



# wwPDB X-ray Structure Validation Summary Report

Jan 2, 2024 – 10:07 am GMT

PDB ID : 5HL7  
Title : The crystal structure of the large ribosomal subunit of Staphylococcus aureus in complex with lefamulin  
Authors : Eyal, Z.; Matzov, D.; Krupkin, M.; Rozenberg, H.; Zimmerman, E.; Bashan, A.; Yonath, A.  
Deposited on : 2016-01-14  
Resolution : 3.55 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the  symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (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

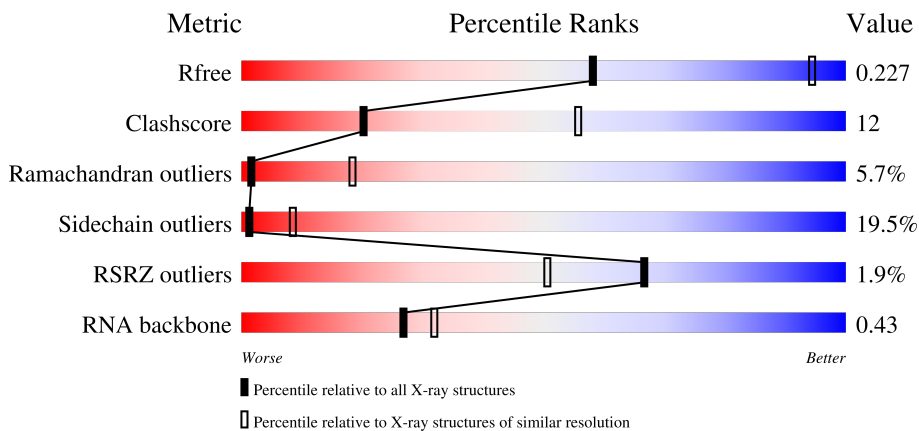
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.55 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	1020 (3.62-3.50)
Clashscore	141614	1100 (3.62-3.50)
Ramachandran outliers	138981	1065 (3.62-3.50)
Sidechain outliers	138945	1066 (3.62-3.50)
RSRZ outliers	127900	1009 (3.64-3.48)
RNA backbone	3102	1008 (4.10-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	277	 67% 24% 6% .
2	X	2923	 32% 41% 17% 7% .
3	Y	114	 34% 42% 23% .

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Mol	Chain	Length	Quality of chain
4	B	220	
5	C	207	
6	D	179	
7	E	178	
8	G	145	
9	H	122	
10	I	140	
11	J	144	
12	K	122	
13	L	119	
14	M	116	
15	N	118	
16	O	102	
17	P	117	
18	Q	91	
19	R	105	
20	S	217	
21	T	94	
22	U	62	
23	V	69	
24	W	59	
25	Z	58	
26	2	45	
27	3	66	
28	4	37	

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
29	MN	X	3114	-	-	-	X
29	MN	X	3155	-	-	-	X
29	MN	X	3186	-	-	-	X
29	MN	X	3225	-	-	-	X
29	MN	X	3421	-	-	-	X
29	MN	X	3446	-	-	-	X
29	MN	X	3454	-	-	-	X
29	MN	X	3458	-	-	-	X
29	MN	X	3471	-	-	-	X
30	MG	A	302	-	-	-	X
30	MG	G	201	-	-	-	X
30	MG	P	201	-	-	-	X
30	MG	X	3087	-	-	-	X
30	MG	X	3180	-	-	-	X
30	MG	X	3196	-	-	-	X
30	MG	X	3230	-	-	-	X
30	MG	X	3236	-	-	-	X
30	MG	X	3244	-	-	-	X
30	MG	X	3248	-	-	-	X
30	MG	X	3250	-	-	-	X
30	MG	X	3252	-	-	-	X
30	MG	X	3253	-	-	-	X
30	MG	X	3254	-	-	-	X
30	MG	X	3255	-	-	-	X
30	MG	X	3265	-	-	-	X
30	MG	X	3286	-	-	-	X
30	MG	X	3293	-	-	-	X
30	MG	X	3294	-	-	-	X
30	MG	X	3306	-	-	-	X
30	MG	X	3308	-	-	-	X
30	MG	X	3327	-	-	-	X
30	MG	X	3332	-	-	-	X
30	MG	X	3335	-	-	-	X
30	MG	X	3336	-	-	-	X
30	MG	X	3337	-	-	-	X
30	MG	X	3339	-	-	-	X
30	MG	X	3340	-	-	-	X
30	MG	X	3341	-	-	-	X
30	MG	X	3342	-	-	-	X
30	MG	X	3344	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
30	MG	X	3346	-	-	-	X
30	MG	X	3348	-	-	-	X
30	MG	X	3349	-	-	-	X
30	MG	X	3351	-	-	-	X
30	MG	X	3352	-	-	-	X
30	MG	X	3358	-	-	-	X
30	MG	X	3365	-	-	-	X
30	MG	X	3370	-	-	-	X
30	MG	X	3382	-	-	-	X
30	MG	X	3386	-	-	-	X
30	MG	X	3391	-	-	-	X
30	MG	X	3393	-	-	-	X
30	MG	X	3398	-	-	-	X
30	MG	X	3400	-	-	-	X
30	MG	X	3413	-	-	-	X
30	MG	X	3417	-	-	-	X
30	MG	X	3441	-	-	-	X
30	MG	X	3445	-	-	-	X
30	MG	X	3449	-	-	-	X
30	MG	X	3475	-	-	-	X
30	MG	X	3487	-	-	-	X
30	MG	X	3488	-	-	-	X
30	MG	Y	203	-	-	-	X
30	MG	Y	210	-	-	-	X
30	MG	Y	212	-	-	-	X
33	SPD	X	3498	-	-	-	X
35	EPE	N	201	-	-	X	-

## 2 Entry composition [i](#)

There are 35 unique types of molecules in this entry. The entry contains 81462 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 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	269	1667	1007	331	324	5	0	0	0

- Molecule 2 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	X	2705	57983	25884	10620	18774	2705	0	0	0

- Molecule 3 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	Y	114	2430	1086	436	794	114	0	0	0

- Molecule 4 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	B	215	1547	967	289	286	5	0	0	0

- Molecule 5 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	C	199	1324	823	250	249	2	0	0	0

- Molecule 6 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
6	D	165	853	512	165	174	2	0	0	0

- Molecule 7 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
7	E	157	915	559	172	182	2	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	174	LYS	GLY	conflict	UNP Q2FW21

- Molecule 8 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
8	G	145	1090	682	202	203	3	0	0	0

- Molecule 9 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
9	H	122	884	548	167	165	4	0	0	0

- Molecule 10 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	I	131	819	498	164	156	1	0	0	0

- Molecule 11 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	J	138	1001	641	187	170	3	0	0	0

- Molecule 12 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	K	119	906	556	175	174	1	0	0	0

- Molecule 13 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
13	L	109	673	411	134	128	0	0	0

- Molecule 14 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
14	M	110	807	510	162	135	0	0	0

- Molecule 15 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	N	116	922	581	183	154	4	0	0	0

- Molecule 16 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
16	O	102	751	477	138	135	1	0	0	0

- Molecule 17 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
17	P	112	853	531	161	158	3	0	0	0

- Molecule 18 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
18	Q	90	583	365	103	112	3	0	0	0

- Molecule 19 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
19	R	102	627	382	120	124	1	0	0	0

- Molecule 20 is a protein called 50S ribosomal protein L25.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
20	S	167	1087	682	191	212	2	0	0	0

- Molecule 21 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
21	T	75	559	349	110	100		0	0	0

- Molecule 22 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
22	U	42	242	149	48	45		0	0	0

- Molecule 23 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
23	V	65	486	299	89	98		0	0	0

- Molecule 24 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
24	W	57	437	271	82	84		0	0	0

- Molecule 25 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
25	Z	43	339	208	70	57	4	0	0	0

- Molecule 26 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
26	2	43	350	213	85	51	1	0	0	0

- Molecule 27 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
27	3	60	405	248	81	74	2	0	0	0

- Molecule 28 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
28	4	36	181	107	36	36	2	0	0	0

- Molecule 29 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
29	A	1	Total 1	Mn 1	0	0
29	X	268	Total 268	Mn 268	0	0
29	Y	2	Total 2	Mn 2	0	0
29	R	1	Total 1	Mn 1	0	0
29	T	1	Total 1	Mn 1	0	0
29	Z	1	Total 1	Mn 1	0	0

- Molecule 30 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

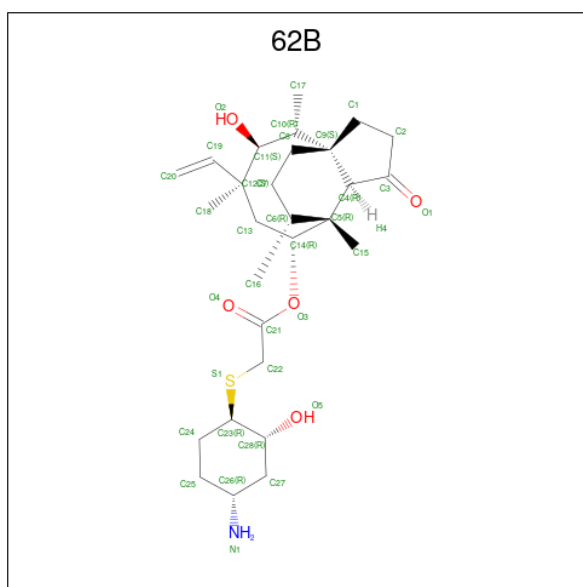
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
30	A	3	Total 3	Mg 3	0	0
30	X	218	Total 218	Mg 218	0	0
30	Y	10	Total 10	Mg 10	0	0
30	C	2	Total 2	Mg 2	0	0
30	G	2	Total 2	Mg 2	0	0
30	I	1	Total 1	Mg 1	0	0
30	J	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
30	M	1	Total	Mg	0	0
			1	1		
30	O	1	Total	Mg	0	0
			1	1		
30	P	1	Total	Mg	0	0
			1	1		

- Molecule 31 is Lefamulin (three-letter code: 62B) (formula:  $C_{28}H_{45}NO_5S$ ).



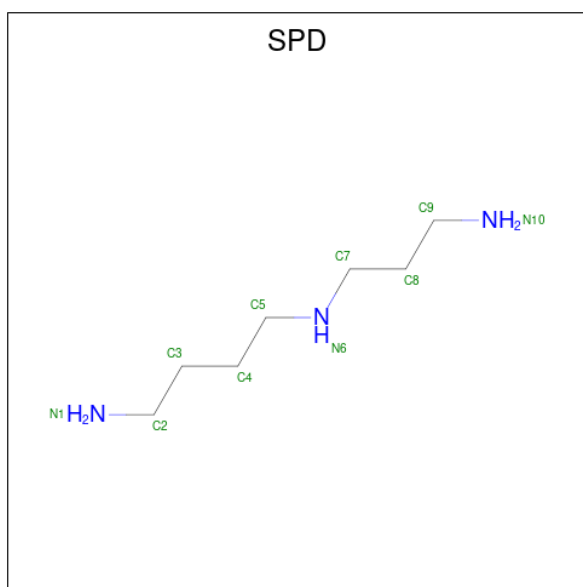
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
31	X	1	Total	C	N	O	S	0	0
			35	28	1	5	1		

- Molecule 32 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula:  $C_6H_{14}O_2$ ).



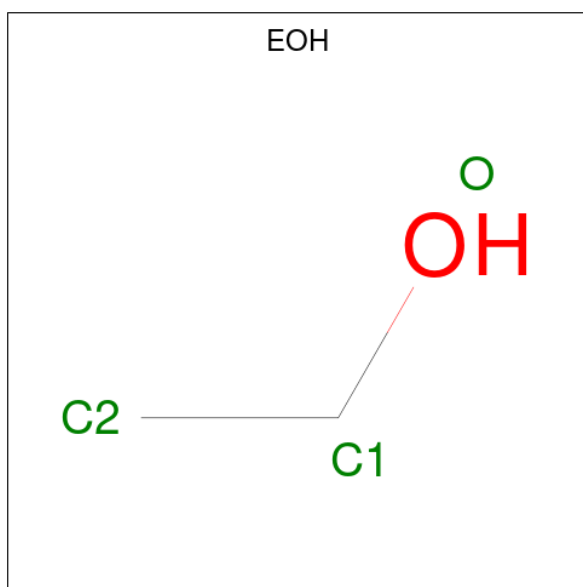
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	X	1	Total C O 8 6 2	0	0
32	J	1	Total C O 8 6 2	0	0
32	Q	1	Total C O 8 6 2	0	0
32	Z	1	Total C O 8 6 2	0	0

- Molecule 33 is SPERMIDINE (three-letter code: SPD) (formula:  $C_7H_{19}N_3$ ).



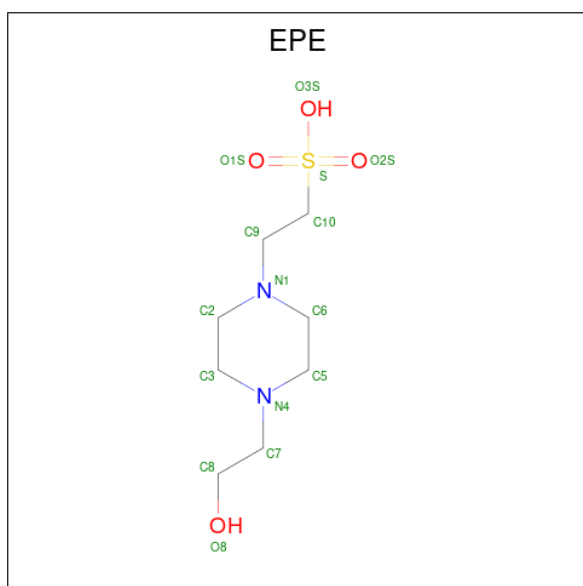
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
33	X	1	Total C N 10 7 3	0	0
33	X	1	Total C N 10 7 3	0	0
33	X	1	Total C N 10 7 3	0	0
33	X	1	Total C N 10 7 3	0	0
33	X	1	Total C N 10 7 3	0	0
33	X	1	Total C N 10 7 3	0	0
33	X	1	Total C N 10 7 3	0	0
33	Y	1	Total C N 10 7 3	0	0

- Molecule 34 is ETHANOL (three-letter code: EOH) (formula: C<sub>2</sub>H<sub>6</sub>O).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
34	X	1	Total C O 3 2 1	0	0
34	X	1	Total C O 3 2 1	0	0
34	S	1	Total C O 3 2 1	0	0

- Molecule 35 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S).

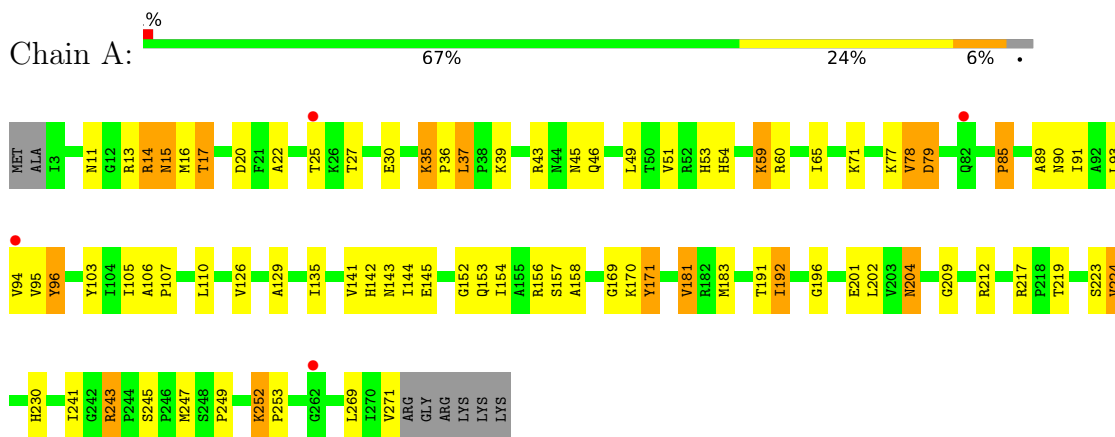


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
35	N	1	15	8	2	4	1	0	0

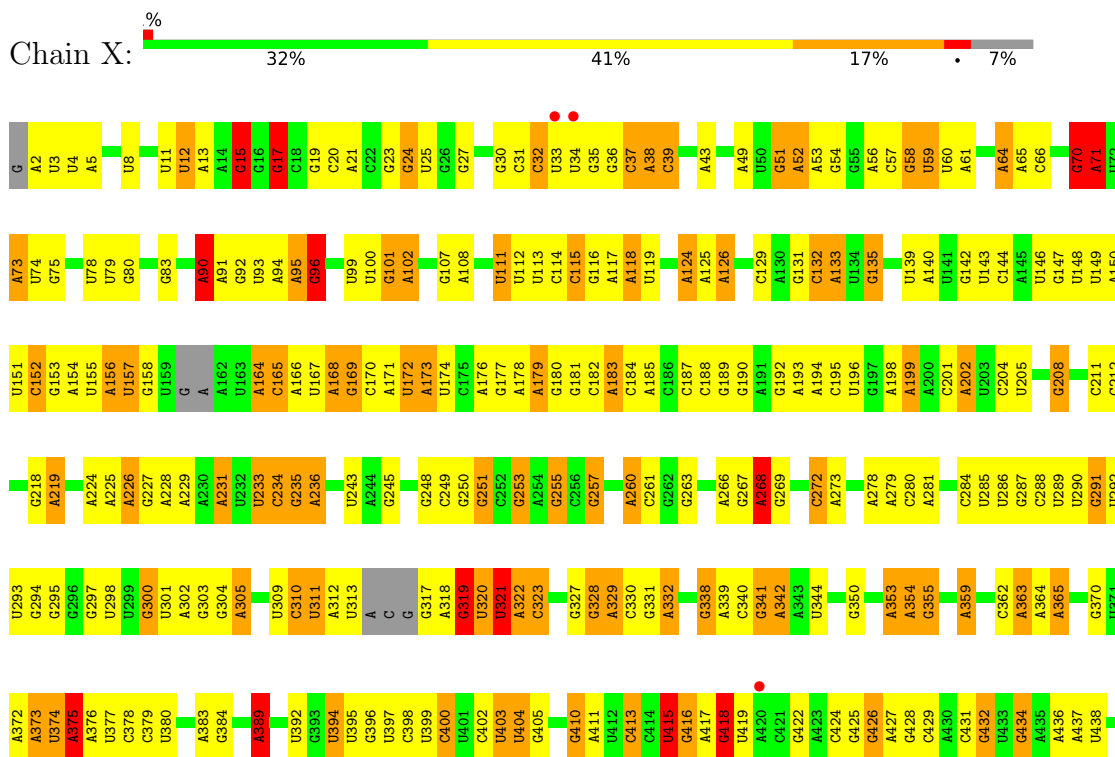
### 3 Residue-property plots i

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

- Molecule 1: 50S ribosomal protein L2



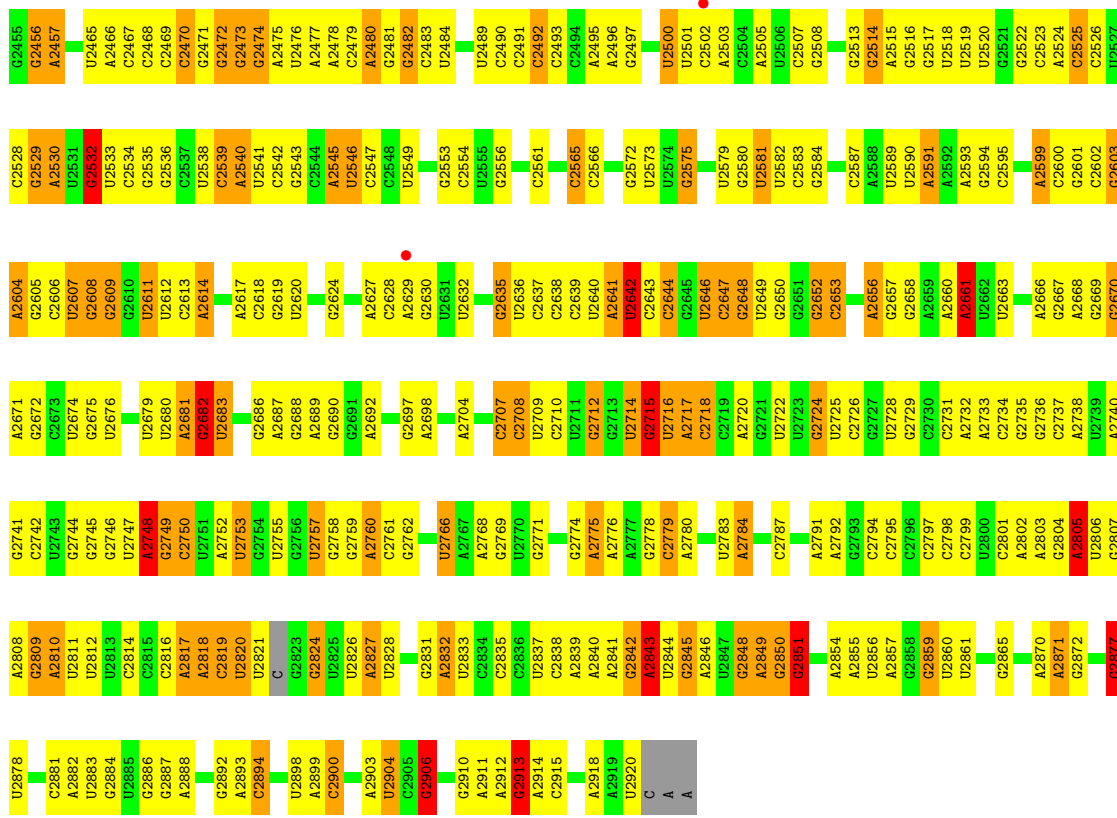
- Molecule 2: 23S ribosomal RNA



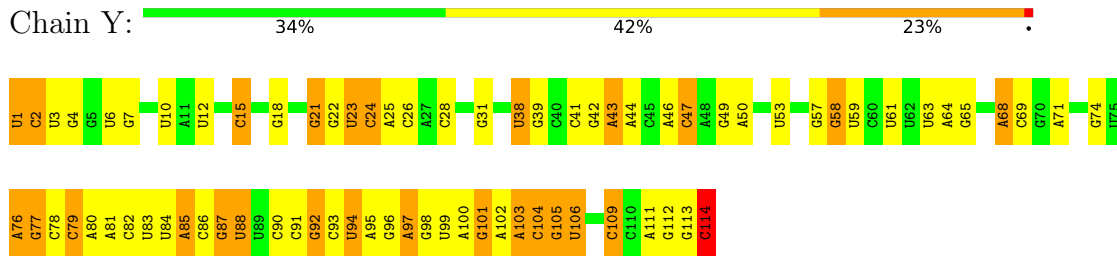




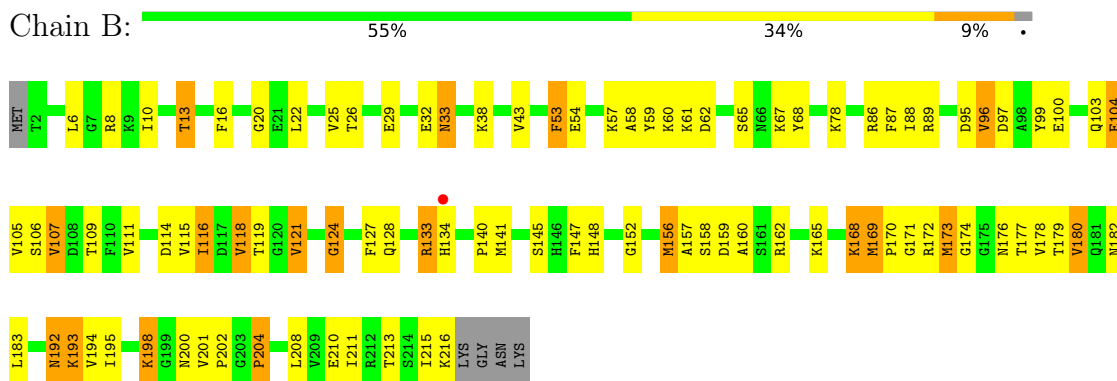
A2385	G2306	U2240	A2109	A2045	A1979	A1911	A1842	G1765	C1604	C1541	A1481
A2388	G2307	C2241	G2110	U2046	A1980	A1912	U1943	G1687	A1605	C1542	U1462
G2389	C2310	U2243	C2111	G2047	G1981	G1915	G1844	U1688	C1606	G1543	A1483
C2391	U2230	U2244	U2113	G2048	U1982	U1916	U1845	G1689	A1607	G1544	G1484
G2392	A2313	G2245	G2114	A2050	U1983	A1917	A1846	A1690	C1608	C1547	G1486
A2393	A2314	U2246	U2115	C2051	C1984	G1918	U1847	G1691	A1609	U1548	U1487
A2394	G2247	G2248	U2119	U2052	G1986	C1919	G1849	C1692	C1610	C1549	A1488
G2395	G2249	G2250	G2120	U2053	A1987	A1920	G1850	G1695	C1611	G1550	A1489
G2396	G	U2125	U2126	G2054	C1988	C1921	A1774	A1699	A1614	U1551	G1490
G2397	G	U2126	G2127	G2055	G1991	A1922	G1780	C1700	G1615	C1491	C1491
C2399	G	C	C	U2056	A1992	A1923	C1781	U1701	A1616	A	U1492
U2400	G	A	A	A2057	A1993	A1926	A1782	C1702	A1617	A	U1493
C2401	G	C	U	A2058	A1994	A1927	U1783	U1703	U1625	G1555	G1494
G2402	C	C	C	G2059	C1995	A1928	U1784	G1704	U1626	C1556	C1495
A2403	C	C	C	A2060	G1996	A1929	U1785	G1705	A1628	C1557	G1496
A2404	C	A	A	G2061	A1997	G1930	U1786	G1706	U1629	U1558	A1497
G2405	C	C	C	U2062	U1998	U1861	A1786	G1710	A1630	G1559	U1498
G2406	G	A	A	C2063	A1999	G1862	G1789	G1711	A1631	C1560	U1499
A2407	C	G	C	A2064	G2000	C1882	U1790	G1711	G1632	G1561	G1501
G2408	C	U	C	G2065	G2001	G1933	G1791	G1718	A1632	C1562	U1502
G2409	C	U	U	U2066	C2001	G1934	C1792	G1719	A	U1563	A1503
G2410	C	U	U	G2067	A2004	C	G1793	A1720	A	G1564	U1504
G2411	C	U	U	U2068	G2006	C	C1794	A1721	A	U1565	G1505
A2412	C	A	A	A2069	A2005	G	A1795	A1722	U1636	A1567	C1506
U2413	C	U	A	C2070	G2006	U	A1796	A1723	A1637	U1568	A1507
U2414	C	A	C	C2071	G2008	A	U1800	A1724	G1638	G1569	C1508
A2415	C	C	A	C2072	A2008	A	C1801	U1725	U1640	U1570	G1509
G2416	C	U	U	G2073	U2009	C	G1802	G1726	U1640	G1571	U1510
U2417	C	A	G	C2074	U2010	C	A1803	C1727	C1643	G1572	C1511
U2418	C	C	C	G2075	G2011	A	U1804	G1731	C1644	A1573	U1512
A2419	C	U	U	A2076	G2012	A	U1805	U1732	U1645	G1574	A1513
U2420	C	A	A	C2077	G2013	A	U1806	A1733	U1646	A1575	A1514
C2421	C	G	G	G2078	C2017	A	U1881	A1734	A1649	G1576	G1515
G2424	C	A	U	G2079	U2018	C	G1882	A1735	G1650	A1577	C1516
U2425	C	C	U	G2080	G2019	G	A1811	C1740	C1651	C	U1518
A2355	C	U	U	A2081	U2020	U	U1812	G1741	A1652	A	U1519
A2356	C	U	G	C2082	A2020	C	A1813	G1742	A1653	U	A
A2357	C	U	A	G2083	A2024	C	C1815	A1743	A1654	U	A1521
G2357	C	G	G	U2084	A2025	C	C1816	G1744	A1654	G	G1522
G2358	C	U	C	A2085	C2026	U	U1891	A1745	A1654	G	G1523
G2359	C	C	C	A2086	G2027	C	U1892	G1746	A1658	C	C1524
G2360	C	U	C	A2087	A2028	U	A1818	G1747	C1659	U	U
U2361	C	U	U	G2088	G2029	U	G1819	G1748	A1660	C	G1526
A2362	C	U	U	A2089	A2030	U	C1820	G1749	A1661	U	A1527
A2363	C	U	G	G2092	G2031	U	U1821	U1750	A1662	U	U1528
U2370	C	A	A	C2093	A2032	C	C1822	G1751	G1663	C	U1529
U2371	C	A	A	G2094	U2033	C	U1823	C1752	U1664	G1591	A1530
G2372	C	A	A	U2095	U2034	U	A1824	G1756	U1665	U	U
A2373	C	A	A	G2096	C2035	U	U1825	U1757	A1677	G1592	U
C2374	C	G	C	G2097	G2036	C	C1826	U1758	G1677	G1593	U
U2375	C	G	C	A2098	U2037	U	G1827	G1759	A1678	G1594	A
U2376	C	U	U	U2099	G2038	U	U1835	G1760	A1679	C1595	A
G2377	C	U	G	C2100	U2039	C	A1836	G1761	A1682	G1596	G
G2378	C	A	A	U2101	A2040	C	U1837	U1762	U1683	U1597	C
A2379	C	C	C	U2102	A2041	C	G1838	U1763	A1684	U1598	A
G2303	C	C	C	G2107	U2042	U	G1841	A1764	A1685	A1600	A1539
A2305	C	U	U	U2108	C2044	U	G1910	A1764	A1685	G1600	U1540



• Molecule 3: 5S ribosomal RNA

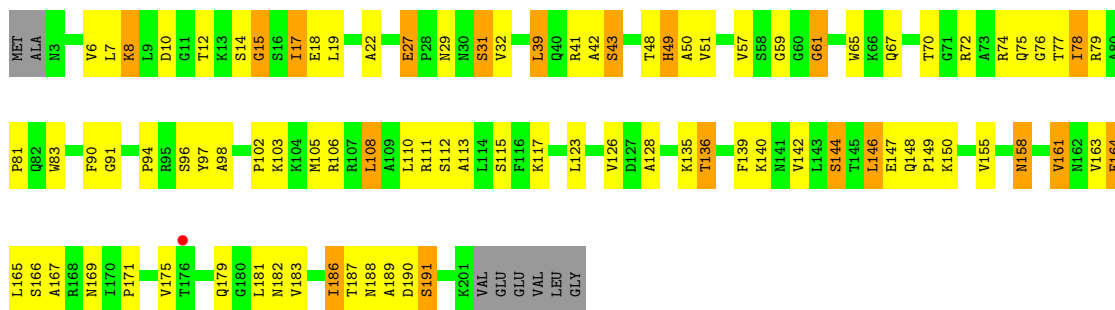


• Molecule 4: 50S ribosomal protein L3




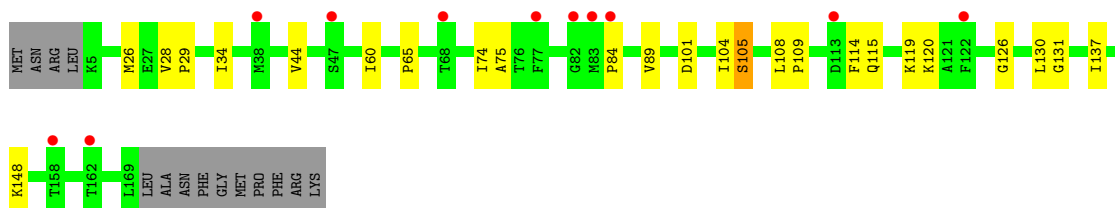
• Molecule 5: 50S ribosomal protein L4

Chain C:  53% 34% 9%



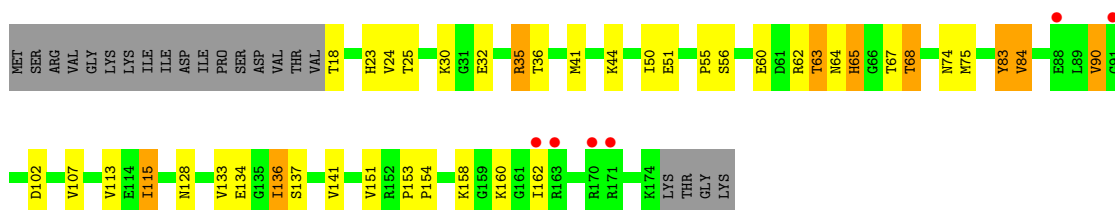
• Molecule 6: 50S ribosomal protein L5

Chain D:  6% 78% 13% 8%



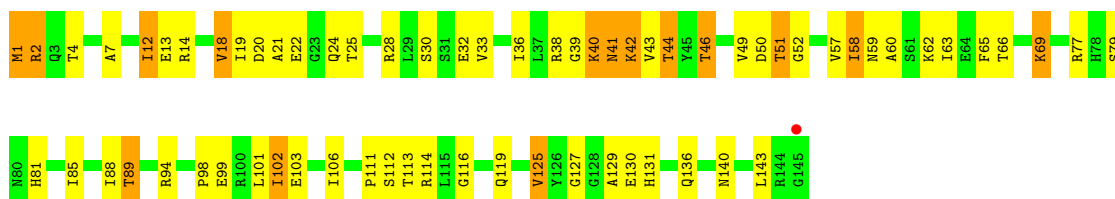
• Molecule 7: 50S ribosomal protein L6

Chain E:  3% 65% 19% 5% 12%



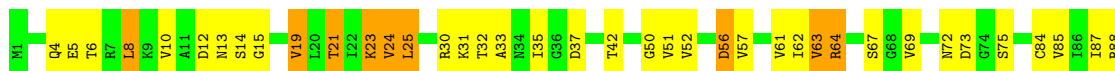
• Molecule 8: 50S ribosomal protein L13

Chain G:  54% 36% 10%

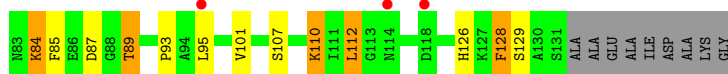
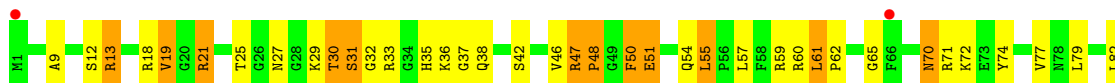


• Molecule 9: 50S ribosomal protein L14

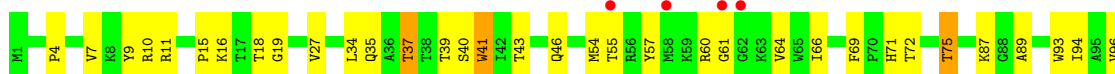
Chain H:  52% 38% 10%



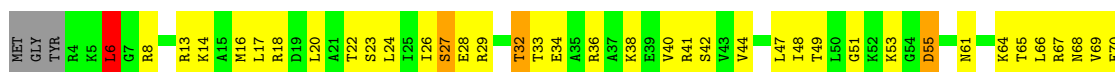
- Molecule 10: 50S ribosomal protein L15



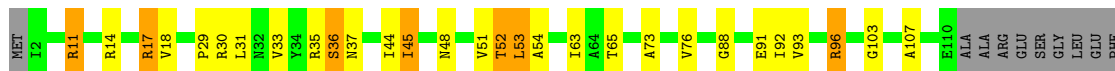
- Molecule 11: 50S ribosomal protein L16



- Molecule 12: 50S ribosomal protein L17

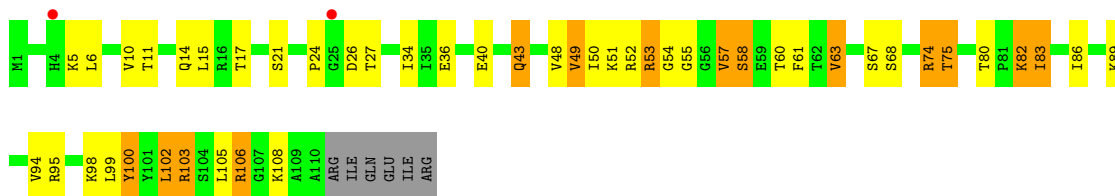


- Molecule 13: 50S ribosomal protein L18



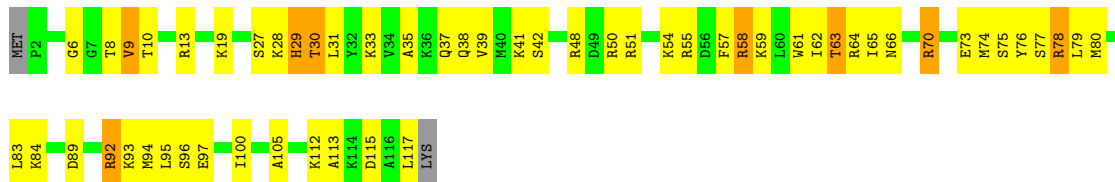
- Molecule 14: 50S ribosomal protein L19





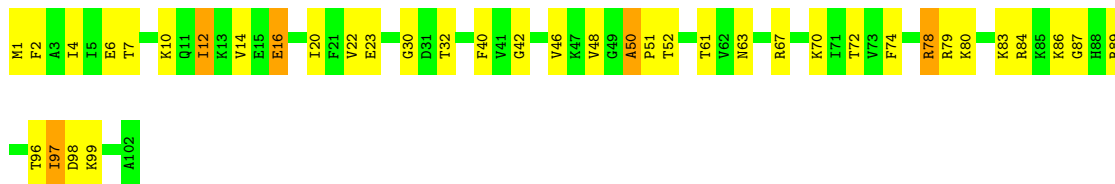
- Molecule 15: 50S ribosomal protein L20

Chain N: 51% 41% 7%



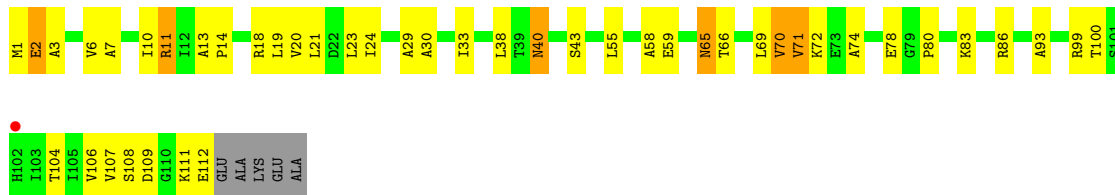
- Molecule 16: 50S ribosomal protein L21

Chain O: 62% 33% 5%



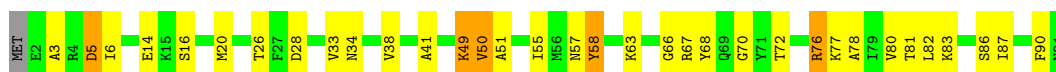
- Molecule 17: 50S ribosomal protein L22

Chain P: 57% 33% 5%



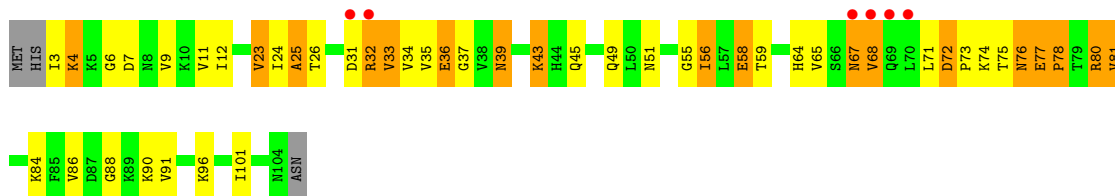
- Molecule 18: 50S ribosomal protein L23

Chain Q: 62% 32% 5%

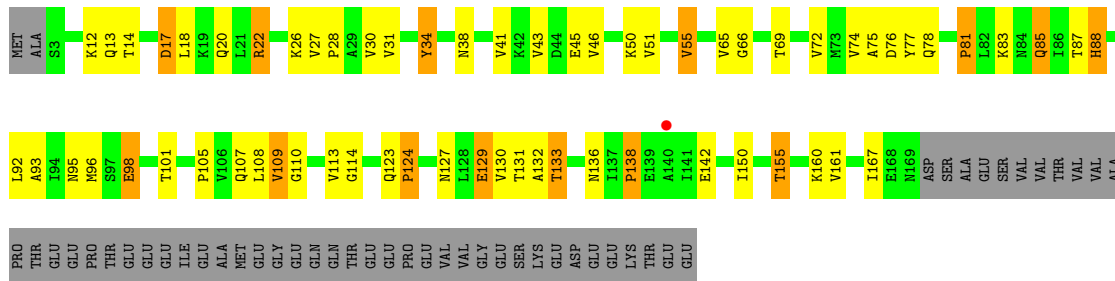


- Molecule 19: 50S ribosomal protein L24

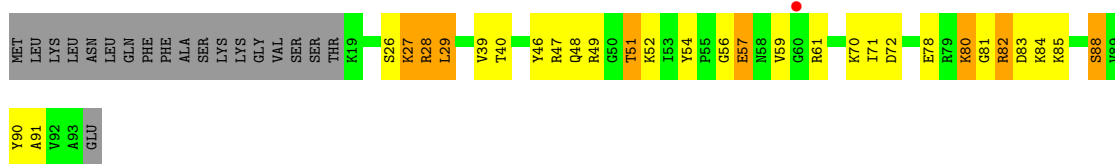
Chain R: 6% 51% 29% 17%



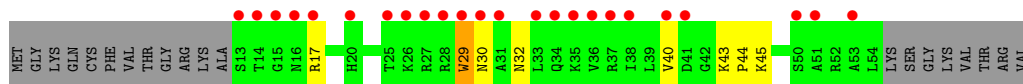
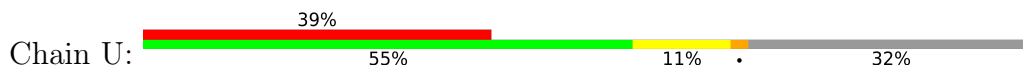
● Molecule 20: 50S ribosomal protein L25



● Molecule 21: 50S ribosomal protein L27



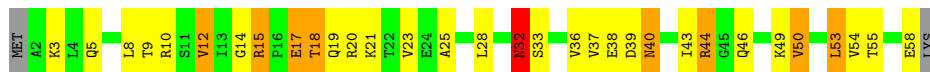
● Molecule 22: 50S ribosomal protein L28



● Molecule 23: 50S ribosomal protein L29



● Molecule 24: 50S ribosomal protein L30



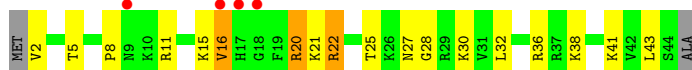
- Molecule 25: 50S ribosomal protein L32

Chain Z: 



- Molecule 26: 50S ribosomal protein L34

Chain 2: 




- Molecule 27: 50S ribosomal protein L35

Chain 3: 



- Molecule 28: 50S ribosomal protein L36

Chain 4: 





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	282.11Å 282.11Å 875.34Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.93 – 3.55 49.93 – 3.55	Depositor EDS
% Data completeness (in resolution range)	95.4 (49.93-3.55) 95.4 (49.93-3.55)	Depositor EDS
$R_{merge}$	0.21	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.53 (at 3.57Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.187 , 0.227 0.189 , 0.227	Depositor DCC
$R_{free}$ test set	11847 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	105.6	Xtrriage
Anisotropy	0.307	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.22 , 56.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.46$ , $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	81462	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	110.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.34% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: MG, EPE, MN, EOH, MPD, SPD, 62B

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	0.26	0/1697	0.56	0/2332
2	X	0.96	108/64923 (0.2%)	1.63	1547/101215 (1.5%)
3	Y	0.90	10/2717 (0.4%)	1.73	90/4232 (2.1%)
4	B	0.68	0/1570	0.90	2/2117 (0.1%)
5	C	0.72	0/1343	0.98	1/1838 (0.1%)
6	D	0.33	0/855	0.56	0/1185
7	E	0.44	0/925	0.61	0/1279
8	G	0.78	0/1112	0.87	0/1507
9	H	0.62	0/891	0.80	0/1203
10	I	0.75	0/827	1.02	2/1121 (0.2%)
11	J	0.61	0/1023	0.80	0/1388
12	K	0.35	0/909	0.62	1/1217 (0.1%)
13	L	0.50	0/678	0.69	0/927
14	M	0.72	0/819	0.94	2/1107 (0.2%)
15	N	0.83	0/934	0.99	0/1241
16	O	0.84	1/761 (0.1%)	0.97	3/1022 (0.3%)
17	P	0.41	0/861	0.64	0/1160
18	Q	0.57	0/589	0.78	0/808
19	R	0.67	1/631 (0.2%)	0.85	0/863
20	S	0.60	0/1099	0.84	0/1509
21	T	0.59	0/565	0.79	0/751
22	U	0.37	0/247	0.57	0/344
23	V	0.50	0/487	0.64	0/654
24	W	0.73	0/439	0.93	0/593
25	Z	0.80	0/345	0.90	0/460
26	2	0.72	0/353	0.94	0/463
27	3	0.75	0/409	1.07	1/550 (0.2%)
28	4	0.41	0/180	0.66	0/249
All	All	0.89	120/88189 (0.1%)	1.50	1649/133335 (1.2%)

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	A	0	1
4	B	0	2
5	C	0	2
10	I	0	1
16	O	0	1
17	P	0	1
20	S	0	1
27	3	0	2
All	All	0	11

The worst 5 of 120 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	1186	A	N9-C4	-12.81	1.30	1.37
2	X	1289	A	N9-C4	-11.75	1.30	1.37
2	X	2845	G	N9-C4	-9.65	1.30	1.38
2	X	1065	A	N9-C4	-9.16	1.32	1.37
2	X	2740	A	N9-C4	-8.95	1.32	1.37

The worst 5 of 1649 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Y	93	C	N3-C2-O2	-20.18	107.77	121.90
2	X	2845	G	N3-C4-C5	18.48	137.84	128.60
3	Y	93	C	N1-C2-O2	16.73	128.94	118.90
2	X	1395	G	N1-C6-O6	-16.42	110.05	119.90
2	X	1289	A	C2-N3-C4	-16.32	102.44	110.60

There are no chirality outliers.

5 of 11 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	77	LYS	Peptide
4	B	104	GLU	Peptide
4	B	57	LYS	Peptide
5	C	161	VAL	Peptide
5	C	27	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	1667	0	1292	51	0
2	X	57983	0	29161	923	0
3	Y	2430	0	1229	58	0
4	B	1547	0	1514	66	0
5	C	1324	0	1175	57	0
6	D	853	0	444	6	0
7	E	915	0	648	22	0
8	G	1090	0	1034	48	0
9	H	884	0	902	45	0
10	I	819	0	687	43	0
11	J	1001	0	971	37	0
12	K	906	0	930	36	0
13	L	673	0	538	19	0
14	M	807	0	803	32	0
15	N	922	0	973	61	0
16	O	751	0	743	22	0
17	P	853	0	900	30	0
18	Q	583	0	472	21	0
19	R	627	0	510	24	0
20	S	1087	0	934	26	0
21	T	559	0	569	24	0
22	U	242	0	141	4	0
23	V	486	0	469	10	0
24	W	437	0	467	26	0
25	Z	339	0	350	23	0
26	2	350	0	383	12	0
27	3	405	0	363	19	0
28	4	181	0	76	5	0
29	A	1	0	0	0	0
29	R	1	0	0	0	0
29	T	1	0	0	0	0
29	X	268	0	0	0	0
29	Y	2	0	0	0	0
29	Z	1	0	0	0	0
30	A	3	0	0	0	0
30	C	2	0	0	0	0
30	G	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	I	1	0	0	0	0
30	J	1	0	0	0	0
30	M	1	0	0	0	0
30	O	1	0	0	0	0
30	P	1	0	0	0	0
30	X	218	0	0	0	0
30	Y	10	0	0	0	0
31	X	35	0	0	1	0
32	J	8	0	14	1	0
32	Q	8	0	14	0	0
32	X	64	0	112	7	0
32	Z	8	0	14	0	0
33	X	70	0	133	9	0
33	Y	10	0	19	1	0
34	S	3	0	6	0	0
34	X	6	0	12	0	0
35	N	15	0	17	17	0
All	All	81462	0	49019	1574	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 12.

The worst 5 of 1574 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)
19:R:11:VAL:HA	19:R:67:ASN:HB2	1.48	0.96
2:X:956:A:H2'	11:J:11:ARG:HH11	1.30	0.96
2:X:83:G:H21	2:X:102:A:H2	1.15	0.93
4:B:124:GLY:HA2	4:B:174:GLY:HA3	1.53	0.91
3:Y:21:G:H1	3:Y:58:G:H1	1.08	0.91

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	267/277 (96%)	222 (83%)	27 (10%)	18 (7%)	1	15
4	B	213/220 (97%)	187 (88%)	17 (8%)	9 (4%)	3	25
5	C	197/207 (95%)	155 (79%)	31 (16%)	11 (6%)	2	19
6	D	163/179 (91%)	131 (80%)	17 (10%)	15 (9%)	1	9
7	E	155/178 (87%)	120 (77%)	26 (17%)	9 (6%)	1	18
8	G	143/145 (99%)	131 (92%)	8 (6%)	4 (3%)	5	34
9	H	120/122 (98%)	102 (85%)	16 (13%)	2 (2%)	9	45
10	I	129/140 (92%)	91 (70%)	25 (19%)	13 (10%)	0	7
11	J	136/144 (94%)	110 (81%)	15 (11%)	11 (8%)	1	11
12	K	117/122 (96%)	101 (86%)	9 (8%)	7 (6%)	1	17
13	L	107/119 (90%)	86 (80%)	16 (15%)	5 (5%)	2	22
14	M	108/116 (93%)	85 (79%)	18 (17%)	5 (5%)	2	23
15	N	114/118 (97%)	108 (95%)	6 (5%)	0	100	100
16	O	100/102 (98%)	90 (90%)	5 (5%)	5 (5%)	2	21
17	P	110/117 (94%)	101 (92%)	8 (7%)	1 (1%)	17	57
18	Q	88/91 (97%)	74 (84%)	9 (10%)	5 (6%)	1	18
19	R	100/105 (95%)	71 (71%)	17 (17%)	12 (12%)	0	5
20	S	165/217 (76%)	121 (73%)	23 (14%)	21 (13%)	0	5
21	T	73/94 (78%)	63 (86%)	10 (14%)	0	100	100
22	U	40/62 (64%)	32 (80%)	6 (15%)	2 (5%)	2	21
23	V	63/69 (91%)	55 (87%)	5 (8%)	3 (5%)	2	22
24	W	55/59 (93%)	51 (93%)	3 (6%)	1 (2%)	8	43
25	Z	41/58 (71%)	36 (88%)	4 (10%)	1 (2%)	6	37
26	2	41/45 (91%)	39 (95%)	1 (2%)	1 (2%)	6	37
27	3	58/66 (88%)	42 (72%)	9 (16%)	7 (12%)	0	5
28	4	34/37 (92%)	26 (76%)	8 (24%)	0	100	100
All	All	2937/3209 (92%)	2430 (83%)	339 (12%)	168 (6%)	1	18

5 of 168 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	27	THR
1	A	35	LYS
1	A	36	PRO
1	A	51	VAL
1	A	78	VAL

### 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	112/224 (50%)	97 (87%)	15 (13%)	4 23
4	B	150/177 (85%)	121 (81%)	29 (19%)	1 8
5	C	106/169 (63%)	84 (79%)	22 (21%)	1 7
6	D	15/158 (10%)	13 (87%)	2 (13%)	4 23
7	E	51/156 (33%)	39 (76%)	12 (24%)	1 5
8	G	106/123 (86%)	87 (82%)	19 (18%)	2 11
9	H	91/100 (91%)	74 (81%)	17 (19%)	1 9
10	I	56/108 (52%)	39 (70%)	17 (30%)	0 3
11	J	90/119 (76%)	80 (89%)	10 (11%)	6 31
12	K	91/102 (89%)	77 (85%)	14 (15%)	2 18
13	L	40/95 (42%)	30 (75%)	10 (25%)	0 4
14	M	75/102 (74%)	53 (71%)	22 (29%)	0 3
15	N	91/98 (93%)	70 (77%)	21 (23%)	1 5
16	O	71/86 (83%)	63 (89%)	8 (11%)	6 30
17	P	89/94 (95%)	77 (86%)	12 (14%)	4 22
18	Q	41/82 (50%)	34 (83%)	7 (17%)	2 13
19	R	44/90 (49%)	26 (59%)	18 (41%)	0 1
20	S	88/190 (46%)	73 (83%)	15 (17%)	2 13
21	T	53/75 (71%)	40 (76%)	13 (24%)	0 4
22	U	8/52 (15%)	7 (88%)	1 (12%)	4 25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	V	47/62 (76%)	35 (74%)	12 (26%)	0	4
24	W	50/53 (94%)	38 (76%)	12 (24%)	0	4
25	Z	38/51 (74%)	32 (84%)	6 (16%)	2	17
26	2	35/40 (88%)	29 (83%)	6 (17%)	2	13
27	3	33/57 (58%)	27 (82%)	6 (18%)	1	10
28	4	2/35 (6%)	1 (50%)	1 (50%)	0	0
All	All	1673/2698 (62%)	1346 (80%)	327 (20%)	1	8

5 of 327 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
18	Q	49	LYS
23	V	23	GLU
19	R	4	LYS
20	S	41	VAL
24	W	32	ASN

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

Mol	Chain	Res	Type
14	M	14	GLN
16	O	63	ASN
17	P	40	ASN

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	X	2685/2923 (91%)	645 (24%)	36 (1%)
3	Y	113/114 (99%)	18 (15%)	0
All	All	2798/3037 (92%)	663 (23%)	36 (1%)

5 of 663 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	X	8	U
2	X	15	G
2	X	17	G
2	X	34	U

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Mol	Chain	Res	Type
2	X	38	A

5 of 36 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	X	1885	G
2	X	2611	U
2	X	1901	C
2	X	2378	G
2	X	890	G

## 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](#)

Of 538 ligands modelled in this entry, 514 are monoatomic - leaving 24 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	$\# Z  > 2$
33	SPD	X	3498	-	9,9,9	0.38	0	8,8,8	0.61	0
33	SPD	X	3496	-	9,9,9	0.27	0	8,8,8	0.19	0
34	EOH	X	3500	-	2,2,2	0.62	0	1,1,1	0.50	0
32	MPD	X	3006	-	7,7,7	1.00	1 (14%)	9,10,10	0.56	0
33	SPD	Y	213	-	9,9,9	0.20	0	8,8,8	0.13	0
33	SPD	X	3493	-	9,9,9	0.33	0	8,8,8	0.53	0
35	EPE	N	201	-	15,15,15	1.14	1 (6%)	18,20,20	1.39	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
32	MPD	J	201	-	7,7,7	1.31	1 (14%)	9,10,10	0.69	0
32	MPD	X	3007	-	7,7,7	0.38	0	9,10,10	0.41	0
33	SPD	X	3497	-	9,9,9	0.12	0	8,8,8	0.34	0
31	62B	X	3003	-	37,38,38	1.03	2 (5%)	55,60,60	3.30	18 (32%)
32	MPD	X	3005	-	7,7,7	0.99	1 (14%)	9,10,10	0.66	0
32	MPD	X	3008	-	7,7,7	1.18	1 (14%)	9,10,10	0.68	0
33	SPD	X	3492	-	9,9,9	0.39	0	8,8,8	0.39	0
32	MPD	Z	101	-	7,7,7	0.62	0	9,10,10	0.22	0
32	MPD	X	3010	-	7,7,7	0.96	1 (14%)	9,10,10	0.42	0
32	MPD	Q	101	-	7,7,7	0.74	0	9,10,10	0.26	0
33	SPD	X	3495	-	9,9,9	0.24	0	8,8,8	0.36	0
34	EOH	X	3499	-	2,2,2	0.62	0	1,1,1	0.48	0
34	EOH	S	301	-	2,2,2	0.71	0	1,1,1	0.29	0
32	MPD	X	3004	-	7,7,7	1.16	1 (14%)	9,10,10	0.71	0
33	SPD	X	3494	-	9,9,9	0.21	0	8,8,8	0.31	0
32	MPD	X	3011	-	7,7,7	1.27	1 (14%)	9,10,10	0.46	0
32	MPD	X	3009	-	7,7,7	0.62	0	9,10,10	0.30	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
33	SPD	X	3498	-	-	3/7/7/7	-
33	SPD	X	3496	-	-	1/7/7/7	-
32	MPD	X	3006	-	-	1/5/5/5	-
33	SPD	Y	213	-	-	2/7/7/7	-
33	SPD	X	3493	-	-	1/7/7/7	-
35	EPE	N	201	-	-	5/9/19/19	0/1/1/1
32	MPD	J	201	-	-	1/5/5/5	-
32	MPD	X	3007	-	-	0/5/5/5	-
33	SPD	X	3497	-	-	4/7/7/7	-
31	62B	X	3003	-	-	1/12/86/86	0/4/4/4
32	MPD	X	3005	-	-	2/5/5/5	-
32	MPD	X	3008	-	-	3/5/5/5	-
33	SPD	X	3492	-	-	4/7/7/7	-
32	MPD	Z	101	-	-	1/5/5/5	-
32	MPD	X	3010	-	-	1/5/5/5	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	MPD	Q	101	-	-	1/5/5/5	-
33	SPD	X	3495	-	-	5/7/7/7	-
32	MPD	X	3004	-	-	4/5/5/5	-
33	SPD	X	3494	-	-	3/7/7/7	-
32	MPD	X	3011	-	-	3/5/5/5	-
32	MPD	X	3009	-	-	2/5/5/5	-

The worst 5 of 10 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	X	3003	62B	C10-C11	4.35	1.60	1.56
35	N	201	EPE	C10-S	-3.77	1.72	1.77
31	X	3003	62B	C13-C12	-3.24	1.49	1.55
32	J	201	MPD	C3-C2	2.99	1.61	1.53
32	X	3011	MPD	C3-C2	2.81	1.61	1.53

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	X	3003	62B	C18-C12-C11	12.98	115.64	108.06
31	X	3003	62B	C15-C5-C14	-8.58	100.50	108.95
31	X	3003	62B	C6-C5-C14	7.47	117.16	112.10
31	X	3003	62B	C24-C25-C26	-7.23	103.25	111.53
31	X	3003	62B	C13-C12-C19	-6.16	98.31	111.04

There are no chirality outliers.

5 of 48 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
32	X	3004	MPD	O2-C2-C3-C4
32	X	3004	MPD	C2-C3-C4-O4
35	N	201	EPE	N4-C7-C8-O8
33	X	3495	SPD	N6-C7-C8-C9
33	X	3498	SPD	C8-C7-N6-C5

There are no ring outliers.

14 monomers are involved in 36 short contacts:

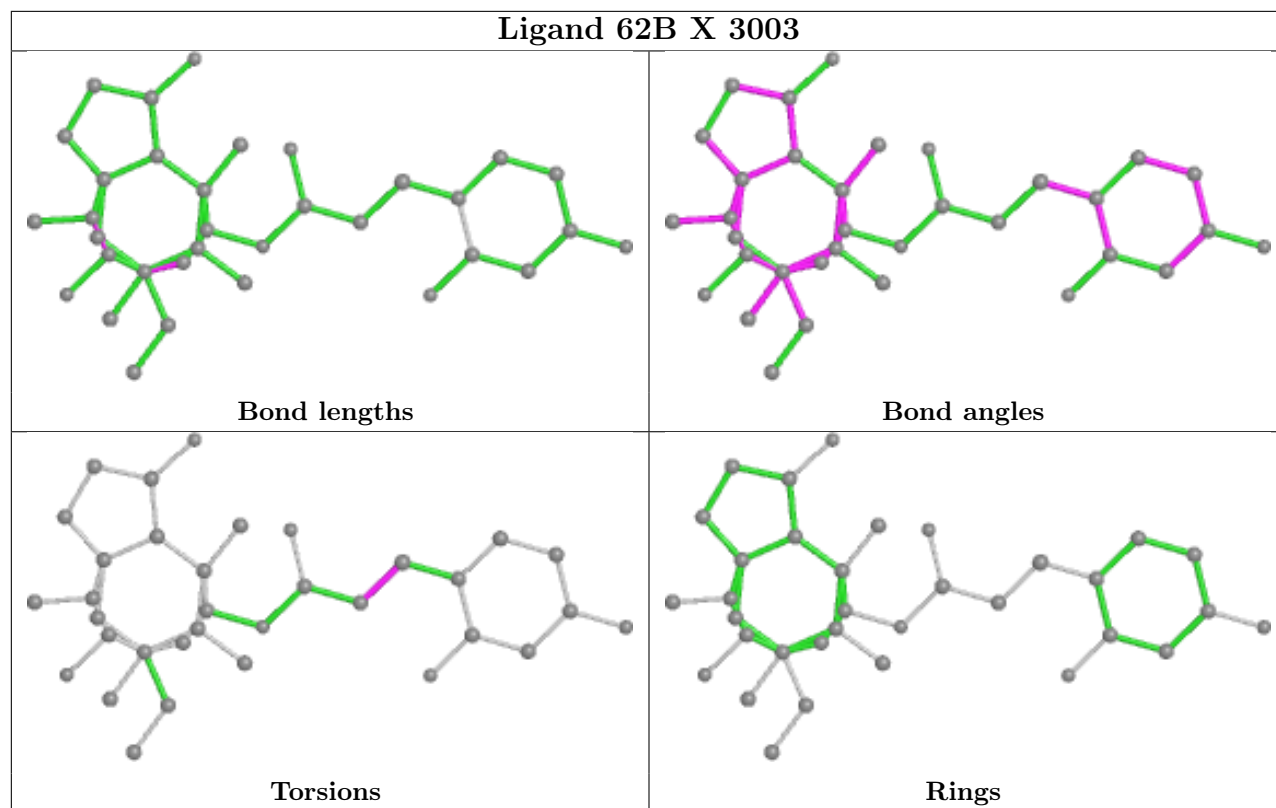
Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	X	3498	SPD	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	X	3006	MPD	2	0
33	Y	213	SPD	1	0
33	X	3493	SPD	2	0
35	N	201	EPE	17	0
32	J	201	MPD	1	0
33	X	3497	SPD	3	0
31	X	3003	62B	1	0
32	X	3005	MPD	1	0
32	X	3008	MPD	1	0
32	X	3010	MPD	1	0
33	X	3495	SPD	2	0
32	X	3004	MPD	2	0
33	X	3494	SPD	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [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, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q < 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	269/277 (97%)	-0.31	4 (1%) 73 59	92, 138, 160, 172	0
2	X	2705/2923 (92%)	-0.49	17 (0%) 89 80	53, 101, 188, 280	0
3	Y	114/114 (100%)	-0.63	0 100 100	76, 125, 175, 180	0
4	B	215/220 (97%)	-0.31	1 (0%) 91 83	62, 81, 99, 116	0
5	C	199/207 (96%)	-0.43	1 (0%) 91 83	64, 96, 113, 138	0
6	D	165/179 (92%)	0.02	11 (6%) 17 11	166, 193, 231, 239	0
7	E	157/178 (88%)	-0.26	6 (3%) 40 27	133, 172, 206, 212	0
8	G	145/145 (100%)	-0.20	1 (0%) 87 78	64, 79, 91, 96	0
9	H	122/122 (100%)	-0.37	0 100 100	84, 102, 123, 128	0
10	I	131/140 (93%)	-0.02	5 (3%) 40 27	58, 116, 136, 142	0
11	J	138/144 (95%)	0.24	4 (2%) 51 35	77, 103, 135, 152	0
12	K	119/122 (97%)	-0.54	0 100 100	67, 84, 108, 141	0
13	L	109/119 (91%)	-0.83	0 100 100	121, 130, 157, 189	0
14	M	110/116 (94%)	-0.39	2 (1%) 68 52	85, 99, 132, 156	0
15	N	116/118 (98%)	-0.43	0 100 100	54, 70, 90, 96	0
16	O	102/102 (100%)	-0.56	0 100 100	54, 88, 103, 109	0
17	P	112/117 (95%)	-0.01	1 (0%) 84 72	64, 75, 114, 139	0
18	Q	90/91 (98%)	-0.19	0 100 100	98, 122, 138, 170	0
19	R	102/105 (97%)	0.30	6 (5%) 22 13	98, 121, 189, 206	0
20	S	167/217 (76%)	-0.27	1 (0%) 89 80	87, 109, 199, 218	0
21	T	75/94 (79%)	-0.00	1 (1%) 77 63	85, 97, 115, 129	0
22	U	42/62 (67%)	2.37	24 (57%) 0 0	160, 172, 203, 213	0
23	V	65/69 (94%)	-0.07	0 100 100	134, 145, 159, 163	0
24	W	57/59 (96%)	0.21	0 100 100	63, 77, 99, 101	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
25	Z	43/58 (74%)	-0.26	0 100 100	54, 76, 131, 136	0
26	2	43/45 (95%)	0.41	4 (9%) 8 5	83, 92, 102, 105	0
27	3	60/66 (90%)	-0.24	0 100 100	80, 89, 105, 109	0
28	4	36/37 (97%)	2.40	22 (61%) 0 0	159, 164, 174, 178	0
All	All	5808/6246 (92%)	-0.32	111 (1%) 66 50	53, 103, 190, 280	0

The worst 5 of 111 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
22	U	16	ASN	5.7
22	U	30	ASN	5.4
28	4	32	HIS	5.2
22	U	27	ARG	5.1
28	4	30	PRO	5.0

## 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 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, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	MG	Y	210	1/1	0.17	1.31	105,105,105,105	0
30	MG	X	3250	1/1	0.21	1.64	89,89,89,89	0
29	MN	X	3466	1/1	0.37	0.38	155,155,155,155	0
30	MG	X	3306	1/1	0.43	0.43	95,95,95,95	0
29	MN	X	3209	1/1	0.43	0.19	150,150,150,150	0
30	MG	X	3340	1/1	0.45	0.64	84,84,84,84	0
30	MG	X	3351	1/1	0.46	0.63	116,116,116,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
30	MG	X	3449	1/1	0.47	0.42	86,86,86,86	0
30	MG	X	3417	1/1	0.47	0.93	82,82,82,82	0
29	MN	X	3437	1/1	0.49	0.13	153,153,153,153	0
30	MG	X	3474	1/1	0.53	0.23	106,106,106,106	0
29	MN	X	3460	1/1	0.53	0.36	182,182,182,182	0
30	MG	X	3362	1/1	0.54	0.36	114,114,114,114	0
30	MG	X	3337	1/1	0.55	0.47	89,89,89,89	0
30	MG	Y	203	1/1	0.55	0.60	96,96,96,96	0
30	MG	X	3349	1/1	0.55	1.47	127,127,127,127	0
30	MG	X	3180	1/1	0.56	1.15	78,78,78,78	0
30	MG	X	3488	1/1	0.57	0.67	100,100,100,100	0
30	MG	X	3310	1/1	0.57	0.22	129,129,129,129	0
30	MG	X	3487	1/1	0.57	0.53	109,109,109,109	0
30	MG	X	3391	1/1	0.58	1.00	107,107,107,107	0
30	MG	X	3327	1/1	0.58	1.10	126,126,126,126	0
30	MG	X	3400	1/1	0.60	0.63	90,90,90,90	0
30	MG	X	3433	1/1	0.60	0.34	124,124,124,124	0
30	MG	X	3341	1/1	0.61	0.64	96,96,96,96	0
29	MN	X	3211	1/1	0.61	0.35	144,144,144,144	0
30	MG	A	303	1/1	0.62	0.31	94,94,94,94	0
29	MN	X	3324	1/1	0.62	0.16	164,164,164,164	0
30	MG	X	3308	1/1	0.63	0.44	77,77,77,77	0
30	MG	X	3335	1/1	0.63	0.70	61,61,61,61	0
30	MG	Y	212	1/1	0.64	0.63	95,95,95,95	0
29	MN	X	3471	1/1	0.66	1.22	130,130,130,130	0
29	MN	X	3446	1/1	0.66	0.45	142,142,142,142	0
30	MG	X	3087	1/1	0.66	0.66	55,55,55,55	0
30	MG	X	3344	1/1	0.66	0.85	91,91,91,91	0
29	MN	X	3202	1/1	0.66	0.22	173,173,173,173	0
29	MN	X	3263	1/1	0.66	0.35	166,166,166,166	0
29	MN	X	3421	1/1	0.67	0.45	111,111,111,111	0
30	MG	X	3393	1/1	0.67	1.22	104,104,104,104	0
30	MG	X	3248	1/1	0.68	0.55	69,69,69,69	0
30	MG	X	3294	1/1	0.68	0.45	108,108,108,108	0
30	MG	X	3445	1/1	0.69	1.41	104,104,104,104	0
30	MG	X	3386	1/1	0.69	0.40	88,88,88,88	0
30	MG	X	3253	1/1	0.69	1.55	112,112,112,112	0
30	MG	X	3435	1/1	0.69	0.28	153,153,153,153	0
33	SPD	X	3498	10/10	0.69	0.41	93,93,93,93	0
30	MG	X	3357	1/1	0.70	0.29	95,95,95,95	0
29	MN	X	3181	1/1	0.70	0.12	142,142,142,142	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
29	MN	X	3183	1/1	0.71	0.14	125,125,125,125	0
29	MN	X	3114	1/1	0.71	0.56	122,122,122,122	0
30	MG	X	3358	1/1	0.71	1.38	88,88,88,88	0
29	MN	X	3203	1/1	0.71	0.19	145,145,145,145	0
30	MG	X	3370	1/1	0.71	1.18	113,113,113,113	0
30	MG	X	3475	1/1	0.71	0.85	93,93,93,93	0
30	MG	X	3395	1/1	0.72	0.37	79,79,79,79	0
30	MG	X	3196	1/1	0.72	0.52	89,89,89,89	0
30	MG	G	202	1/1	0.72	0.37	77,77,77,77	0
30	MG	X	3222	1/1	0.72	0.21	80,80,80,80	0
29	MN	X	3425	1/1	0.73	0.30	101,101,101,101	0
29	MN	X	3225	1/1	0.73	0.53	157,157,157,157	0
30	MG	X	3428	1/1	0.73	0.12	105,105,105,105	0
30	MG	X	3254	1/1	0.73	0.77	66,66,66,66	0
30	MG	X	3293	1/1	0.73	0.47	117,117,117,117	0
30	MG	X	3236	1/1	0.73	0.71	88,88,88,88	0
29	MN	X	3210	1/1	0.73	0.22	201,201,201,201	0
30	MG	X	3398	1/1	0.73	0.59	99,99,99,99	0
30	MG	X	3361	1/1	0.74	0.37	86,86,86,86	0
30	MG	X	3255	1/1	0.74	0.62	94,94,94,94	0
30	MG	P	201	1/1	0.74	0.65	63,63,63,63	0
30	MG	X	3230	1/1	0.74	0.54	80,80,80,80	0
34	EOH	S	301	3/3	0.74	0.35	90,90,90,90	0
30	MG	X	3252	1/1	0.75	1.35	114,114,114,114	0
29	MN	X	3072	1/1	0.75	0.21	123,123,123,123	0
29	MN	X	3155	1/1	0.75	0.40	110,110,110,110	0
30	MG	X	3265	1/1	0.76	0.64	96,96,96,96	0
30	MG	X	3348	1/1	0.76	0.62	72,72,72,72	0
30	MG	X	3266	1/1	0.76	0.34	90,90,90,90	0
29	MN	X	3458	1/1	0.76	0.54	127,127,127,127	0
30	MG	X	3441	1/1	0.76	0.57	96,96,96,96	0
30	MG	G	201	1/1	0.76	0.57	89,89,89,89	0
30	MG	X	3352	1/1	0.76	0.52	94,94,94,94	0
30	MG	X	3244	1/1	0.76	0.51	109,109,109,109	0
29	MN	X	3166	1/1	0.76	0.21	92,92,92,92	0
29	MN	X	3478	1/1	0.76	0.20	132,132,132,132	0
29	MN	X	3112	1/1	0.77	0.25	124,124,124,124	0
30	MG	X	3339	1/1	0.77	1.67	108,108,108,108	0
29	MN	X	3175	1/1	0.77	0.28	122,122,122,122	0
30	MG	A	302	1/1	0.78	0.57	92,92,92,92	0
30	MG	X	3346	1/1	0.78	0.47	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
32	MPD	J	201	8/8	0.78	0.30	125,125,125,125	0
30	MG	X	3336	1/1	0.78	0.91	99,99,99,99	0
33	SPD	Y	213	10/10	0.78	0.38	101,101,101,101	0
30	MG	X	3342	1/1	0.78	0.52	80,80,80,80	0
30	MG	X	3332	1/1	0.79	0.44	81,81,81,81	0
30	MG	X	3130	1/1	0.79	0.36	72,72,72,72	0
29	MN	X	3447	1/1	0.79	0.24	128,128,128,128	0
32	MPD	X	3004	8/8	0.79	0.30	135,135,135,135	0
29	MN	X	3186	1/1	0.79	0.45	143,143,143,143	0
30	MG	X	3286	1/1	0.79	0.47	77,77,77,77	0
29	MN	X	3379	1/1	0.79	0.19	158,158,158,158	0
30	MG	X	3365	1/1	0.79	0.69	76,76,76,76	0
29	MN	Z	102	1/1	0.80	0.36	112,112,112,112	0
30	MG	X	3394	1/1	0.80	0.19	98,98,98,98	0
29	MN	X	3454	1/1	0.80	0.49	126,126,126,126	0
30	MG	X	3382	1/1	0.80	0.66	126,126,126,126	0
29	MN	X	3158	1/1	0.80	0.30	117,117,117,117	0
30	MG	X	3413	1/1	0.80	0.56	90,90,90,90	0
29	MN	X	3231	1/1	0.80	0.26	161,161,161,161	0
30	MG	X	3423	1/1	0.81	0.32	79,79,79,79	0
30	MG	Y	207	1/1	0.81	0.27	78,78,78,78	0
30	MG	X	3385	1/1	0.81	1.06	88,88,88,88	0
30	MG	X	3229	1/1	0.81	0.20	98,98,98,98	0
29	MN	X	3468	1/1	0.81	0.25	104,104,104,104	0
29	MN	X	3469	1/1	0.81	0.17	140,140,140,140	0
29	MN	X	3323	1/1	0.81	0.26	141,141,141,141	0
29	MN	X	3185	1/1	0.81	0.16	101,101,101,101	0
29	MN	X	3146	1/1	0.81	0.20	122,122,122,122	0
33	SPD	X	3496	10/10	0.81	0.48	102,102,102,102	0
29	MN	X	3314	1/1	0.81	0.30	147,147,147,147	0
30	MG	X	3375	1/1	0.81	0.24	76,76,76,76	0
30	MG	X	3228	1/1	0.81	0.30	150,150,150,150	0
30	MG	X	3260	1/1	0.82	0.14	123,123,123,123	0
30	MG	X	3378	1/1	0.82	0.59	83,83,83,83	0
29	MN	X	3456	1/1	0.82	0.24	113,113,113,113	0
30	MG	X	3354	1/1	0.82	0.71	75,75,75,75	0
29	MN	X	3154	1/1	0.82	0.35	124,124,124,124	0
30	MG	X	3212	1/1	0.82	0.97	78,78,78,78	0
30	MG	X	3288	1/1	0.82	0.32	81,81,81,81	0
29	MN	X	3479	1/1	0.82	0.24	171,171,171,171	0
30	MG	X	3363	1/1	0.82	0.36	82,82,82,82	0
29	MN	X	3162	1/1	0.82	0.24	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	MG	X	3305	1/1	0.82	0.43	123,123,123,123	0
30	MG	X	3406	1/1	0.82	0.29	71,71,71,71	0
30	MG	X	3408	1/1	0.82	1.48	97,97,97,97	0
30	MG	X	3429	1/1	0.83	0.23	102,102,102,102	0
30	MG	X	3477	1/1	0.83	0.32	80,80,80,80	0
30	MG	X	3123	1/1	0.83	0.49	69,69,69,69	0
30	MG	X	3307	1/1	0.83	0.52	71,71,71,71	0
29	MN	X	3133	1/1	0.83	0.28	133,133,133,133	0
32	MPD	Q	101	8/8	0.83	0.20	137,137,137,137	0
30	MG	X	3167	1/1	0.83	0.34	62,62,62,62	0
30	MG	X	3213	1/1	0.83	1.50	86,86,86,86	0
30	MG	X	3356	1/1	0.83	0.13	83,83,83,83	0
30	MG	C	302	1/1	0.83	0.29	78,78,78,78	0
29	MN	X	3208	1/1	0.84	0.29	141,141,141,141	0
29	MN	X	3168	1/1	0.84	0.29	115,115,115,115	0
30	MG	X	3345	1/1	0.84	0.30	65,65,65,65	0
29	MN	X	3360	1/1	0.84	0.12	146,146,146,146	0
30	MG	X	3387	1/1	0.84	0.34	175,175,175,175	0
30	MG	X	3246	1/1	0.84	0.90	72,72,72,72	0
29	MN	X	3463	1/1	0.84	0.17	134,134,134,134	0
29	MN	X	3174	1/1	0.84	0.18	121,121,121,121	0
30	MG	X	3489	1/1	0.84	0.70	62,62,62,62	0
30	MG	X	3283	1/1	0.84	0.22	129,129,129,129	0
29	MN	X	3139	1/1	0.84	0.45	117,117,117,117	0
30	MG	X	3440	1/1	0.84	0.42	79,79,79,79	0
29	MN	X	3316	1/1	0.85	0.10	173,173,173,173	0
30	MG	X	3002	1/1	0.85	1.02	100,100,100,100	0
30	MG	X	3280	1/1	0.85	0.33	159,159,159,159	0
30	MG	X	3300	1/1	0.85	0.25	94,94,94,94	0
32	MPD	X	3008	8/8	0.85	0.26	94,94,94,94	0
30	MG	X	3371	1/1	0.85	0.49	88,88,88,88	0
30	MG	Y	205	1/1	0.85	0.82	94,94,94,94	0
33	SPD	X	3492	10/10	0.85	0.27	105,105,105,105	0
30	MG	X	3372	1/1	0.85	0.50	78,78,78,78	0
33	SPD	X	3497	10/10	0.85	0.18	96,96,96,96	0
30	MG	X	3419	1/1	0.85	0.70	107,107,107,107	0
29	MN	X	3319	1/1	0.85	0.10	158,158,158,158	0
29	MN	X	3150	1/1	0.85	0.18	110,110,110,110	0
30	MG	X	3224	1/1	0.86	0.78	66,66,66,66	0
30	MG	X	3242	1/1	0.86	0.69	65,65,65,65	0
32	MPD	Z	101	8/8	0.86	0.21	145,145,145,145	0
30	MG	X	3329	1/1	0.86	0.52	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
33	SPD	X	3494	10/10	0.86	0.27	87,87,87,87	0
29	MN	X	3178	1/1	0.86	0.11	126,126,126,126	0
30	MG	X	3444	1/1	0.86	0.40	100,100,100,100	0
29	MN	X	3262	1/1	0.86	0.12	143,143,143,143	0
29	MN	X	3148	1/1	0.86	0.25	144,144,144,144	0
30	MG	X	3233	1/1	0.86	0.34	68,68,68,68	0
30	MG	X	3129	1/1	0.87	0.60	79,79,79,79	0
29	MN	Y	208	1/1	0.87	0.19	164,164,164,164	0
29	MN	X	3380	1/1	0.87	0.26	151,151,151,151	0
29	MN	X	3194	1/1	0.87	0.21	138,138,138,138	0
29	MN	X	3422	1/1	0.87	0.23	154,154,154,154	0
30	MG	X	3328	1/1	0.87	0.53	103,103,103,103	0
29	MN	X	3058	1/1	0.87	0.39	101,101,101,101	0
30	MG	X	3347	1/1	0.87	1.25	108,108,108,108	0
30	MG	X	3411	1/1	0.87	0.42	82,82,82,82	0
30	MG	X	3241	1/1	0.87	1.25	78,78,78,78	0
30	MG	X	3334	1/1	0.87	0.70	89,89,89,89	0
30	MG	X	3350	1/1	0.87	0.39	100,100,100,100	0
33	SPD	X	3495	10/10	0.87	0.24	83,83,83,83	0
30	MG	X	3504	1/1	0.87	0.57	74,74,74,74	0
30	MG	X	3295	1/1	0.87	0.45	100,100,100,100	0
29	MN	X	3376	1/1	0.87	0.10	119,119,119,119	0
29	MN	X	3116	1/1	0.87	0.42	111,111,111,111	0
30	MG	X	3338	1/1	0.87	0.34	82,82,82,82	0
29	MN	X	3176	1/1	0.88	0.31	128,128,128,128	0
30	MG	X	3287	1/1	0.88	1.56	102,102,102,102	0
30	MG	J	202	1/1	0.88	0.18	92,92,92,92	0
29	MN	X	3320	1/1	0.88	0.31	107,107,107,107	0
30	MG	X	3290	1/1	0.88	0.59	98,98,98,98	0
30	MG	X	3412	1/1	0.88	0.53	106,106,106,106	0
32	MPD	X	3010	8/8	0.88	0.22	113,113,113,113	0
30	MG	X	3144	1/1	0.88	0.32	71,71,71,71	0
30	MG	X	3226	1/1	0.88	0.82	102,102,102,102	0
30	MG	X	3359	1/1	0.88	0.51	91,91,91,91	0
30	MG	X	3420	1/1	0.88	0.47	75,75,75,75	0
29	MN	X	3113	1/1	0.88	0.23	96,96,96,96	0
29	MN	X	3461	1/1	0.88	0.26	149,149,149,149	0
29	MN	X	3151	1/1	0.88	0.25	97,97,97,97	0
30	MG	X	3282	1/1	0.88	0.25	85,85,85,85	0
30	MG	X	3368	1/1	0.88	0.54	87,87,87,87	0
30	MG	X	3397	1/1	0.88	0.21	78,78,78,78	0
29	MN	X	3182	1/1	0.88	0.13	133,133,133,133	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	MG	X	3298	1/1	0.89	0.40	95,95,95,95	0
29	MN	X	3060	1/1	0.89	0.23	90,90,90,90	0
29	MN	X	3025	1/1	0.89	0.31	128,128,128,128	0
30	MG	X	3484	1/1	0.89	0.17	77,77,77,77	0
30	MG	X	3238	1/1	0.89	0.86	85,85,85,85	0
30	MG	X	3424	1/1	0.89	1.44	89,89,89,89	0
29	MN	X	3153	1/1	0.89	0.09	123,123,123,123	0
29	MN	X	3019	1/1	0.89	0.32	109,109,109,109	0
29	MN	X	3124	1/1	0.89	0.13	147,147,147,147	0
33	SPD	X	3493	10/10	0.89	0.27	83,83,83,83	0
30	MG	X	3291	1/1	0.89	0.47	86,86,86,86	0
30	MG	X	3355	1/1	0.89	0.19	91,91,91,91	0
30	MG	X	3205	1/1	0.89	0.15	98,98,98,98	0
30	MG	X	3343	1/1	0.89	0.63	73,73,73,73	0
29	MN	X	3326	1/1	0.89	0.21	145,145,145,145	0
30	MG	X	3249	1/1	0.89	0.98	109,109,109,109	0
30	MG	X	3473	1/1	0.89	0.19	82,82,82,82	0
29	MN	X	3084	1/1	0.90	0.14	123,123,123,123	0
30	MG	X	3138	1/1	0.90	0.53	72,72,72,72	0
29	MN	X	3198	1/1	0.90	0.18	125,125,125,125	0
30	MG	X	3381	1/1	0.90	0.71	97,97,97,97	0
30	MG	X	3416	1/1	0.90	0.27	90,90,90,90	0
30	MG	X	3232	1/1	0.90	1.01	74,74,74,74	0
29	MN	R	201	1/1	0.90	0.28	123,123,123,123	0
30	MG	X	3486	1/1	0.90	0.60	90,90,90,90	0
29	MN	X	3147	1/1	0.90	0.11	119,119,119,119	0
29	MN	X	3465	1/1	0.90	0.24	117,117,117,117	0
29	MN	X	3117	1/1	0.90	0.26	107,107,107,107	0
30	MG	X	3207	1/1	0.90	0.28	66,66,66,66	0
30	MG	A	304	1/1	0.90	0.49	105,105,105,105	0
29	MN	X	3119	1/1	0.90	0.20	140,140,140,140	0
30	MG	X	3214	1/1	0.90	0.77	86,86,86,86	0
29	MN	X	3034	1/1	0.90	0.26	77,77,77,77	0
30	MG	Y	211	1/1	0.90	0.42	115,115,115,115	0
29	MN	X	3027	1/1	0.90	0.36	68,68,68,68	0
34	EOH	X	3500	3/3	0.90	0.34	99,99,99,99	0
29	MN	X	3073	1/1	0.90	0.36	95,95,95,95	0
30	MG	X	3443	1/1	0.91	0.24	118,118,118,118	0
29	MN	X	3453	1/1	0.91	0.33	126,126,126,126	0
29	MN	X	3184	1/1	0.91	0.13	128,128,128,128	0
30	MG	X	3448	1/1	0.91	0.65	72,72,72,72	0
30	MG	X	3268	1/1	0.91	0.36	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	MG	X	3304	1/1	0.91	0.46	117,117,117,117	0
30	MG	M	201	1/1	0.91	0.42	68,68,68,68	0
30	MG	O	201	1/1	0.91	0.27	51,51,51,51	0
29	MN	X	3045	1/1	0.91	0.27	96,96,96,96	0
29	MN	X	3110	1/1	0.91	0.19	117,117,117,117	0
32	MPD	X	3006	8/8	0.91	0.22	82,82,82,82	0
29	MN	X	3480	1/1	0.91	0.57	175,175,175,175	0
30	MG	X	3481	1/1	0.91	0.23	82,82,82,82	0
30	MG	X	3285	1/1	0.91	0.21	75,75,75,75	0
30	MG	X	3485	1/1	0.91	0.23	102,102,102,102	0
29	MN	A	301	1/1	0.91	0.39	138,138,138,138	0
29	MN	X	3315	1/1	0.91	0.18	104,104,104,104	0
29	MN	X	3462	1/1	0.91	0.28	152,152,152,152	0
29	MN	X	3439	1/1	0.91	0.28	94,94,94,94	0
30	MG	X	3490	1/1	0.91	0.30	100,100,100,100	0
30	MG	X	3396	1/1	0.91	0.60	108,108,108,108	0
29	MN	X	3059	1/1	0.91	0.24	111,111,111,111	0
29	MN	X	3159	1/1	0.91	0.17	118,118,118,118	0
30	MG	Y	206	1/1	0.91	0.86	104,104,104,104	0
30	MG	X	3399	1/1	0.91	0.47	79,79,79,79	0
29	MN	X	3452	1/1	0.91	0.08	120,120,120,120	0
35	EPE	N	201	15/15	0.91	0.20	73,73,73,73	0
30	MG	X	3165	1/1	0.92	0.79	84,84,84,84	0
29	MN	T	101	1/1	0.92	0.18	121,121,121,121	0
29	MN	X	3077	1/1	0.92	0.32	100,100,100,100	0
29	MN	X	3111	1/1	0.92	0.32	130,130,130,130	0
30	MG	X	3483	1/1	0.92	0.29	91,91,91,91	0
30	MG	X	3333	1/1	0.92	0.77	97,97,97,97	0
30	MG	X	3259	1/1	0.92	0.49	122,122,122,122	0
32	MPD	X	3007	8/8	0.92	0.36	132,132,132,132	0
30	MG	X	3383	1/1	0.92	0.46	75,75,75,75	0
29	MN	X	3177	1/1	0.92	0.16	125,125,125,125	0
32	MPD	X	3011	8/8	0.92	0.30	75,75,75,75	0
29	MN	X	3044	1/1	0.92	0.37	116,116,116,116	0
29	MN	X	3405	1/1	0.92	0.17	103,103,103,103	0
29	MN	X	3455	1/1	0.92	0.43	116,116,116,116	0
30	MG	X	3302	1/1	0.92	0.16	100,100,100,100	0
30	MG	X	3303	1/1	0.92	0.72	101,101,101,101	0
30	MG	Y	204	1/1	0.92	0.37	78,78,78,78	0
30	MG	X	3272	1/1	0.92	0.46	104,104,104,104	0
29	MN	X	3101	1/1	0.92	0.48	131,131,131,131	0
29	MN	X	3322	1/1	0.92	0.15	137,137,137,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
29	MN	X	3199	1/1	0.92	0.20	143,143,143,143	0
30	MG	X	3367	1/1	0.92	0.39	83,83,83,83	0
29	MN	X	3173	1/1	0.92	0.25	129,129,129,129	0
30	MG	X	3369	1/1	0.92	0.74	70,70,70,70	0
29	MN	X	3109	1/1	0.92	0.14	92,92,92,92	0
29	MN	X	3024	1/1	0.93	0.18	120,120,120,120	0
29	MN	X	3470	1/1	0.93	0.18	148,148,148,148	0
29	MN	X	3163	1/1	0.93	0.13	124,124,124,124	0
29	MN	X	3190	1/1	0.93	0.20	124,124,124,124	0
29	MN	X	3317	1/1	0.93	0.14	137,137,137,137	0
30	MG	X	3388	1/1	0.93	0.85	85,85,85,85	0
30	MG	X	3137	1/1	0.93	1.13	63,63,63,63	0
32	MPD	X	3009	8/8	0.93	0.39	129,129,129,129	0
29	MN	X	3104	1/1	0.93	0.14	94,94,94,94	0
29	MN	X	3157	1/1	0.93	0.24	108,108,108,108	0
30	MG	X	3434	1/1	0.93	0.21	64,64,64,64	0
29	MN	X	3321	1/1	0.93	0.07	159,159,159,159	0
29	MN	X	3122	1/1	0.93	0.23	99,99,99,99	0
30	MG	X	3258	1/1	0.93	0.26	80,80,80,80	0
30	MG	X	3292	1/1	0.93	0.36	89,89,89,89	0
29	MN	X	3243	1/1	0.93	0.18	114,114,114,114	0
29	MN	X	3071	1/1	0.93	0.21	98,98,98,98	0
29	MN	X	3161	1/1	0.93	0.23	93,93,93,93	0
30	MG	X	3373	1/1	0.93	0.33	97,97,97,97	0
30	MG	X	3297	1/1	0.93	0.19	81,81,81,81	0
30	MG	X	3353	1/1	0.93	0.17	79,79,79,79	0
34	EOH	X	3499	3/3	0.93	0.40	80,80,80,80	0
29	MN	X	3311	1/1	0.93	0.16	124,124,124,124	0
30	MG	I	201	1/1	0.93	0.57	80,80,80,80	0
30	MG	X	3415	1/1	0.93	0.24	81,81,81,81	0
30	MG	X	3274	1/1	0.94	0.34	99,99,99,99	0
29	MN	X	3037	1/1	0.94	0.26	90,90,90,90	0
29	MN	X	3149	1/1	0.94	0.26	109,109,109,109	0
30	MG	X	3390	1/1	0.94	0.56	63,63,63,63	0
30	MG	X	3427	1/1	0.94	0.15	59,59,59,59	0
29	MN	X	3082	1/1	0.94	0.20	112,112,112,112	0
29	MN	X	3125	1/1	0.94	0.13	123,123,123,123	0
29	MN	X	3318	1/1	0.94	0.08	128,128,128,128	0
30	MG	X	3501	1/1	0.94	0.83	64,64,64,64	0
30	MG	X	3366	1/1	0.94	0.66	99,99,99,99	0
30	MG	X	3142	1/1	0.94	0.51	72,72,72,72	0
30	MG	X	3309	1/1	0.94	0.34	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
29	MN	X	3193	1/1	0.94	0.09	110,110,110,110	0
29	MN	X	3115	1/1	0.94	0.32	116,116,116,116	0
29	MN	X	3237	1/1	0.94	0.07	167,167,167,167	0
29	MN	X	3179	1/1	0.94	0.12	106,106,106,106	0
29	MN	X	3041	1/1	0.94	0.18	77,77,77,77	0
29	MN	X	3094	1/1	0.94	0.14	124,124,124,124	0
30	MG	X	3450	1/1	0.94	0.75	132,132,132,132	0
30	MG	X	3239	1/1	0.94	0.39	91,91,91,91	0
30	MG	X	3240	1/1	0.94	0.67	78,78,78,78	0
29	MN	X	3264	1/1	0.94	0.12	117,117,117,117	0
29	MN	X	3047	1/1	0.94	0.26	70,70,70,70	0
30	MG	X	3301	1/1	0.94	0.19	72,72,72,72	0
29	MN	X	3192	1/1	0.95	0.09	138,138,138,138	0
29	MN	X	3036	1/1	0.95	0.30	86,86,86,86	0
29	MN	X	3464	1/1	0.95	0.56	149,149,149,149	0
29	MN	X	3017	1/1	0.95	0.08	92,92,92,92	0
30	MG	X	3247	1/1	0.95	0.52	85,85,85,85	0
30	MG	X	3432	1/1	0.95	0.24	71,71,71,71	0
29	MN	X	3404	1/1	0.95	0.15	131,131,131,131	0
29	MN	X	3197	1/1	0.95	0.26	138,138,138,138	0
30	MG	X	3384	1/1	0.95	0.26	102,102,102,102	0
30	MG	X	3438	1/1	0.95	0.20	84,84,84,84	0
29	MN	X	3407	1/1	0.95	0.20	83,83,83,83	0
30	MG	X	3299	1/1	0.95	0.22	149,149,149,149	0
29	MN	X	3418	1/1	0.95	0.13	124,124,124,124	0
30	MG	X	3204	1/1	0.95	0.14	100,100,100,100	0
29	MN	X	3090	1/1	0.95	0.26	97,97,97,97	0
31	62B	X	3003	35/35	0.95	0.29	65,65,65,65	0
29	MN	X	3128	1/1	0.95	0.24	93,93,93,93	0
32	MPD	X	3005	8/8	0.95	0.23	78,78,78,78	0
29	MN	X	3013	1/1	0.95	0.25	70,70,70,70	0
29	MN	X	3436	1/1	0.95	0.17	119,119,119,119	0
30	MG	X	3451	1/1	0.95	0.30	115,115,115,115	0
29	MN	Y	202	1/1	0.95	0.15	105,105,105,105	0
30	MG	X	3261	1/1	0.95	0.23	91,91,91,91	0
29	MN	X	3095	1/1	0.95	0.20	79,79,79,79	0
30	MG	X	3476	1/1	0.95	0.15	64,64,64,64	0
29	MN	X	3096	1/1	0.95	0.38	100,100,100,100	0
29	MN	X	3100	1/1	0.95	0.25	96,96,96,96	0
30	MG	X	3482	1/1	0.95	0.26	90,90,90,90	0
29	MN	X	3074	1/1	0.95	0.52	113,113,113,113	0
29	MN	X	3103	1/1	0.95	0.21	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
30	MG	X	3277	1/1	0.95	0.62	97,97,97,97	0
30	MG	X	3331	1/1	0.95	0.36	86,86,86,86	0
29	MN	X	3223	1/1	0.95	0.17	119,119,119,119	0
29	MN	X	3062	1/1	0.95	0.14	87,87,87,87	0
29	MN	X	3171	1/1	0.95	0.21	114,114,114,114	0
29	MN	X	3325	1/1	0.95	0.16	187,187,187,187	0
29	MN	X	3189	1/1	0.95	0.07	154,154,154,154	0
29	MN	X	3330	1/1	0.95	0.15	104,104,104,104	0
29	MN	X	3120	1/1	0.95	0.21	166,166,166,166	0
29	MN	X	3089	1/1	0.96	0.14	113,113,113,113	0
29	MN	X	3046	1/1	0.96	0.29	91,91,91,91	0
29	MN	X	3093	1/1	0.96	0.22	81,81,81,81	0
30	MG	X	3389	1/1	0.96	0.37	94,94,94,94	0
30	MG	X	3442	1/1	0.96	0.16	71,71,71,71	0
29	MN	X	3068	1/1	0.96	0.35	94,94,94,94	0
30	MG	X	3218	1/1	0.96	0.18	75,75,75,75	0
29	MN	X	3070	1/1	0.96	0.33	129,129,129,129	0
29	MN	X	3021	1/1	0.96	0.21	91,91,91,91	0
29	MN	X	3097	1/1	0.96	0.26	109,109,109,109	0
30	MG	X	3227	1/1	0.96	0.71	95,95,95,95	0
29	MN	X	3220	1/1	0.96	0.08	103,103,103,103	0
29	MN	X	3049	1/1	0.96	0.30	93,93,93,93	0
29	MN	X	3052	1/1	0.96	0.31	90,90,90,90	0
30	MG	X	3278	1/1	0.96	0.23	82,82,82,82	0
29	MN	X	3102	1/1	0.96	0.56	124,124,124,124	0
29	MN	X	3054	1/1	0.96	0.35	97,97,97,97	0
29	MN	X	3160	1/1	0.96	0.15	100,100,100,100	0
30	MG	X	3284	1/1	0.96	0.17	72,72,72,72	0
29	MN	X	3029	1/1	0.96	0.39	69,69,69,69	0
29	MN	X	3131	1/1	0.96	0.23	126,126,126,126	0
29	MN	X	3392	1/1	0.96	0.11	89,89,89,89	0
30	MG	X	3141	1/1	0.96	0.24	85,85,85,85	0
30	MG	X	3289	1/1	0.96	0.24	110,110,110,110	0
29	MN	X	3401	1/1	0.96	0.13	104,104,104,104	0
30	MG	X	3143	1/1	0.96	0.44	59,59,59,59	0
29	MN	X	3081	1/1	0.96	0.28	109,109,109,109	0
29	MN	X	3135	1/1	0.96	0.15	115,115,115,115	0
29	MN	X	3312	1/1	0.96	0.26	115,115,115,115	0
29	MN	X	3313	1/1	0.96	0.10	117,117,117,117	0
30	MG	X	3431	1/1	0.96	0.38	55,55,55,55	0
29	MN	X	3015	1/1	0.96	0.09	80,80,80,80	0
29	MN	X	3140	1/1	0.96	0.12	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
29	MN	X	3016	1/1	0.96	0.12	75,75,75,75	0
30	MG	Y	209	1/1	0.96	0.91	153,153,153,153	0
29	MN	X	3134	1/1	0.97	0.17	121,121,121,121	0
29	MN	X	3020	1/1	0.97	0.28	107,107,107,107	0
30	MG	X	3414	1/1	0.97	0.18	89,89,89,89	0
30	MG	Y	201	1/1	0.97	0.28	66,66,66,66	0
29	MN	X	3200	1/1	0.97	0.19	123,123,123,123	0
29	MN	X	3172	1/1	0.97	0.14	114,114,114,114	0
29	MN	X	3105	1/1	0.97	0.19	97,97,97,97	0
29	MN	X	3206	1/1	0.97	0.07	95,95,95,95	0
30	MG	X	3364	1/1	0.97	0.73	83,83,83,83	0
29	MN	X	3108	1/1	0.97	0.19	89,89,89,89	0
29	MN	X	3078	1/1	0.97	0.44	111,111,111,111	0
30	MG	X	3426	1/1	0.97	0.25	104,104,104,104	0
29	MN	X	3035	1/1	0.97	0.23	74,74,74,74	0
30	MG	C	301	1/1	0.97	0.40	64,64,64,64	0
29	MN	X	3026	1/1	0.97	0.29	66,66,66,66	0
29	MN	X	3374	1/1	0.97	0.12	104,104,104,104	0
30	MG	X	3267	1/1	0.97	0.26	72,72,72,72	0
29	MN	X	3048	1/1	0.97	0.43	93,93,93,93	0
29	MN	X	3086	1/1	0.97	0.47	92,92,92,92	0
29	MN	X	3088	1/1	0.97	0.28	101,101,101,101	0
30	MG	X	3276	1/1	0.97	0.23	67,67,67,67	0
30	MG	X	3377	1/1	0.97	0.43	121,121,121,121	0
30	MG	X	3221	1/1	0.97	0.12	89,89,89,89	0
29	MN	X	3063	1/1	0.97	0.31	70,70,70,70	0
29	MN	X	3234	1/1	0.97	0.05	144,144,144,144	0
30	MG	X	3281	1/1	0.97	0.71	113,113,113,113	0
29	MN	X	3402	1/1	0.97	0.13	108,108,108,108	0
29	MN	X	3502	1/1	0.97	0.26	88,88,88,88	0
29	MN	X	3235	1/1	0.97	0.11	155,155,155,155	0
29	MN	X	3064	1/1	0.97	0.18	84,84,84,84	0
29	MN	X	3065	1/1	0.97	0.37	97,97,97,97	0
29	MN	X	3409	1/1	0.97	0.17	87,87,87,87	0
29	MN	X	3245	1/1	0.97	0.21	129,129,129,129	0
29	MN	X	3067	1/1	0.97	0.42	104,104,104,104	0
29	MN	X	3012	1/1	0.97	0.38	79,79,79,79	0
29	MN	X	3187	1/1	0.97	0.09	137,137,137,137	0
29	MN	X	3069	1/1	0.97	0.29	103,103,103,103	0
29	MN	X	3051	1/1	0.97	0.24	97,97,97,97	0
29	MN	X	3191	1/1	0.97	0.06	138,138,138,138	0
29	MN	X	3001	1/1	0.97	0.38	97,97,97,97	0

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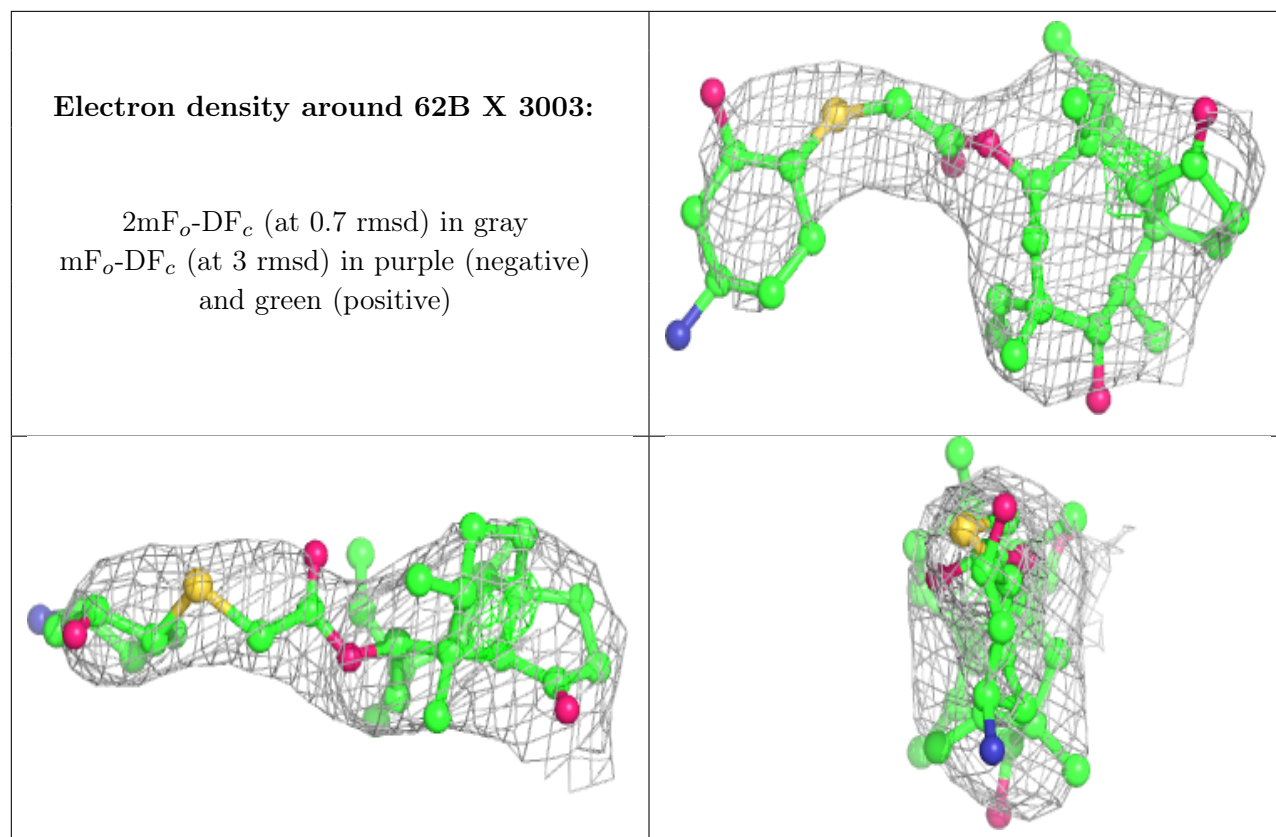
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	MG	X	3296	1/1	0.97	0.21	45,45,45,45	0
29	MN	X	3031	1/1	0.97	0.24	68,68,68,68	0
29	MN	X	3056	1/1	0.97	0.18	88,88,88,88	0
29	MN	X	3195	1/1	0.97	0.22	139,139,139,139	0
30	MG	X	3410	1/1	0.97	0.16	95,95,95,95	0
29	MN	X	3057	1/1	0.97	0.23	68,68,68,68	0
29	MN	X	3216	1/1	0.98	0.04	94,94,94,94	0
29	MN	X	3106	1/1	0.98	0.14	100,100,100,100	0
29	MN	X	3107	1/1	0.98	0.29	73,73,73,73	0
29	MN	X	3055	1/1	0.98	0.26	86,86,86,86	0
29	MN	X	3091	1/1	0.98	0.16	92,92,92,92	0
29	MN	X	3075	1/1	0.98	0.23	71,71,71,71	0
30	MG	X	3269	1/1	0.98	0.17	132,132,132,132	0
30	MG	X	3271	1/1	0.98	0.26	92,92,92,92	0
29	MN	X	3076	1/1	0.98	0.30	90,90,90,90	0
30	MG	X	3273	1/1	0.98	0.46	124,124,124,124	0
29	MN	X	3038	1/1	0.98	0.31	106,106,106,106	0
29	MN	X	3039	1/1	0.98	0.34	79,79,79,79	0
29	MN	X	3169	1/1	0.98	0.19	107,107,107,107	0
29	MN	X	3459	1/1	0.98	0.34	161,161,161,161	0
30	MG	X	3279	1/1	0.98	0.34	67,67,67,67	0
29	MN	X	3257	1/1	0.98	0.06	93,93,93,93	0
29	MN	X	3170	1/1	0.98	0.17	104,104,104,104	0
29	MN	X	3080	1/1	0.98	0.23	78,78,78,78	0
29	MN	X	3099	1/1	0.98	0.28	82,82,82,82	0
29	MN	X	3028	1/1	0.98	0.26	53,53,53,53	0
29	MN	X	3403	1/1	0.98	0.10	114,114,114,114	0
29	MN	X	3014	1/1	0.98	0.27	53,53,53,53	0
29	MN	X	3467	1/1	0.98	0.38	72,72,72,72	0
29	MN	X	3118	1/1	0.98	0.19	65,65,65,65	0
29	MN	X	3030	1/1	0.98	0.38	69,69,69,69	0
29	MN	X	3152	1/1	0.98	0.16	75,75,75,75	0
30	MG	X	3491	1/1	0.98	0.15	86,86,86,86	0
29	MN	X	3061	1/1	0.98	0.13	92,92,92,92	0
29	MN	X	3472	1/1	0.98	0.21	110,110,110,110	0
29	MN	X	3121	1/1	0.98	0.17	104,104,104,104	0
30	MG	X	3430	1/1	0.98	0.40	74,74,74,74	0
29	MN	X	3053	1/1	0.98	0.22	58,58,58,58	0
29	MN	X	3156	1/1	0.98	0.21	77,77,77,77	0
30	MG	X	3256	1/1	0.98	0.37	69,69,69,69	0
29	MN	X	3022	1/1	0.98	0.11	92,92,92,92	0
29	MN	X	3503	1/1	0.98	0.25	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
29	MN	X	3042	1/1	0.99	0.23	74,74,74,74	0
29	MN	X	3132	1/1	0.99	0.20	104,104,104,104	0
29	MN	X	3079	1/1	0.99	0.27	58,58,58,58	0
29	MN	X	3092	1/1	0.99	0.22	90,90,90,90	0
29	MN	X	3457	1/1	0.99	0.45	135,135,135,135	0
29	MN	X	3251	1/1	0.99	0.12	81,81,81,81	0
29	MN	X	3043	1/1	0.99	0.34	81,81,81,81	0
29	MN	X	3136	1/1	0.99	0.25	55,55,55,55	0
29	MN	X	3201	1/1	0.99	0.15	88,88,88,88	0
29	MN	X	3050	1/1	0.99	0.25	98,98,98,98	0
29	MN	X	3270	1/1	0.99	0.12	110,110,110,110	0
29	MN	X	3032	1/1	0.99	0.33	64,64,64,64	0
29	MN	X	3145	1/1	0.99	0.19	69,69,69,69	0
29	MN	X	3083	1/1	0.99	0.31	73,73,73,73	0
29	MN	X	3164	1/1	0.99	0.28	111,111,111,111	0
29	MN	X	3066	1/1	0.99	0.24	80,80,80,80	0
29	MN	X	3098	1/1	0.99	0.19	92,92,92,92	0
30	MG	X	3275	1/1	0.99	0.16	71,71,71,71	0
29	MN	X	3215	1/1	0.99	0.14	87,87,87,87	0
29	MN	X	3188	1/1	0.99	0.25	114,114,114,114	0
29	MN	X	3217	1/1	0.99	0.14	86,86,86,86	0
29	MN	X	3219	1/1	0.99	0.15	85,85,85,85	0
29	MN	X	3033	1/1	0.99	0.27	78,78,78,78	0
29	MN	X	3040	1/1	0.99	0.36	81,81,81,81	0
29	MN	X	3126	1/1	0.99	0.21	74,74,74,74	0
29	MN	X	3127	1/1	0.99	0.17	94,94,94,94	0
29	MN	X	3023	1/1	0.99	0.27	92,92,92,92	0
29	MN	X	3018	1/1	1.00	0.12	86,86,86,86	0
29	MN	X	3085	1/1	1.00	0.27	59,59,59,59	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.