



Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 09:43 am BST

PDB ID : 5IB0
Title : PA4534: acetyl CoA complex
Authors : Choe, J.; Shin, S.
Deposited on : 2016-02-22
Resolution : 1.65 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

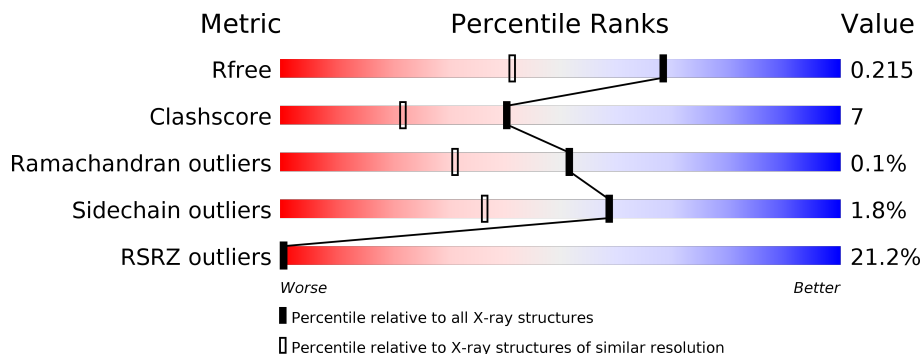
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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.



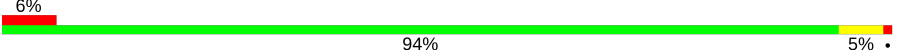
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1827 (1.66-1.66)
Clashscore	141614	1931 (1.66-1.66)
Ramachandran outliers	138981	1891 (1.66-1.66)
Sidechain outliers	138945	1891 (1.66-1.66)
RSRZ outliers	127900	1791 (1.66-1.66)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	137	<div style="display: flex; align-items: center;"> <div style="width: 6%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 86%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 7%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 2%; height: 10px; background-color: orange;"></div> </div> <p style="text-align: center;">92% 7% •</p>
1	B	137	<div style="display: flex; align-items: center;"> <div style="width: 4%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 91%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 5%; height: 10px; background-color: yellow;"></div> </div> <p style="text-align: center;">95% 5%</p>
1	C	137	<div style="display: flex; align-items: center;"> <div style="width: 6%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 87%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 7%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 2%; height: 10px; background-color: orange;"></div> </div> <p style="text-align: center;">93% 7% •</p>
1	D	137	<div style="display: flex; align-items: center;"> <div style="width: 31%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 57%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 9%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 3%; height: 10px; background-color: orange;"></div> </div> <p style="text-align: center;">88% 9% ••</p>
1	E	137	<div style="display: flex; align-items: center;"> <div style="width: 42%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 43%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: yellow; margin-right: 5px;"></div> </div> <p style="text-align: center;">85% 15% •</p>
1	F	137	<div style="display: flex; align-items: center;"> <div style="width: 53%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 24%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 6%; height: 10px; background-color: orange;"></div> </div> <p style="text-align: center;">77% 17% ••</p>

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Mol	Chain	Length	Quality of chain
1	G	137	 6% 94% 5%

2 Entry composition [i](#)

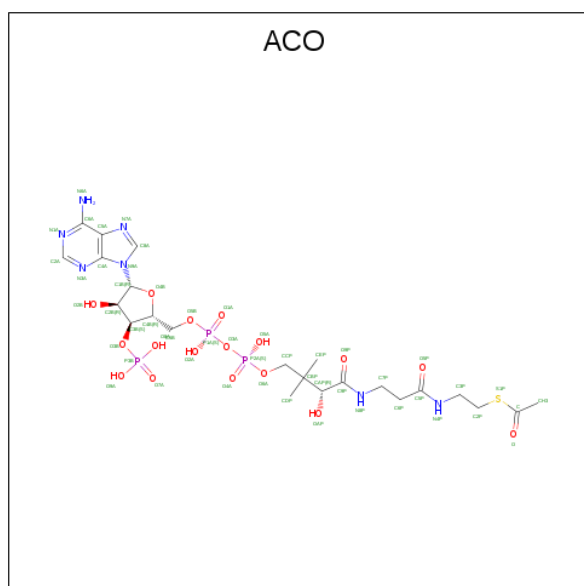
There are 4 unique types of molecules in this entry. The entry contains 8678 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Uncharacterized protein PA4534.

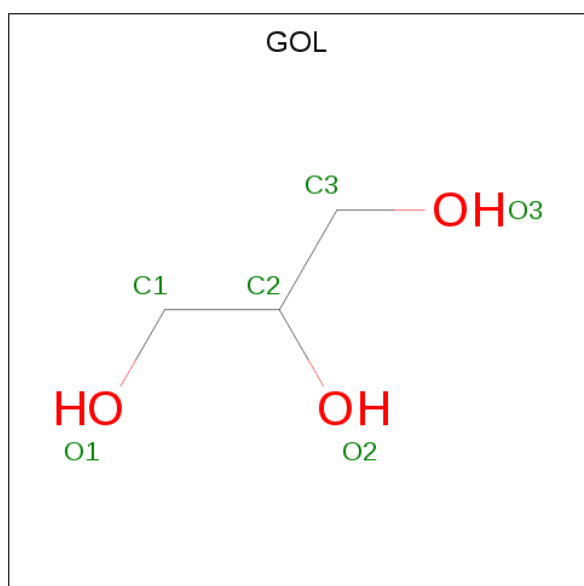
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	137	Total 1126	C 720	N 207	O 195	S 4	0	5	0
1	B	137	Total 1115	C 711	N 206	O 194	S 4	0	3	0
1	C	137	Total 1126	C 720	N 207	O 195	S 4	0	5	0
1	D	137	Total 1109	C 707	N 206	O 192	S 4	0	2	0
1	E	137	Total 1095	C 695	N 205	O 191	S 4	0	0	0
1	F	137	Total 1095	C 695	N 205	O 191	S 4	0	0	0
1	G	137	Total 1095	C 695	N 205	O 191	S 4	0	0	0

- Molecule 2 is ACETYL COENZYME *A (three-letter code: ACO) (formula: $C_{23}H_{38}N_7O_{17}P_3S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
2	A	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	B	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	C	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		
2	G	1	Total	C	N	O	P	S	0	0
			51	23	7	17	3	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	C O	0	0
			6	3 3		
3	A	1	Total	C O	0	0
			6	3 3		
3	A	1	Total	C O	0	0
			6	3 3		
3	A	1	Total	C O	0	0
			6	3 3		
3	B	1	Total	C O	0	0
			6	3 3		
3	C	1	Total	C O	0	0
			6	3 3		
3	D	1	Total	C O	0	0
			6	3 3		

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

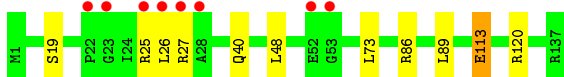
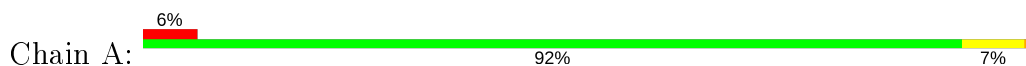
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	129	Total	O	0	0
			129	129		
4	B	138	Total	O	0	0
			138	138		
4	C	109	Total	O	0	0
			109	109		
4	D	56	Total	O	0	0
			56	56		
4	E	38	Total	O	0	0
			38	38		
4	F	24	Total	O	0	0
			24	24		
4	G	159	Total	O	0	0
			159	159		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Uncharacterized protein PA4534



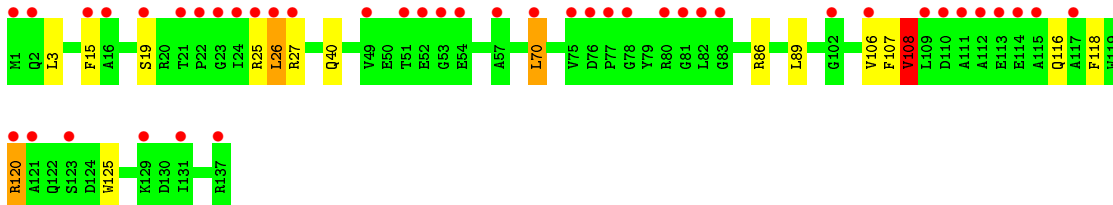
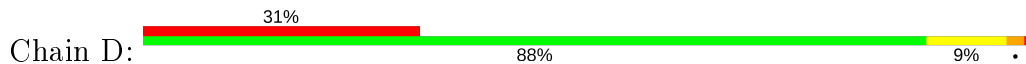
- Molecule 1: Uncharacterized protein PA4534



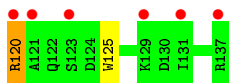
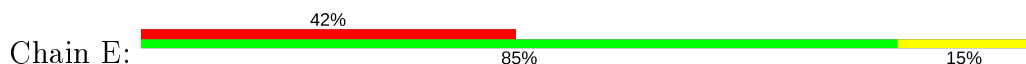
- Molecule 1: Uncharacterized protein PA4534

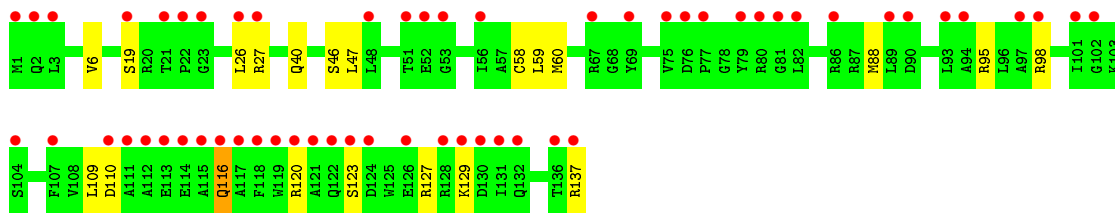


- Molecule 1: Uncharacterized protein PA4534

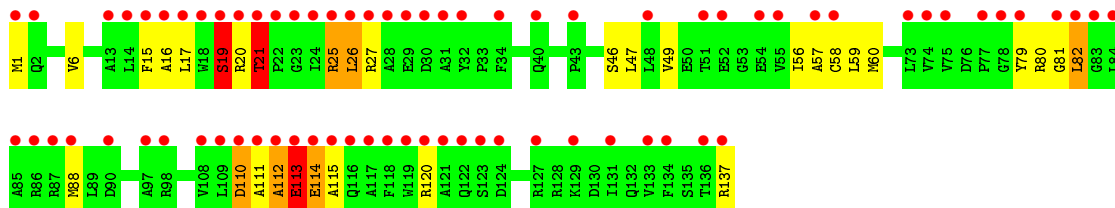
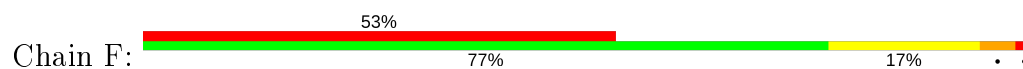


- Molecule 1: Uncharacterized protein PA4534

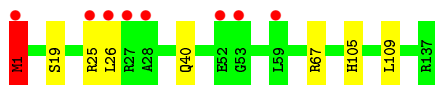




- Molecule 1: Uncharacterized protein PA4534



- Molecule 1: Uncharacterized protein PA4534



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	82.12Å 110.95Å 294.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.65 19.84 – 1.65	Depositor EDS
% Data completeness (in resolution range)	99.2 (50.00-1.65) 99.3 (19.84-1.65)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.98 (at 1.66Å)	Xtrriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.193 , 0.207 0.203 , 0.215	Depositor DCC
R_{free} test set	7981 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	21.4	Xtrriage
Anisotropy	0.173	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 64.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8678	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.78% 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: GOL, ACO

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	0.77	1/1166 (0.1%)	0.90	1/1575 (0.1%)
1	B	0.80	0/1149	1.00	2/1552 (0.1%)
1	C	0.74	0/1166	0.92	5/1575 (0.3%)
1	D	0.60	0/1140	0.98	7/1540 (0.5%)
1	E	0.55	0/1119	0.91	5/1512 (0.3%)
1	F	0.68	0/1119	1.02	8/1512 (0.5%)
1	G	0.87	0/1119	1.01	1/1512 (0.1%)
All	All	0.72	1/7978 (0.0%)	0.96	29/10778 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	F	0	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	113	GLU	CD-OE1	-5.04	1.20	1.25

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	70	LEU	CB-CG-CD1	10.71	129.20	111.00
1	F	25	ARG	NE-CZ-NH1	10.58	125.59	120.30
1	B	25	ARG	NE-CZ-NH1	10.26	125.43	120.30
1	E	120	ARG	NE-CZ-NH1	8.01	124.30	120.30
1	E	137	ARG	NE-CZ-NH1	7.41	124.01	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	70	LEU	CA-CB-CG	7.10	131.63	115.30
1	D	108	VAL	CB-CA-C	7.04	124.79	111.40
1	D	26	LEU	CA-CB-CG	7.00	131.40	115.30
1	B	86	ARG	NE-CZ-NH1	6.97	123.79	120.30
1	D	70	LEU	CB-CG-CD2	-6.94	99.21	111.00
1	D	3	LEU	CB-CG-CD2	6.79	122.55	111.00
1	E	127	ARG	NE-CZ-NH2	-6.78	116.91	120.30
1	E	137	ARG	NE-CZ-NH2	-6.67	116.97	120.30
1	F	114	GLU	N-CA-C	-6.32	93.93	111.00
1	F	21	THR	CA-CB-CG2	-6.05	103.92	112.40
1	F	19	SER	N-CA-C	-5.87	95.16	111.00
1	F	26	LEU	CA-CB-CG	5.85	128.76	115.30
1	G	1	MET	CB-CG-SD	-5.82	94.95	112.40
1	E	127	ARG	NE-CZ-NH1	5.81	123.20	120.30
1	D	120	ARG	CA-CB-CG	5.79	126.14	113.40
1	F	110	ASP	CB-CG-OD2	-5.76	113.12	118.30
1	A	120	ARG	NE-CZ-NH1	5.63	123.12	120.30
1	C	107[A]	PHE	CB-CG-CD1	-5.51	116.95	120.80
1	C	107[B]	PHE	CB-CG-CD1	-5.51	116.95	120.80
1	F	115	ALA	CB-CA-C	5.45	118.27	110.10
1	C	66	ARG	NE-CZ-NH1	5.21	122.91	120.30
1	F	110	ASP	CB-CG-OD1	5.15	122.94	118.30
1	C	107[A]	PHE	CB-CG-CD2	5.01	124.31	120.80
1	C	107[B]	PHE	CB-CG-CD2	5.01	124.31	120.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	F	113	GLU	Peptide

5.2 Too-close contacts [\(i\)](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1126	0	1136	10	0
1	B	1115	0	1117	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	1126	0	1136	10	0
1	D	1109	0	1111	22	0
1	E	1095	0	1094	23	0
1	F	1095	0	1094	48	0
1	G	1095	0	1094	7	0
2	A	51	0	34	2	0
2	B	51	0	34	2	0
2	C	51	0	34	3	0
2	G	51	0	34	0	0
3	A	30	0	40	0	0
3	B	6	0	8	0	0
3	C	6	0	8	0	0
3	D	6	0	8	0	0
3	G	12	0	16	3	0
4	A	129	0	0	0	0
4	B	138	0	0	1	0
4	C	109	0	0	1	0
4	D	56	0	0	0	0
4	E	38	0	0	0	0
4	F	24	0	0	0	0
4	G	159	0	0	1	0
All	All	8678	0	7998	115	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 7.

All (115) 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:F:79:TYR:O	1:F:82:LEU:CD1	1.76	1.32
1:F:79:TYR:O	1:F:82:LEU:HD13	1.35	1.17
1:F:49:VAL:HG22	1:F:57:ALA:HB3	1.27	1.15
1:F:82:LEU:HD12	1:F:82:LEU:N	1.68	1.02
1:F:49:VAL:CG2	1:F:57:ALA:HB3	1.89	1.01
1:F:79:TYR:O	1:F:82:LEU:HD11	1.56	1.01
1:F:79:TYR:C	1:F:82:LEU:HD11	1.84	0.97
1:F:16:ALA:O	1:F:19:SER:O	1.86	0.93
1:F:59:LEU:N	1:F:88:MET:HE1	1.89	0.88
1:F:82:LEU:HD12	1:F:82:LEU:H	1.35	0.86
1:E:109:LEU:O	1:E:116:GLN:OE1	1.95	0.85
1:E:59:LEU:N	1:E:88:MET:HE1	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:40[B]:GLN:HE22	1:E:40:GLN:HE22	1.29	0.80
1:F:82:LEU:CD1	1:F:82:LEU:N	2.46	0.78
1:F:49:VAL:HG22	1:F:57:ALA:CB	2.13	0.76
1:F:17:LEU:O	1:F:21:THR:OG1	2.02	0.76
1:F:46:SER:HB3	1:F:60:MET:HE2	1.68	0.75
1:E:110:ASP:HA	1:E:116:GLN:HE22	1.52	0.73
1:E:46:SER:HB3	1:E:60:MET:HE2	1.69	0.73
1:E:59:LEU:CB	1:E:88:MET:HE1	2.20	0.71
1:F:58:CYS:C	1:F:88:MET:HE1	2.14	0.69
1:F:80:ARG:C	1:F:82:LEU:CD1	2.62	0.68
1:F:82:LEU:CD1	1:F:82:LEU:H	2.08	0.67
1:F:112:ALA:HB1	1:F:114:GLU:HB3	1.76	0.65
1:F:112:ALA:HB1	1:F:114:GLU:CB	2.26	0.65
1:D:40[B]:GLN:NE2	1:E:40:GLN:HE22	1.95	0.64
1:F:59:LEU:CB	1:F:88:MET:HE1	2.28	0.64
1:A:25:ARG:HH11	1:A:25:ARG:HB3	1.62	0.63
1:D:15:PHE:CZ	1:D:26:LEU:HD23	2.33	0.63
1:F:113:GLU:HB3	1:F:114:GLU:HA	1.81	0.62
1:F:80:ARG:C	1:F:82:LEU:HD12	2.19	0.62
1:F:49:VAL:CG2	1:F:57:ALA:CB	2.72	0.62
1:F:49:VAL:HG23	1:F:56:ILE:HG13	1.82	0.61
1:D:116:GLN:HB3	1:D:120:ARG:NH1	2.16	0.59
1:E:123:SER:O	1:F:137:ARG:NH1	2.34	0.59
1:E:47:LEU:O	1:E:88:MET:HE3	2.02	0.59
1:F:47:LEU:O	1:F:88:MET:HE3	2.02	0.59
1:F:25:ARG:HD3	1:F:27:ARG:HH11	1.67	0.59
1:A:25:ARG:NH1	1:A:25:ARG:HB3	2.18	0.58
1:E:59:LEU:N	1:E:88:MET:CE	2.64	0.58
1:F:113:GLU:OE1	1:F:113:GLU:O	2.20	0.58
1:A:25:ARG:HH11	1:A:25:ARG:CB	2.17	0.57
1:D:70:LEU:HD12	1:D:125:TRP:CH2	2.39	0.57
1:F:59:LEU:N	1:F:88:MET:CE	2.66	0.57
1:A:40[A]:GLN:HE22	1:C:40[A]:GLN:HE22	1.52	0.56
1:E:58:CYS:C	1:E:88:MET:HE1	2.24	0.56
1:F:80:ARG:N	1:F:82:LEU:HD11	2.21	0.55
1:F:80:ARG:C	1:F:82:LEU:HD11	2.26	0.55
1:G:67:ARG:HE	3:G:203:GOL:H12	1.71	0.55
1:D:40[B]:GLN:HE22	1:E:40:GLN:NE2	1.98	0.55
1:E:59:LEU:HB3	1:E:88:MET:HE1	1.89	0.55
1:E:6:VAL:HG21	1:E:60:MET:HE1	1.89	0.55
1:C:73:LEU:HB3	2:C:201:ACO:HH33	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:201:ACO:H3B	4:C:354:HOH:O	2.07	0.54
1:C:107[B]:PHE:CE1	1:D:107[B]:PHE:HZ	2.26	0.53
1:D:118:PHE:CD1	1:D:118:PHE:C	2.81	0.53
1:C:19:SER:HA	1:C:26:LEU:HD11	1.92	0.52
1:E:19:SER:HA	1:E:26:LEU:HD11	1.90	0.52
1:A:19:SER:HA	1:A:26:LEU:HD11	1.92	0.52
1:B:73:LEU:HB3	2:B:201:ACO:HH33	1.92	0.51
1:D:25:ARG:HD2	1:D:27:ARG:NH1	2.26	0.51
1:B:40[B]:GLN:HE22	1:G:40:GLN:HE22	1.59	0.49
1:D:15:PHE:CZ	1:D:26:LEU:CD2	2.95	0.49
1:D:70:LEU:HB2	1:D:106:VAL:HG12	1.94	0.49
1:C:107[B]:PHE:HZ	1:D:107[B]:PHE:CE1	2.29	0.49
1:E:95:ARG:HG2	1:E:98:ARG:HH12	1.77	0.49
1:F:15:PHE:CZ	1:F:26:LEU:HD23	2.47	0.49
1:F:6:VAL:HG21	1:F:60:MET:HE1	1.94	0.48
1:A:86:ARG:CZ	1:A:89[A]:LEU:HD23	2.43	0.48
1:B:19:SER:HA	1:B:26:LEU:HD11	1.96	0.48
1:G:67:ARG:HE	3:G:203:GOL:C1	2.27	0.48
1:G:19:SER:HA	1:G:26:LEU:HD11	1.96	0.48
1:F:49:VAL:CG2	1:F:56:ILE:HG13	2.42	0.48
1:C:86:ARG:CZ	1:C:89[A]:LEU:HD23	2.44	0.48
1:F:80:ARG:O	1:F:82:LEU:HD11	2.14	0.48
1:G:25:ARG:HD3	1:G:109:LEU:HD11	1.95	0.47
1:F:49:VAL:HG21	1:F:57:ALA:HB3	1.85	0.47
1:F:59:LEU:HB3	1:F:88:MET:CE	2.45	0.47
1:C:73:LEU:H	2:C:201:ACO:CH3	2.27	0.47
1:D:86:ARG:CZ	1:D:89:LEU:HD23	2.44	0.47
1:F:80:ARG:O	1:F:82:LEU:CD1	2.63	0.46
1:F:19:SER:O	1:F:20:ARG:HG2	2.16	0.46
1:F:80:ARG:CA	1:F:82:LEU:HD11	2.46	0.46
1:E:59:LEU:HB3	1:E:88:MET:CE	2.45	0.45
1:F:81:GLY:N	1:F:82:LEU:HD12	2.31	0.45
1:E:110:ASP:HA	1:E:116:GLN:NE2	2.26	0.45
1:B:129:LYS:NZ	4:B:301:HOH:O	2.50	0.45
1:F:49:VAL:HG23	1:F:56:ILE:CG1	2.46	0.45
1:C:107[B]:PHE:CZ	1:D:107[B]:PHE:CZ	3.06	0.44
1:D:116:GLN:HB3	1:D:120:ARG:HH12	1.81	0.44
1:F:112:ALA:HB1	1:F:114:GLU:HB2	2.00	0.44
1:D:19:SER:HA	1:D:26:LEU:HD11	1.99	0.44
1:E:59:LEU:CA	1:E:88:MET:HE1	2.48	0.44
1:F:110:ASP:OD1	1:F:111:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107[B]:PHE:HE1	1:D:107[B]:PHE:HZ	1.65	0.43
1:E:47:LEU:HB2	1:E:88:MET:HE2	2.00	0.43
1:F:59:LEU:HB3	1:F:88:MET:HE1	1.98	0.43
1:A:73:LEU:HB3	2:A:201:ACO:HH33	2.01	0.43
1:D:25:ARG:CD	1:D:27:ARG:HH11	2.31	0.43
1:F:49:VAL:O	1:F:49:VAL:HG23	2.20	0.42
1:E:58:CYS:HA	1:E:88:MET:HE3	2.01	0.42
1:E:58:CYS:C	1:E:88:MET:CE	2.88	0.42
1:B:73:LEU:H	2:B:201:ACO:CH3	2.33	0.41
1:D:25:ARG:CD	1:D:27:ARG:NH1	2.83	0.41
1:F:79:TYR:HA	1:F:82:LEU:HD21	2.01	0.41
1:E:110:ASP:CA	1:E:116:GLN:HE22	2.27	0.41
1:A:25:ARG:NH2	1:A:27:ARG:CZ	2.83	0.41
1:A:48:LEU:HD12	1:A:48:LEU:C	2.41	0.41
1:F:17:LEU:O	1:F:19:SER:O	2.38	0.41
1:G:105:HIS:NE2	3:G:203:GOL:H12	2.36	0.41
1:D:70:LEU:HD12	1:D:125:TRP:CZ2	2.56	0.40
1:A:73:LEU:H	2:A:201:ACO:CH3	2.34	0.40
1:C:107[B]:PHE:CZ	1:D:107[B]:PHE:CE1	3.09	0.40
1:G:1:MET:N	4:G:305:HOH:O	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	140/137 (102%)	139 (99%)	1 (1%)	0	100	100
1	B	138/137 (101%)	137 (99%)	1 (1%)	0	100	100
1	C	140/137 (102%)	139 (99%)	1 (1%)	0	100	100
1	D	137/137 (100%)	136 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	135/137 (98%)	134 (99%)	1 (1%)	0	100	100
1	F	135/137 (98%)	131 (97%)	3 (2%)	1 (1%)	22	6
1	G	135/137 (98%)	134 (99%)	1 (1%)	0	100	100
All	All	960/959 (100%)	950 (99%)	9 (1%)	1 (0%)	51	31

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	112	ALA

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	114/109 (105%)	113 (99%)	1 (1%)	78	66
1	B	112/109 (103%)	112 (100%)	0	100	100
1	C	114/109 (105%)	112 (98%)	2 (2%)	59	36
1	D	111/109 (102%)	110 (99%)	1 (1%)	78	66
1	E	109/109 (100%)	106 (97%)	3 (3%)	43	18
1	F	109/109 (100%)	103 (94%)	6 (6%)	21	4
1	G	109/109 (100%)	108 (99%)	1 (1%)	78	66
All	All	778/763 (102%)	764 (98%)	14 (2%)	59	36

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	113	GLU
1	C	27	ARG
1	C	114	GLU
1	D	108	VAL
1	E	27	ARG
1	E	116	GLN

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Mol	Chain	Res	Type
1	E	129	LYS
1	F	1	MET
1	F	19	SER
1	F	21	THR
1	F	82	LEU
1	F	113	GLU
1	F	120	ARG
1	G	1	MET

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

Mol	Chain	Res	Type
1	E	116	GLN
1	G	2	GLN
1	G	40	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

14 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
3	GOL	A	205	-	5,5,5	0.26	0	5,5,5	0.41	0
3	GOL	G	202	-	5,5,5	0.17	0	5,5,5	0.58	0
3	GOL	G	203	-	5,5,5	0.67	0	5,5,5	0.93	0
3	GOL	A	206	-	5,5,5	0.21	0	5,5,5	0.94	0
2	ACO	C	201	-	45,53,53	1.08	4 (8%)	56,79,79	1.33	8 (14%)
3	GOL	A	202	-	5,5,5	0.38	0	5,5,5	0.38	0
2	ACO	G	201	-	45,53,53	1.16	4 (8%)	56,79,79	1.17	5 (8%)
2	ACO	A	201	-	45,53,53	1.05	3 (6%)	56,79,79	1.10	3 (5%)
2	ACO	B	201	-	45,53,53	1.04	4 (8%)	56,79,79	1.22	7 (12%)
3	GOL	A	204	-	5,5,5	0.40	0	5,5,5	0.65	0
3	GOL	A	203	-	5,5,5	0.21	0	5,5,5	0.43	0
3	GOL	C	202	-	5,5,5	0.13	0	5,5,5	0.71	0
3	GOL	B	202	-	5,5,5	0.31	0	5,5,5	0.80	0
3	GOL	D	201	-	5,5,5	0.27	0	5,5,5	0.62	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	A	205	-	-	0/4/4/4	-
3	GOL	G	202	-	-	3/4/4/4	-
3	GOL	G	203	-	-	4/4/4/4	-
3	GOL	A	206	-	-	2/4/4/4	-
2	ACO	C	201	-	-	6/47/67/67	0/3/3/3
3	GOL	A	202	-	-	0/4/4/4	-
2	ACO	G	201	-	-	4/47/67/67	0/3/3/3
2	ACO	A	201	-	-	6/47/67/67	0/3/3/3
2	ACO	B	201	-	-	5/47/67/67	0/3/3/3
3	GOL	A	204	-	-	0/4/4/4	-
3	GOL	A	203	-	-	0/4/4/4	-
3	GOL	C	202	-	-	3/4/4/4	-
3	GOL	B	202	-	-	0/4/4/4	-
3	GOL	D	201	-	-	2/4/4/4	-

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	201	ACO	P3B-O3B	2.80	1.64	1.59
2	C	201	ACO	O4B-C1B	2.70	1.44	1.41
2	A	201	ACO	O4B-C1B	2.53	1.44	1.41
2	G	201	ACO	OAP-CAP	2.52	1.46	1.42
2	C	201	ACO	C5A-C4A	2.44	1.47	1.40
2	G	201	ACO	P2A-O5A	-2.42	1.43	1.55
2	C	201	ACO	C2A-N3A	2.40	1.36	1.32
2	B	201	ACO	O4B-C1B	2.33	1.44	1.41
2	B	201	ACO	C5A-C4A	2.26	1.46	1.40
2	G	201	ACO	O4B-C1B	2.21	1.44	1.41
2	C	201	ACO	OAP-CAP	2.16	1.46	1.42
2	A	201	ACO	OAP-CAP	2.12	1.46	1.42
2	G	201	ACO	C2A-N3A	2.03	1.35	1.32
2	B	201	ACO	C2A-N3A	2.03	1.35	1.32
2	B	201	ACO	C2B-C1B	-2.01	1.50	1.53

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	201	ACO	N3A-C2A-N1A	-4.53	121.60	128.68
2	G	201	ACO	N3A-C2A-N1A	-4.22	122.09	128.68
2	C	201	ACO	N3A-C2A-N1A	-3.91	122.56	128.68
2	A	201	ACO	N3A-C2A-N1A	-3.59	123.06	128.68
2	B	201	ACO	C2A-N1A-C6A	2.90	123.71	118.75
2	G	201	ACO	C3B-C2B-C1B	2.72	105.92	99.89
2	C	201	ACO	O3B-C3B-C4B	2.63	119.59	110.08
2	C	201	ACO	C3B-C2B-C1B	2.62	105.69	99.89
2	B	201	ACO	CEP-CBP-CAP	2.59	113.31	108.82
2	B	201	ACO	O9P-C9P-N8P	2.52	128.41	122.99
2	C	201	ACO	O5A-P2A-O4A	2.47	124.47	112.24
2	G	201	ACO	C2A-N1A-C6A	2.41	122.87	118.75
2	A	201	ACO	C4A-C5A-N7A	-2.40	106.90	109.40
2	C	201	ACO	C4A-C5A-N7A	-2.35	106.95	109.40
2	B	201	ACO	O5A-P2A-O4A	2.31	123.67	112.24
2	A	201	ACO	C3B-C2B-C1B	2.31	105.01	99.89
2	C	201	ACO	O5B-P1A-O1A	2.27	117.94	109.07
2	G	201	ACO	CEP-CBP-CAP	2.15	112.56	108.82
2	B	201	ACO	C3B-C2B-C1B	2.11	104.57	99.89
2	G	201	ACO	C4A-C5A-N7A	-2.05	107.27	109.40
2	C	201	ACO	C5B-C4B-C3B	-2.05	107.62	114.40
2	B	201	ACO	C1B-N9A-C4A	-2.03	123.07	126.64
2	C	201	ACO	O9A-P3B-O8A	2.03	115.40	107.64

There are no chirality outliers.

All (35) torsion outliers are listed below:

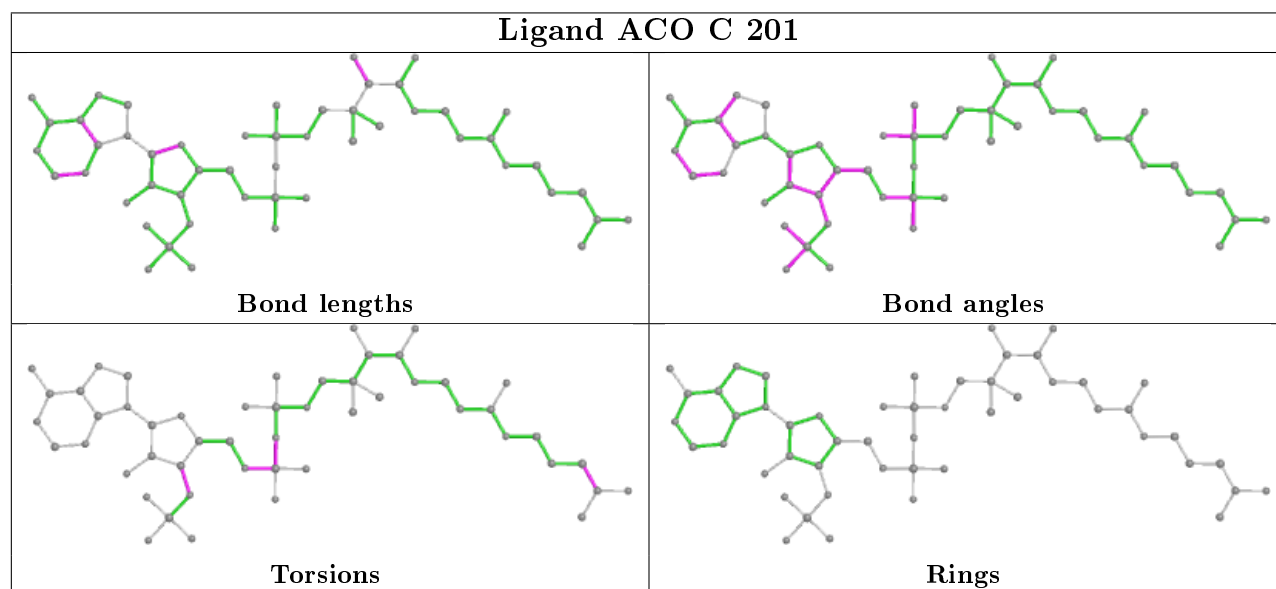
Mol	Chain	Res	Type	Atoms
3	G	202	GOL	C1-C2-C3-O3
3	G	202	GOL	O2-C2-C3-O3
3	G	203	GOL	C1-C2-C3-O3
3	G	203	GOL	O2-C2-C3-O3
3	A	206	GOL	C1-C2-C3-O3
2	C	201	ACO	C4B-C3B-O3B-P3B
2	C	201	ACO	C5B-O5B-P1A-O3A
2	C	201	ACO	O-C-S1P-C2P
2	C	201	ACO	CH3-C-S1P-C2P
2	G	201	ACO	C5B-O5B-P1A-O3A
2	A	201	ACO	C5B-O5B-P1A-O3A
2	A	201	ACO	O-C-S1P-C2P
2	A	201	ACO	CH3-C-S1P-C2P
2	B	201	ACO	C3B-O3B-P3B-O8A
2	B	201	ACO	C5B-O5B-P1A-O3A
2	B	201	ACO	O-C-S1P-C2P
2	B	201	ACO	CH3-C-S1P-C2P
3	C	202	GOL	O1-C1-C2-C3
3	G	203	GOL	O1-C1-C2-O2
3	G	203	GOL	O1-C1-C2-C3
3	C	202	GOL	O1-C1-C2-O2
3	A	206	GOL	O2-C2-C3-O3
3	D	201	GOL	O2-C2-C3-O3
2	C	201	ACO	C5B-O5B-P1A-O1A
2	G	201	ACO	C5B-O5B-P1A-O1A
2	A	201	ACO	C5B-O5B-P1A-O1A
2	B	201	ACO	C5B-O5B-P1A-O1A
2	G	201	ACO	P2A-O3A-P1A-O1A
2	A	201	ACO	P2A-O3A-P1A-O1A
3	D	201	GOL	C1-C2-C3-O3
2	A	201	ACO	C3B-O3B-P3B-O9A
2	C	201	ACO	P2A-O3A-P1A-O2A
2	G	201	ACO	P2A-O3A-P1A-O2A
3	G	202	GOL	O1-C1-C2-C3
3	C	202	GOL	C1-C2-C3-O3

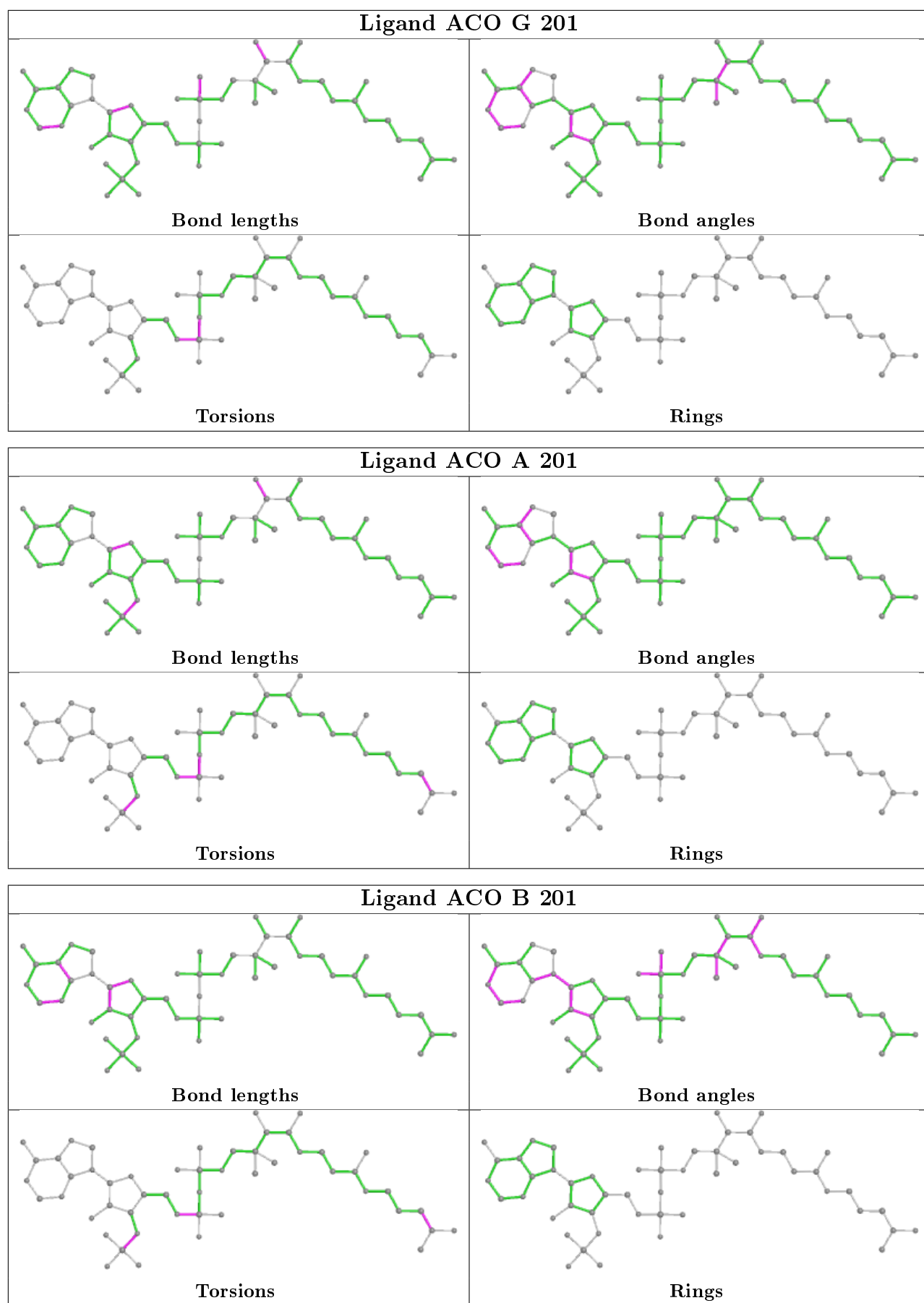
There are no ring outliers.

4 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	203	GOL	3	0
2	C	201	ACO	3	0
2	A	201	ACO	2	0
2	B	201	ACO	2	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	137/137 (100%)	0.33	8 (5%) 23 22	14, 24, 49, 71	0
1	B	137/137 (100%)	0.26	6 (4%) 34 34	13, 22, 48, 76	0
1	C	137/137 (100%)	0.48	8 (5%) 23 22	13, 31, 74, 90	0
1	D	137/137 (100%)	1.61	43 (31%) 0 0	22, 56, 100, 122	0
1	E	137/137 (100%)	1.93	57 (41%) 0 0	27, 67, 114, 128	0
1	F	137/137 (100%)	2.85	73 (53%) 0 0	41, 83, 142, 173	0
1	G	137/137 (100%)	0.23	8 (5%) 23 22	12, 20, 44, 77	0
All	All	959/959 (100%)	1.10	203 (21%) 0 0	12, 38, 105, 173	0

All (203) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	26	LEU	11.8
1	F	22	PRO	11.6
1	D	111	ALA	11.0
1	F	115	ALA	10.9
1	F	25	ARG	9.5
1	F	109	LEU	9.4
1	F	23	GLY	8.8
1	D	82	LEU	8.8
1	F	29	GLU	8.5
1	F	82	LEU	8.4
1	E	131	ILE	8.1
1	F	83	GLY	7.9
1	E	137	ARG	7.6
1	D	25	ARG	7.5
1	F	21	THR	7.4
1	F	112	ALA	7.3
1	E	123	SER	7.3

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Mol	Chain	Res	Type	RSRZ
1	F	24	ILE	7.1
1	F	110	ASP	7.1
1	F	111	ALA	7.0
1	E	23	GLY	6.8
1	D	112	ALA	6.7
1	F	19	SER	6.4
1	D	26	LEU	6.3
1	F	52	GLU	6.1
1	E	22	PRO	6.1
1	E	129	LYS	5.8
1	F	2	GLN	5.8
1	F	86	ARG	5.8
1	D	110	ASP	5.8
1	C	129	LYS	5.7
1	F	113	GLU	5.7
1	D	81	GLY	5.6
1	F	27	ARG	5.3
1	D	23	GLY	5.2
1	E	81	GLY	5.2
1	E	77	PRO	5.1
1	F	117	ALA	5.1
1	E	52	GLU	5.1
1	D	52	GLU	5.1
1	F	133	VAL	5.1
1	F	114	GLU	4.9
1	F	15	PHE	4.9
1	D	78	GLY	4.8
1	D	80	ARG	4.8
1	D	53	GLY	4.7
1	F	137	ARG	4.7
1	E	119	TRP	4.6
1	D	22	PRO	4.6
1	D	24	ILE	4.6
1	D	120	ARG	4.6
1	F	57	ALA	4.5
1	E	2	GLN	4.5
1	D	114	GLU	4.5
1	F	16	ALA	4.5
1	F	51	THR	4.5
1	E	121	ALA	4.4
1	F	30	ASP	4.3
1	F	79	TYR	4.3

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Mol	Chain	Res	Type	RSRZ
1	F	1	MET	4.3
1	C	137	ARG	4.2
1	E	113	GLU	4.2
1	D	129	LYS	4.2
1	D	19	SER	4.2
1	F	123	SER	4.2
1	D	77	PRO	4.2
1	D	21	THR	4.1
1	E	110	ASP	4.1
1	D	123	SER	4.0
1	F	129	LYS	4.0
1	A	25	ARG	4.0
1	E	79	TYR	4.0
1	E	130	ASP	4.0
1	F	134	PHE	3.8
1	D	117	ALA	3.8
1	G	26	LEU	3.8
1	B	52	GLU	3.8
1	F	84	LEU	3.8
1	F	81	GLY	3.8
1	E	115	ALA	3.8
1	E	21	THR	3.7
1	B	25	ARG	3.7
1	D	121	ALA	3.7
1	E	27	ARG	3.7
1	E	132	GLN	3.7
1	F	14	LEU	3.6
1	F	17	LEU	3.6
1	E	1	MET	3.6
1	G	52	GLU	3.6
1	E	120	ARG	3.5
1	E	89	LEU	3.5
1	F	58	CYS	3.5
1	F	121	ALA	3.5
1	E	3	LEU	3.5
1	E	101	ILE	3.5
1	E	107	PHE	3.5
1	F	136	THR	3.5
1	F	87	ARG	3.5
1	E	97	ALA	3.4
1	D	109	LEU	3.4
1	F	108	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	F	124	ASP	3.4
1	F	131	ILE	3.4
1	F	28	ALA	3.3
1	F	127	ARG	3.3
1	E	82	LEU	3.3
1	D	113	GLU	3.3
1	G	1	MET	3.3
1	D	27	ARG	3.3
1	B	26	LEU	3.3
1	E	116	GLN	3.3
1	F	78	GLY	3.3
1	F	75	VAL	3.3
1	E	76	ASP	3.2
1	F	118	PHE	3.2
1	E	122	GLN	3.2
1	F	77	PRO	3.2
1	A	52	GLU	3.2
1	F	116	GLN	3.1
1	F	122	GLN	3.1
1	C	52	GLU	3.1
1	F	34	PHE	3.1
1	D	83	GLY	3.1
1	E	26	LEU	3.1
1	E	48	LEU	3.0
1	E	67	ARG	3.0
1	F	120	ARG	3.0
1	A	27	ARG	2.9
1	E	118	PHE	2.9
1	A	28	ALA	2.9
1	E	51	THR	2.9
1	F	20	ARG	2.8
1	E	124	ASP	2.8
1	F	119	TRP	2.8
1	E	126	GLU	2.8
1	F	73	LEU	2.8
1	B	27	ARG	2.8
1	D	131	ILE	2.8
1	C	133	VAL	2.8
1	D	16	ALA	2.8
1	C	131	ILE	2.7
1	F	18	TRP	2.7
1	E	75	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	D	2	GLN	2.7
1	E	80	ARG	2.7
1	D	57	ALA	2.7
1	A	23	GLY	2.7
1	G	25	ARG	2.7
1	E	93	LEU	2.7
1	E	86	ARG	2.6
1	B	53	GLY	2.6
1	A	22	PRO	2.6
1	B	23	GLY	2.6
1	F	31	ALA	2.6
1	G	28	ALA	2.6
1	E	114	GLU	2.6
1	F	54	GLU	2.6
1	E	128	ARG	2.6
1	D	51	THR	2.6
1	E	136	THR	2.6
1	F	90	ASP	2.6
1	A	53	GLY	2.6
1	D	102	GLY	2.5
1	D	75	VAL	2.5
1	D	115	ALA	2.5
1	F	13	ALA	2.5
1	D	76	ASP	2.5
1	E	69	TYR	2.5
1	G	53	GLY	2.4
1	E	102	GLY	2.4
1	G	59	LEU	2.3
1	E	98	ARG	2.3
1	F	97	ALA	2.3
1	F	43	PRO	2.3
1	E	53	GLY	2.3
1	A	26	LEU	2.3
1	F	32	TYR	2.3
1	G	27	ARG	2.2
1	F	48	LEU	2.2
1	E	56	ILE	2.2
1	F	88	MET	2.2
1	C	132	GLN	2.2
1	E	90	ASP	2.2
1	E	94	ALA	2.2
1	E	112	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	40	GLN	2.1
1	F	98	ARG	2.1
1	D	1	MET	2.1
1	D	54	GLU	2.1
1	C	136	THR	2.1
1	E	104	SER	2.1
1	F	74	VAL	2.1
1	C	2	GLN	2.1
1	D	106	VAL	2.1
1	E	111	ALA	2.1
1	F	85	ALA	2.1
1	E	117	ALA	2.1
1	F	55	VAL	2.0
1	D	70	LEU	2.0
1	D	137	ARG	2.0
1	E	19	SER	2.0
1	D	49	VAL	2.0
1	D	15	PHE	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 carbohydrates in this entry.

6.4 Ligands [i](#)

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

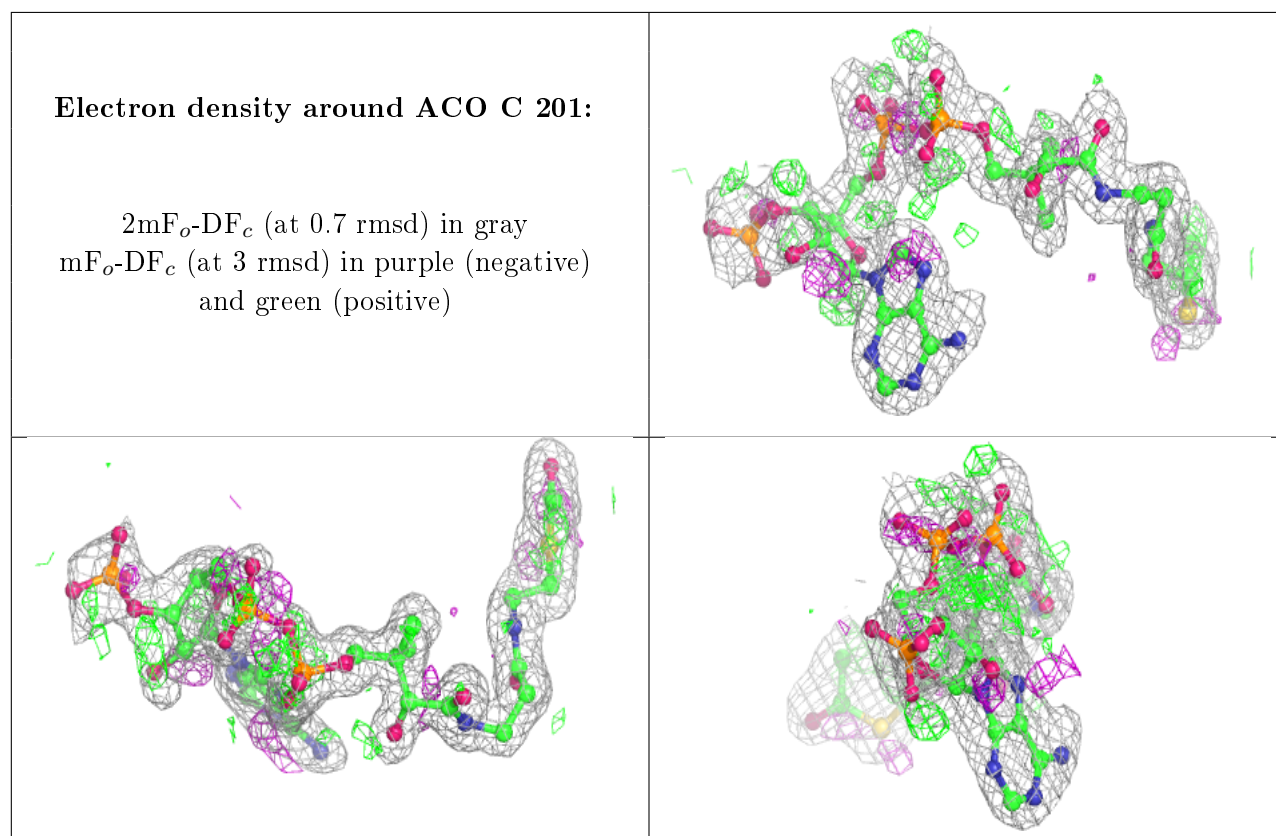
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	GOL	A	202	6/6	0.69	0.16	32,45,54,62	0
3	GOL	A	204	6/6	0.69	0.15	36,38,50,59	0
3	GOL	A	205	6/6	0.70	0.31	40,59,72,75	0
3	GOL	G	203	6/6	0.83	0.14	23,28,38,55	0
2	ACO	C	201	51/51	0.89	0.13	22,33,62,78	0

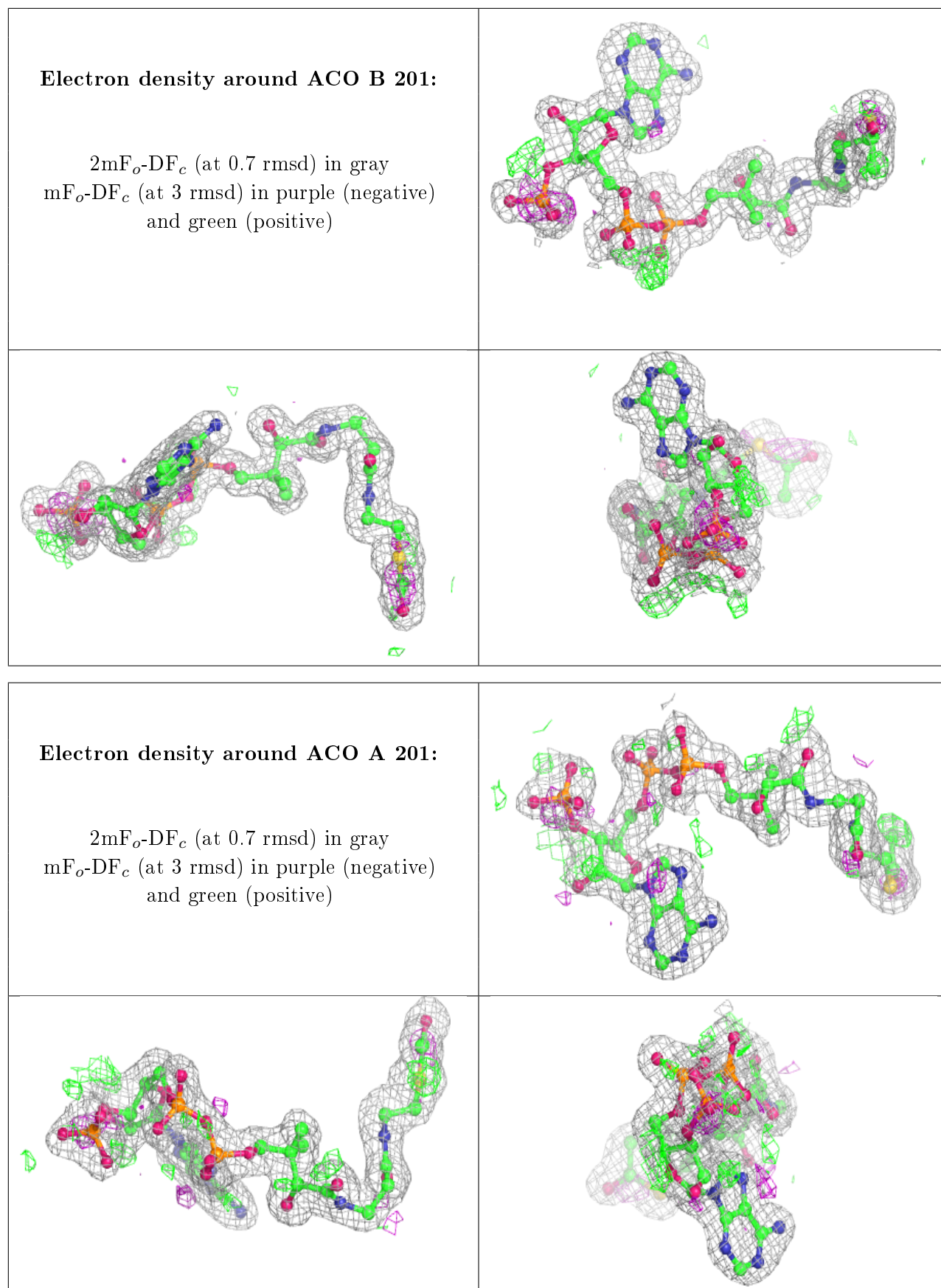
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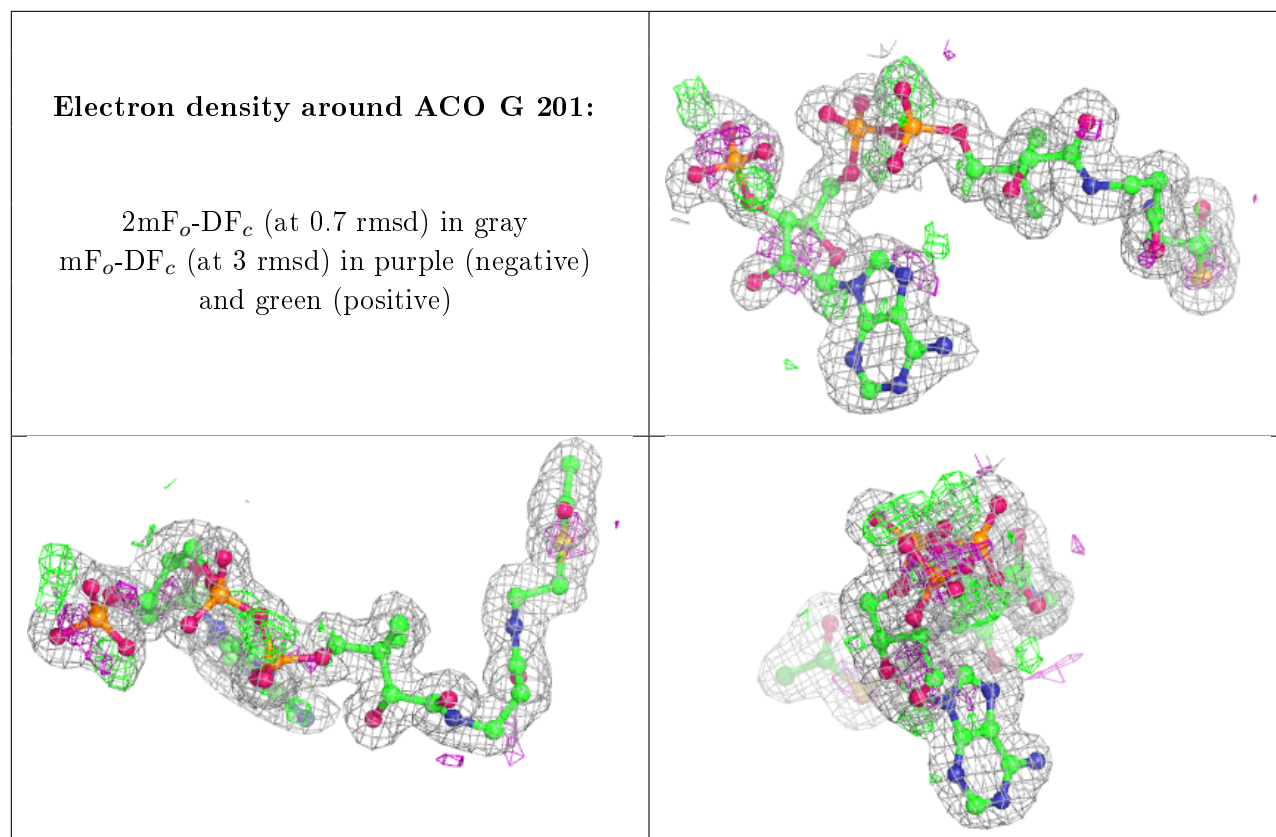
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	GOL	G	202	6/6	0.90	0.12	31,38,43,44	0
3	GOL	A	203	6/6	0.90	0.17	36,38,49,50	0
3	GOL	D	201	6/6	0.90	0.12	33,43,47,58	0
3	GOL	A	206	6/6	0.92	0.12	33,43,45,47	0
3	GOL	B	202	6/6	0.93	0.13	34,37,43,52	0
3	GOL	C	202	6/6	0.93	0.11	28,38,43,47	0
2	ACO	B	201	51/51	0.94	0.09	20,25,35,39	0
2	ACO	A	201	51/51	0.94	0.10	22,30,49,57	0
2	ACO	G	201	51/51	0.95	0.10	15,23,36,39	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.







6.5 Other polymers [i](#)

There are no such residues in this entry.