



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 17, 2026 – 02:12 AM UTC

PDB ID : 4V53 / pdb_00004v53
Title : Crystal structure of the bacterial ribosome from Escherichia coli in complex with gentamicin.
Authors : Borovinskaya, M.A.; Pai, R.D.; Zhang, W.; Schuwirth, B.-S.; Holton, J.M.; Hirokawa, G.; Kaji, H.; Kaji, A.; Cate, J.H.D.
Deposited on : 2007-06-16
Resolution : 3.54 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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	:	FAILED
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
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)	:	2.48.1

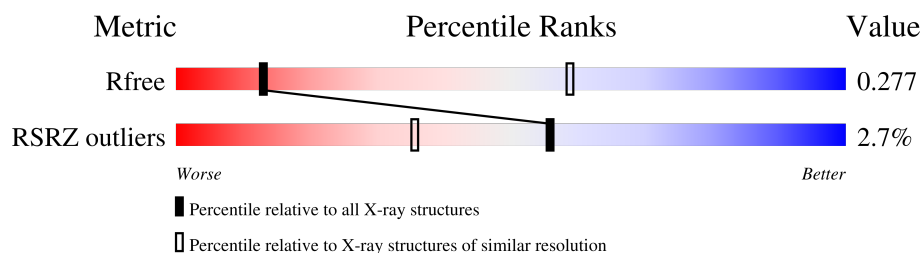
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.54 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}	164625	1272 (3.60-3.48)
RSRZ outliers	164620	1271 (3.60-3.48)

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 284252 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 RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1530	Total	C	N	O	P	0	0	0
			32831	14642	6024	10635	1530			
1	CA	1530	Total	C	N	O	P	0	0	0
			32831	14642	6024	10635	1530			

- Molecule 2 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AC	206	Total	C	N	O	S	0	0	0
			1624	1028	305	288	3			
2	CC	206	Total	C	N	O	S	0	0	0
			1624	1028	305	288	3			

- Molecule 3 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			
3	CD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			

- Molecule 4 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AE	150	Total	C	N	O	S	0	0	0
			1105	687	211	201	6			
4	CE	150	Total	C	N	O	S	0	0	0
			1105	687	211	201	6			

- Molecule 5 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AF	100	Total	C	N	O	S	0	0	0
			817	515	148	148	6			
5	CF	100	Total	C	N	O	S	0	0	0
			817	515	148	148	6			

- Molecule 6 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AG	150	Total	C	N	O	S	0	0	0
			1174	730	226	214	4			
6	CG	152	Total	C	N	O	S	0	0	0
			1196	745	230	217	4			

- Molecule 7 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			
7	CH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			

- Molecule 8 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			
8	CI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			

- Molecule 9 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	98	Total	C	N	O	S	0	0	0
			786	493	150	142	1			
9	CJ	98	Total	C	N	O	S	0	0	0
			786	493	150	142	1			

- Molecule 10 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

- Molecule 11 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			
11	CL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			

- Molecule 12 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	114	Total	C	N	O	S	0	0	0
			883	546	178	156	3			
12	CM	113	Total	C	N	O	S	0	0	0
			876	541	177	155	3			

- Molecule 13 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			
13	CN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			

- Molecule 14 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AO	88	Total	C	N	O	S	0	0	0
			714	439	144	130	1			
14	CO	88	Total	C	N	O	S	0	0	0
			714	439	144	130	1			

- Molecule 15 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			
15	CP	80	Total	C	N	O	S	0	0	0
			638	400	126	111	1			

- Molecule 16 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	80	Total	C	N	O	S	0	0	0
			648	411	121	113	3			
16	CQ	81	Total	C	N	O	S	0	0	0
			657	417	122	115	3			

- Molecule 17 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AR	55	Total	C	N	O	0	0	0
			455	288	86	81			
17	CR	55	Total	C	N	O	0	0	0
			455	288	86	81			

- Molecule 18 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AS	79	Total	C	N	O	S	0	0	0
			637	408	120	107	2			
18	CS	80	Total	C	N	O	S	0	0	0
			644	413	121	108	2			

- Molecule 19 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			
19	CT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			

- Molecule 20 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AB	218	Total	C	N	O	S	0	0	0
			1704	1081	305	311	7			
20	CB	218	Total	C	N	O	S	0	0	0
			1704	1081	305	311	7			

- Molecule 21 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AU	51	Total	C	N	O	S	0	0	0
			425	265	86	73	1			
21	CU	51	Total	C	N	O	S	0	0	0
			425	265	86	73	1			

- Molecule 22 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BA	117	Total	C	N	O	P	0	0	0
			2507	1116	459	815	117			
22	DA	117	Total	C	N	O	P	0	0	0
			2507	1116	459	815	117			

- Molecule 23 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BB	2841	Total	C	N	O	P	0	0	0
			60995	27210	11229	19715	2841			
23	DB	2841	Total	C	N	O	P	0	0	0
			60995	27210	11229	19715	2841			

- Molecule 24 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			
24	DI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			

- Molecule 25 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BC	271	Total	C	N	O	S	0	0	0
			2082	1288	423	364	7			
25	DC	271	Total	C	N	O	S	0	0	0
			2082	1288	423	364	7			

- Molecule 26 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	DD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

- Molecule 27 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BK	121	Total	C	N	O	S	0	0	0
			930	582	179	164	5			
27	DK	121	Total	C	N	O	S	0	0	0
			930	582	179	164	5			

- Molecule 28 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			
28	DP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			
29	DE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			

- Molecule 30 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BY	58	Total	C	N	O	S	0	0	0
			449	281	87	79	2			
30	DY	58	Total	C	N	O	S	0	0	0
			449	281	87	79	2			

- Molecule 31 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			
31	D0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			

- Molecule 32 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			
32	D4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			

- Molecule 33 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	B1	50	Total	C	N	O	0	0	0
			409	263	75	71			
33	D1	50	Total	C	N	O	0	0	0
			409	263	75	71			

- Molecule 34 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			
34	D3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			

- Molecule 35 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			
35	DV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			

- Molecule 36 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	B2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			
36	D2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

- Molecule 37 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			
37	DL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			

- Molecule 38 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			
38	DM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			

- Molecule 39 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BX	63	Total	C	N	O	S	0	0	0
			509	313	99	95	2			
39	DX	63	Total	C	N	O	S	0	0	0
			509	313	99	95	2			

- Molecule 40 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			
40	DH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			

- Molecule 41 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			
41	DJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			

- Molecule 42 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BN	120	Total	C	N	O	S	0	0	0
			960	593	196	166	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	DN	120	Total	C	N	O	S	0	0	0
			960	593	196	166	5			

- Molecule 43 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BO	116	Total	C	N	O		0	0	0
			892	552	178	162				
43	DO	116	Total	C	N	O		0	0	0
			892	552	178	162				

- Molecule 44 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BQ	117	Total	C	N	O		0	0	0
			947	604	192	151				
44	DQ	117	Total	C	N	O		0	0	0
			947	604	192	151				

- Molecule 45 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			
45	DS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			

- Molecule 46 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BU	102	Total	C	N	O		0	0	0
			779	492	146	141				
46	DU	102	Total	C	N	O		0	0	0
			779	492	146	141				

- Molecule 47 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BF	178	Total	C	N	O	S	0	0	0
			1420	905	251	258	6			
47	DF	178	Total	C	N	O	S	0	0	0
			1420	905	251	258	6			

- Molecule 48 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			
48	DG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			

- Molecule 49 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			
49	DR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

- Molecule 50 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BT	93	Total	C	N	O	S	0	0	0
			738	466	139	131	2			
50	DT	93	Total	C	N	O	S	0	0	0
			738	466	139	131	2			

- Molecule 51 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BZ	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			
51	DZ	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			

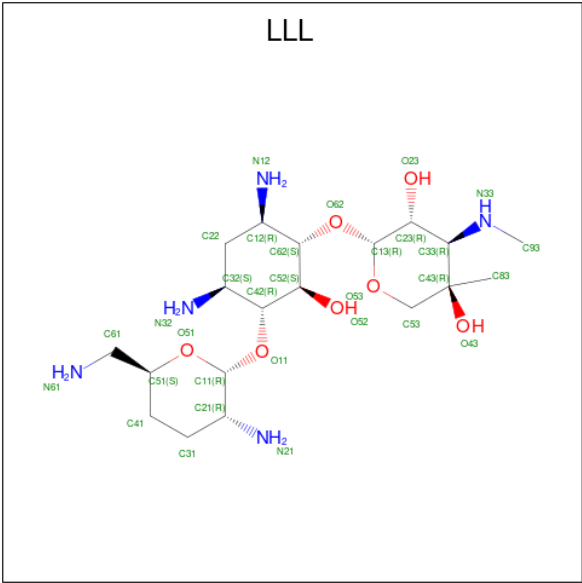
- Molecule 52 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BW	79	Total	C	N	O	S	0	0	0
			596	367	120	108	1			
52	DW	79	Total	C	N	O	S	0	0	0
			596	367	120	108	1			

- Molecule 53 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
53	AA	60	Total	Mg	0	0
			60	60		
53	BB	110	Total	Mg	0	0
			110	110		
53	CA	61	Total	Mg	0	0
			61	61		
53	CN	1	Total	Mg	0	0
			1	1		
53	DB	111	Total	Mg	0	0
			111	111		

- Molecule 54 is (2R,3R,4R,5R)-2-((1S,2S,3R,4S,6R)-4,6-DIAMINO-3-((2R,3R,6S)-3-AMINO-6-(AMINOMETHYL)-TETRAHYDRO-2H-PYRAN-2-YLOXY)-2-HYDR OXYCYCLOHEXYLOXY)-5-METHYL-4-(METHYLAMINO)-TETRAHYDRO-2H-PYRAN-3,5-DIOL (CCD ID: LLL) (formula: C₁₉H₃₉N₅O₇).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
54	AA	1	Total	C	N	O	0	0
			31	19	5	7		
54	AA	1	Total	C	N	O	0	0
			31	19	5	7		
54	AA	1	Total	C	N	O	0	0
			31	19	5	7		
54	BB	1	Total	C	N	O	0	0
			31	19	5	7		
54	CA	1	Total	C	N	O	0	0
			31	19	5	7		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
54	CA	1	Total	C	N	O	0	0
			31	19	5	7		
54	CA	1	Total	C	N	O	0	0
			31	19	5	7		
54	DB	1	Total	C	N	O	0	0
			31	19	5	7		

- Molecule 55 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	B4	1	Total	Zn	0	0
			1	1		
55	D4	1	Total	Zn	0	0
			1	1		

- Molecule 56 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	AA	292	Total	O	0	0
			292	292		
56	AE	1	Total	O	0	0
			1	1		
56	AK	1	Total	O	0	0
			1	1		
56	AL	2	Total	O	0	0
			2	2		
56	AN	2	Total	O	0	0
			2	2		
56	AT	2	Total	O	0	0
			2	2		
56	BB	492	Total	O	0	0
			492	492		
56	BC	7	Total	O	0	0
			7	7		
56	BE	3	Total	O	0	0
			3	3		
56	B2	1	Total	O	0	0
			1	1		
56	BL	3	Total	O	0	0
			3	3		
56	BH	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	CA	297	Total 297	O 297	0	0
56	CE	2	Total 2	O 2	0	0
56	CK	1	Total 1	O 1	0	0
56	CL	2	Total 2	O 2	0	0
56	CN	4	Total 4	O 4	0	0
56	CT	2	Total 2	O 2	0	0
56	DB	502	Total 502	O 502	0	0
56	DC	4	Total 4	O 4	0	0
56	DE	2	Total 2	O 2	0	0
56	DL	4	Total 4	O 4	0	0

MolProbity failed to run properly - this section is therefore empty.

3 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.85Å 379.20Å 739.28Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	70.00 – 3.54 70.00 – 3.55	Depositor EDS
% Data completeness (in resolution range)	88.8 (70.00-3.54) 89.8 (70.00-3.55)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.69 (at 3.58Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.281 , 0.320 0.245 , 0.277	Depositor DCC
R_{free} test set	30217 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	125.1	Xtriage
Anisotropy	0.234	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 41.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	284252	wwPDB-VP
Average B, all atoms (Å ²)	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.39% 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.

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

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

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

Of 353 ligands modelled in this entry, 345 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond

length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	LLL	CA	2062	-	31,33,33	2.53	14 (45%)	33,49,49	1.27	3 (9%)
54	LLL	CA	2064	-	31,33,33	2.47	13 (41%)	33,49,49	1.26	3 (9%)
54	LLL	CA	2063	-	31,33,33	2.60	16 (51%)	33,49,49	1.30	4 (12%)
54	LLL	AA	2063	-	31,33,33	2.49	14 (45%)	33,49,49	1.41	3 (9%)
54	LLL	BB	3111	-	31,33,33	2.57	15 (48%)	33,49,49	1.28	5 (15%)
54	LLL	DB	3112	-	31,33,33	2.57	15 (48%)	33,49,49	1.25	3 (9%)
54	LLL	AA	2061	-	31,33,33	2.52	12 (38%)	33,49,49	1.34	4 (12%)
54	LLL	AA	2062	-	31,33,33	2.60	17 (54%)	33,49,49	1.33	4 (12%)

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
54	LLL	CA	2062	-	-	1/11/65/65	0/3/3/3
54	LLL	CA	2064	-	-	1/11/65/65	0/3/3/3
54	LLL	CA	2063	-	-	5/11/65/65	0/3/3/3
54	LLL	AA	2063	-	-	2/11/65/65	0/3/3/3
54	LLL	BB	3111	-	-	2/11/65/65	0/3/3/3
54	LLL	DB	3112	-	-	1/11/65/65	0/3/3/3
54	LLL	AA	2061	-	-	1/11/65/65	0/3/3/3
54	LLL	AA	2062	-	-	2/11/65/65	0/3/3/3

The worst 5 of 116 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	CA	2063	LLL	O53-C53	6.75	1.52	1.43
54	AA	2062	LLL	O53-C53	6.63	1.52	1.43
54	DB	3112	LLL	O53-C53	6.59	1.52	1.43
54	BB	3111	LLL	O53-C53	6.58	1.52	1.43
54	AA	2061	LLL	O53-C53	6.52	1.52	1.43

The worst 5 of 29 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	AA	2063	LLL	C53-O53-C13	4.54	118.52	111.53
54	CA	2063	LLL	C53-O53-C13	4.24	118.06	111.53
54	AA	2062	LLL	C53-O53-C13	4.14	117.90	111.53
54	CA	2062	LLL	C53-O53-C13	4.11	117.85	111.53
54	BB	3111	LLL	C53-O53-C13	4.05	117.76	111.53

There are no chirality outliers.

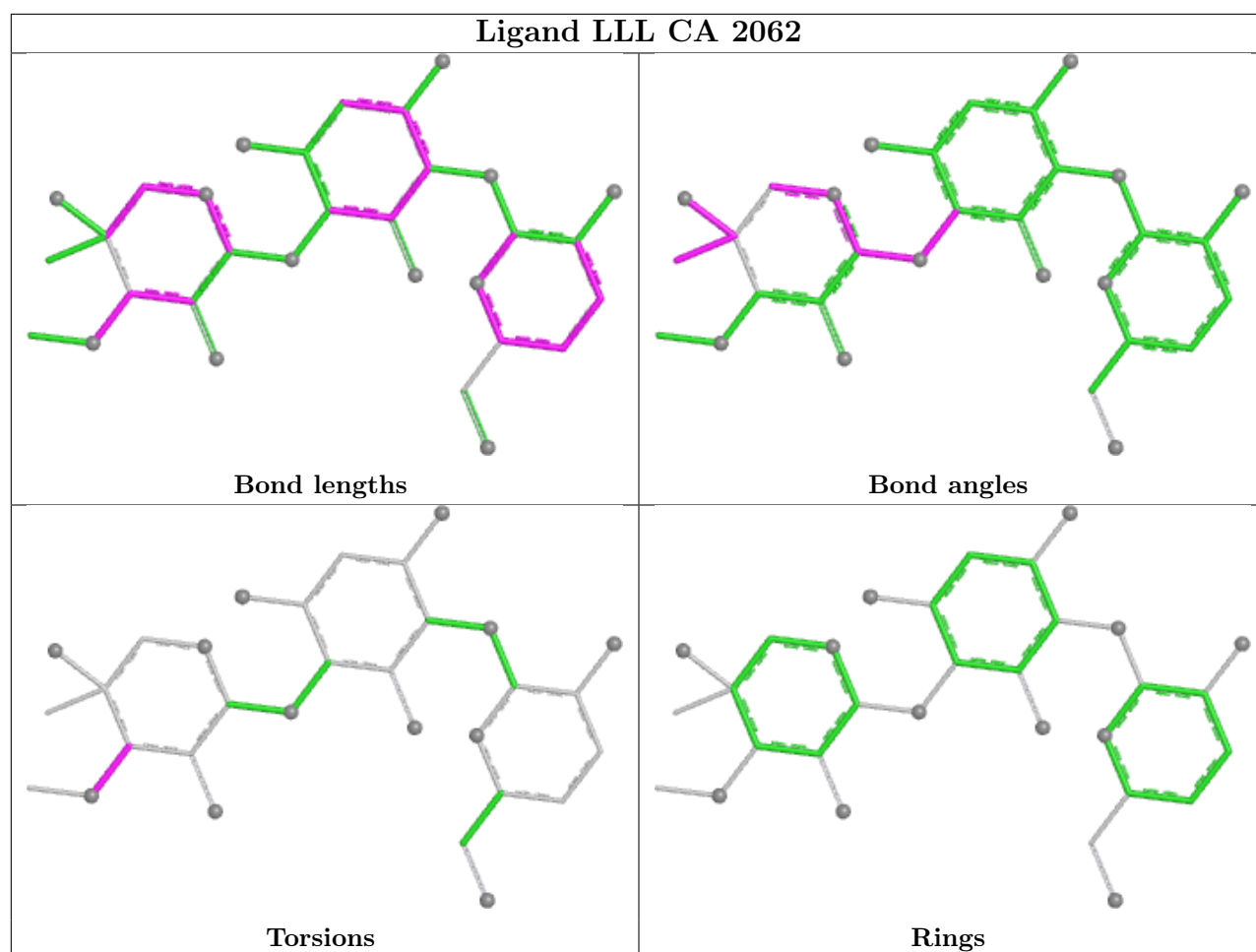
5 of 15 torsion outliers are listed below:

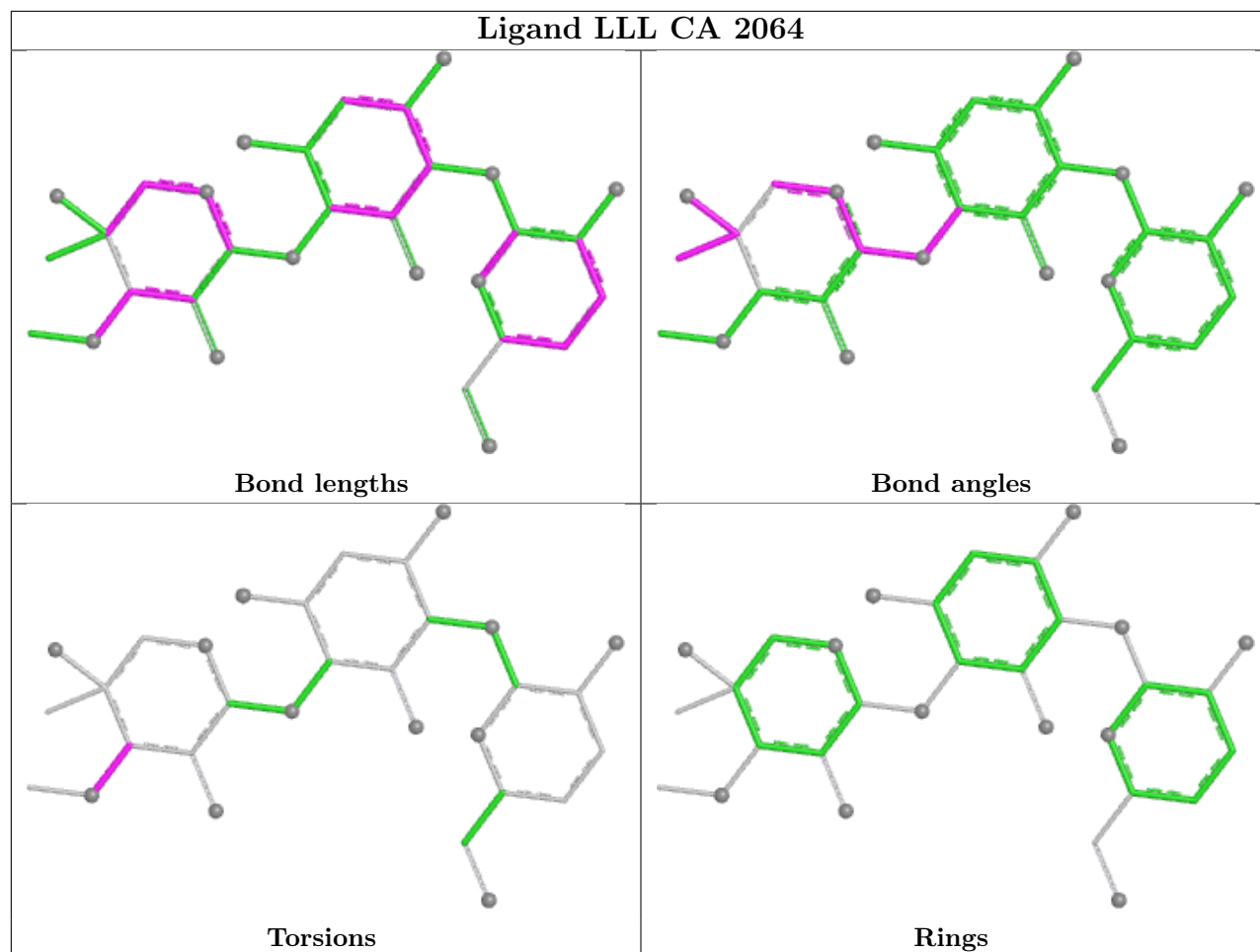
Mol	Chain	Res	Type	Atoms
54	AA	2062	LLL	C23-C33-N33-C93
54	CA	2062	LLL	C23-C33-N33-C93
54	CA	2064	LLL	C23-C33-N33-C93
54	DB	3112	LLL	C23-C33-N33-C93
54	AA	2063	LLL	O53-C13-O62-C62

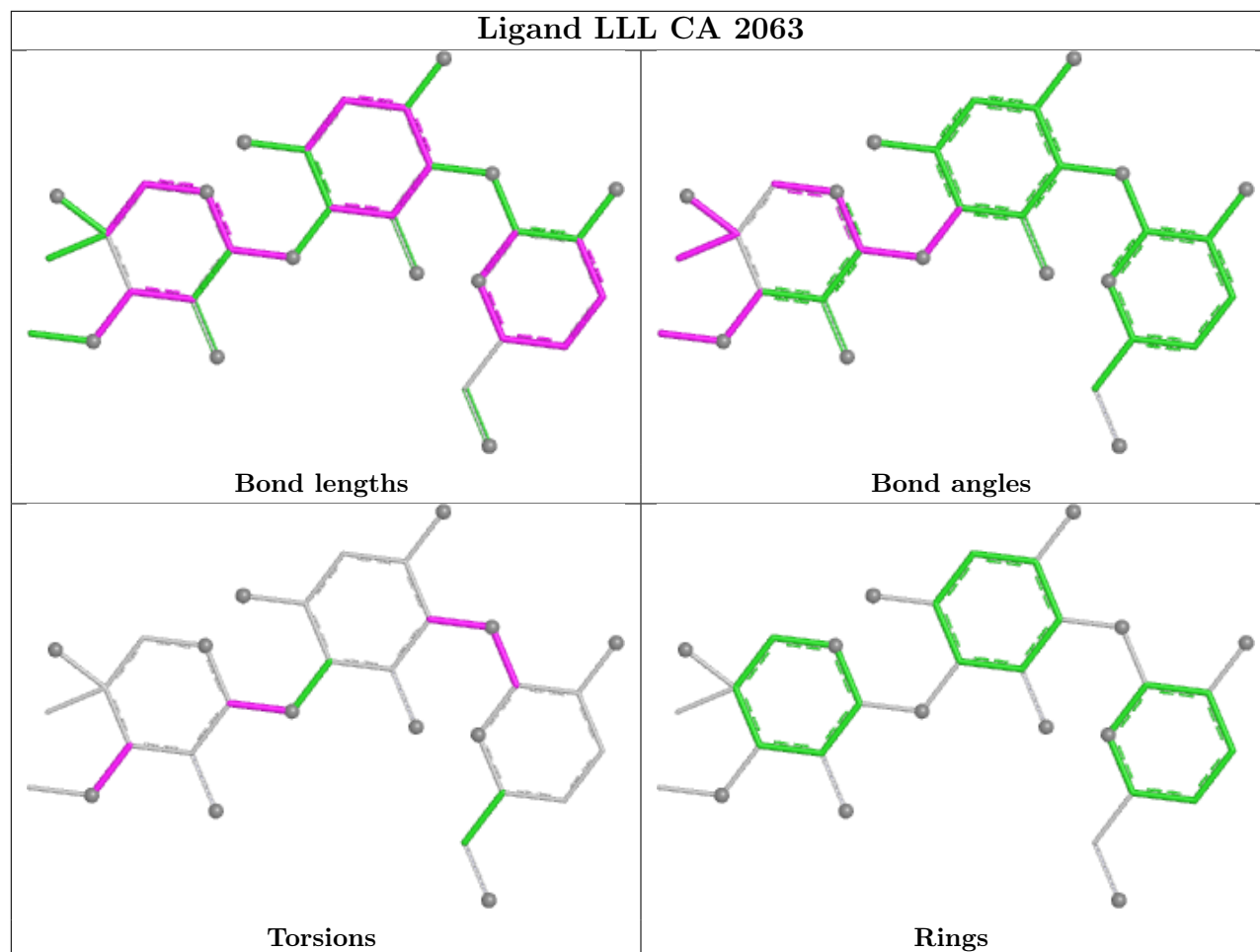
There are no ring outliers.

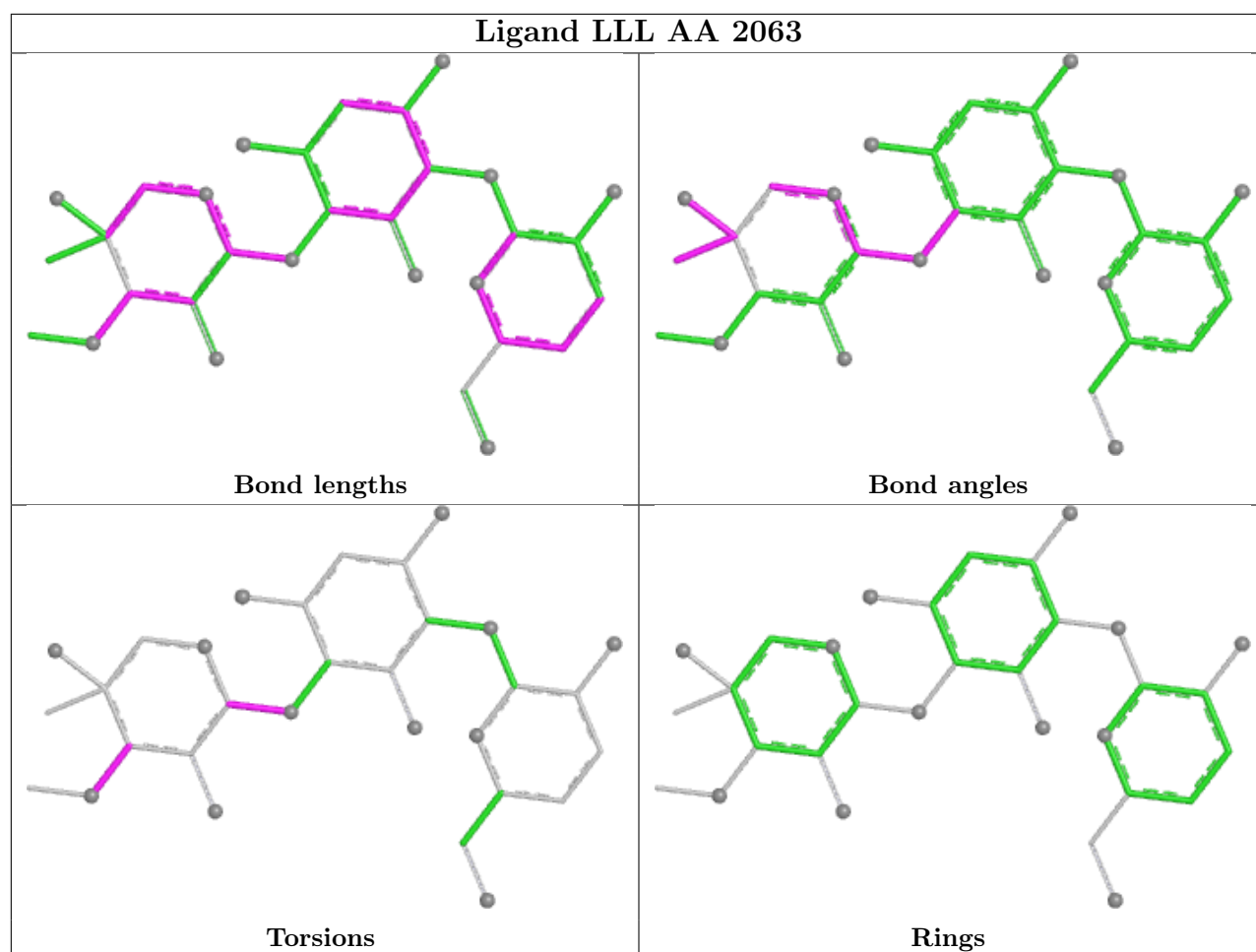
No monomer is involved in short contacts.

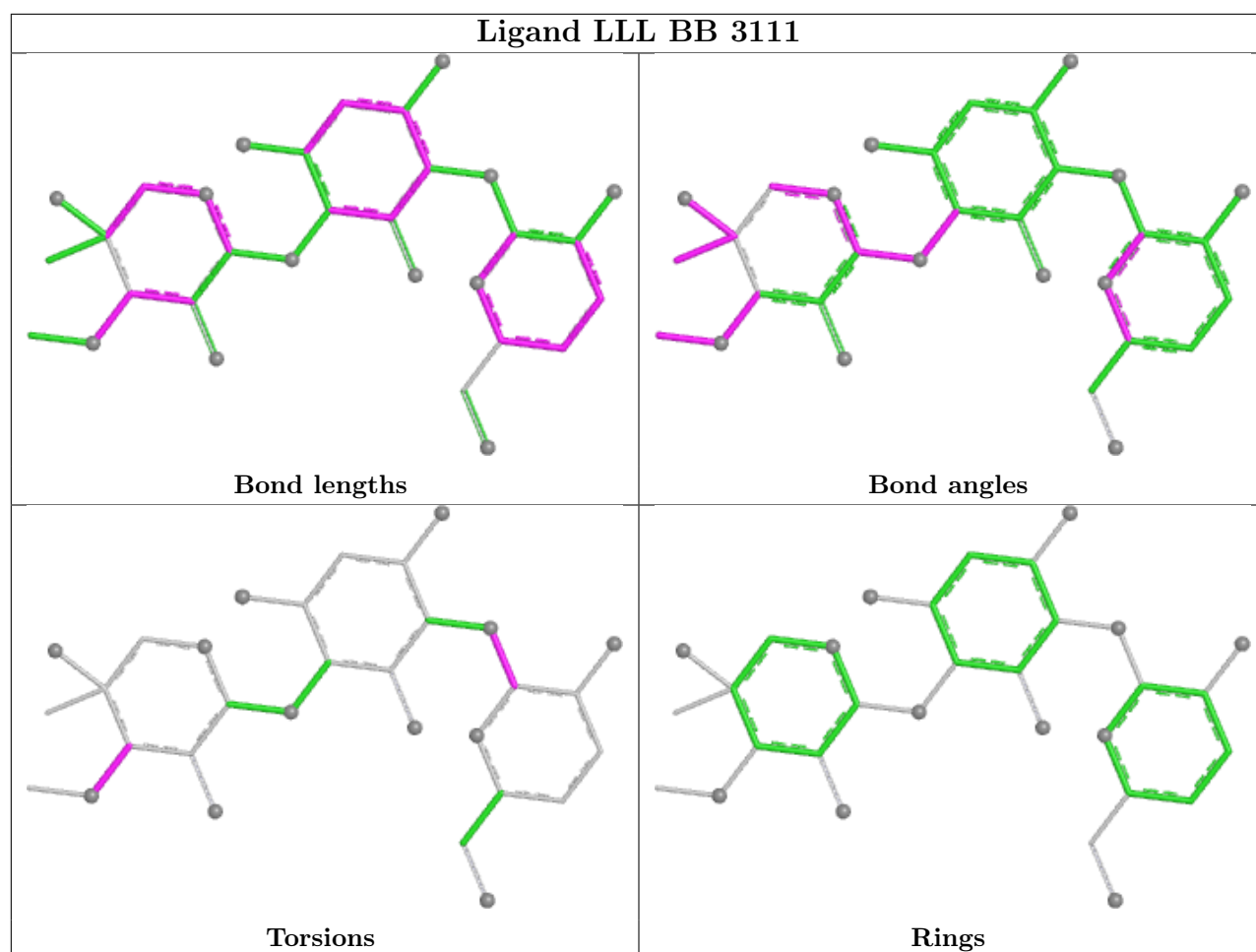
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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.



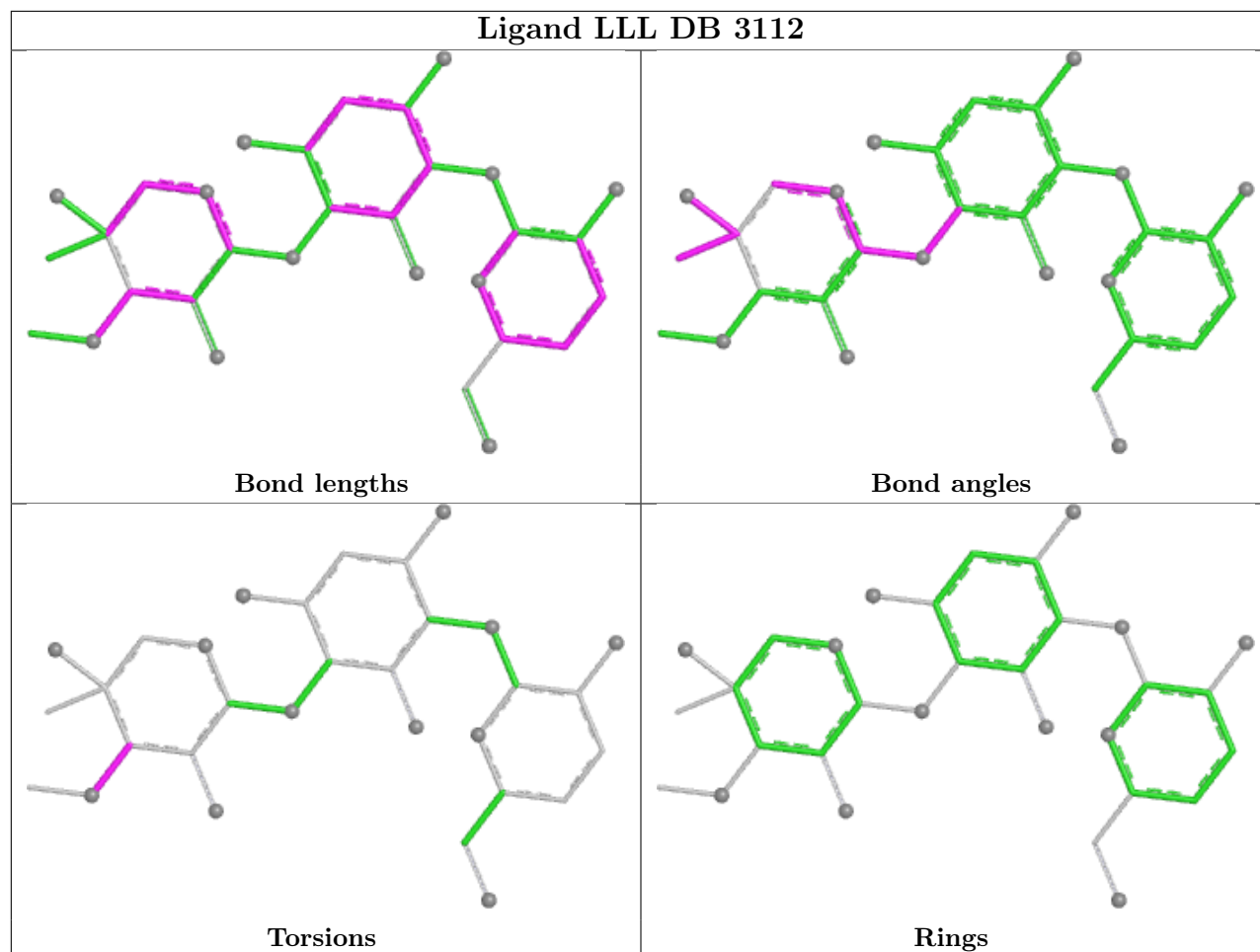


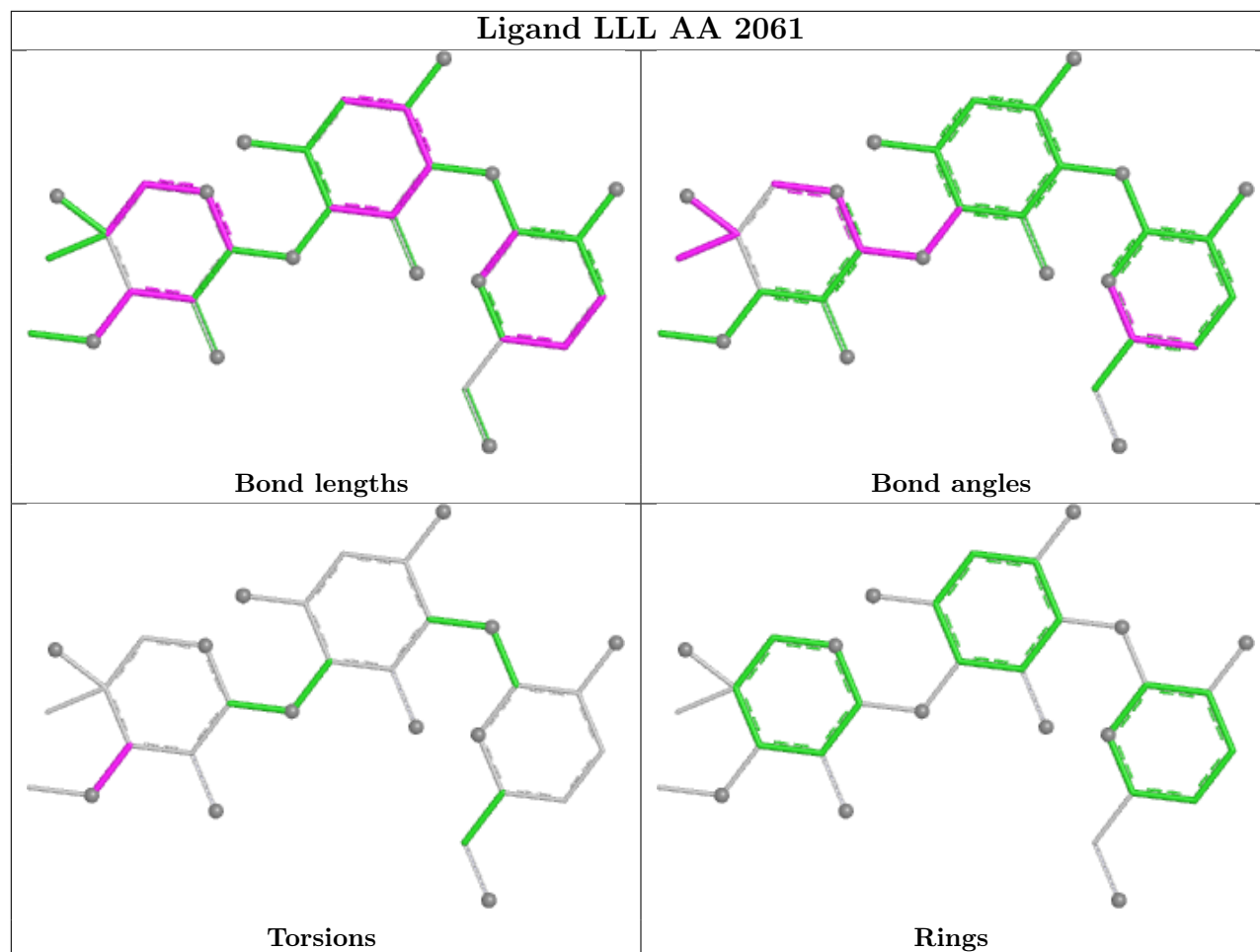


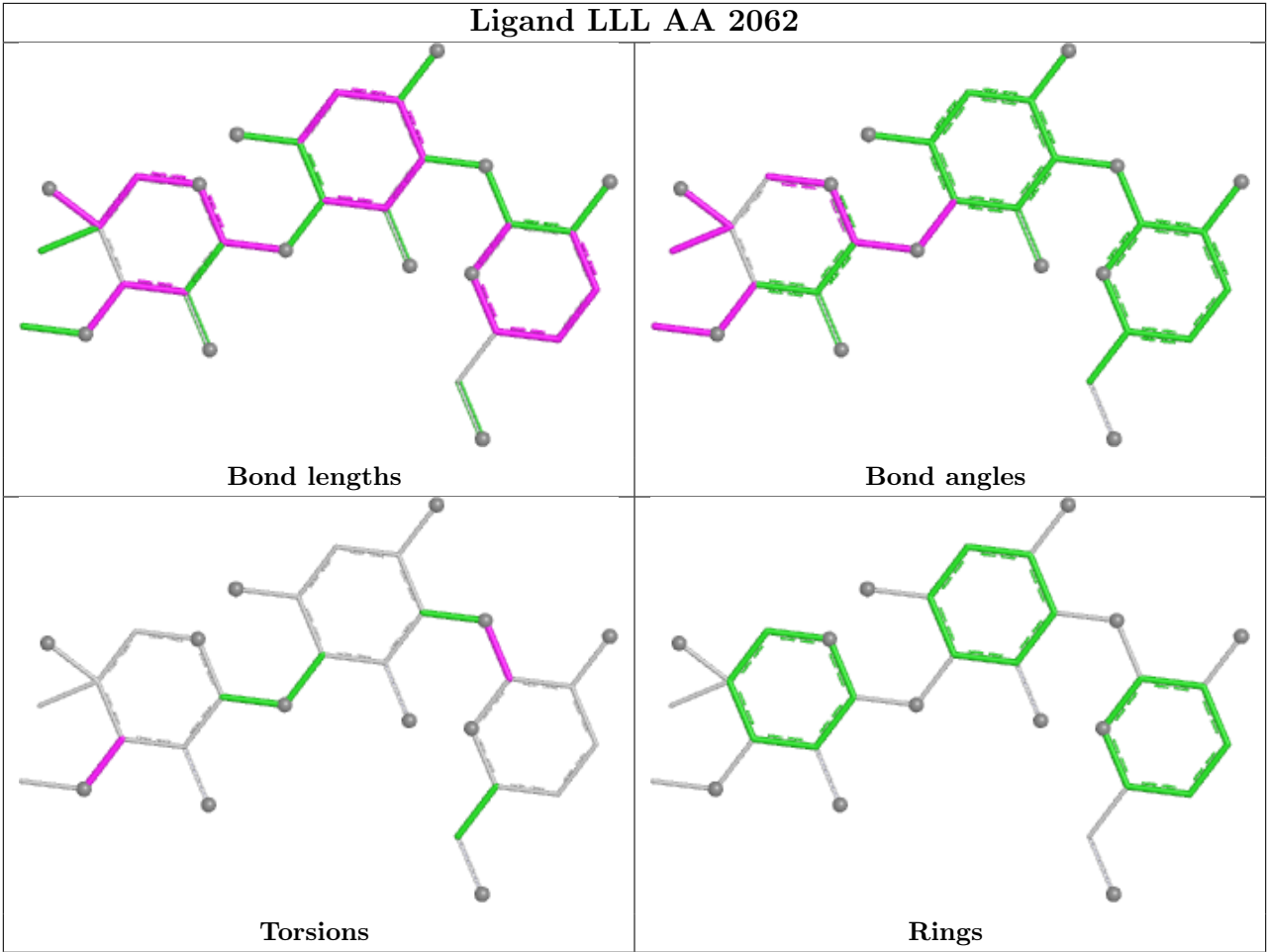




Ligand LLL DB 3112







4.7 Other polymers ⓘ

There are no such residues in this entry.

4.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
23	BB	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BB	2322:A	O3'	2323:G	P	1.78

5 Fit of model and data ⓘ

5.1 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	AA	1530/1542 (99%)	-0.28	20 (1%) 74 53	22, 85, 131, 156	0
1	CA	1530/1542 (99%)	-0.43	10 (0%) 84 66	5, 60, 120, 167	0
2	AC	206/232 (88%)	-0.14	4 (1%) 66 44	14, 72, 111, 136	0
2	CC	206/232 (88%)	-0.21	4 (1%) 66 44	5, 74, 103, 160	0
3	AD	205/205 (100%)	0.21	5 (2%) 59 39	21, 87, 115, 135	0
3	CD	205/205 (100%)	-0.03	2 (0%) 79 59	8, 65, 107, 121	0
4	AE	150/166 (90%)	0.11	4 (2%) 56 35	6, 74, 105, 134	0
4	CE	150/166 (90%)	-0.06	6 (4%) 43 27	5, 59, 96, 125	0
5	AF	100/135 (74%)	-0.28	1 (1%) 79 59	22, 72, 114, 148	0
5	CF	100/135 (74%)	-0.24	0 100 100	12, 72, 109, 123	0
6	AG	150/178 (84%)	-0.02	5 (3%) 49 31	47, 89, 116, 152	0
6	CG	152/178 (85%)	-0.40	1 (0%) 84 66	29, 80, 115, 134	0
7	AH	129/129 (100%)	-0.14	4 (3%) 51 33	31, 80, 112, 136	0
7	CH	129/129 (100%)	-0.09	4 (3%) 51 33	5, 56, 91, 112	0
8	AI	127/129 (98%)	0.12	6 (4%) 37 24	31, 83, 118, 143	0
8	CI	127/129 (98%)	0.34	12 (9%) 15 11	35, 84, 118, 157	0
9	AJ	98/103 (95%)	0.22	6 (6%) 28 19	22, 87, 121, 135	0
9	CJ	98/103 (95%)	0.45	6 (6%) 28 19	33, 84, 110, 125	0
10	AK	117/128 (91%)	-0.25	2 (1%) 69 47	5, 67, 102, 117	0
10	CK	117/128 (91%)	-0.34	2 (1%) 69 47	5, 56, 101, 119	0
11	AL	123/123 (100%)	0.42	13 (10%) 13 9	22, 75, 110, 146	0
11	CL	123/123 (100%)	0.28	7 (5%) 30 20	5, 47, 103, 123	0
12	AM	114/117 (97%)	-0.16	1 (0%) 81 61	58, 96, 124, 147	0
12	CM	113/117 (96%)	-0.16	1 (0%) 81 61	48, 89, 116, 135	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AN	96/100 (96%)	0.36	5 (5%) 34 22	27, 85, 121, 154	0
13	CN	96/100 (96%)	0.33	3 (3%) 51 33	40, 87, 114, 142	0
14	AO	88/89 (98%)	-0.16	1 (1%) 77 56	38, 80, 109, 133	0
14	CO	88/89 (98%)	0.02	5 (5%) 30 20	5, 56, 107, 128	0
15	AP	82/82 (100%)	0.54	7 (8%) 18 12	48, 88, 121, 135	0
15	CP	80/82 (97%)	0.54	6 (7%) 22 15	11, 59, 109, 147	0
16	AQ	80/83 (96%)	-0.12	1 (1%) 74 53	31, 87, 117, 124	0
16	CQ	81/83 (97%)	-0.22	0 100 100	9, 58, 99, 121	0
17	AR	55/74 (74%)	-0.06	2 (3%) 46 29	19, 76, 118, 138	0
17	CR	55/74 (74%)	-0.17	2 (3%) 46 29	19, 68, 119, 131	0
18	AS	79/91 (86%)	0.03	1 (1%) 74 53	68, 100, 124, 136	0
18	CS	80/91 (87%)	0.07	4 (5%) 35 23	48, 94, 127, 153	0
19	AT	85/86 (98%)	0.12	3 (3%) 47 30	39, 92, 123, 144	0
19	CT	85/86 (98%)	0.21	7 (8%) 19 13	19, 61, 106, 125	0
20	AB	218/240 (90%)	-0.28	2 (0%) 81 61	20, 87, 113, 132	0
20	CB	218/240 (90%)	-0.31	0 100 100	29, 89, 118, 144	0
21	AU	51/70 (72%)	0.66	4 (7%) 20 14	36, 89, 126, 134	0
21	CU	51/70 (72%)	0.58	7 (13%) 8 7	46, 78, 116, 132	0
22	BA	117/120 (97%)	-0.35	2 (1%) 69 47	47, 78, 117, 140	0
22	DA	117/120 (97%)	-0.02	3 (2%) 57 37	30, 80, 115, 155	0
23	BB	2841/2904 (97%)	-0.38	29 (1%) 79 59	9, 58, 127, 165	0
23	DB	2841/2904 (97%)	-0.45	18 (0%) 85 69	5, 45, 124, 163	0
24	BI	141/141 (100%)	0.34	4 (2%) 55 35	59, 117, 149, 158	0
24	DI	141/141 (100%)	0.12	4 (2%) 55 35	70, 117, 148, 160	0
25	BC	271/272 (99%)	0.37	16 (5%) 29 20	5, 47, 88, 105	0
25	DC	271/272 (99%)	0.31	13 (4%) 36 24	5, 32, 80, 112	0
26	BD	209/209 (100%)	0.22	16 (7%) 21 15	12, 71, 107, 141	0
26	DD	209/209 (100%)	0.35	14 (6%) 25 17	5, 49, 98, 135	0
27	BK	121/123 (98%)	0.24	1 (0%) 82 64	16, 67, 106, 134	0
27	DK	121/123 (98%)	0.12	5 (4%) 42 26	5, 37, 90, 130	0
28	BP	114/114 (100%)	0.31	7 (6%) 28 19	25, 81, 113, 131	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	DP	114/114 (100%)	0.10	3 (2%) 57 37	7, 49, 94, 112	0
29	BE	201/201 (100%)	-0.02	7 (3%) 47 30	5, 65, 104, 147	0
29	DE	201/201 (100%)	-0.02	6 (2%) 52 33	5, 62, 107, 138	0
30	BY	58/58 (100%)	-0.21	1 (1%) 69 47	26, 69, 107, 137	0
30	DY	58/58 (100%)	-0.01	1 (1%) 69 47	6, 64, 110, 117	0
31	B0	56/56 (100%)	0.27	2 (3%) 46 29	5, 71, 113, 136	0
31	D0	56/56 (100%)	0.11	2 (3%) 46 29	10, 43, 99, 104	0
32	B4	38/38 (100%)	0.91	6 (15%) 6 5	33, 76, 108, 125	0
32	D4	38/38 (100%)	0.49	1 (2%) 57 37	15, 65, 94, 105	0
33	B1	50/54 (92%)	-0.24	1 (2%) 64 43	50, 75, 102, 115	0
33	D1	50/54 (92%)	-0.48	0 100 100	27, 74, 105, 118	0
34	B3	64/64 (100%)	0.74	10 (15%) 6 5	9, 55, 82, 106	0
34	D3	64/64 (100%)	0.76	8 (12%) 9 7	5, 39, 84, 101	0
35	BV	94/94 (100%)	-0.33	1 (1%) 77 56	31, 86, 115, 129	0
35	DV	94/94 (100%)	-0.24	0 100 100	8, 79, 108, 125	0
36	B2	46/46 (100%)	0.55	3 (6%) 26 18	8, 40, 81, 113	0
36	D2	46/46 (100%)	0.36	4 (8%) 17 12	5, 28, 68, 113	0
37	BL	143/144 (99%)	0.16	3 (2%) 63 42	9, 63, 99, 134	0
37	DL	143/144 (99%)	0.15	4 (2%) 55 35	5, 55, 95, 123	0
38	BM	136/136 (100%)	0.11	6 (4%) 39 25	5, 65, 100, 131	0
38	DM	136/136 (100%)	0.34	7 (5%) 34 23	5, 55, 94, 134	0
39	BX	63/63 (100%)	-0.15	0 100 100	18, 76, 110, 123	0
39	DX	63/63 (100%)	-0.39	0 100 100	36, 82, 107, 142	0
40	BH	149/149 (100%)	0.28	2 (1%) 74 53	25, 98, 122, 146	0
40	DH	149/149 (100%)	-0.05	1 (0%) 84 66	18, 88, 112, 141	0
41	BJ	142/142 (100%)	0.53	17 (11%) 10 8	16, 70, 106, 118	0
41	DJ	142/142 (100%)	0.40	7 (4%) 36 23	5, 60, 101, 131	0
42	BN	120/127 (94%)	0.13	5 (4%) 41 26	14, 65, 101, 145	0
42	DN	120/127 (94%)	0.26	7 (5%) 30 20	5, 42, 75, 118	0
43	BO	116/117 (99%)	0.03	4 (3%) 48 30	40, 78, 104, 128	0
43	DO	116/117 (99%)	0.25	10 (8%) 18 12	5, 73, 106, 157	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	BQ	117/117 (100%)	0.15	4 (3%) 48 30	5, 60, 95, 109	0
44	DQ	117/117 (100%)	0.39	9 (7%) 21 15	5, 50, 92, 120	0
45	BS	110/110 (100%)	0.01	4 (3%) 46 29	6, 56, 98, 118	0
45	DS	110/110 (100%)	0.19	6 (5%) 32 21	5, 48, 95, 128	0
46	BU	102/103 (99%)	-0.09	1 (0%) 79 59	9, 71, 105, 123	0
46	DU	102/103 (99%)	-0.05	2 (1%) 64 43	34, 80, 112, 130	0
47	BF	178/178 (100%)	-0.13	2 (1%) 77 56	40, 95, 125, 140	0
47	DF	178/178 (100%)	0.16	10 (5%) 31 20	38, 85, 125, 138	0
48	BG	176/176 (100%)	-0.22	1 (0%) 85 69	37, 88, 114, 146	0
48	DG	176/176 (100%)	-0.02	3 (1%) 69 47	17, 82, 110, 133	0
49	BR	103/103 (100%)	-0.11	2 (1%) 66 44	13, 78, 112, 120	0
49	DR	103/103 (100%)	0.27	5 (4%) 36 23	15, 72, 111, 128	0
50	BT	93/100 (93%)	0.23	7 (7%) 22 15	14, 70, 112, 124	0
50	DT	93/100 (93%)	0.24	4 (4%) 40 26	8, 66, 108, 120	0
51	BZ	77/78 (98%)	0.38	4 (5%) 34 22	5, 54, 93, 115	0
51	DZ	77/78 (98%)	0.29	2 (2%) 57 37	5, 43, 87, 114	0
52	BW	79/84 (94%)	0.97	14 (17%) 4 4	8, 75, 111, 136	0
52	DW	79/84 (94%)	0.99	15 (18%) 4 4	12, 65, 103, 122	0
All	All	20417/21046 (97%)	-0.11	542 (2%) 56 35	5, 68, 120, 167	0

The worst 5 of 542 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
8	CI	129	ARG	12.3
22	DA	88	C	11.9
1	AA	79	G	8.6
26	DD	118	PHE	8.1
22	BA	88	C	7.8

5.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.4 Ligands ⓘ

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($\text{\AA}^2$)	Q<0.9
53	MG	AA	2025	1/1	0.07	0.13	50,50,50,50	1
53	MG	CA	2027	1/1	0.23	0.18	55,55,55,55	1
53	MG	CA	2029	1/1	0.40	0.20	57,57,57,57	1
53	MG	AA	2023	1/1	0.41	0.37	44,44,44,44	1
53	MG	AA	2059	1/1	0.41	0.34	102,102,102,102	0
53	MG	AA	2022	1/1	0.52	0.25	100,100,100,100	0
53	MG	AA	2039	1/1	0.59	0.29	92,92,92,92	0
53	MG	AA	2026	1/1	0.63	0.27	51,51,51,51	1
53	MG	CA	2026	1/1	0.72	0.34	40,40,40,40	1
53	MG	DB	3095	1/1	0.76	0.07	96,96,96,96	0
53	MG	BB	3033	1/1	0.80	0.20	90,90,90,90	0
53	MG	DB	3066	1/1	0.81	0.17	100,100,100,100	0
53	MG	AA	2002	1/1	0.81	0.15	100,100,100,100	0
53	MG	AA	2047	1/1	0.82	0.26	73,73,73,73	0
53	MG	DB	3058	1/1	0.83	0.35	96,96,96,96	0
53	MG	AA	2056	1/1	0.85	0.16	103,103,103,103	0
54	LLL	AA	2063	31/31	0.85	0.26	62,62,62,62	31
54	LLL	CA	2064	31/31	0.85	0.16	41,41,41,41	31
53	MG	BB	3093	1/1	0.86	0.15	80,80,80,80	0
53	MG	CA	2020	1/1	0.86	0.35	85,85,85,85	0
53	MG	AA	2037	1/1	0.86	0.29	87,87,87,87	0
54	LLL	AA	2062	31/31	0.86	0.27	73,73,73,73	31
53	MG	BB	3057	1/1	0.86	0.11	72,72,72,72	0
53	MG	BB	3063	1/1	0.86	0.10	51,51,51,51	0
54	LLL	DB	3112	31/31	0.86	0.14	54,54,54,54	0
53	MG	CA	2035	1/1	0.87	0.11	85,85,85,85	0
53	MG	BB	3090	1/1	0.88	0.09	60,60,60,60	0
53	MG	AA	2057	1/1	0.88	0.20	80,80,80,80	0
53	MG	BB	3100	1/1	0.88	0.10	105,105,105,105	0
53	MG	AA	2046	1/1	0.89	0.07	95,95,95,95	0
54	LLL	CA	2063	31/31	0.89	0.14	70,70,70,70	0
54	LLL	BB	3111	31/31	0.90	0.28	67,67,67,67	31

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	DB	3030	1/1	0.90	0.13	26,26,26,26	0
53	MG	CA	2036	1/1	0.91	0.10	74,74,74,74	0
53	MG	AA	2050	1/1	0.91	0.05	103,103,103,103	0
53	MG	BB	3072	1/1	0.91	0.07	57,57,57,57	0
53	MG	DB	3059	1/1	0.91	0.10	100,100,100,100	0
53	MG	DB	3013	1/1	0.92	0.10	37,37,37,37	0
53	MG	AA	2012	1/1	0.92	0.07	70,70,70,70	0
53	MG	BB	3034	1/1	0.92	0.16	52,52,52,52	0
53	MG	BB	3047	1/1	0.92	0.06	77,77,77,77	0
53	MG	CA	2022	1/1	0.93	0.08	105,105,105,105	0
53	MG	CA	2057	1/1	0.93	0.11	61,61,61,61	0
54	LLL	AA	2061	31/31	0.93	0.08	20,20,20,20	0
53	MG	AA	2015	1/1	0.94	0.10	78,78,78,78	0
53	MG	AA	2019	1/1	0.94	0.10	87,87,87,87	0
53	MG	CA	2021	1/1	0.94	0.06	70,70,70,70	0
53	MG	DB	3034	1/1	0.94	0.10	74,74,74,74	0
53	MG	CA	2047	1/1	0.94	0.09	74,74,74,74	0
53	MG	CA	2011	1/1	0.95	0.07	82,82,82,82	0
53	MG	CA	2015	1/1	0.95	0.08	108,108,108,108	0
53	MG	BB	3050	1/1	0.95	0.05	18,18,18,18	0
53	MG	DB	3052	1/1	0.95	0.14	62,62,62,62	0
53	MG	AA	2035	1/1	0.95	0.07	71,71,71,71	0
53	MG	BB	3010	1/1	0.95	0.05	73,73,73,73	0
53	MG	AA	2005	1/1	0.95	0.05	72,72,72,72	0
53	MG	DB	3092	1/1	0.95	0.04	76,76,76,76	0
53	MG	BB	3078	1/1	0.95	0.16	67,67,67,67	0
53	MG	CA	2028	1/1	0.95	0.09	77,77,77,77	0
53	MG	BB	3081	1/1	0.95	0.09	40,40,40,40	0
53	MG	AA	2014	1/1	0.95	0.08	72,72,72,72	0
53	MG	BB	3043	1/1	0.95	0.17	86,86,86,86	0
54	LLL	CA	2062	31/31	0.95	0.07	9,9,9,9	0
53	MG	BB	3097	1/1	0.95	0.16	56,56,56,56	0
53	MG	CA	2048	1/1	0.95	0.15	65,65,65,65	0
53	MG	AA	2030	1/1	0.95	0.08	88,88,88,88	0
53	MG	AA	2058	1/1	0.96	0.04	94,94,94,94	0
53	MG	DB	3057	1/1	0.96	0.05	53,53,53,53	0
53	MG	AA	2032	1/1	0.96	0.15	67,67,67,67	0
53	MG	BB	3094	1/1	0.96	0.05	69,69,69,69	0
53	MG	BB	3008	1/1	0.96	0.04	80,80,80,80	0
53	MG	DB	3083	1/1	0.96	0.11	56,56,56,56	0
53	MG	DB	3084	1/1	0.96	0.06	25,25,25,25	0
53	MG	BB	3099	1/1	0.96	0.06	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	BB	3009	1/1	0.96	0.06	70,70,70,70	0
53	MG	AA	2051	1/1	0.96	0.11	66,66,66,66	0
53	MG	AA	2027	1/1	0.96	0.07	56,56,56,56	0
53	MG	CA	2018	1/1	0.96	0.11	60,60,60,60	0
53	MG	AA	2024	1/1	0.96	0.19	73,73,73,73	0
53	MG	DB	3018	1/1	0.96	0.06	48,48,48,48	0
53	MG	DB	3029	1/1	0.96	0.06	66,66,66,66	0
53	MG	BB	3042	1/1	0.96	0.03	96,96,96,96	0
53	MG	BB	3089	1/1	0.96	0.05	63,63,63,63	0
53	MG	BB	3077	1/1	0.97	0.05	44,44,44,44	0
53	MG	BB	3032	1/1	0.97	0.07	36,36,36,36	0
53	MG	BB	3080	1/1	0.97	0.07	56,56,56,56	0
53	MG	AA	2008	1/1	0.97	0.17	81,81,81,81	0
53	MG	BB	3087	1/1	0.97	0.08	73,73,73,73	0
53	MG	CA	2025	1/1	0.97	0.06	72,72,72,72	0
53	MG	AA	2034	1/1	0.97	0.08	42,42,42,42	0
53	MG	AA	2020	1/1	0.97	0.04	91,91,91,91	0
53	MG	BB	3091	1/1	0.97	0.05	34,34,34,34	0
53	MG	AA	2049	1/1	0.97	0.04	93,93,93,93	0
53	MG	DB	3085	1/1	0.97	0.05	5,5,5,5	0
53	MG	DB	3089	1/1	0.97	0.14	52,52,52,52	0
53	MG	DB	3090	1/1	0.97	0.06	57,57,57,57	0
53	MG	AA	2036	1/1	0.97	0.04	62,62,62,62	0
53	MG	AA	2001	1/1	0.97	0.10	27,27,27,27	0
53	MG	DB	3111	1/1	0.97	0.08	43,43,43,43	0
53	MG	CA	2037	1/1	0.97	0.04	69,69,69,69	0
53	MG	CA	2041	1/1	0.97	0.08	69,69,69,69	0
53	MG	AA	2055	1/1	0.97	0.08	57,57,57,57	0
53	MG	BB	3013	1/1	0.97	0.06	41,41,41,41	0
53	MG	CA	2006	1/1	0.97	0.07	73,73,73,73	0
53	MG	CA	2058	1/1	0.97	0.16	63,63,63,63	0
53	MG	CA	2010	1/1	0.97	0.04	59,59,59,59	0
53	MG	BB	3022	1/1	0.97	0.07	44,44,44,44	0
55	ZN	B4	101	1/1	0.97	0.04	82,82,82,82	0
55	ZN	D4	101	1/1	0.97	0.04	45,45,45,45	0
53	MG	CN	201	1/1	0.98	0.04	50,50,50,50	0
53	MG	BB	3004	1/1	0.98	0.09	43,43,43,43	0
53	MG	DB	3015	1/1	0.98	0.03	50,50,50,50	0
53	MG	CA	2019	1/1	0.98	0.04	63,63,63,63	0
53	MG	DB	3024	1/1	0.98	0.04	53,53,53,53	0
53	MG	BB	3068	1/1	0.98	0.13	37,37,37,37	0
53	MG	BB	3092	1/1	0.98	0.04	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	BB	3071	1/1	0.98	0.04	63,63,63,63	0
53	MG	DB	3035	1/1	0.98	0.04	54,54,54,54	0
53	MG	DB	3036	1/1	0.98	0.04	26,26,26,26	0
53	MG	DB	3051	1/1	0.98	0.07	57,57,57,57	0
53	MG	CA	2023	1/1	0.98	0.04	54,54,54,54	0
53	MG	AA	2028	1/1	0.98	0.04	53,53,53,53	0
53	MG	BB	3095	1/1	0.98	0.04	59,59,59,59	0
53	MG	BB	3038	1/1	0.98	0.10	77,77,77,77	0
53	MG	DB	3060	1/1	0.98	0.04	79,79,79,79	0
53	MG	DB	3061	1/1	0.98	0.09	58,58,58,58	0
53	MG	AA	2044	1/1	0.98	0.06	48,48,48,48	0
53	MG	DB	3070	1/1	0.98	0.10	43,43,43,43	0
53	MG	DB	3073	1/1	0.98	0.04	33,33,33,33	0
53	MG	DB	3077	1/1	0.98	0.04	50,50,50,50	0
53	MG	DB	3078	1/1	0.98	0.03	48,48,48,48	0
53	MG	DB	3082	1/1	0.98	0.05	42,42,42,42	0
53	MG	AA	2007	1/1	0.98	0.03	70,70,70,70	0
53	MG	CA	2030	1/1	0.98	0.06	31,31,31,31	0
53	MG	BB	3106	1/1	0.98	0.06	31,31,31,31	0
53	MG	BB	3110	1/1	0.98	0.05	74,74,74,74	0
53	MG	AA	2031	1/1	0.98	0.04	49,49,49,49	0
53	MG	DB	3091	1/1	0.98	0.07	45,45,45,45	0
53	MG	CA	2038	1/1	0.98	0.10	77,77,77,77	0
53	MG	CA	2008	1/1	0.98	0.04	86,86,86,86	0
53	MG	DB	3104	1/1	0.98	0.08	55,55,55,55	0
53	MG	DB	3106	1/1	0.98	0.04	37,37,37,37	0
53	MG	CA	2042	1/1	0.98	0.04	66,66,66,66	0
53	MG	CA	2044	1/1	0.98	0.03	67,67,67,67	0
53	MG	BB	3084	1/1	0.98	0.12	67,67,67,67	0
53	MG	AA	2017	1/1	0.98	0.07	76,76,76,76	0
53	MG	CA	2049	1/1	0.98	0.07	63,63,63,63	0
53	MG	CA	2052	1/1	0.98	0.05	66,66,66,66	0
53	MG	CA	2054	1/1	0.98	0.03	91,91,91,91	0
53	MG	CA	2014	1/1	0.98	0.05	72,72,72,72	0
53	MG	AA	2038	1/1	0.98	0.06	45,45,45,45	0
53	MG	CA	2059	1/1	0.98	0.07	51,51,51,51	0
53	MG	CA	2060	1/1	0.98	0.07	55,55,55,55	0
53	MG	AA	2021	1/1	0.99	0.12	23,23,23,23	0
53	MG	AA	2029	1/1	0.99	0.03	50,50,50,50	0
53	MG	BB	3051	1/1	0.99	0.03	43,43,43,43	0
53	MG	BB	3052	1/1	0.99	0.11	26,26,26,26	0
53	MG	BB	3053	1/1	0.99	0.03	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	CA	2031	1/1	0.99	0.03	37,37,37,37	0
53	MG	CA	2033	1/1	0.99	0.06	57,57,57,57	0
53	MG	CA	2034	1/1	0.99	0.03	15,15,15,15	0
53	MG	BB	3054	1/1	0.99	0.04	39,39,39,39	0
53	MG	BB	3055	1/1	0.99	0.07	40,40,40,40	0
53	MG	AA	2011	1/1	0.99	0.04	41,41,41,41	0
53	MG	BB	3058	1/1	0.99	0.04	32,32,32,32	0
53	MG	BB	3059	1/1	0.99	0.03	39,39,39,39	0
53	MG	BB	3061	1/1	0.99	0.05	45,45,45,45	0
53	MG	CA	2043	1/1	0.99	0.07	31,31,31,31	0
53	MG	AA	2040	1/1	0.99	0.09	65,65,65,65	0
53	MG	CA	2045	1/1	0.99	0.07	77,77,77,77	0
53	MG	CA	2046	1/1	0.99	0.03	70,70,70,70	0
53	MG	BB	3064	1/1	0.99	0.06	37,37,37,37	0
53	MG	BB	3065	1/1	0.99	0.03	44,44,44,44	0
53	MG	BB	3067	1/1	0.99	0.04	40,40,40,40	0
53	MG	CA	2051	1/1	0.99	0.02	38,38,38,38	0
53	MG	AA	2041	1/1	0.99	0.03	57,57,57,57	0
53	MG	AA	2060	1/1	0.99	0.03	46,46,46,46	0
53	MG	CA	2056	1/1	0.99	0.04	32,32,32,32	0
53	MG	BB	3003	1/1	0.99	0.09	17,17,17,17	0
53	MG	BB	3073	1/1	0.99	0.04	33,33,33,33	0
53	MG	BB	3075	1/1	0.99	0.09	33,33,33,33	0
53	MG	BB	3076	1/1	0.99	0.04	23,23,23,23	0
53	MG	AA	2042	1/1	0.99	0.04	28,28,28,28	0
53	MG	DB	3001	1/1	0.99	0.04	5,5,5,5	0
53	MG	DB	3003	1/1	0.99	0.03	17,17,17,17	0
53	MG	DB	3004	1/1	0.99	0.06	21,21,21,21	0
53	MG	DB	3011	1/1	0.99	0.07	35,35,35,35	0
53	MG	BB	3007	1/1	0.99	0.03	60,60,60,60	0
53	MG	BB	3079	1/1	0.99	0.03	52,52,52,52	0
53	MG	AA	2043	1/1	0.99	0.02	44,44,44,44	0
53	MG	DB	3020	1/1	0.99	0.09	5,5,5,5	0
53	MG	DB	3022	1/1	0.99	0.04	23,23,23,23	0
53	MG	AA	2016	1/1	0.99	0.02	36,36,36,36	0
53	MG	DB	3026	1/1	0.99	0.06	33,33,33,33	0
53	MG	DB	3027	1/1	0.99	0.03	12,12,12,12	0
53	MG	DB	3028	1/1	0.99	0.08	37,37,37,37	0
53	MG	AA	2045	1/1	0.99	0.15	48,48,48,48	0
53	MG	AA	2004	1/1	0.99	0.03	35,35,35,35	0
53	MG	DB	3031	1/1	0.99	0.03	8,8,8,8	0
53	MG	DB	3032	1/1	0.99	0.05	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	DB	3033	1/1	0.99	0.02	18,18,18,18	0
53	MG	BB	3088	1/1	0.99	0.03	26,26,26,26	0
53	MG	BB	3014	1/1	0.99	0.06	39,39,39,39	0
53	MG	BB	3016	1/1	0.99	0.06	43,43,43,43	0
53	MG	DB	3039	1/1	0.99	0.09	36,36,36,36	0
53	MG	DB	3041	1/1	0.99	0.04	41,41,41,41	0
53	MG	DB	3042	1/1	0.99	0.03	22,22,22,22	0
53	MG	DB	3043	1/1	0.99	0.05	5,5,5,5	0
53	MG	DB	3044	1/1	0.99	0.05	18,18,18,18	0
53	MG	DB	3045	1/1	0.99	0.03	66,66,66,66	0
53	MG	DB	3048	1/1	0.99	0.06	36,36,36,36	0
53	MG	DB	3050	1/1	0.99	0.05	73,73,73,73	0
53	MG	BB	3019	1/1	0.99	0.03	49,49,49,49	0
53	MG	BB	3020	1/1	0.99	0.07	13,13,13,13	0
53	MG	DB	3053	1/1	0.99	0.06	66,66,66,66	0
53	MG	BB	3021	1/1	0.99	0.04	22,22,22,22	0
53	MG	AA	2033	1/1	0.99	0.03	69,69,69,69	0
53	MG	BB	3023	1/1	0.99	0.03	11,11,11,11	0
53	MG	BB	3096	1/1	0.99	0.04	44,44,44,44	0
53	MG	BB	3024	1/1	0.99	0.11	21,21,21,21	0
53	MG	DB	3062	1/1	0.99	0.04	43,43,43,43	0
53	MG	DB	3063	1/1	0.99	0.03	21,21,21,21	0
53	MG	BB	3098	1/1	0.99	0.02	43,43,43,43	0
53	MG	BB	3026	1/1	0.99	0.04	24,24,24,24	0
53	MG	DB	3071	1/1	0.99	0.03	34,34,34,34	0
53	MG	DB	3072	1/1	0.99	0.04	25,25,25,25	0
53	MG	BB	3027	1/1	0.99	0.05	24,24,24,24	0
53	MG	BB	3103	1/1	0.99	0.07	5,5,5,5	0
53	MG	BB	3104	1/1	0.99	0.03	18,18,18,18	0
53	MG	DB	3079	1/1	0.99	0.04	43,43,43,43	0
53	MG	BB	3105	1/1	0.99	0.03	34,34,34,34	0
53	MG	BB	3028	1/1	0.99	0.05	16,16,16,16	0
53	MG	BB	3107	1/1	0.99	0.04	41,41,41,41	0
53	MG	BB	3030	1/1	0.99	0.05	53,53,53,53	0
53	MG	DB	3086	1/1	0.99	0.06	24,24,24,24	0
53	MG	CA	2003	1/1	0.99	0.02	44,44,44,44	0
53	MG	CA	2004	1/1	0.99	0.10	13,13,13,13	0
53	MG	BB	3031	1/1	0.99	0.07	32,32,32,32	0
53	MG	CA	2007	1/1	0.99	0.04	47,47,47,47	0
53	MG	AA	2048	1/1	0.99	0.03	48,48,48,48	0
53	MG	DB	3097	1/1	0.99	0.05	42,42,42,42	0
53	MG	DB	3099	1/1	0.99	0.04	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	CA	2009	1/1	0.99	0.04	84,84,84,84	0
53	MG	AA	2018	1/1	0.99	0.04	76,76,76,76	0
53	MG	DB	3107	1/1	0.99	0.04	15,15,15,15	0
53	MG	DB	3108	1/1	0.99	0.06	5,5,5,5	0
53	MG	AA	2013	1/1	0.99	0.03	70,70,70,70	0
53	MG	CA	2012	1/1	0.99	0.04	49,49,49,49	0
53	MG	BB	3035	1/1	0.99	0.03	35,35,35,35	0
53	MG	BB	3036	1/1	0.99	0.05	57,57,57,57	0
53	MG	BB	3037	1/1	0.99	0.03	29,29,29,29	0
53	MG	AA	2006	1/1	0.99	0.03	57,57,57,57	0
53	MG	BB	3039	1/1	0.99	0.04	35,35,35,35	0
53	MG	BB	3040	1/1	0.99	0.07	40,40,40,40	0
53	MG	AA	2053	1/1	0.99	0.04	58,58,58,58	0
53	MG	AA	2054	1/1	0.99	0.03	66,66,66,66	0
53	MG	BB	3044	1/1	0.99	0.03	55,55,55,55	0
53	MG	CA	2024	1/1	1.00	0.06	23,23,23,23	0
53	MG	BB	3062	1/1	1.00	0.03	29,29,29,29	0
53	MG	BB	3025	1/1	1.00	0.02	51,51,51,51	0
53	MG	BB	3041	1/1	1.00	0.02	18,18,18,18	0
53	MG	BB	3012	1/1	1.00	0.04	31,31,31,31	0
53	MG	BB	3066	1/1	1.00	0.03	37,37,37,37	0
53	MG	AA	2010	1/1	1.00	0.04	45,45,45,45	0
53	MG	AA	2003	1/1	1.00	0.02	29,29,29,29	0
53	MG	CA	2032	1/1	1.00	0.04	22,22,22,22	0
53	MG	BB	3069	1/1	1.00	0.07	5,5,5,5	0
53	MG	BB	3101	1/1	1.00	0.06	11,11,11,11	0
53	MG	DB	3037	1/1	1.00	0.07	5,5,5,5	0
53	MG	DB	3038	1/1	1.00	0.03	17,17,17,17	0
53	MG	BB	3102	1/1	1.00	0.01	16,16,16,16	0
53	MG	DB	3040	1/1	1.00	0.04	5,5,5,5	0
53	MG	BB	3070	1/1	1.00	0.01	24,24,24,24	0
53	MG	BB	3045	1/1	1.00	0.04	19,19,19,19	0
53	MG	BB	3046	1/1	1.00	0.02	50,50,50,50	0
53	MG	CA	2039	1/1	1.00	0.04	19,19,19,19	0
53	MG	CA	2040	1/1	1.00	0.03	12,12,12,12	0
53	MG	DB	3046	1/1	1.00	0.02	5,5,5,5	0
53	MG	DB	3047	1/1	1.00	0.04	5,5,5,5	0
53	MG	BB	3029	1/1	1.00	0.03	5,5,5,5	0
53	MG	DB	3049	1/1	1.00	0.05	5,5,5,5	0
53	MG	BB	3074	1/1	1.00	0.03	9,9,9,9	0
53	MG	BB	3108	1/1	1.00	0.02	12,12,12,12	0
53	MG	BB	3109	1/1	1.00	0.03	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	BB	3048	1/1	1.00	0.03	22,22,22,22	0
53	MG	DB	3054	1/1	1.00	0.05	13,13,13,13	0
53	MG	DB	3055	1/1	1.00	0.10	11,11,11,11	0
53	MG	DB	3056	1/1	1.00	0.01	5,5,5,5	0
53	MG	CA	2001	1/1	1.00	0.06	5,5,5,5	0
53	MG	CA	2002	1/1	1.00	0.02	27,27,27,27	0
53	MG	BB	3049	1/1	1.00	0.02	20,20,20,20	0
53	MG	BB	3015	1/1	1.00	0.08	5,5,5,5	0
53	MG	CA	2050	1/1	1.00	0.01	5,5,5,5	0
53	MG	CA	2005	1/1	1.00	0.02	10,10,10,10	0
53	MG	BB	3005	1/1	1.00	0.01	5,5,5,5	0
53	MG	DB	3064	1/1	1.00	0.09	11,11,11,11	0
53	MG	DB	3065	1/1	1.00	0.13	16,16,16,16	0
53	MG	CA	2053	1/1	1.00	0.07	51,51,51,51	0
53	MG	DB	3067	1/1	1.00	0.03	5,5,5,5	0
53	MG	DB	3068	1/1	1.00	0.03	5,5,5,5	0
53	MG	DB	3069	1/1	1.00	0.03	21,21,21,21	0
53	MG	BB	3017	1/1	1.00	0.05	16,16,16,16	0
53	MG	CA	2055	1/1	1.00	0.02	31,31,31,31	0
53	MG	BB	3018	1/1	1.00	0.07	54,54,54,54	0
53	MG	BB	3006	1/1	1.00	0.01	19,19,19,19	0
53	MG	DB	3074	1/1	1.00	0.02	5,5,5,5	0
53	MG	DB	3075	1/1	1.00	0.03	41,41,41,41	0
53	MG	DB	3076	1/1	1.00	0.02	43,43,43,43	0
53	MG	BB	3082	1/1	1.00	0.04	5,5,5,5	0
53	MG	BB	3083	1/1	1.00	0.05	33,33,33,33	0
53	MG	AA	2009	1/1	1.00	0.03	27,27,27,27	0
53	MG	DB	3080	1/1	1.00	0.02	5,5,5,5	0
53	MG	DB	3081	1/1	1.00	0.03	5,5,5,5	0
53	MG	CA	2061	1/1	1.00	0.03	25,25,25,25	0
53	MG	CA	2013	1/1	1.00	0.03	48,48,48,48	0
53	MG	BB	3085	1/1	1.00	0.03	59,59,59,59	0
53	MG	DB	3002	1/1	1.00	0.01	12,12,12,12	0
53	MG	BB	3086	1/1	1.00	0.03	5,5,5,5	0
53	MG	DB	3087	1/1	1.00	0.06	63,63,63,63	0
53	MG	DB	3088	1/1	1.00	0.07	18,18,18,18	0
53	MG	CA	2016	1/1	1.00	0.04	10,10,10,10	0
53	MG	DB	3005	1/1	1.00	0.04	6,6,6,6	0
53	MG	DB	3006	1/1	1.00	0.06	5,5,5,5	0
53	MG	DB	3007	1/1	1.00	0.05	18,18,18,18	0
53	MG	DB	3093	1/1	1.00	0.02	7,7,7,7	0
53	MG	DB	3094	1/1	1.00	0.06	14,14,14,14	0

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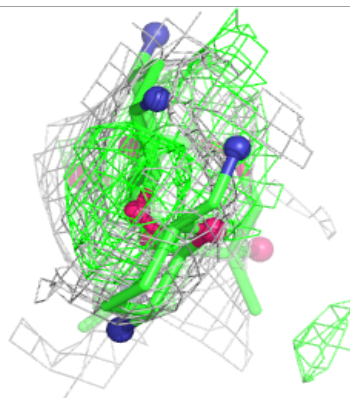
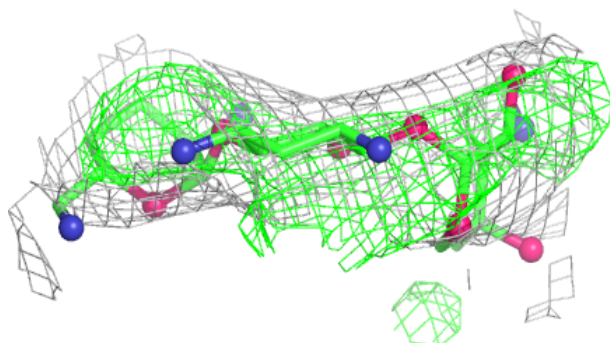
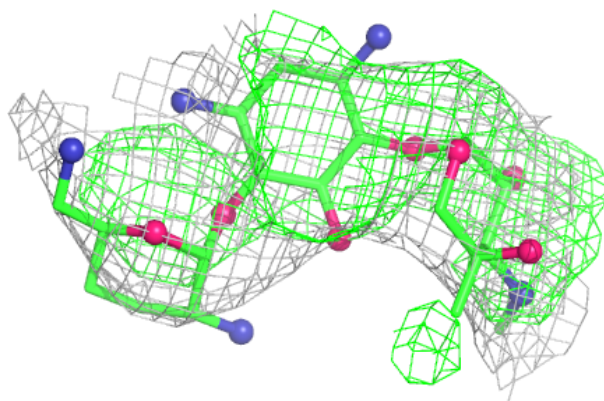
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
53	MG	DB	3008	1/1	1.00	0.02	8,8,8,8	0
53	MG	DB	3096	1/1	1.00	0.05	5,5,5,5	0
53	MG	DB	3009	1/1	1.00	0.06	5,5,5,5	0
53	MG	DB	3098	1/1	1.00	0.07	23,23,23,23	0
53	MG	DB	3010	1/1	1.00	0.02	14,14,14,14	0
53	MG	DB	3100	1/1	1.00	0.02	5,5,5,5	0
53	MG	DB	3101	1/1	1.00	0.07	26,26,26,26	0
53	MG	DB	3102	1/1	1.00	0.01	16,16,16,16	0
53	MG	DB	3103	1/1	1.00	0.03	7,7,7,7	0
53	MG	CA	2017	1/1	1.00	0.10	5,5,5,5	0
53	MG	DB	3105	1/1	1.00	0.02	30,30,30,30	0
53	MG	DB	3012	1/1	1.00	0.01	14,14,14,14	0
53	MG	BB	3056	1/1	1.00	0.04	22,22,22,22	0
53	MG	DB	3014	1/1	1.00	0.07	13,13,13,13	0
53	MG	DB	3109	1/1	1.00	0.01	28,28,28,28	0
53	MG	DB	3110	1/1	1.00	0.08	29,29,29,29	0
53	MG	AA	2052	1/1	1.00	0.02	69,69,69,69	0
53	MG	DB	3016	1/1	1.00	0.05	17,17,17,17	0
53	MG	DB	3017	1/1	1.00	0.03	5,5,5,5	0
53	MG	BB	3001	1/1	1.00	0.12	8,8,8,8	0
53	MG	DB	3019	1/1	1.00	0.07	6,6,6,6	0
53	MG	BB	3002	1/1	1.00	0.04	5,5,5,5	0
53	MG	DB	3021	1/1	1.00	0.02	5,5,5,5	0
53	MG	BB	3060	1/1	1.00	0.05	59,59,59,59	0
53	MG	DB	3023	1/1	1.00	0.05	13,13,13,13	0
53	MG	BB	3011	1/1	1.00	0.04	21,21,21,21	0
53	MG	DB	3025	1/1	1.00	0.03	5,5,5,5	0

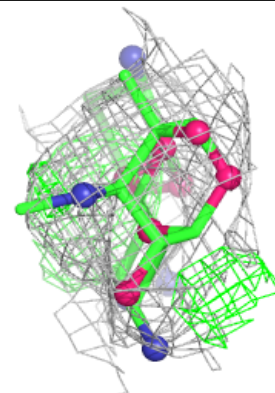
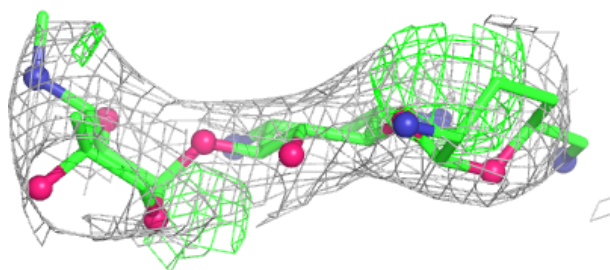
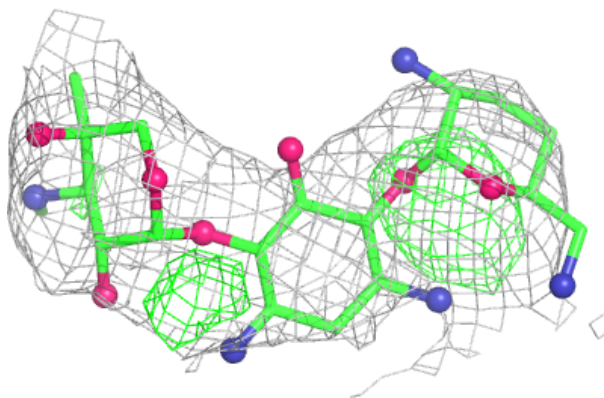
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around LLL AA 2063:

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

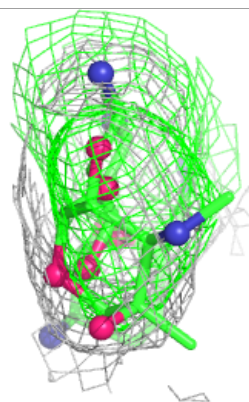
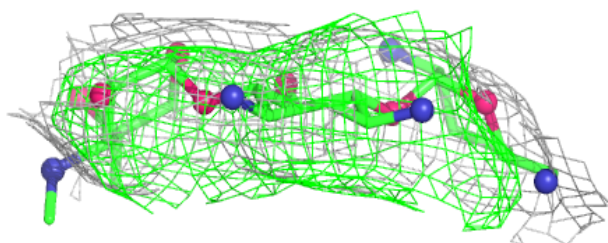
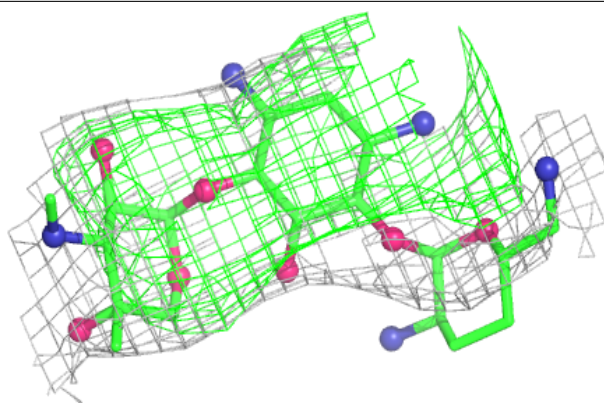
**Electron density around LLL CA 2064:**

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

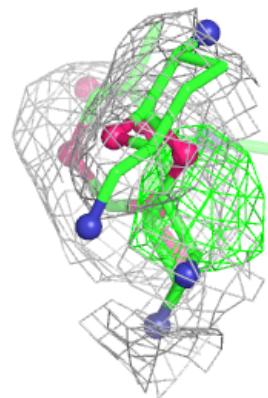
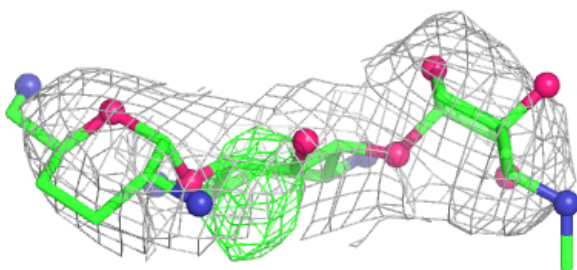
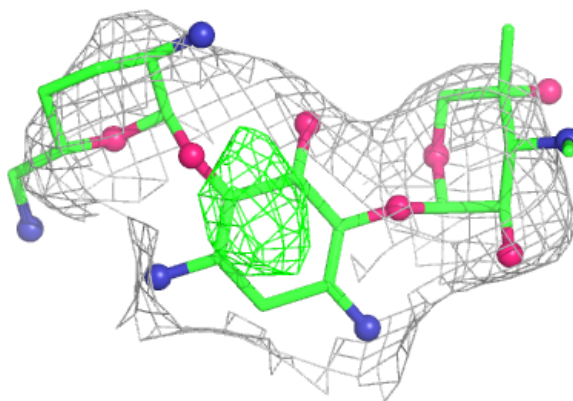


Electron density around LLL AA 2062:

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

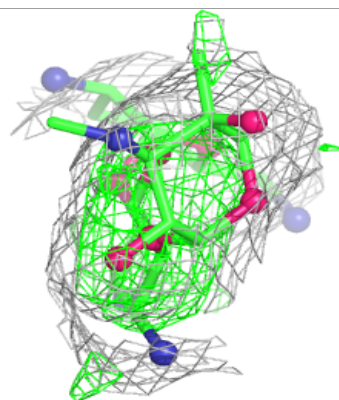
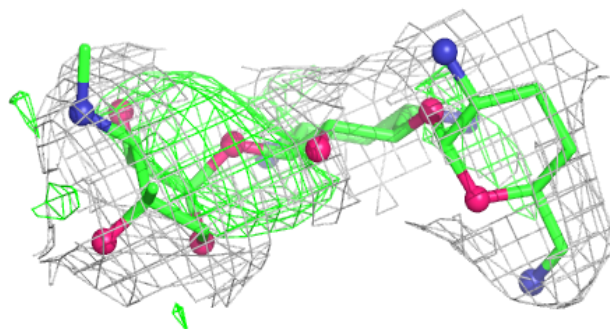
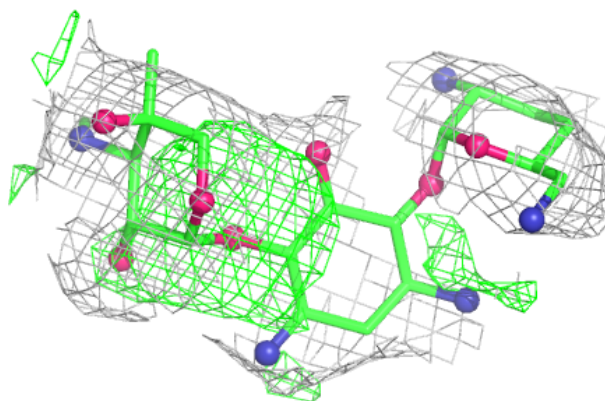
**Electron density around LLL DB 3112:**

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

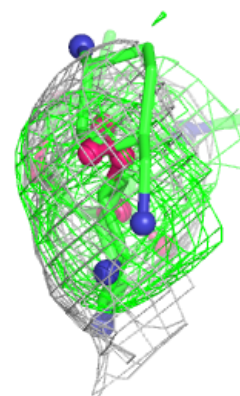
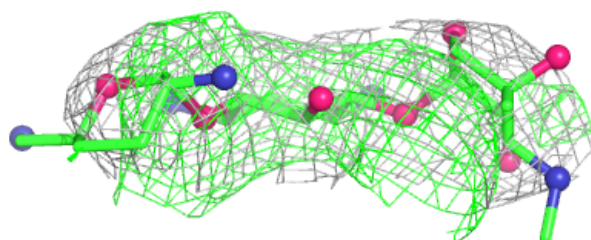
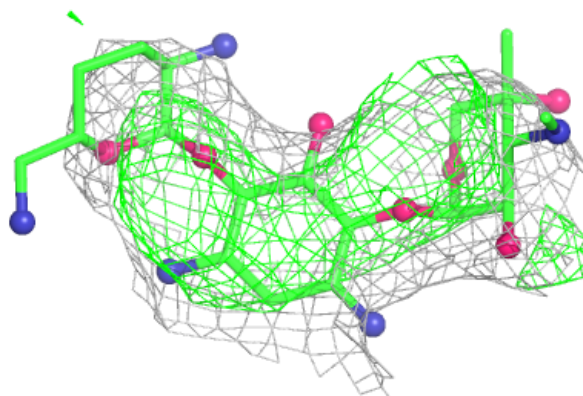


Electron density around LLL CA 2063:

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

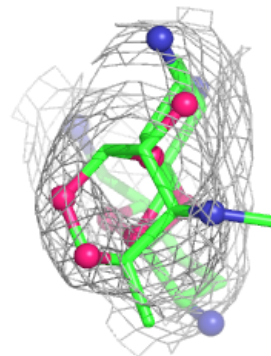
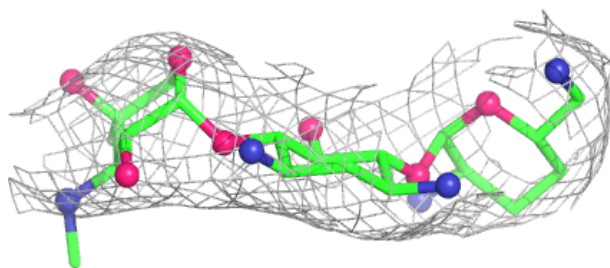
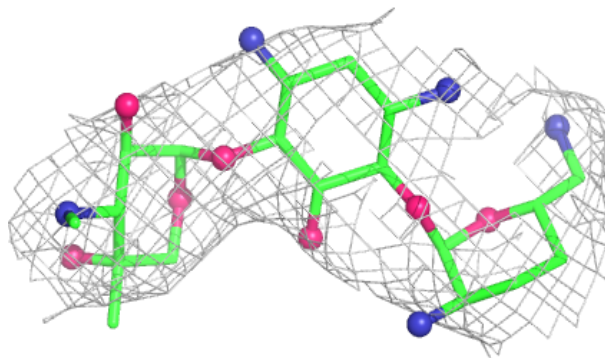
**Electron density around LLL BB 3111:**

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

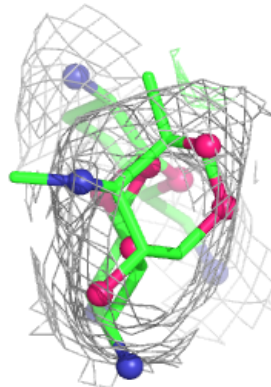
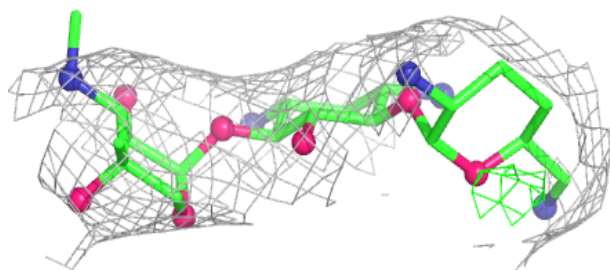
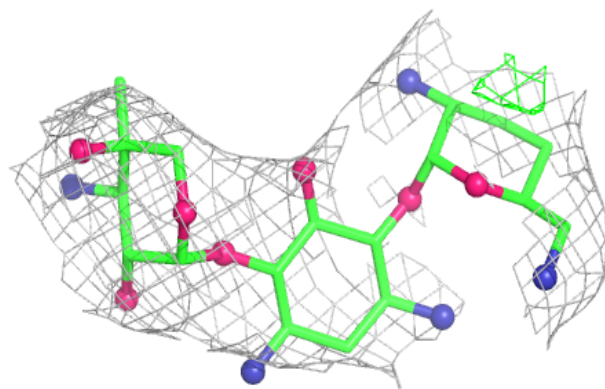


Electron density around LLL AA 2061:

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

**Electron density around LLL CA 2062:**

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



5.5 Other polymers [i](#)

There are no such residues in this entry.