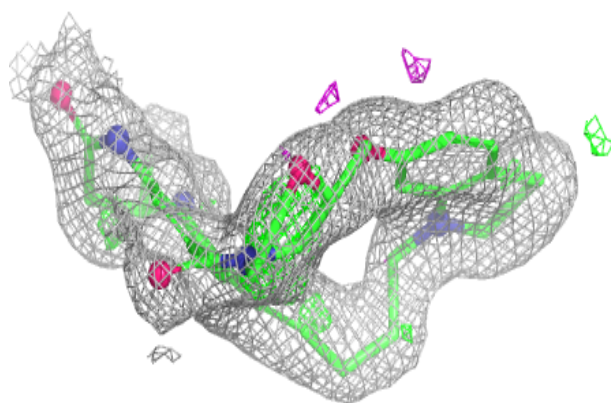
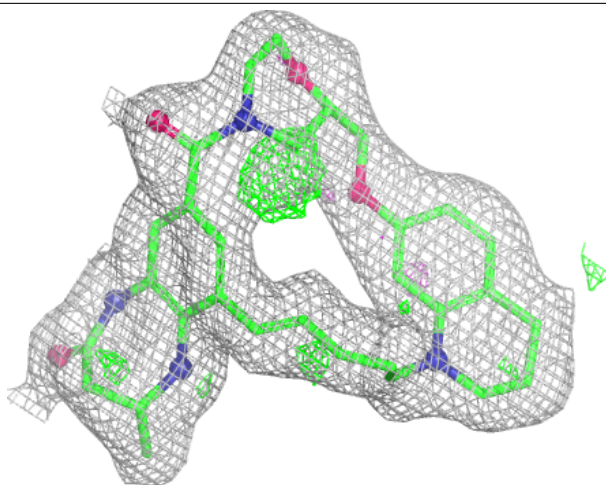
**Electron density around A1IKJ B 201 (A):**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around A1IKJ B 201 (B):**

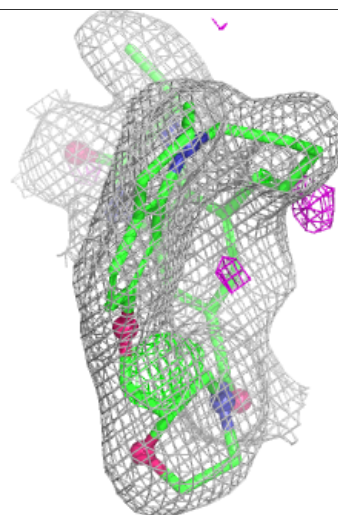
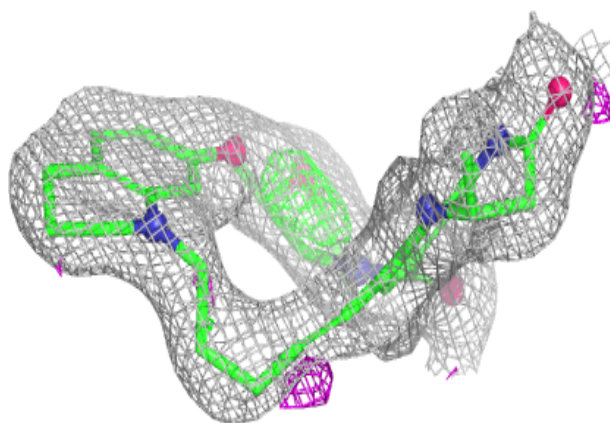
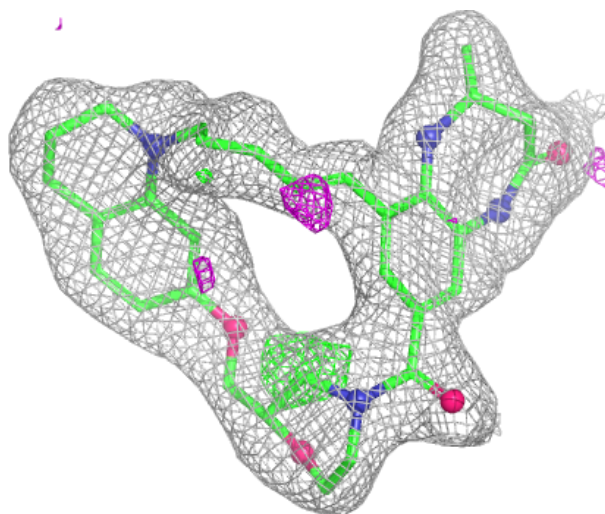
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 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





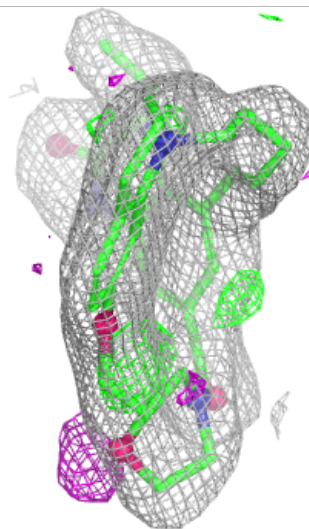
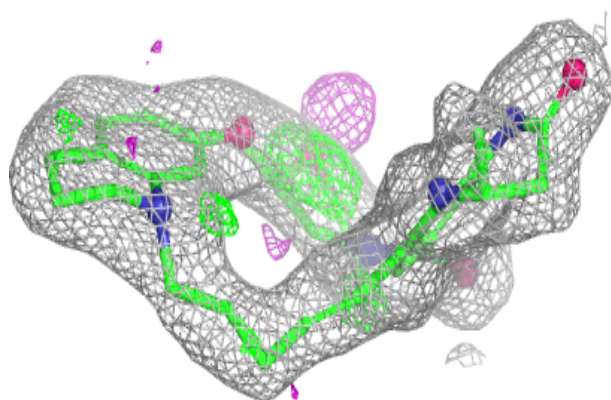
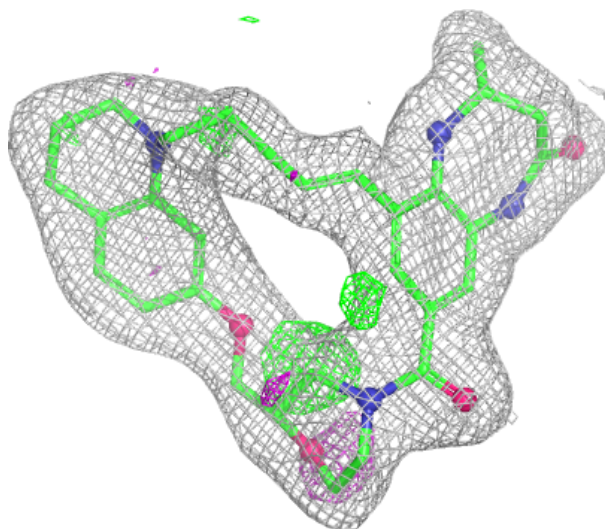
**Electron density around A1IKJ F 201:**

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 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



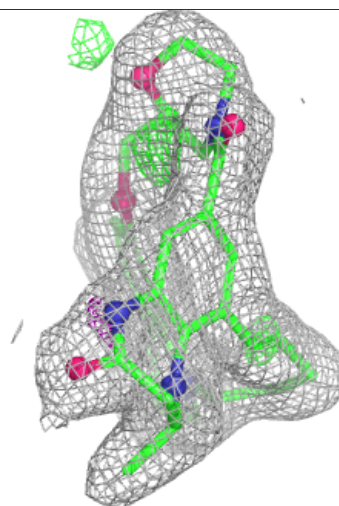
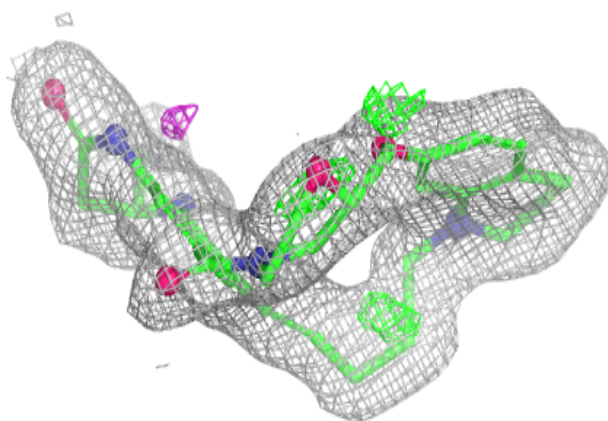
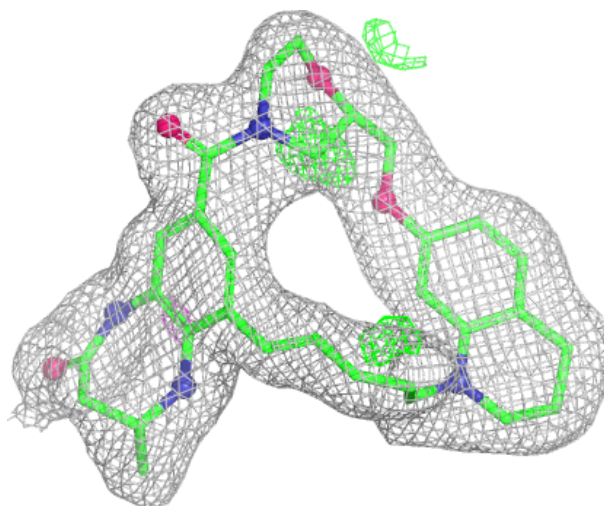
**Electron density around A1IKJ D 201:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around A1IKJ A 201:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



## 6.5 Other polymers ⓘ

There are no such residues in this entry.