



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 31, 2023 – 01:21 PM JST

PDB ID : 5ECF
Title : Ligand binding domain 1 of Penicillium marneffei MP1 protein complexed with arachidonic acids
Authors : Lam, W.H.; Zhang, H.; Hao, Q.
Deposited on : 2015-10-20
Resolution : 2.60 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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)
Xtrriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

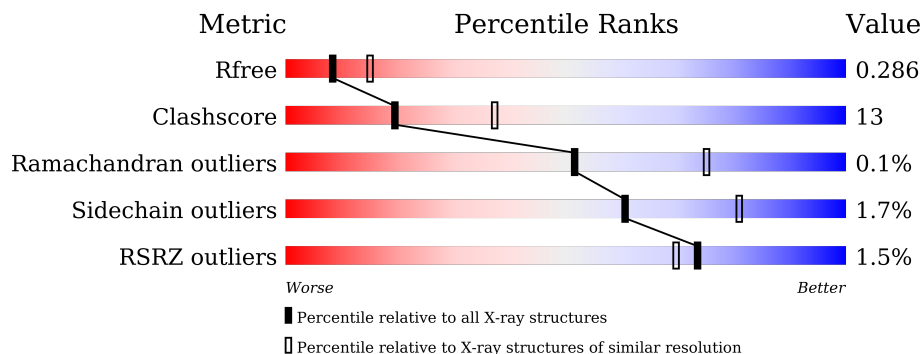
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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 $\leq 5\%$. 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	151	 % 77% 23% .
1	B	151	 83% 17% .
1	C	151	 % 84% 15% .
1	D	151	 78% 19% ...
1	E	151	 80% 19% ..
1	F	151	 % 71% 25% ..

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Mol	Chain	Length	Quality of chain
1	G	151	<p>3% 79% 20% ..</p>
1	H	151	<p>% 82% 15% ..</p>
1	I	151	<p>% 75% 24% .</p>
1	J	151	<p>7% 56% 31% . 12%</p>

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	ACD	I	301	-	-	X	-
2	ACD	J	201	-	-	X	-

2 Entry composition [i](#)

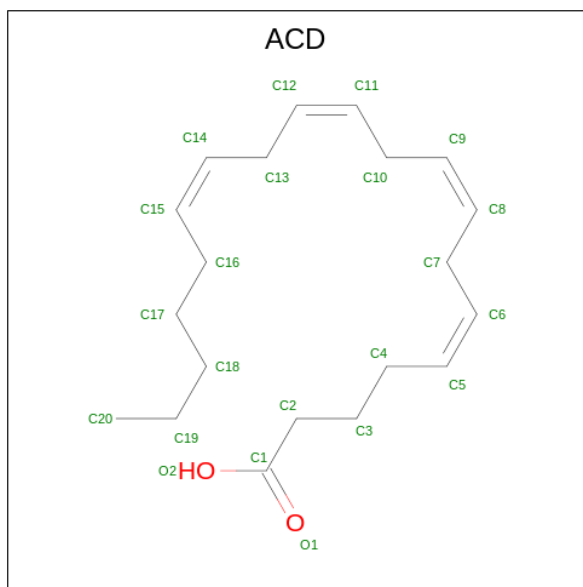
There are 3 unique types of molecules in this entry. The entry contains 11036 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Cell wall antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	151	1118	709	193	215	1	0	0	0
1	B	150	1107	703	189	214	1	0	0	0
1	C	149	1099	697	188	213	1	0	0	0
1	D	149	1099	697	188	213	1	0	0	0
1	E	150	1110	703	192	214	1	0	0	0
1	F	146	1085	690	187	207	1	0	1	0
1	G	150	1110	703	192	214	1	0	0	0
1	H	149	1104	700	189	214	1	0	1	0
1	I	149	1099	697	188	213	1	0	0	0
1	J	133	998	635	171	191	1	0	0	0

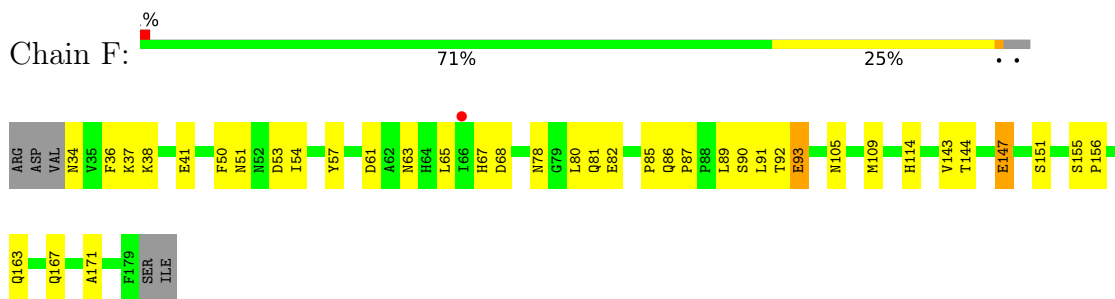
- Molecule 2 is ARACHIDONIC ACID (three-letter code: ACD) (formula: C₂₀H₃₂O₂).



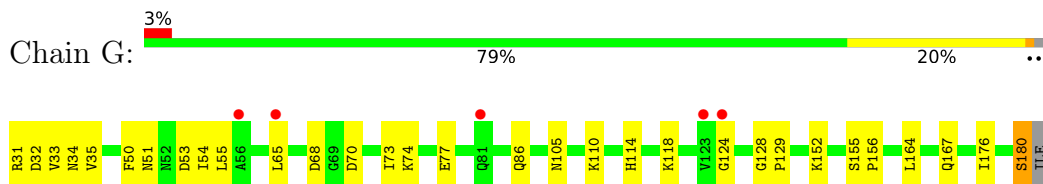
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	C O	0	0
			22	20 2		
2	I	1	Total	C O	0	0
			22	20 2		
2	I	1	Total	C O	0	0
			22	20 2		
2	J	1	Total	C O	0	0
			22	20 2		

- Molecule 3 is water.

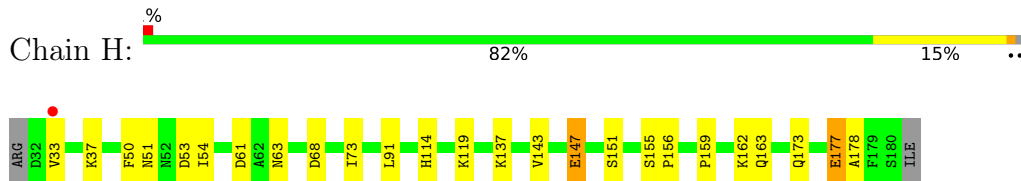
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	3	Total	O	0	0
			3	3		
3	D	1	Total	O	0	0
			1	1		
3	E	1	Total	O	0	0
			1	1		
3	G	6	Total	O	0	0
			6	6		
3	H	4	Total	O	0	0
			4	4		
3	I	2	Total	O	0	0
			2	2		
3	J	2	Total	O	0	0
			2	2		



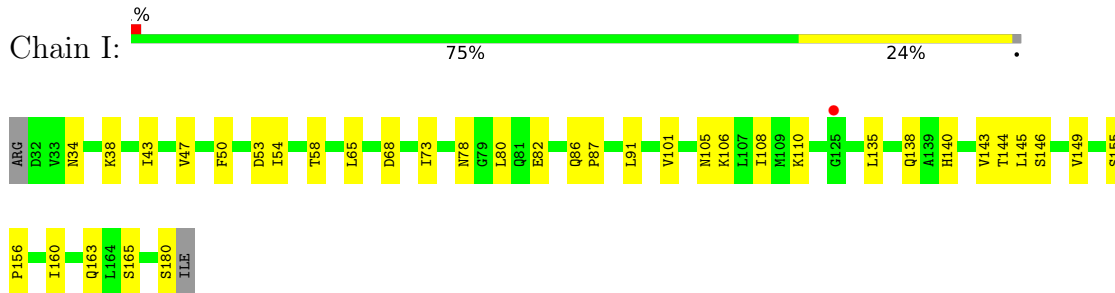
- Molecule 1: Cell wall antigen



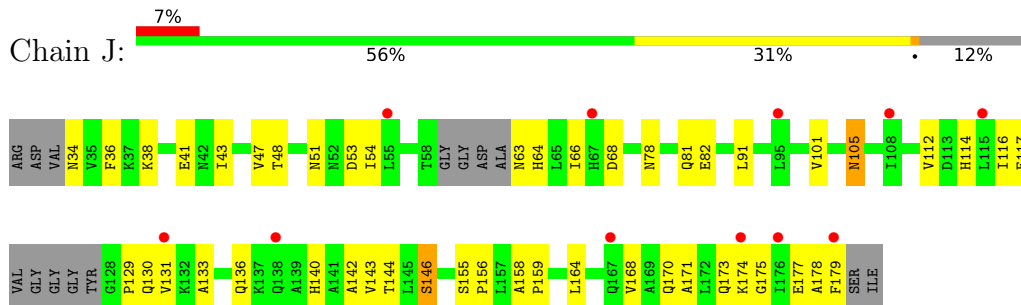
- Molecule 1: Cell wall antigen



- Molecule 1: Cell wall antigen



- Molecule 1: Cell wall antigen



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	65.67Å 104.27Å 108.10Å 90.00° 97.44° 90.00°	Depositor
Resolution (Å)	50.00 – 2.60 47.67 – 2.60	Depositor EDS
% Data completeness (in resolution range)	94.6 (50.00-2.60) 94.3 (47.67-2.60)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.48 (at 2.58Å)	Xtrriage
Refinement program	REFMAC 5.8.0123	Depositor
R, R_{free}	0.256 , 0.290 0.254 , 0.286	Depositor DCC
R_{free} test set	2135 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	51.8	Xtrriage
Anisotropy	0.588	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 18.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	11036	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.83% 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: ACD

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	0.81	1/1135 (0.1%)	0.52	0/1541
1	B	0.79	2/1124 (0.2%)	0.49	0/1527
1	C	0.77	0/1116	0.55	0/1516
1	D	0.84	2/1116 (0.2%)	0.51	0/1516
1	E	0.84	1/1127 (0.1%)	0.60	1/1530 (0.1%)
1	F	0.89	2/1106 (0.2%)	0.56	0/1502
1	G	0.81	0/1127	0.55	0/1530
1	H	0.90	2/1124 (0.2%)	0.55	0/1527
1	I	0.87	0/1116	0.55	0/1516
1	J	0.91	1/1011 (0.1%)	0.61	0/1371
All	All	0.84	11/11102 (0.1%)	0.55	1/15076 (0.0%)

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	82	GLU	CD-OE1	8.55	1.35	1.25
1	H	147	GLU	CD-OE2	7.82	1.34	1.25
1	D	161	SER	CB-OG	-6.82	1.33	1.42
1	H	177	GLU	CD-OE1	6.66	1.32	1.25
1	D	151	SER	CA-CB	5.63	1.61	1.52
1	F	93	GLU	CG-CD	5.61	1.60	1.51
1	A	161	SER	CB-OG	-5.45	1.35	1.42
1	F	147	GLU	CD-OE2	-5.41	1.19	1.25
1	E	155	SER	CB-OG	5.39	1.49	1.42
1	B	74	LYS	CD-CE	5.08	1.64	1.51
1	J	41	GLU	CG-CD	5.01	1.59	1.51

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	61	ASP	CB-CG-OD1	5.17	122.96	118.30

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	1118	0	1157	38	0
1	B	1107	0	1144	19	0
1	C	1099	0	1133	30	1
1	D	1099	0	1133	21	0
1	E	1110	0	1146	30	1
1	F	1085	0	1122	36	0
1	G	1110	0	1146	23	0
1	H	1104	0	1139	21	0
1	I	1099	0	1133	55	0
1	J	998	0	1037	38	0
2	B	22	0	31	1	0
2	I	44	0	62	15	0
2	J	22	0	31	10	0
3	B	3	0	0	1	0
3	D	1	0	0	1	0
3	E	1	0	0	0	0
3	G	6	0	0	0	0
3	H	4	0	0	0	0
3	I	2	0	0	0	0
3	J	2	0	0	0	0
All	All	11036	0	11414	288	1

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 13.

All (288) 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:I:106:LYS:HE2	1:I:110:LYS:NZ	1.26	1.41
1:I:106:LYS:CE	1:I:110:LYS:NZ	1.81	1.40
1:G:86:GLN:O	1:G:152:LYS:NZ	1.75	1.17
1:D:119:LYS:NZ	1:D:178:ALA:O	1.77	1.17
1:C:67:HIS:CE1	1:E:87:PRO:HB3	1.89	1.08
1:J:117:GLU:O	1:J:118:LYS:HG2	1.53	1.08
1:I:138:GLN:OE1	2:I:301:ACD:H9	1.55	1.07
1:F:57:TYR:HE1	1:F:61:ASP:O	1.42	1.00
1:G:53:ASP:OD2	1:G:68:ASP:OD2	1.83	0.95
1:H:50:PHE:CE2	1:H:54:ILE:HD11	2.05	0.92
1:I:138:GLN:OE1	2:I:301:ACD:C9	2.18	0.92
1:I:106:LYS:HE2	1:I:110:LYS:HZ1	1.09	0.89
1:I:106:LYS:CE	1:I:110:LYS:HZ1	1.61	0.89
1:I:106:LYS:CE	1:I:110:LYS:HZ3	1.84	0.88
1:F:90:SER:N	1:F:93:GLU:OE1	2.08	0.87
1:A:57:TYR:O	1:A:118:LYS:HE3	1.74	0.86
1:I:106:LYS:NZ	1:I:110:LYS:NZ	2.23	0.85
1:I:106:LYS:CD	1:I:110:LYS:NZ	2.38	0.85
1:F:57:TYR:CE1	1:F:61:ASP:O	2.30	0.84
1:I:106:LYS:NZ	1:I:110:LYS:HZ1	1.76	0.84
1:C:67:HIS:CE1	1:E:87:PRO:CB	2.62	0.83
1:F:34:ASN:HD22	1:F:37:LYS:H	1.27	0.82
1:I:106:LYS:HE2	1:I:110:LYS:HZ2	1.05	0.82
1:E:132:LYS:NZ	1:E:176:ILE:HG23	1.96	0.80
1:D:50:PHE:CE2	1:D:54:ILE:HD11	2.19	0.78
1:J:164:LEU:HB3	2:J:201:ACD:H22	1.64	0.78
1:J:178:ALA:O	1:J:179:PHE:CD1	2.38	0.76
1:C:33:VAL:HG23	1:C:97:LEU:HD11	1.66	0.76
1:J:51:ASN:O	1:J:54:ILE:HG22	1.87	0.74
1:J:117:GLU:O	1:J:118:LYS:CG	2.34	0.74
1:I:105:ASN:ND2	2:I:301:ACD:O2	2.19	0.74
1:I:106:LYS:CD	1:I:110:LYS:HZ3	2.01	0.73
1:J:117:GLU:C	1:J:118:LYS:CG	2.57	0.73
1:J:168:VAL:HG21	2:J:201:ACD:O1	1.89	0.73
1:B:55:LEU:HD22	1:J:144:THR:HB	1.71	0.72
2:I:300:ACD:O1	2:I:301:ACD:O1	2.08	0.71
1:A:95:LEU:HD11	1:H:91:LEU:HD21	1.71	0.71
1:E:163:GLN:HA	1:E:163:GLN:NE2	2.05	0.71
1:I:50:PHE:CE2	2:I:301:ACD:H15	2.25	0.70
1:F:54:ILE:HD13	1:F:65:LEU:HD22	1.73	0.70
1:B:50:PHE:CE2	1:B:54:ILE:HD11	2.25	0.70
1:H:50:PHE:CZ	1:H:54:ILE:HD11	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:109:MET:CE	1:C:167:GLN:HG2	2.22	0.69
1:C:38:LYS:HE2	1:I:58:THR:OG1	1.92	0.69
1:C:50:PHE:CE2	1:C:54:ILE:HD11	2.28	0.69
1:A:50:PHE:CE2	1:A:54:ILE:HD11	2.28	0.69
1:I:50:PHE:O	1:I:54:ILE:HG12	1.93	0.69
1:D:34:ASN:O	1:D:38:LYS:HG3	1.93	0.68
1:J:173:GLN:O	1:J:177:GLU:HG2	1.92	0.68
1:J:117:GLU:C	1:J:118:LYS:HG2	2.12	0.68
1:F:105:ASN:O	1:F:109:MET:HG2	1.94	0.67
1:J:105:ASN:OD1	2:J:201:ACD:O2	2.12	0.67
1:F:50:PHE:O	1:F:54:ILE:HG12	1.95	0.67
1:B:147:GLU:OE2	1:H:114:HIS:HE1	1.77	0.67
1:G:50:PHE:O	1:G:54:ILE:HG12	1.94	0.67
1:C:34:ASN:O	1:C:38:LYS:HG3	1.96	0.66
1:I:138:GLN:CD	2:I:301:ACD:H9	2.16	0.66
1:A:85:PRO:HG3	1:C:35:VAL:HG23	1.77	0.66
1:A:99:GLY:HA2	1:H:159:PRO:HG2	1.78	0.66
1:H:119:LYS:HE3	1:H:178:ALA:O	1.96	0.66
1:A:31:ARG:HE	1:A:32:ASP:H	1.44	0.66
1:A:85:PRO:HB3	1:C:34:ASN:HB2	1.78	0.65
1:E:50:PHE:O	1:E:54:ILE:HG12	1.97	0.65
1:D:134:SER:O	1:D:138:GLN:HG3	1.97	0.65
1:I:106:LYS:HD3	1:I:110:LYS:HZ3	1.60	0.65
2:J:201:ACD:H72	2:J:201:ACD:H32	1.78	0.65
1:I:146:SER:HB2	2:I:300:ACD:O2	1.96	0.65
1:E:132:LYS:HZ3	1:E:176:ILE:HG23	1.60	0.64
1:E:157:LEU:HD23	1:E:160:ILE:HD12	1.78	0.64
1:I:54:ILE:HD13	1:I:65:LEU:HD22	1.80	0.64
1:I:106:LYS:CE	1:I:110:LYS:HZ2	1.74	0.64
2:J:201:ACD:H32	2:J:201:ACD:C7	2.26	0.64
1:I:149:VAL:HG11	2:I:300:ACD:H41	1.80	0.64
1:C:91:LEU:HD23	1:C:154:PRO:CG	2.28	0.63
1:A:31:ARG:HG3	1:A:32:ASP:H	1.64	0.63
1:B:95:LEU:HD11	1:I:91:LEU:HD21	1.79	0.63
1:F:109:MET:HE1	1:F:171:ALA:HB2	1.80	0.63
1:A:35:VAL:CG2	1:C:87:PRO:HD3	2.28	0.63
1:I:73:ILE:HG12	1:I:138:GLN:NE2	2.12	0.63
1:C:109:MET:HE1	1:C:167:GLN:HG2	1.81	0.62
1:F:34:ASN:ND2	1:F:37:LYS:H	1.97	0.62
1:G:51:ASN:OD1	1:G:114:HIS:HD2	1.83	0.62
1:F:34:ASN:HD22	1:F:37:LYS:N	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:ARG:HE	1:A:32:ASP:N	1.97	0.61
1:I:140:HIS:O	1:I:144:THR:HG23	2.00	0.61
1:F:54:ILE:CD1	1:F:65:LEU:HD22	2.30	0.61
1:E:54:ILE:HD13	1:E:65:LEU:HD22	1.82	0.61
1:J:146:SER:HB3	2:J:201:ACD:H5	1.81	0.61
1:A:85:PRO:HG3	1:C:35:VAL:CG2	2.30	0.61
1:I:106:LYS:CD	1:I:110:LYS:HZ2	2.10	0.61
1:J:178:ALA:C	1:J:179:PHE:CD1	2.74	0.61
1:D:51:ASN:OD1	1:D:114:HIS:HD2	1.85	0.60
1:H:51:ASN:OD1	1:H:114:HIS:HD2	1.85	0.60
1:F:163:GLN:HE21	1:F:167:GLN:HE21	1.50	0.60
1:I:138:GLN:OE1	2:I:301:ACD:C8	2.50	0.60
1:D:53:ASP:OD2	1:D:68:ASP:OD2	2.20	0.60
2:J:201:ACD:H72	2:J:201:ACD:C3	2.31	0.60
1:H:33:VAL:O	1:H:37:LYS:HG3	2.01	0.59
1:G:54:ILE:HD13	1:G:65:LEU:HD22	1.84	0.59
1:C:67:HIS:HE1	1:E:87:PRO:HB3	1.59	0.59
1:G:35:VAL:HG21	1:G:86:GLN:NE2	2.18	0.59
1:H:173:GLN:HG3	1:H:177:GLU:OE1	2.03	0.58
1:A:51:ASN:OD1	1:A:114:HIS:HD2	1.87	0.57
1:A:124:GLY:HA2	1:F:85:PRO:HB3	1.86	0.57
1:B:162:LYS:HE3	1:B:166:ASP:OD2	2.03	0.57
1:I:73:ILE:HG12	1:I:138:GLN:HE21	1.67	0.57
1:J:78:ASN:O	1:J:82:GLU:HG3	2.04	0.57
1:D:132:LYS:HE3	1:D:180:SER:OG	2.04	0.57
1:A:57:TYR:O	1:A:118:LYS:CE	2.49	0.57
1:D:50:PHE:CZ	1:D:54:ILE:HD11	2.39	0.57
1:E:51:ASN:OD1	1:E:114:HIS:HD2	1.88	0.57
1:I:101:VAL:HG11	2:I:300:ACD:H31	1.86	0.57
1:A:85:PRO:CG	1:C:35:VAL:HG23	2.34	0.57
1:B:51:ASN:OD1	1:B:114:HIS:HD2	1.87	0.57
1:B:132:LYS:HE3	1:B:180:SER:HB3	1.85	0.57
1:A:32:ASP:O	1:A:34:ASN:N	2.37	0.57
1:J:170:GLN:O	1:J:174:LYS:HG3	2.04	0.57
1:I:80:LEU:HD22	1:I:145:LEU:HD13	1.88	0.56
1:I:163:GLN:HA	1:I:163:GLN:NE2	2.21	0.56
1:J:175:GLY:O	1:J:179:PHE:HD1	1.88	0.56
1:D:73:ILE:HG21	1:D:137:LYS:HE3	1.87	0.56
1:E:34:ASN:O	1:E:38:LYS:HG3	2.06	0.56
1:B:33:VAL:HG11	1:B:93:GLU:HG2	1.87	0.56
1:I:140:HIS:O	1:I:143:VAL:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:178:ALA:O	1:J:179:PHE:CG	2.59	0.56
1:A:95:LEU:CD1	1:H:91:LEU:HD21	2.36	0.55
1:B:33:VAL:CG1	1:B:93:GLU:HG2	2.36	0.55
1:B:53:ASP:OD2	1:B:68:ASP:OD2	2.24	0.55
1:I:106:LYS:HZ1	1:I:110:LYS:HZ1	1.54	0.55
1:J:34:ASN:O	1:J:38:LYS:HG2	2.06	0.55
1:F:41:GLU:HA	1:F:41:GLU:OE2	2.06	0.55
1:I:78:ASN:O	1:I:82:GLU:HG3	2.05	0.55
1:H:143:VAL:O	1:H:147:GLU:HG2	2.06	0.55
1:J:48:THR:O	1:J:51:ASN:N	2.39	0.55
1:C:53:ASP:OD2	1:C:68:ASP:OD2	2.25	0.55
1:J:133:ALA:HA	1:J:136:GLN:HB2	1.87	0.55
1:E:132:LYS:HZ2	1:E:176:ILE:HG23	1.69	0.55
1:F:53:ASP:OD2	1:F:68:ASP:OD2	2.25	0.55
1:J:140:HIS:O	1:J:143:VAL:HG12	2.07	0.55
1:H:53:ASP:OD2	1:H:68:ASP:OD2	2.25	0.55
1:C:109:MET:HE3	1:C:167:GLN:HG2	1.89	0.54
1:A:53:ASP:OD2	1:A:68:ASP:OD2	2.24	0.54
1:F:34:ASN:HD21	1:F:36:PHE:HB2	1.73	0.54
1:F:109:MET:CE	1:F:171:ALA:HB2	2.37	0.54
1:F:51:ASN:OD1	1:F:114:HIS:HD2	1.91	0.54
1:A:50:PHE:CZ	1:A:54:ILE:HD11	2.43	0.54
1:E:53:ASP:OD2	1:E:68:ASP:OD2	2.25	0.54
1:I:34:ASN:O	1:I:38:LYS:HG3	2.08	0.53
1:E:80:LEU:HD12	1:E:148:LEU:HD22	1.89	0.53
1:I:54:ILE:CD1	1:I:65:LEU:HD22	2.38	0.53
1:A:140:HIS:O	1:A:143:VAL:HG12	2.08	0.53
1:D:85:PRO:HB3	1:G:124:GLY:O	2.08	0.53
1:I:106:LYS:NZ	1:I:110:LYS:HZ3	2.00	0.53
1:D:78:ASN:O	1:D:82:GLU:HG3	2.08	0.53
1:I:106:LYS:HG2	1:I:110:LYS:HZ2	1.74	0.52
1:C:97:LEU:C	1:C:100:PRO:HD2	2.30	0.52
1:J:112:VAL:HG12	1:J:116:ILE:CD1	2.38	0.52
1:J:51:ASN:OD1	1:J:114:HIS:HD2	1.92	0.52
1:A:34:ASN:O	1:A:38:LYS:HG2	2.10	0.52
1:F:37:LYS:O	1:F:41:GLU:HG2	2.10	0.52
1:I:80:LEU:CD2	1:I:145:LEU:HB2	2.39	0.52
1:J:63:ASN:O	1:J:66:ILE:N	2.42	0.52
1:E:54:ILE:CD1	1:E:65:LEU:HD22	2.40	0.51
1:I:86:GLN:OE1	1:I:87:PRO:HD2	2.09	0.51
1:D:151:SER:OG	3:D:201:HOH:O	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:147:GLU:OE2	1:H:114:HIS:CE1	2.62	0.51
1:J:171:ALA:HA	1:J:174:LYS:HD2	1.93	0.51
1:E:31:ARG:CD	1:E:87:PRO:HG3	2.40	0.51
1:B:50:PHE:CZ	1:B:54:ILE:HD11	2.46	0.50
1:J:142:ALA:O	1:J:146:SER:OG	2.27	0.50
1:D:163:GLN:NE2	1:D:167:GLN:HE21	2.10	0.50
1:J:53:ASP:OD2	1:J:68:ASP:OD2	2.30	0.50
1:A:31:ARG:CG	1:A:32:ASP:H	2.24	0.49
1:F:63:ASN:O	1:F:67:HIS:ND1	2.45	0.49
1:I:53:ASP:OD2	1:I:68:ASP:OD2	2.29	0.49
1:G:54:ILE:CD1	1:G:65:LEU:HD22	2.42	0.49
1:A:85:PRO:CG	1:C:35:VAL:CG2	2.90	0.49
1:H:119:LYS:CE	1:H:178:ALA:O	2.61	0.49
1:E:164:LEU:O	1:E:167:GLN:HB2	2.12	0.48
1:I:106:LYS:CG	1:I:110:LYS:HZ2	2.25	0.48
1:F:105:ASN:ND2	1:F:167:GLN:OE1	2.46	0.48
1:G:74:LYS:O	1:G:77:GLU:N	2.46	0.48
1:I:50:PHE:CE1	1:I:54:ILE:HD11	2.48	0.48
1:F:34:ASN:O	1:F:38:LYS:HG3	2.14	0.48
1:F:143:VAL:HG13	1:F:144:THR:N	2.29	0.48
1:G:31:ARG:HE	1:G:31:ARG:HA	1.79	0.48
1:J:140:HIS:O	1:J:144:THR:HG23	2.13	0.48
1:A:140:HIS:O	1:A:144:THR:HG23	2.13	0.47
1:E:31:ARG:HD2	1:E:87:PRO:HG3	1.94	0.47
1:B:56:ALA:O	1:J:81:GLN:OE1	2.33	0.47
1:E:164:LEU:HD23	1:E:167:GLN:NE2	2.29	0.47
1:F:54:ILE:HD13	1:F:65:LEU:CD2	2.41	0.47
1:I:165:SER:OG	2:I:300:ACD:O2	2.19	0.47
1:A:31:ARG:NE	1:A:32:ASP:H	2.13	0.47
1:I:160:ILE:HG22	2:I:300:ACD:H192	1.96	0.47
1:J:143:VAL:HG13	1:J:144:THR:N	2.30	0.47
1:A:78:ASN:O	1:A:82:GLU:HG3	2.13	0.46
1:G:50:PHE:CZ	1:G:54:ILE:HD11	2.50	0.46
1:F:143:VAL:O	1:F:147:GLU:HG3	2.15	0.46
1:H:50:PHE:CD2	1:H:54:ILE:HD11	2.50	0.46
1:E:132:LYS:HD3	1:E:179:PHE:O	2.16	0.46
1:F:89:LEU:HD22	1:F:93:GLU:HB3	1.96	0.46
1:H:61:ASP:OD2	1:H:63:ASN:ND2	2.49	0.46
1:J:155:SER:N	1:J:156:PRO:CD	2.79	0.46
1:C:158:ALA:N	1:C:159:PRO:CD	2.79	0.46
1:A:158:ALA:N	1:A:159:PRO:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:PHE:CZ	1:C:54:ILE:HD11	2.50	0.46
1:A:31:ARG:HG3	1:A:32:ASP:N	2.29	0.45
1:C:91:LEU:HD23	1:C:154:PRO:HG3	1.97	0.45
1:F:90:SER:O	1:F:93:GLU:HB2	2.16	0.45
1:G:31:ARG:HA	1:G:31:ARG:NE	2.32	0.45
1:G:35:VAL:HG21	1:G:86:GLN:HE22	1.80	0.45
1:H:163:GLN:NE2	1:H:163:GLN:HA	2.31	0.45
1:C:67:HIS:NE2	1:E:87:PRO:CB	2.79	0.45
1:C:91:LEU:HD23	1:C:154:PRO:HG2	1.99	0.45
1:D:85:PRO:CB	1:G:124:GLY:O	2.65	0.45
1:G:110:LYS:HD3	1:G:110:LYS:HA	1.79	0.45
1:I:73:ILE:CG1	1:I:138:GLN:NE2	2.79	0.45
1:B:140:HIS:O	1:B:144:THR:HG23	2.17	0.45
1:H:50:PHE:O	1:H:54:ILE:HG13	2.17	0.45
1:A:50:PHE:O	1:A:54:ILE:HG13	2.17	0.44
1:D:155:SER:N	1:D:156:PRO:CD	2.81	0.44
1:A:31:ARG:NE	1:A:31:ARG:HA	2.31	0.44
1:A:56:ALA:HA	1:D:84:GLY:O	2.17	0.44
1:B:50:PHE:O	1:B:54:ILE:HG13	2.17	0.44
1:E:132:LYS:HE3	1:E:132:LYS:HB3	1.58	0.44
1:J:105:ASN:OD1	2:J:201:ACD:C1	2.65	0.44
1:F:155:SER:N	1:F:156:PRO:CD	2.81	0.44
1:G:155:SER:N	1:G:156:PRO:CD	2.81	0.44
1:C:50:PHE:O	1:C:54:ILE:HG13	2.18	0.44
1:F:50:PHE:CE1	1:F:54:ILE:HD11	2.53	0.44
1:I:101:VAL:CG1	2:I:300:ACD:H31	2.47	0.44
1:H:155:SER:N	1:H:156:PRO:CD	2.81	0.44
1:D:163:GLN:NE2	1:D:167:GLN:NE2	2.66	0.43
1:I:80:LEU:HD21	1:I:145:LEU:HB2	2.00	0.43
1:J:158:ALA:N	1:J:159:PRO:CD	2.81	0.43
1:C:109:MET:HE3	1:C:167:GLN:HB3	2.00	0.43
1:J:112:VAL:HG12	1:J:116:ILE:HD11	2.00	0.43
1:D:134:SER:O	1:D:138:GLN:CG	2.65	0.43
1:G:33:VAL:HG23	1:G:34:ASN:N	2.33	0.43
1:B:155:SER:N	1:B:156:PRO:CD	2.82	0.43
1:D:50:PHE:O	1:D:54:ILE:HG13	2.19	0.43
1:F:86:GLN:HG3	1:F:87:PRO:HD2	2.00	0.43
1:I:135:LEU:HD23	2:I:301:ACD:H171	2.00	0.43
1:A:180:SER:O	1:A:181:ILE:HG13	2.17	0.43
1:G:164:LEU:O	1:G:167:GLN:HB2	2.19	0.43
1:H:73:ILE:HD13	1:H:137:LYS:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:157:LEU:CD2	1:E:160:ILE:HD12	2.45	0.43
1:I:155:SER:N	1:I:156:PRO:CD	2.82	0.43
1:I:143:VAL:HG13	1:I:144:THR:N	2.33	0.42
1:J:101:VAL:HG11	2:J:201:ACD:H31	2.00	0.42
1:F:151:SER:HB3	1:G:55:LEU:HD13	2.02	0.42
1:G:118:LYS:HA	1:G:118:LYS:HD3	1.93	0.42
1:H:162:LYS:HD2	1:H:162:LYS:HA	1.88	0.42
1:A:154:PRO:HB2	1:A:156:PRO:HD2	2.02	0.42
1:B:158:ALA:N	1:B:159:PRO:CD	2.83	0.42
1:E:130:GLN:OE1	1:F:93:GLU:OE2	2.37	0.42
1:G:70:ASP:HA	1:G:73:ILE:HG22	2.01	0.42
1:F:78:ASN:O	1:F:82:GLU:HG3	2.20	0.41
2:B:201:ACD:H161	2:B:201:ACD:H132	1.85	0.41
1:E:54:ILE:HD13	1:E:65:LEU:CD2	2.50	0.41
1:F:91:LEU:HD13	1:F:91:LEU:C	2.40	0.41
1:I:73:ILE:CG1	1:I:138:GLN:HE21	2.31	0.41
1:J:36:PHE:HB3	2:J:201:ACD:H14	2.02	0.41
1:C:67:HIS:CE1	1:E:87:PRO:HB2	2.52	0.41
1:G:176:ILE:O	1:G:180:SER:OG	2.38	0.41
1:A:32:ASP:C	1:A:34:ASN:H	2.24	0.41
1:A:32:ASP:C	1:A:34:ASN:N	2.73	0.41
1:A:155:SER:N	1:A:156:PRO:CD	2.84	0.41
1:J:129:PRO:C	1:J:131:VAL:H	2.24	0.41
1:E:163:GLN:HA	1:E:163:GLN:HE21	1.79	0.41
1:C:139:ALA:HA	1:C:172:LEU:HD13	2.02	0.41
1:E:132:LYS:HZ3	1:E:176:ILE:CG2	2.32	0.41
1:I:43:ILE:O	1:I:47:VAL:HG23	2.21	0.41
1:A:120:GLY:HA2	1:F:81:GLN:NE2	2.36	0.41
1:C:105:ASN:HD22	1:C:167:GLN:HE21	1.68	0.41
1:I:108:ILE:CD1	2:I:301:ACD:H41	2.51	0.41
1:D:32:ASP:HB3	1:D:35:VAL:HG23	2.03	0.40
1:J:43:ILE:O	1:J:47:VAL:HG23	2.21	0.40
1:B:95:LEU:CD1	1:I:91:LEU:HD21	2.50	0.40
1:C:33:VAL:HG23	1:C:97:LEU:CD1	2.43	0.40
1:B:32:ASP:HA	3:B:303:HOH:O	2.22	0.40
1:G:128:GLY:N	1:G:129:PRO:CD	2.85	0.40
1:E:164:LEU:HD23	1:E:167:GLN:HE22	1.86	0.40
1:A:33:VAL:CG1	1:A:93:GLU:HG2	2.52	0.40
1:D:158:ALA:N	1:D:159:PRO:CD	2.84	0.40
1:E:154:PRO:HB2	1:E:156:PRO:HD2	2.04	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the sym-

metry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:147:GLU:OE1	1:E:114:HIS:CE1[1_455]	2.04	0.16

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	149/151 (99%)	147 (99%)	2 (1%)	0	100	100
1	B	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
1	C	147/151 (97%)	146 (99%)	1 (1%)	0	100	100
1	D	147/151 (97%)	146 (99%)	1 (1%)	0	100	100
1	E	148/151 (98%)	143 (97%)	5 (3%)	0	100	100
1	F	145/151 (96%)	143 (99%)	2 (1%)	0	100	100
1	G	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
1	H	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
1	I	147/151 (97%)	146 (99%)	1 (1%)	0	100	100
1	J	127/151 (84%)	123 (97%)	3 (2%)	1 (1%)	19	39
All	All	1454/1510 (96%)	1432 (98%)	21 (1%)	1 (0%)	51	75

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	J	64	HIS

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	122/122 (100%)	120 (98%)	2 (2%)	62	82
1	B	121/122 (99%)	121 (100%)	0	100	100
1	C	120/122 (98%)	120 (100%)	0	100	100
1	D	120/122 (98%)	117 (98%)	3 (2%)	47	73
1	E	121/122 (99%)	117 (97%)	4 (3%)	38	64
1	F	118/122 (97%)	116 (98%)	2 (2%)	60	81
1	G	121/122 (99%)	118 (98%)	3 (2%)	47	73
1	H	121/122 (99%)	120 (99%)	1 (1%)	81	92
1	I	120/122 (98%)	119 (99%)	1 (1%)	81	92
1	J	111/122 (91%)	107 (96%)	4 (4%)	35	61
All	All	1195/1220 (98%)	1175 (98%)	20 (2%)	60	81

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	32	ASP
1	A	105	ASN
1	D	146	SER
1	D	151	SER
1	D	163	GLN
1	E	42	ASN
1	E	74	LYS
1	E	78	ASN
1	E	155	SER
1	F	80	LEU
1	F	92	THR
1	G	32	ASP
1	G	105	ASN
1	G	180	SER
1	H	151	SER
1	I	180	SER
1	J	91	LEU
1	J	105	ASN
1	J	130	GLN
1	J	146	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (38)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	105	ASN
1	A	114	HIS
1	B	51	ASN
1	B	114	HIS
1	C	49	GLN
1	C	78	ASN
1	C	102	GLN
1	C	105	ASN
1	C	163	GLN
1	D	67	HIS
1	D	114	HIS
1	D	138	GLN
1	D	163	GLN
1	E	34	ASN
1	E	51	ASN
1	E	114	HIS
1	E	163	GLN
1	F	34	ASN
1	F	51	ASN
1	F	81	GLN
1	F	105	ASN
1	F	114	HIS
1	F	167	GLN
1	G	42	ASN
1	G	86	GLN
1	G	105	ASN
1	G	114	HIS
1	H	51	ASN
1	H	63	ASN
1	H	105	ASN
1	H	114	HIS
1	H	163	GLN
1	H	167	GLN
1	I	163	GLN
1	J	51	ASN
1	J	67	HIS
1	J	81	GLN
1	J	114	HIS

5.3.3 RNA

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](#)

4 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	ACD	I	300	-	21,21,21	0.62	0	21,21,21	0.80	1 (4%)
2	ACD	B	201	-	21,21,21	0.49	0	21,21,21	0.72	0
2	ACD	J	201	-	21,21,21	0.47	0	21,21,21	0.89	1 (4%)
2	ACD	I	301	-	21,21,21	0.77	1 (4%)	21,21,21	0.53	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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ACD	I	300	-	-	7/19/19/19	-
2	ACD	B	201	-	-	4/19/19/19	-
2	ACD	J	201	-	-	8/19/19/19	-
2	ACD	I	301	-	-	3/19/19/19	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	301	ACD	O2-C1	-2.18	1.23	1.30

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	300	ACD	C3-C2-C1	-2.26	108.77	114.47
2	J	201	ACD	O1-C1-C2	-2.01	116.61	123.08

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	I	301	ACD	C6-C7-C8-C9
2	J	201	ACD	C1-C2-C3-C4
2	B	201	ACD	C15-C16-C17-C18
2	I	300	ACD	C1-C2-C3-C4
2	I	300	ACD	C2-C3-C4-C5
2	I	300	ACD	C16-C17-C18-C19
2	B	201	ACD	C2-C3-C4-C5
2	J	201	ACD	C15-C16-C17-C18
2	B	201	ACD	C5-C6-C7-C8
2	I	300	ACD	C9-C10-C11-C12
2	I	301	ACD	C5-C6-C7-C8
2	I	301	ACD	C11-C12-C13-C14
2	J	201	ACD	C12-C13-C14-C15
2	J	201	ACD	C3-C4-C5-C6
2	J	201	ACD	O2-C1-C2-C3
2	J	201	ACD	O1-C1-C2-C3
2	J	201	ACD	C11-C12-C13-C14
2	I	300	ACD	O2-C1-C2-C3
2	I	300	ACD	C14-C15-C16-C17
2	I	300	ACD	O1-C1-C2-C3
2	J	201	ACD	C16-C17-C18-C19
2	B	201	ACD	C3-C4-C5-C6

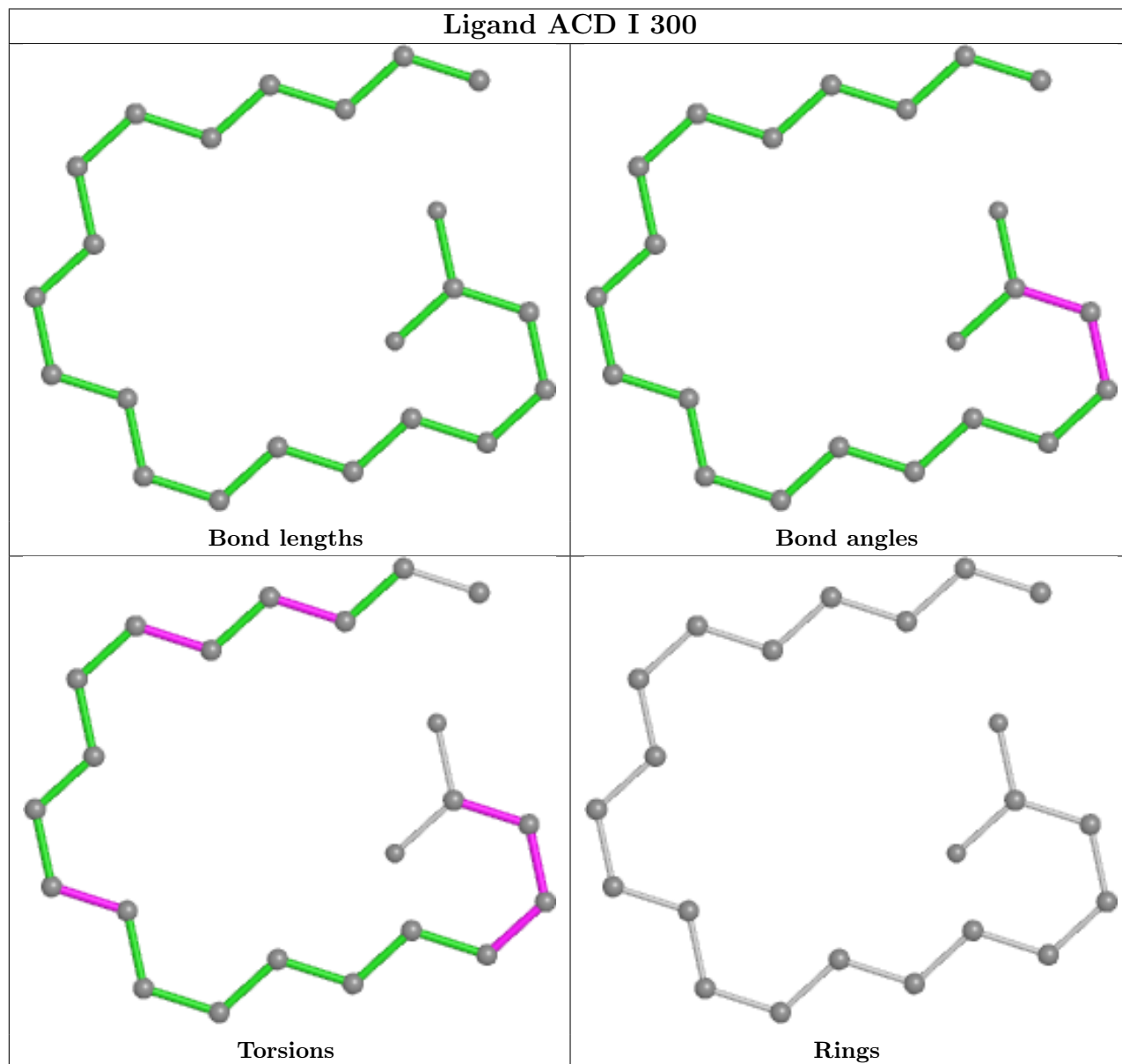
There are no ring outliers.

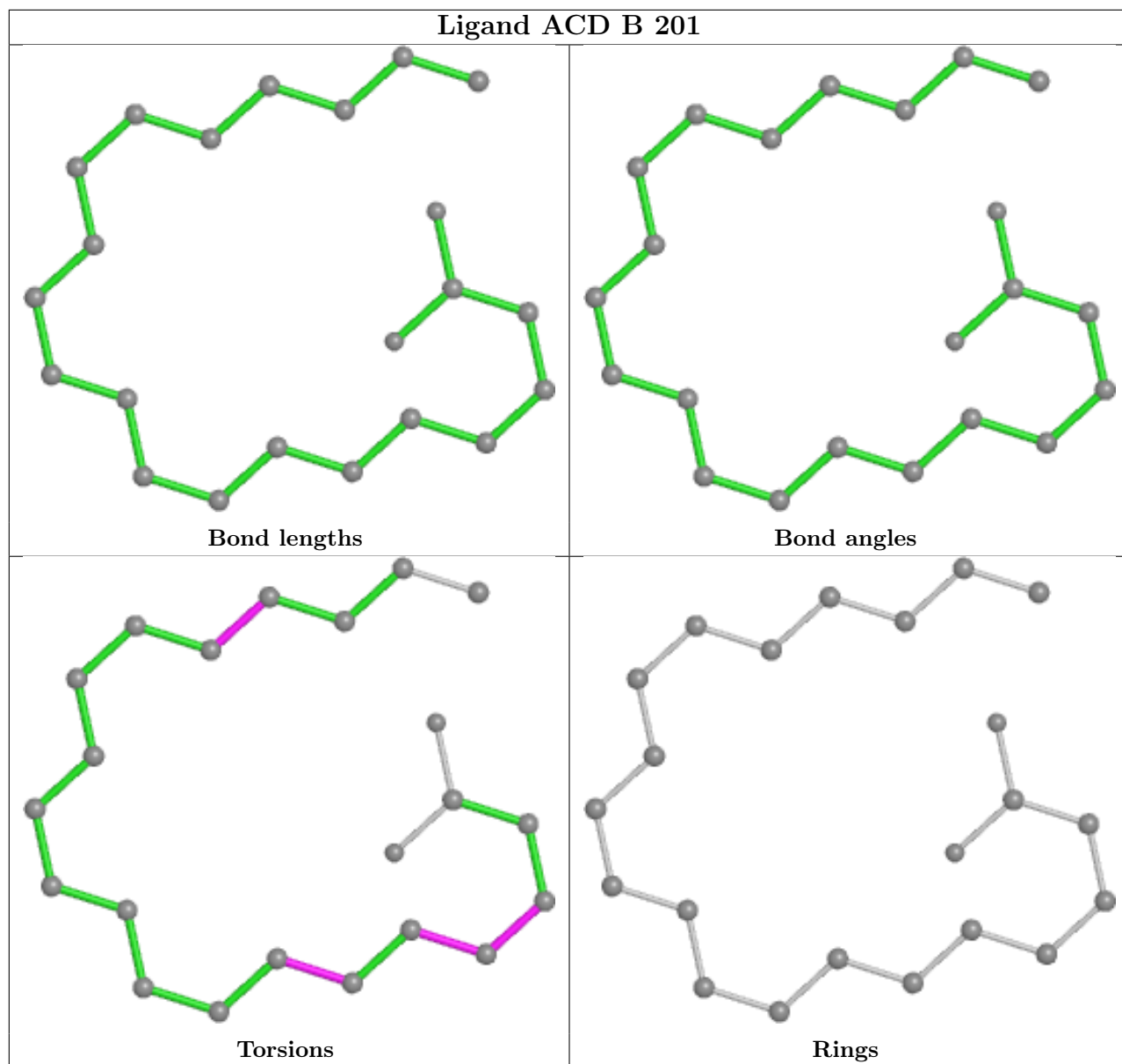
4 monomers are involved in 26 short contacts:

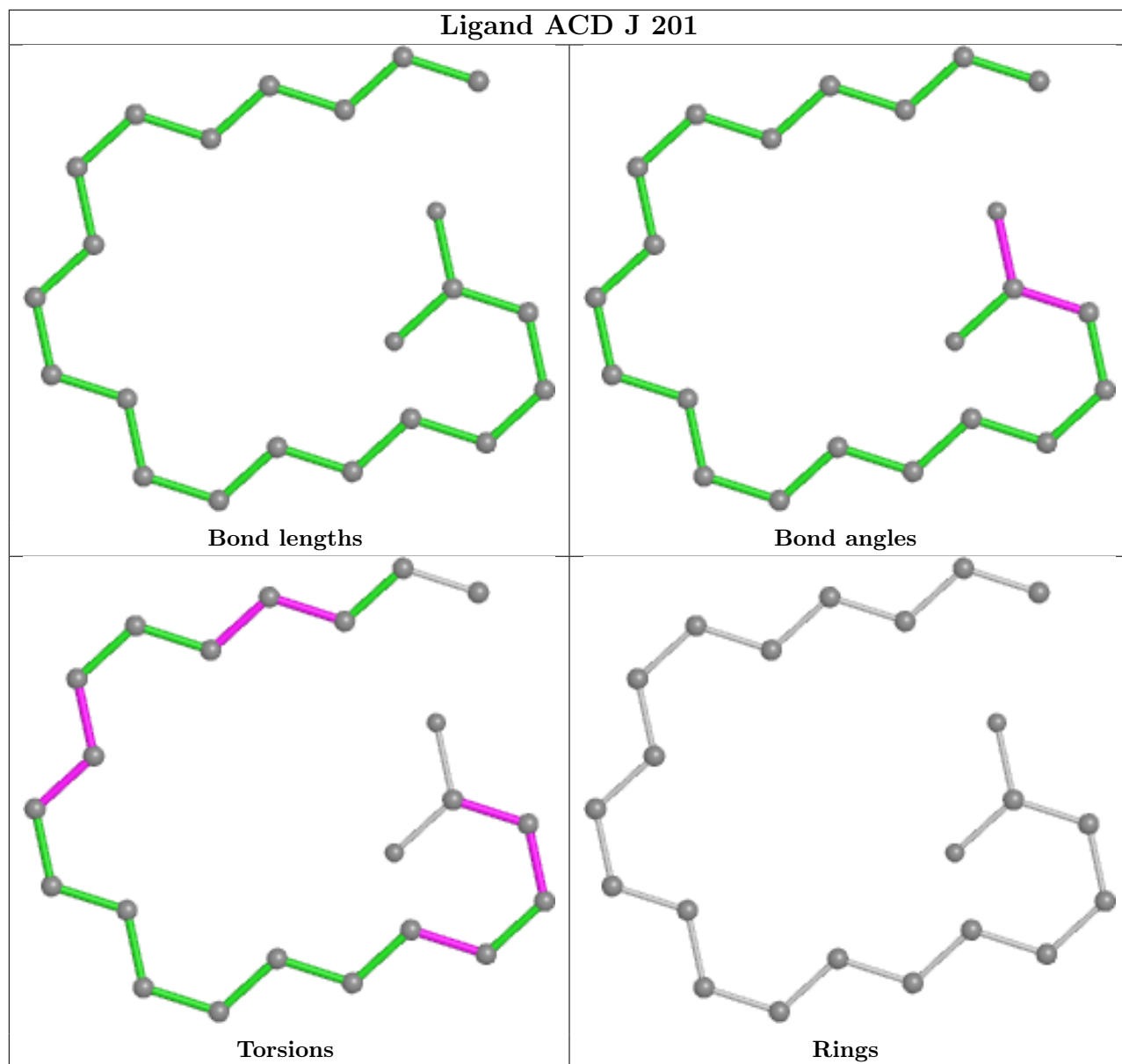
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	I	300	ACD	7	0
2	B	201	ACD	1	0
2	J	201	ACD	10	0
2	I	301	ACD	9	0

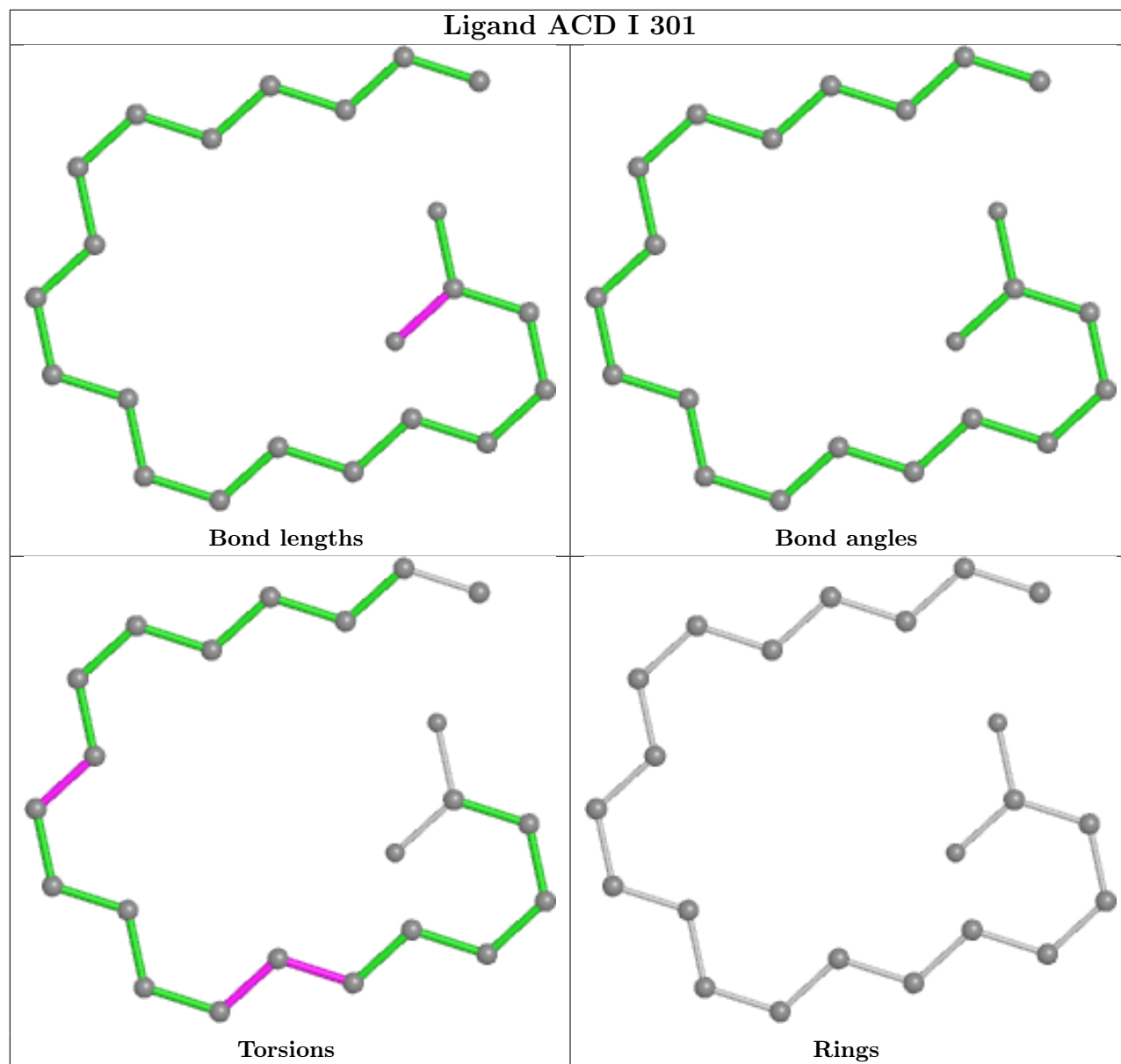
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

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 [\(i\)](#)

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, 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	A	151/151 (100%)	0.03	1 (0%) 87 86	24, 30, 41, 53	0
1	B	150/151 (99%)	0.02	0 100 100	26, 31, 39, 44	0
1	C	149/151 (98%)	0.15	2 (1%) 77 73	36, 41, 49, 56	0
1	D	149/151 (98%)	0.07	0 100 100	25, 33, 43, 47	0
1	E	150/151 (99%)	0.10	0 100 100	32, 38, 46, 48	0
1	F	146/151 (96%)	0.11	1 (0%) 87 86	33, 43, 59, 63	0
1	G	150/151 (99%)	0.17	5 (3%) 46 39	34, 41, 49, 51	0
1	H	149/151 (98%)	0.11	1 (0%) 87 86	24, 36, 51, 56	0
1	I	149/151 (98%)	-0.07	1 (0%) 87 86	29, 38, 48, 58	0
1	J	133/151 (88%)	0.36	11 (8%) 11 8	34, 44, 63, 77	0
All	All	1476/1510 (97%)	0.10	22 (1%) 73 70	24, 38, 52, 77	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	J	115	LEU	5.1
1	J	131	VAL	4.7
1	J	179	PHE	3.8
1	G	124	GLY	3.6
1	J	55	LEU	3.4
1	J	95	LEU	3.4
1	G	65	LEU	3.0
1	C	32	ASP	2.9
1	J	176	ILE	2.8
1	I	125	GLY	2.7
1	G	56	ALA	2.7
1	J	108	ILE	2.6
1	H	33	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	J	174	LYS	2.5
1	J	167	GLN	2.5
1	F	66	ILE	2.4
1	C	156	PRO	2.3
1	J	67	HIS	2.3
1	J	138	GLN	2.3
1	G	123	VAL	2.2
1	A	131	VAL	2.2
1	G	81	GLN	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 monosaccharides in this entry.

6.4 Ligands [\(i\)](#)

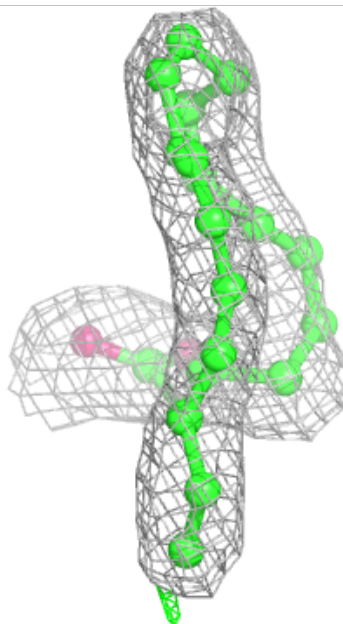
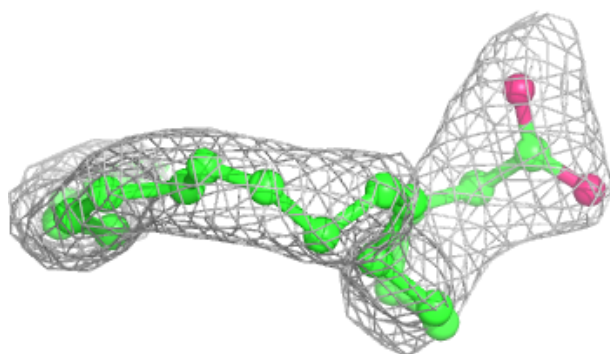
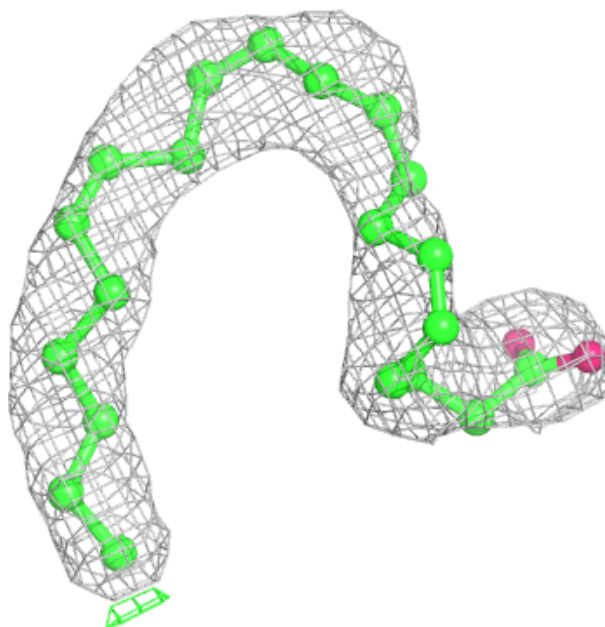
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	ACD	J	201	22/22	0.84	0.27	34,36,37,38	0
2	ACD	I	301	22/22	0.87	0.34	29,29,31,32	0
2	ACD	I	300	22/22	0.87	0.38	30,33,35,36	0
2	ACD	B	201	22/22	0.93	0.34	26,28,30,30	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.

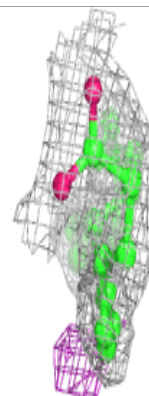
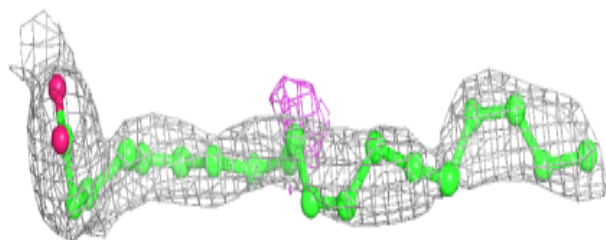
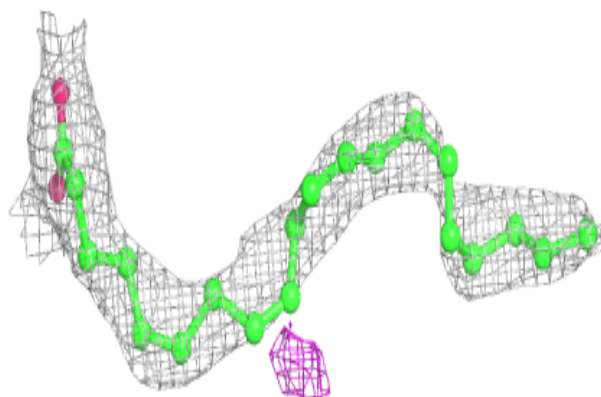
Electron density around ACD J 201:

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



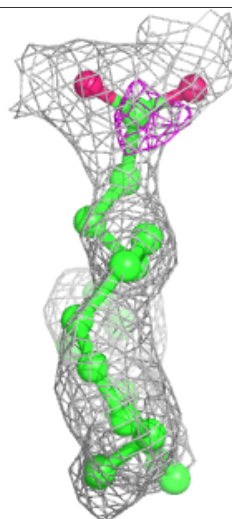
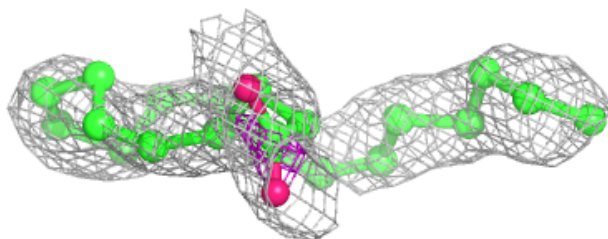
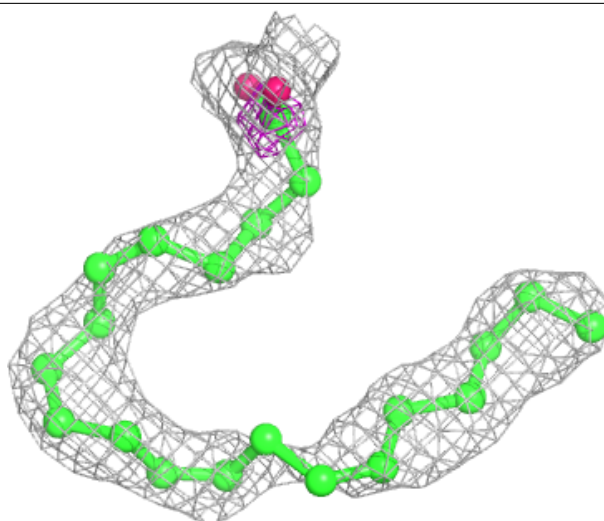
Electron density around ACD I 301:

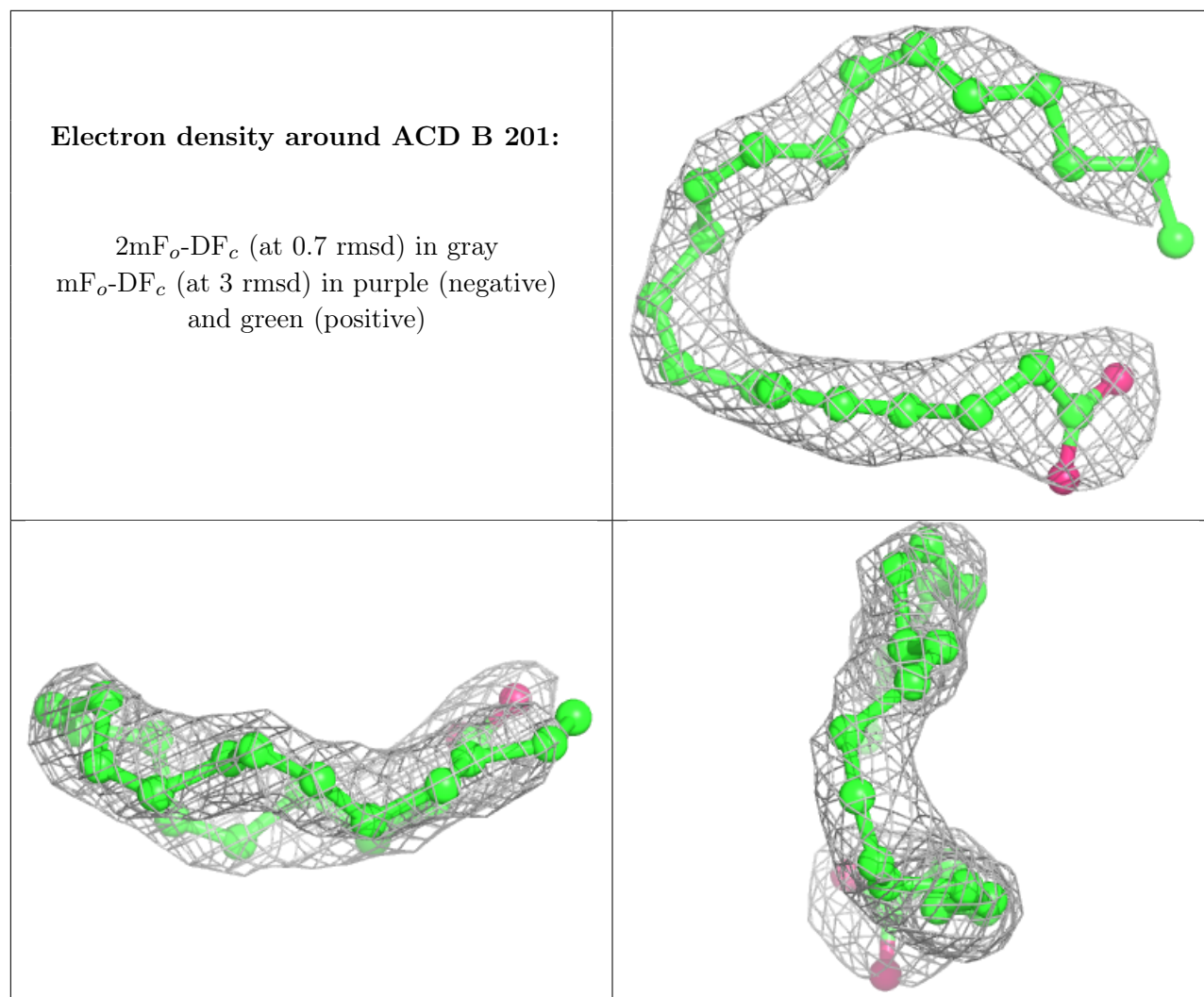
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ACD I 300:

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





6.5 Other polymers [i](#)

There are no such residues in this entry.