



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 05:55 PM UTC

PDB ID : 6AJH / pdb_00006ajh
Title : Crystal structure of mycolic acid transporter MmpL3 from Mycobacterium smegmatis complexed with AU1235
Authors : Zhang, B.; Li, J.; Yang, X.L.; Wu, L.J.; Yang, H.T.; Rao, Z.H.
Deposited on : 2018-08-27
Resolution : 2.82 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

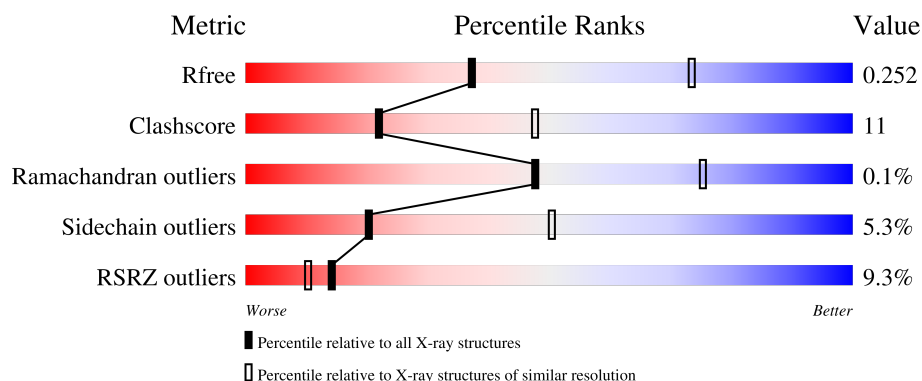
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.82 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4591 (2.84-2.80)
Clashscore	190562	5010 (2.84-2.80)
Ramachandran outliers	187476	4916 (2.84-2.80)
Sidechain outliers	187428	4918 (2.84-2.80)
RSRZ outliers	180081	4594 (2.84-2.80)

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

Mol	Chain	Length	Quality of chain
1	A	943	9% 79% 14% • 5%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7189 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 Drug exporters of the RND superfamily-like protein, Endolysin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	900	Total	C	N	O	S	0	0	0
			6952	4482	1182	1256	32			

There are 37 discrepancies between the modelled and reference sequences:

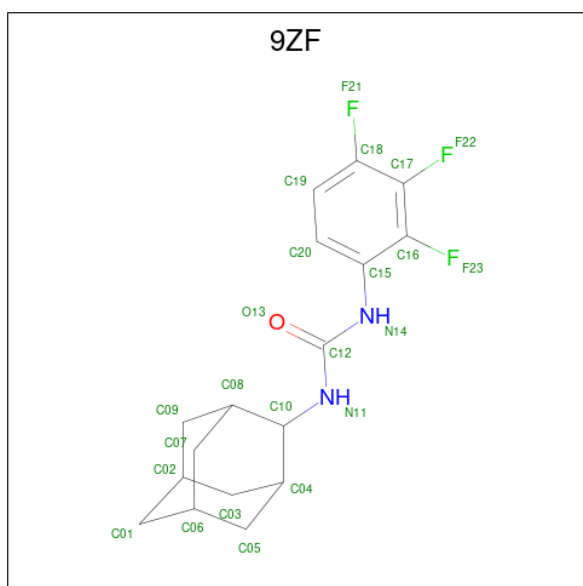
Chain	Residue	Modelled	Actual	Comment	Reference
A	-12	MET	-	expression tag	UNP I7G2R2
A	-11	PRO	-	expression tag	UNP I7G2R2
A	-10	GLU	-	expression tag	UNP I7G2R2
A	-9	VAL	-	expression tag	UNP I7G2R2
A	-8	VAL	-	expression tag	UNP I7G2R2
A	-7	GLY	-	expression tag	UNP I7G2R2
A	-6	SER	-	expression tag	UNP I7G2R2
A	-5	TYR	-	expression tag	UNP I7G2R2
A	-4	PHE	-	expression tag	UNP I7G2R2
A	-3	GLN	-	expression tag	UNP I7G2R2
A	-2	SER	-	expression tag	UNP I7G2R2
A	-1	ASN	-	expression tag	UNP I7G2R2
A	0	ALA	-	expression tag	UNP I7G2R2
A	749	GLU	-	linker	UNP I7G2R2
A	750	PHE	-	linker	UNP I7G2R2
A	803	THR	CYS	engineered mutation	UNP D9IEF7
A	846	ALA	CYS	engineered mutation	UNP D9IEF7
A	911	GLU	-	expression tag	UNP D9IEF7
A	912	PHE	-	expression tag	UNP D9IEF7
A	913	HIS	-	expression tag	UNP D9IEF7
A	914	LEU	-	expression tag	UNP D9IEF7
A	915	GLY	-	expression tag	UNP D9IEF7
A	916	GLY	-	expression tag	UNP D9IEF7
A	917	ILE	-	expression tag	UNP D9IEF7
A	918	LYS	-	expression tag	UNP D9IEF7
A	919	ALA	-	expression tag	UNP D9IEF7
A	920	PHE	-	expression tag	UNP D9IEF7

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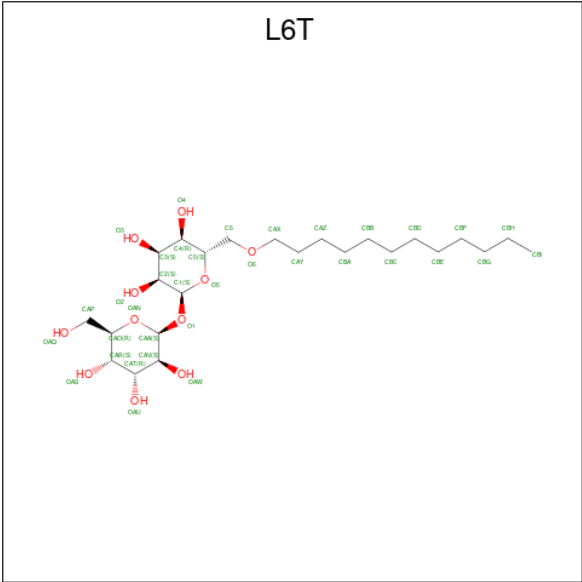
Chain	Residue	Modelled	Actual	Comment	Reference
A	921	HIS	-	expression tag	UNP D9IEF7
A	922	HIS	-	expression tag	UNP D9IEF7
A	923	HIS	-	expression tag	UNP D9IEF7
A	924	HIS	-	expression tag	UNP D9IEF7
A	925	HIS	-	expression tag	UNP D9IEF7
A	926	HIS	-	expression tag	UNP D9IEF7
A	927	HIS	-	expression tag	UNP D9IEF7
A	928	HIS	-	expression tag	UNP D9IEF7
A	929	HIS	-	expression tag	UNP D9IEF7
A	930	HIS	-	expression tag	UNP D9IEF7

- Molecule 2 is 1-(2-adamantyl)-3-[2,3,4-tris(fluoranyl)phenyl]urea (CCD ID: 9ZF) (formula: $C_{17}H_{19}F_3N_2O$).



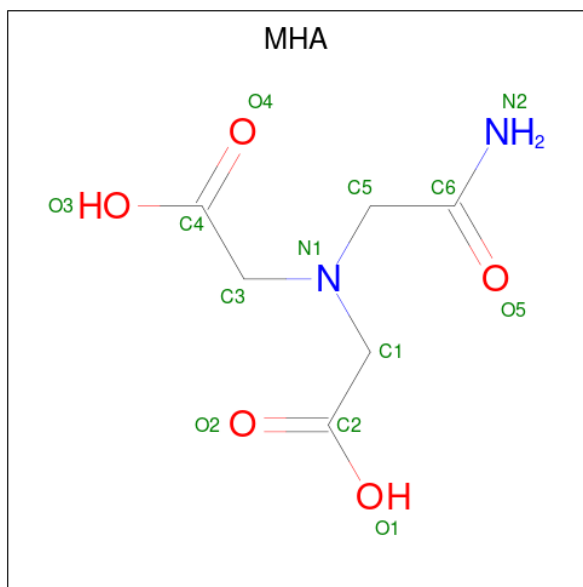
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	0	0
			23	17	3	2	1		

- Molecule 3 is alpha-D-glucopyranosyl 6-O-dodecyl-alpha-D-glucopyranoside (CCD ID: L6T) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			35	24	11		
3	A	1	Total	C	O	0	0
			35	24	11		
3	A	1	Total	C	O	0	0
			35	24	11		
3	A	1	Total	C	O	0	0
			35	24	11		
3	A	1	Total	C	O	0	0
			35	24	11		

- Molecule 4 is (CARBAMOYLMETHYL-CARBOXYMETHYL-AMINO)-ACETIC ACID (CCD ID: MHA) (formula: C₆H₁₀N₂O₅).

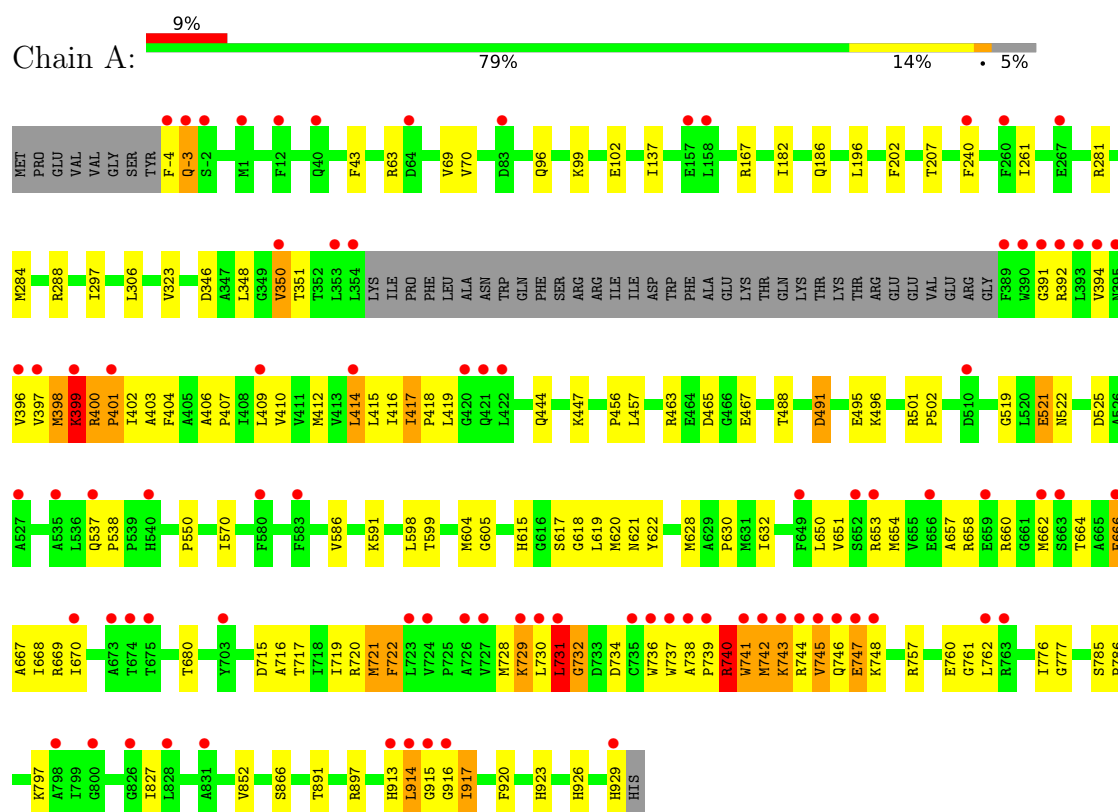


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			13	6	2	5		
4	A	1	Total	C	N	O	0	0
			13	6	2	5		
4	A	1	Total	C	N	O	0	0
			13	6	2	5		

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: Drug exporters of the RND superfamily-like protein, Endolysin



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	86.97Å 141.17Å 144.21Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.48 – 2.82 43.48 – 2.82	Depositor EDS
% Data completeness (in resolution range)	98.7 (43.48-2.82) 98.6 (43.48-2.82)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.98 (at 2.81Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.219 , 0.247 0.229 , 0.252	Depositor DCC
R_{free} test set	2118 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	66.5	Xtriage
Anisotropy	0.324	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 50.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.011 for -h,l,k	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	7189	wwPDB-VP
Average B, all atoms (Å ²)	76.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.71% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 9ZF, MHA, L6T

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	0.41	0/7097	0.83	18/9642 (0.2%)

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	916	GLY	N-CA-C	7.30	130.49	113.18
1	A	537	GLN	CA-C-N	6.94	124.73	119.66
1	A	537	GLN	C-N-CA	6.94	124.73	119.66
1	A	731	LEU	N-CA-C	-6.82	101.20	110.68
1	A	417	ILE	CA-C-N	-6.63	112.17	119.19
1	A	417	ILE	C-N-CA	-6.63	112.17	119.19
1	A	538	PRO	O-C-N	6.50	124.30	121.31
1	A	740	ARG	CB-CA-C	-6.19	109.43	116.54
1	A	722	PHE	N-CA-C	5.91	120.28	112.72
1	A	399	LYS	CA-C-N	-5.64	117.32	122.28
1	A	399	LYS	C-N-CA	-5.64	117.32	122.28
1	A	398	MET	CA-C-N	5.55	128.27	120.28
1	A	398	MET	C-N-CA	5.55	128.27	120.28
1	A	399	LYS	N-CA-C	5.39	117.91	111.71
1	A	745	VAL	CA-C-N	-5.39	114.62	122.65
1	A	745	VAL	C-N-CA	-5.39	114.62	122.65
1	A	740	ARG	N-CA-C	5.33	116.42	108.31
1	A	732	GLY	N-CA-C	5.19	118.96	112.73

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6952	0	7111	147	0
2	A	23	0	0	0	0
3	A	175	0	0	21	0
4	A	39	0	24	7	0
All	All	7189	0	7135	153	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 11.

All (153) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:738:ALA:HB2	1:A:743:LYS:CD	1.23	1.66
1:A:738:ALA:CB	1:A:743:LYS:HD3	1.16	1.59
1:A:202:PHE:CE2	1:A:350:VAL:HG13	1.39	1.52
1:A:917:ILE:HD11	1:A:920:PHE:CE1	1.61	1.34
1:A:917:ILE:HD11	1:A:920:PHE:CD1	1.70	1.27
1:A:202:PHE:HE2	1:A:350:VAL:CG1	1.52	1.22
1:A:738:ALA:HB2	1:A:743:LYS:HD2	1.24	1.11
1:A:738:ALA:HB3	1:A:743:LYS:HD3	1.37	1.00
1:A:202:PHE:HZ	1:A:350:VAL:HA	1.26	0.99
1:A:738:ALA:CB	1:A:743:LYS:CD	2.03	0.96
1:A:202:PHE:CE2	1:A:350:VAL:CG1	2.36	0.95
1:A:917:ILE:CD1	1:A:920:PHE:CE1	2.52	0.93
1:A:202:PHE:CZ	1:A:350:VAL:HG13	2.09	0.87
1:A:202:PHE:CZ	1:A:350:VAL:HA	2.11	0.85
1:A:615:HIS:ND1	3:A:1005:L6T:CAP	2.40	0.84
1:A:653:ARG:NH2	3:A:1004:L6T:OAQ	2.11	0.84
1:A:399:LYS:HE3	1:A:400:ARG:HB2	1.57	0.83
1:A:917:ILE:CD1	1:A:920:PHE:CD1	2.59	0.82
1:A:207:THR:HG21	1:A:346:ASP:HA	1.63	0.80
1:A:398:MET:SD	1:A:729:LYS:NZ	2.54	0.80
3:A:1005:L6T:O2	4:A:1009:MHA:O5	1.99	0.79
1:A:738:ALA:HB1	1:A:743:LYS:HD3	1.57	0.77
1:A:797:LYS:HG2	1:A:929:HIS:CE1	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:ALA:HB3	1:A:407:PRO:HD3	1.67	0.75
1:A:621:ASN:OD1	3:A:1006:L6T:CAR	2.35	0.75
1:A:664:THR:OG1	1:A:736:TRP:CH2	2.41	0.74
1:A:288:ARG:HB3	3:A:1004:L6T:OAW	1.88	0.74
1:A:240:PHE:HB3	3:A:1002:L6T:CBI	2.18	0.73
1:A:731:LEU:N	1:A:731:LEU:HD23	2.04	0.73
3:A:1005:L6T:CAO	4:A:1009:MHA:HC32	2.19	0.72
3:A:1005:L6T:C3	4:A:1009:MHA:O4	2.37	0.72
1:A:398:MET:HA	1:A:729:LYS:NZ	2.06	0.71
1:A:653:ARG:NH2	3:A:1004:L6T:CAP	2.54	0.71
1:A:657:ALA:HB3	1:A:667:ALA:HB1	1.73	0.70
1:A:615:HIS:CE1	3:A:1005:L6T:CAP	2.75	0.70
1:A:739:PRO:O	1:A:740:ARG:HG3	1.92	0.70
1:A:914:LEU:HD12	1:A:914:LEU:C	2.17	0.69
1:A:917:ILE:HD11	1:A:920:PHE:HE1	1.51	0.68
1:A:628:MET:HG3	1:A:630:PRO:HD2	1.74	0.68
1:A:202:PHE:HZ	1:A:350:VAL:CA	2.06	0.68
1:A:653:ARG:HH22	3:A:1004:L6T:CAP	2.05	0.68
1:A:739:PRO:O	1:A:742:MET:HB2	1.95	0.67
1:A:417:ILE:HG13	1:A:418:PRO:HD3	1.76	0.66
1:A:914:LEU:HD12	1:A:915:GLY:O	1.97	0.65
1:A:664:THR:OG1	1:A:736:TRP:CZ3	2.48	0.65
1:A:717:THR:O	1:A:721:MET:HG3	1.96	0.65
1:A:740:ARG:NH2	1:A:742:MET:SD	2.70	0.64
1:A:401:PRO:CG	1:A:730:LEU:HD11	2.28	0.64
1:A:618:GLY:N	4:A:1009:MHA:O3	2.24	0.63
1:A:240:PHE:CB	3:A:1002:L6T:CBI	2.76	0.62
1:A:746:GLN:H	1:A:746:GLN:CD	2.08	0.61
1:A:651:VAL:HA	1:A:654:MET:HE3	1.82	0.60
1:A:406:ALA:N	1:A:407:PRO:CD	2.64	0.60
1:A:396:VAL:O	1:A:399:LYS:HG3	2.02	0.59
1:A:69:VAL:HB	1:A:137:ILE:HB	1.85	0.59
1:A:297:ILE:HG21	1:A:323:VAL:HG21	1.85	0.58
1:A:394:VAL:HG22	1:A:398:MET:HE2	1.85	0.58
1:A:739:PRO:C	1:A:740:ARG:CG	2.76	0.58
1:A:306:LEU:HD11	1:A:570:ILE:HD12	1.85	0.58
1:A:591:LYS:HE3	1:A:728:MET:HG3	1.84	0.58
1:A:653:ARG:NH1	3:A:1004:L6T:OAQ	2.36	0.58
1:A:491:ASP:OD2	1:A:496:LYS:NZ	2.33	0.58
1:A:917:ILE:HG13	1:A:917:ILE:O	2.03	0.57
1:A:657:ALA:HB3	1:A:667:ALA:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:396:VAL:O	1:A:399:LYS:CG	2.54	0.56
1:A:96:GLN:HG2	1:A:99:LYS:HZ1	1.71	0.56
1:A:744:ARG:HG2	1:A:745:VAL:O	2.06	0.56
1:A:410:VAL:O	1:A:414:LEU:HD22	2.07	0.55
1:A:664:THR:OG1	1:A:736:TRP:HH2	1.85	0.55
1:A:488:THR:HG22	1:A:521:GLU:HG3	1.88	0.55
1:A:729:LYS:O	1:A:732:GLY:HA2	2.07	0.54
1:A:738:ALA:HB1	1:A:743:LYS:HB2	1.88	0.54
1:A:414:LEU:O	1:A:417:ILE:HG13	2.07	0.54
4:A:1009:MHA:O3	4:A:1009:MHA:HC52	2.05	0.54
1:A:716:ALA:O	1:A:720:ARG:NH2	2.41	0.54
1:A:398:MET:HE1	1:A:668:ILE:HB	1.90	0.53
3:A:1004:L6T:C2	3:A:1004:L6T:C6	2.86	0.53
1:A:797:LYS:HG2	1:A:929:HIS:HE1	1.73	0.53
1:A:167:ARG:NH1	1:A:444:GLN:OE1	2.43	0.52
1:A:653:ARG:CZ	3:A:1004:L6T:OAQ	2.58	0.52
1:A:415:LEU:O	1:A:605:GLY:HA3	2.09	0.52
1:A:394:VAL:O	1:A:398:MET:HG2	2.10	0.52
3:A:1004:L6T:CAP	3:A:1004:L6T:CAV	2.86	0.52
1:A:717:THR:O	1:A:721:MET:CG	2.59	0.51
1:A:619:LEU:HG	1:A:620:MET:HE2	1.94	0.50
1:A:401:PRO:CB	1:A:730:LEU:HD11	2.41	0.50
1:A:757:ARG:HG3	1:A:762:LEU:HB2	1.94	0.50
1:A:739:PRO:C	1:A:740:ARG:HG3	2.36	0.50
1:A:721:MET:HB2	1:A:722:PHE:CE2	2.47	0.49
1:A:721:MET:HB2	1:A:722:PHE:CD2	2.47	0.49
1:A:412:MET:O	1:A:416:ILE:HG13	2.12	0.49
1:A:650:LEU:HG	1:A:654:MET:HE2	1.92	0.49
1:A:654:MET:SD	1:A:728:MET:HE1	2.53	0.49
1:A:731:LEU:N	1:A:731:LEU:CD2	2.73	0.49
1:A:747:GLU:CD	1:A:747:GLU:N	2.69	0.48
1:A:654:MET:SD	1:A:668:ILE:HA	2.53	0.48
1:A:391:GLY:HA2	1:A:394:VAL:HG12	1.95	0.47
1:A:914:LEU:HG	1:A:914:LEU:O	2.14	0.47
1:A:737:TRP:CD2	1:A:739:PRO:HD3	2.50	0.47
1:A:653:ARG:CZ	3:A:1004:L6T:CAP	2.92	0.47
1:A:398:MET:HA	1:A:729:LYS:HZ2	1.76	0.47
1:A:913:HIS:CE1	1:A:915:GLY:HA2	2.51	0.46
1:A:746:GLN:CD	1:A:746:GLN:N	2.73	0.46
1:A:737:TRP:CH2	1:A:739:PRO:HG3	2.51	0.46
1:A:666:GLU:O	1:A:670:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:866:SER:OG	4:A:1008:MHA:N2	2.49	0.46
1:A:657:ALA:CB	1:A:667:ALA:CB	2.94	0.45
1:A:664:THR:HG1	1:A:736:TRP:HH2	1.51	0.45
1:A:281:ARG:HA	1:A:284:MET:HE2	1.99	0.45
1:A:398:MET:HA	1:A:729:LYS:HZ1	1.79	0.45
1:A:729:LYS:O	1:A:732:GLY:CA	2.65	0.45
1:A:-4:PHE:C	1:A:-3:GLN:HG3	2.40	0.45
1:A:182:ILE:O	1:A:186:GLN:HG2	2.16	0.45
1:A:463:ARG:HG2	1:A:465:ASP:OD1	2.17	0.44
1:A:284:MET:O	1:A:288:ARG:HD3	2.18	0.44
1:A:621:ASN:OD1	3:A:1006:L6T:OAS	2.35	0.44
1:A:653:ARG:NH1	3:A:1004:L6T:CAP	2.81	0.44
1:A:63:ARG:NH1	3:A:1002:L6T:OAW	2.51	0.43
1:A:917:ILE:CG1	1:A:920:PHE:CE1	3.01	0.43
1:A:664:THR:HG21	1:A:732:GLY:O	2.18	0.43
1:A:746:GLN:N	1:A:746:GLN:OE1	2.51	0.43
1:A:415:LEU:O	1:A:418:PRO:HD2	2.19	0.43
1:A:522:ASN:HB3	1:A:525:ASP:CG	2.44	0.43
1:A:740:ARG:CZ	1:A:742:MET:SD	3.06	0.43
1:A:760:GLU:OE2	1:A:923:HIS:HB3	2.19	0.43
1:A:715:ASP:HA	1:A:719:ILE:HB	2.01	0.42
1:A:-4:PHE:C	1:A:-3:GLN:CG	2.91	0.42
1:A:456:PRO:HA	1:A:519:GLY:HA2	2.01	0.42
1:A:501:ARG:HA	1:A:502:PRO:HD3	1.94	0.42
1:A:401:PRO:HG2	1:A:730:LEU:HD11	2.02	0.42
1:A:525:ASP:N	1:A:525:ASP:OD1	2.52	0.42
1:A:604:MET:HE2	1:A:604:MET:HB3	1.91	0.42
1:A:747:GLU:CD	1:A:747:GLU:H	2.26	0.42
1:A:457:LEU:HD21	1:A:550:PRO:HB2	2.02	0.42
1:A:740:ARG:HB2	1:A:741:TRP:H	1.37	0.42
1:A:776:ILE:HG12	1:A:777:GLY:H	1.84	0.42
1:A:891:THR:HG22	4:A:1007:MHA:HC32	2.00	0.42
1:A:43:PHE:CD1	1:A:628:MET:HE2	2.55	0.42
1:A:680:THR:HG23	1:A:720:ARG:HH12	1.84	0.42
1:A:404:PHE:C	1:A:407:PRO:HD2	2.45	0.41
1:A:419:LEU:HB2	1:A:605:GLY:HA2	2.01	0.41
1:A:914:LEU:CD1	1:A:915:GLY:O	2.68	0.41
1:A:240:PHE:HB2	3:A:1002:L6T:CBI	2.50	0.41
1:A:403:ALA:O	1:A:407:PRO:HG2	2.20	0.41
1:A:397:VAL:HG13	1:A:404:PHE:CD2	2.56	0.41
1:A:926:HIS:O	1:A:926:HIS:ND1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:761:GLY:HA3	1:A:920:PHE:CE1	2.55	0.41
1:A:617:SER:HA	1:A:622:TYR:CE2	2.55	0.41
1:A:827:ILE:HD11	1:A:852:VAL:HG21	2.03	0.41
1:A:914:LEU:C	1:A:914:LEU:CD1	2.85	0.41
1:A:207:THR:HG23	1:A:348:LEU:O	2.20	0.41
1:A:785:SER:HA	1:A:786:PRO:HD3	1.84	0.41
1:A:392:ARG:O	1:A:396:VAL:HG23	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	896/943 (95%)	878 (98%)	17 (2%)	1 (0%)	48 75

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	401	PRO

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	738/777 (95%)	699 (95%)	39 (5%)	20 50

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	-3	GLN
1	A	70	VAL
1	A	102	GLU
1	A	196	LEU
1	A	261	ILE
1	A	350	VAL
1	A	351	THR
1	A	399	LYS
1	A	400	ARG
1	A	402	ILE
1	A	409	LEU
1	A	414	LEU
1	A	447	LYS
1	A	467	GLU
1	A	491	ASP
1	A	495	GLU
1	A	521	GLU
1	A	586	VAL
1	A	598	LEU
1	A	599	THR
1	A	632	ILE
1	A	658	ARG
1	A	660	ARG
1	A	662	MET
1	A	666	GLU
1	A	669	ARG
1	A	721	MET
1	A	729	LYS
1	A	731	LEU
1	A	734	ASP
1	A	740	ARG
1	A	741	TRP
1	A	742	MET
1	A	743	LYS
1	A	747	GLU
1	A	748	LYS
1	A	897	ARG
1	A	914	LEU
1	A	917	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	-3	GLN
1	A	537	GLN
1	A	804	ASN
1	A	913	HIS
1	A	929	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

9 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	L6T	A	1003	-	36,36,36	1.28	5 (13%)	47,47,47	1.41	8 (17%)
3	L6T	A	1006	-	36,36,36	1.43	5 (13%)	47,47,47	0.81	0
4	MHA	A	1009	-	12,12,12	0.99	2 (16%)	15,15,15	1.38	2 (13%)
2	9ZF	A	1001	-	26,26,26	1.70	3 (11%)	38,39,39	2.37	8 (21%)
3	L6T	A	1004	-	36,36,36	1.43	5 (13%)	47,47,47	0.84	1 (2%)
3	L6T	A	1005	-	36,36,36	1.41	5 (13%)	47,47,47	0.91	2 (4%)
4	MHA	A	1008	-	12,12,12	1.30	1 (8%)	15,15,15	1.36	2 (13%)
3	L6T	A	1002	-	36,36,36	1.52	7 (19%)	47,47,47	1.02	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	MHA	A	1007	-	12,12,12	1.32	1 (8%)	15,15,15	1.38	2 (13%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	L6T	A	1003	-	-	12/20/60/60	0/2/2/2
3	L6T	A	1006	-	-	8/20/60/60	0/2/2/2
4	MHA	A	1009	-	-	10/12/12/12	-
2	9ZF	A	1001	-	-	0/8/36/36	0/5/4/4
3	L6T	A	1004	-	-	13/20/60/60	0/2/2/2
3	L6T	A	1005	-	-	13/20/60/60	0/2/2/2
4	MHA	A	1008	-	-	0/12/12/12	-
3	L6T	A	1002	-	-	7/20/60/60	0/2/2/2
4	MHA	A	1007	-	-	1/12/12/12	-

All (34) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1001	9ZF	C09-C08	-5.33	1.40	1.53
3	A	1004	L6T	OAN-CAO	3.95	1.54	1.44
2	A	1001	9ZF	C12-N14	3.91	1.46	1.37
3	A	1006	L6T	OAN-CAO	3.91	1.53	1.44
3	A	1005	L6T	OAN-CAO	3.91	1.53	1.44
3	A	1002	L6T	CAP-CAO	-3.74	1.39	1.51
3	A	1003	L6T	OAN-CAO	3.43	1.52	1.44
2	A	1001	9ZF	C12-N11	3.40	1.44	1.35
3	A	1002	L6T	CAV-CAT	-3.25	1.43	1.52
3	A	1004	L6T	CAP-CAO	-3.11	1.41	1.51
4	A	1008	MHA	C6-N2	3.10	1.42	1.32
3	A	1006	L6T	CAP-CAO	-3.09	1.41	1.51
4	A	1007	MHA	C6-N2	3.09	1.42	1.32
3	A	1005	L6T	CAP-CAO	-3.08	1.41	1.51
3	A	1003	L6T	CAP-CAO	-3.01	1.41	1.51
3	A	1002	L6T	OAN-CAO	2.89	1.51	1.44
3	A	1002	L6T	CAT-CAR	-2.78	1.45	1.52
3	A	1002	L6T	C3-C2	-2.73	1.45	1.52
3	A	1002	L6T	C4-C3	-2.68	1.45	1.52
3	A	1002	L6T	CAA-CAV	-2.63	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1006	L6T	O5-C1	2.51	1.48	1.41
3	A	1004	L6T	O5-C1	2.47	1.48	1.41
3	A	1005	L6T	O5-C1	2.47	1.48	1.41
3	A	1003	L6T	CAV-CAT	-2.38	1.46	1.52
3	A	1003	L6T	C3-C2	-2.35	1.46	1.52
3	A	1003	L6T	CAA-CAV	-2.28	1.45	1.52
3	A	1004	L6T	CAV-CAT	-2.28	1.46	1.52
3	A	1006	L6T	CAV-CAT	-2.25	1.46	1.52
3	A	1005	L6T	CAV-CAT	-2.24	1.46	1.52
3	A	1006	L6T	OAN-CAA	2.10	1.47	1.41
3	A	1004	L6T	OAN-CAA	2.09	1.47	1.41
4	A	1009	MHA	O3-C4	-2.06	1.24	1.30
3	A	1005	L6T	OAN-CAA	2.04	1.47	1.41
4	A	1009	MHA	O1-C2	-2.03	1.24	1.30

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1001	9ZF	C07-C06-C01	-8.24	94.02	109.69
2	A	1001	9ZF	C03-C04-C10	-7.81	94.59	109.57
3	A	1003	L6T	CAA-OAN-CAO	-4.13	105.66	113.72
2	A	1001	9ZF	N14-C12-N11	3.85	119.07	113.77
4	A	1009	MHA	C6-C5-N1	-3.80	107.46	114.42
3	A	1003	L6T	CAV-CAT-CAR	3.07	116.22	110.83
2	A	1001	9ZF	C09-C02-C03	-3.07	103.86	109.69
3	A	1003	L6T	CAT-CAR-CAO	2.86	115.42	110.23
2	A	1001	9ZF	C07-C06-C05	2.67	114.77	109.69
3	A	1005	L6T	CAA-O1-C1	-2.57	109.72	114.33
3	A	1004	L6T	CAA-O1-C1	-2.56	109.74	114.33
3	A	1003	L6T	CAP-CAO-CAR	-2.49	106.90	113.02
3	A	1003	L6T	OAN-CAO-CAR	-2.47	105.24	109.70
2	A	1001	9ZF	C05-C04-C10	2.46	114.30	109.57
3	A	1003	L6T	O1-C1-C2	2.45	114.11	108.09
4	A	1008	MHA	C6-C5-N1	-2.43	109.97	114.42
3	A	1002	L6T	O5-C5-C6	2.41	111.47	106.69
4	A	1007	MHA	C6-C5-N1	-2.41	110.01	114.42
4	A	1007	MHA	C5-C6-N2	2.29	120.23	115.61
3	A	1005	L6T	CAT-CAR-CAO	2.27	114.36	110.23
2	A	1001	9ZF	C05-C04-C03	2.16	112.68	109.06
4	A	1009	MHA	C2-C1-N1	-2.15	106.94	113.77
3	A	1003	L6T	CAA-O1-C1	-2.11	110.55	114.33
4	A	1008	MHA	C5-C6-N2	2.10	119.84	115.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1003	L6T	C3-C4-C5	2.10	114.04	110.23
2	A	1001	9ZF	O13-C12-N11	-2.07	118.26	122.67

There are no chirality outliers.

All (64) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1003	L6T	C2-C1-O1-CAA
3	A	1005	L6T	C5-C6-O6-CAX
4	A	1009	MHA	C4-C3-N1-C5
4	A	1009	MHA	N1-C3-C4-O3
4	A	1009	MHA	N1-C3-C4-O4
3	A	1003	L6T	OAN-CAO-CAP-OAQ
3	A	1005	L6T	CBE-CBF-CBG-CBH
3	A	1003	L6T	CAR-CAO-CAP-OAQ
3	A	1005	L6T	O5-C1-O1-CAA
3	A	1005	L6T	OAN-CAA-O1-C1
3	A	1003	L6T	O5-C5-C6-O6
3	A	1005	L6T	O6-CAX-CAY-CAZ
3	A	1003	L6T	C4-C5-C6-O6
4	A	1009	MHA	N1-C5-C6-N2
3	A	1005	L6T	C2-C1-O1-CAA
3	A	1005	L6T	CAV-CAA-O1-C1
3	A	1006	L6T	C2-C1-O1-CAA
3	A	1005	L6T	CAY-CAZ-CBA-CBB
3	A	1005	L6T	CAX-CAY-CAZ-CBA
3	A	1006	L6T	CAX-CAY-CAZ-CBA
3	A	1004	L6T	CBB-CBC-CBD-CBE
3	A	1006	L6T	CBA-CBB-CBC-CBD
3	A	1002	L6T	CAZ-CBA-CBB-CBC
3	A	1006	L6T	O5-C1-O1-CAA
3	A	1006	L6T	CAZ-CBA-CBB-CBC
3	A	1003	L6T	CBE-CBF-CBG-CBH
3	A	1004	L6T	CAY-CAZ-CBA-CBB
4	A	1009	MHA	N1-C5-C6-O5
3	A	1002	L6T	CBD-CBE-CBF-CBG
3	A	1003	L6T	CBD-CBE-CBF-CBG
3	A	1006	L6T	CBC-CBD-CBE-CBF
3	A	1006	L6T	CBB-CBC-CBD-CBE
3	A	1004	L6T	CBD-CBE-CBF-CBG
3	A	1002	L6T	O5-C5-C6-O6
3	A	1005	L6T	CBA-CBB-CBC-CBD

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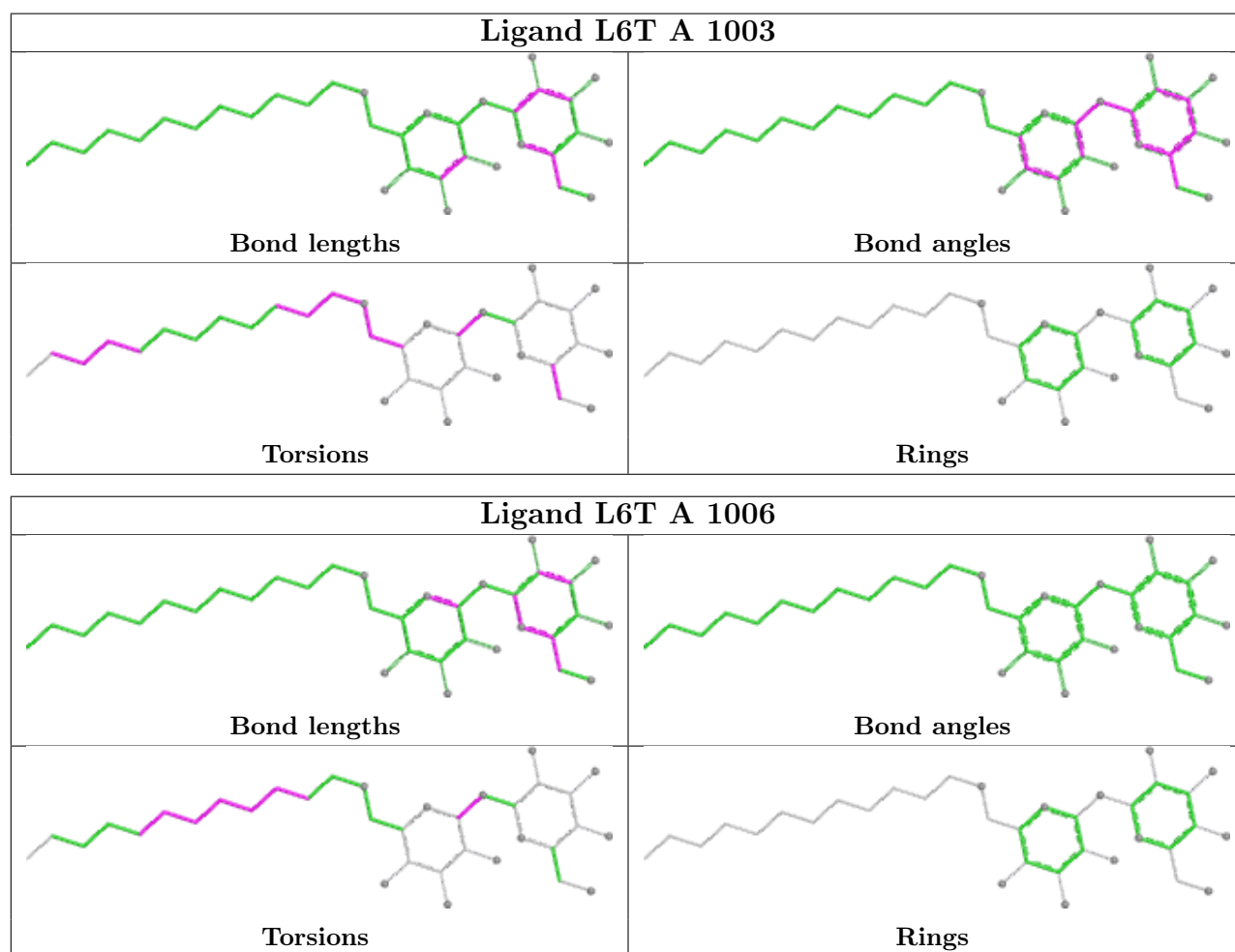
Mol	Chain	Res	Type	Atoms
3	A	1004	L6T	CBA-CBB-CBC-CBD
3	A	1004	L6T	CBF-CBG-CBH-CBI
3	A	1002	L6T	O6-CAX-CAY-CAZ
3	A	1004	L6T	CBC-CBD-CBE-CBF
3	A	1002	L6T	CAX-CAY-CAZ-CBA
3	A	1002	L6T	C5-C6-O6-CAX
4	A	1009	MHA	C2-C1-N1-C5
4	A	1009	MHA	C4-C3-N1-C1
3	A	1004	L6T	C4-C5-C6-O6
3	A	1002	L6T	CBF-CBG-CBH-CBI
3	A	1004	L6T	CAY-CAX-O6-C6
3	A	1004	L6T	CAR-CAO-CAP-OAQ
3	A	1003	L6T	C5-C6-O6-CAX
3	A	1005	L6T	CAR-CAO-CAP-OAQ
3	A	1005	L6T	CBC-CBD-CBE-CBF
3	A	1004	L6T	CBE-CBF-CBG-CBH
3	A	1003	L6T	O6-CAX-CAY-CAZ
3	A	1005	L6T	OAN-CAO-CAP-OAQ
4	A	1009	MHA	C2-C1-N1-C3
3	A	1004	L6T	CAV-CAA-O1-C1
3	A	1004	L6T	OAN-CAO-CAP-OAQ
3	A	1003	L6T	CAY-CAX-O6-C6
3	A	1004	L6T	O6-CAX-CAY-CAZ
4	A	1007	MHA	C4-C3-N1-C5
3	A	1003	L6T	CAX-CAY-CAZ-CBA
3	A	1006	L6T	CAY-CAZ-CBA-CBB
3	A	1003	L6T	CBF-CBG-CBH-CBI
4	A	1009	MHA	N1-C1-C2-O1
4	A	1009	MHA	N1-C1-C2-O2

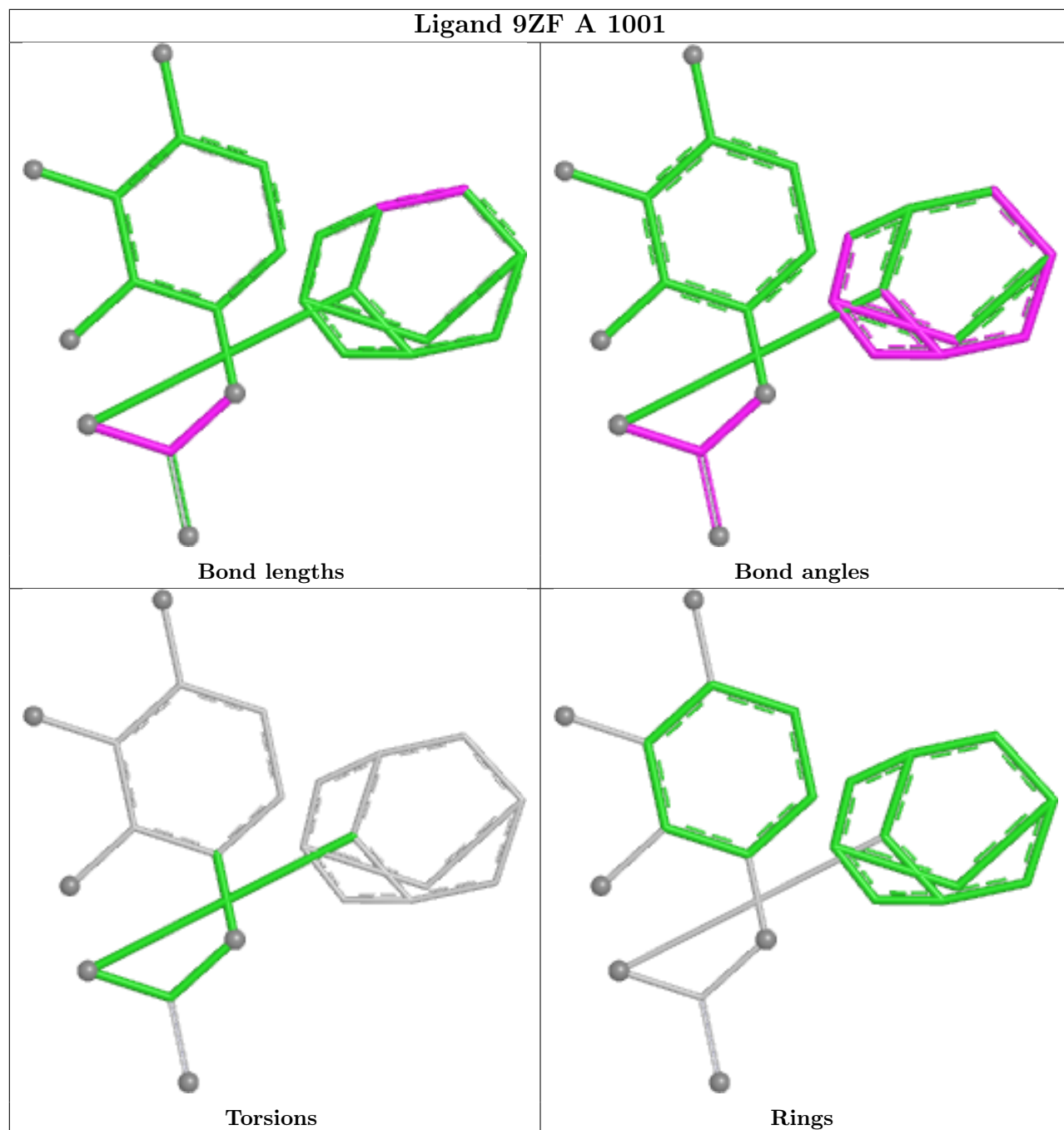
There are no ring outliers.

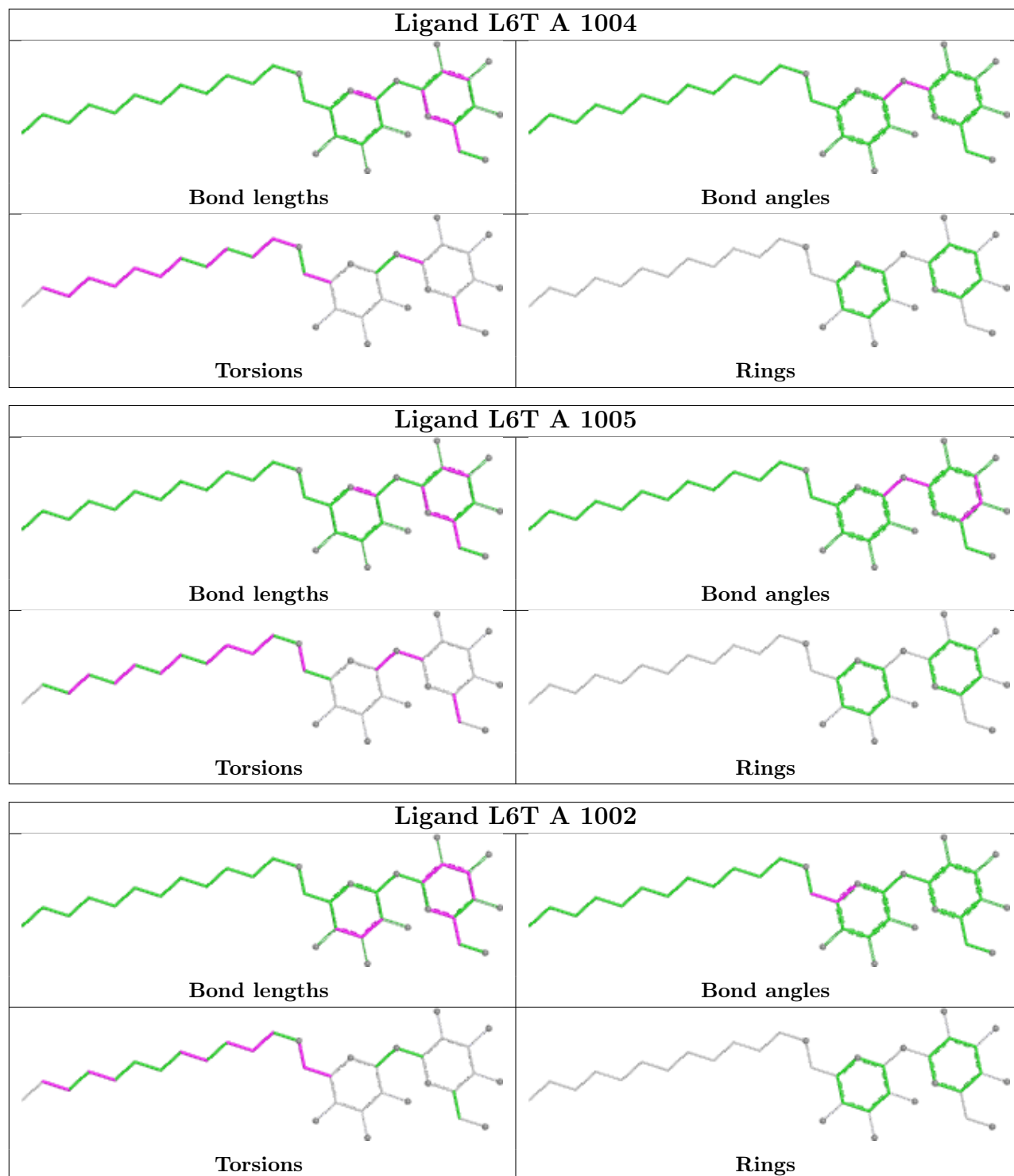
7 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1006	L6T	2	0
4	A	1009	MHA	5	0
3	A	1004	L6T	10	0
3	A	1005	L6T	5	0
4	A	1008	MHA	1	0
3	A	1002	L6T	4	0
4	A	1007	MHA	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 ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	900/943 (95%)	0.50	84 (9%) 14 10	37, 66, 138, 234	0

All (84) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	742	MET	6.3
1	A	-4	PHE	6.3
1	A	744	ARG	5.7
1	A	662	MET	5.5
1	A	929	HIS	5.4
1	A	583	PHE	5.2
1	A	389	PHE	4.9
1	A	354	LEU	4.9
1	A	738	ALA	4.8
1	A	659	GLU	4.8
1	A	391	GLY	4.7
1	A	390	TRP	4.3
1	A	730	LEU	4.3
1	A	914	LEU	4.2
1	A	353	LEU	4.2
1	A	741	TRP	4.1
1	A	915	GLY	4.0
1	A	652	SER	4.0
1	A	393	LEU	3.9
1	A	395	ASN	3.9
1	A	-2	SER	3.9
1	A	401	PRO	3.9
1	A	653	ARG	3.8
1	A	747	GLU	3.6
1	A	746	GLN	3.6
1	A	535	ALA	3.5
1	A	743	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	1	MET	3.4
1	A	396	VAL	3.3
1	A	240	PHE	3.3
1	A	739	PRO	3.3
1	A	540	HIS	3.3
1	A	731	LEU	3.3
1	A	260	PHE	3.3
1	A	736	TRP	3.1
1	A	83	ASP	3.1
1	A	745	VAL	3.1
1	A	656	GLU	3.0
1	A	703	TYR	3.0
1	A	737	TRP	3.0
1	A	735	CYS	2.9
1	A	537	GLN	2.9
1	A	12	PHE	2.9
1	A	675	THR	2.9
1	A	-3	GLN	2.9
1	A	828	LEU	2.9
1	A	580	PHE	2.9
1	A	64	ASP	2.8
1	A	831	ALA	2.8
1	A	350	VAL	2.7
1	A	394	VAL	2.7
1	A	674	THR	2.7
1	A	800	GLY	2.7
1	A	267	GLU	2.7
1	A	392	ARG	2.6
1	A	157	GLU	2.6
1	A	670	ILE	2.6
1	A	421	GLN	2.6
1	A	663	SER	2.6
1	A	40	GLN	2.5
1	A	763	ARG	2.5
1	A	414	LEU	2.5
1	A	729	LYS	2.5
1	A	399	LYS	2.4
1	A	723	LEU	2.4
1	A	726	ALA	2.4
1	A	727	VAL	2.3
1	A	666	GLU	2.3
1	A	510	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	527	ALA	2.2
1	A	798	ALA	2.2
1	A	913	HIS	2.2
1	A	422	LEU	2.2
1	A	748	LYS	2.1
1	A	673	ALA	2.1
1	A	826	GLY	2.1
1	A	158	LEU	2.1
1	A	409	LEU	2.1
1	A	649	PHE	2.1
1	A	724	VAL	2.1
1	A	916	GLY	2.1
1	A	397	VAL	2.1
1	A	762	LEU	2.0
1	A	420	GLY	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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.

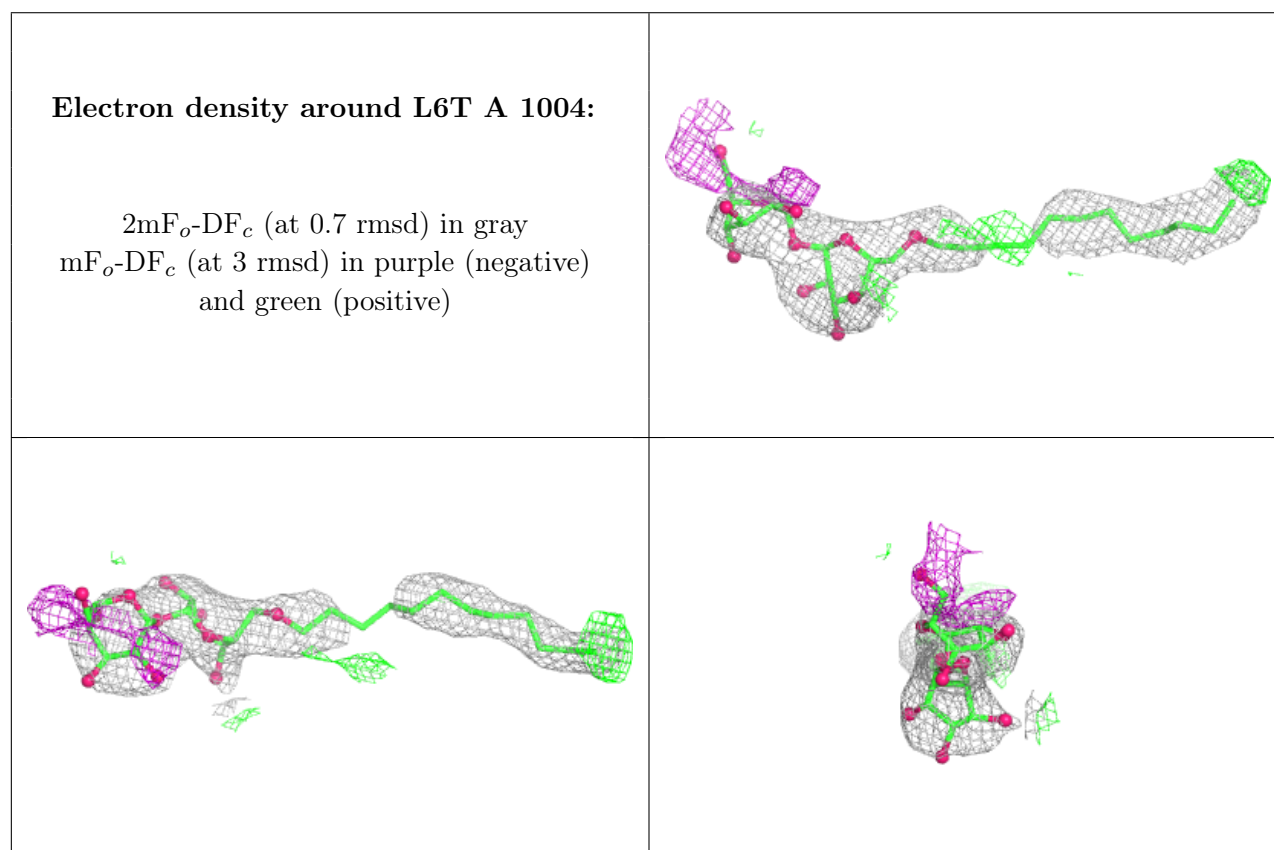
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	L6T	A	1004	35/35	0.65	0.28	77,107,120,135	0
3	L6T	A	1005	35/35	0.69	0.23	75,130,148,150	0
4	MHA	A	1009	13/13	0.75	0.21	123,142,152,158	0
3	L6T	A	1006	35/35	0.77	0.22	58,132,147,149	0
4	MHA	A	1008	13/13	0.90	0.10	64,70,78,84	0
3	L6T	A	1003	35/35	0.90	0.14	44,125,164,166	0
3	L6T	A	1002	35/35	0.93	0.14	38,76,102,111	0
2	9ZF	A	1001	23/23	0.94	0.13	82,86,91,94	0

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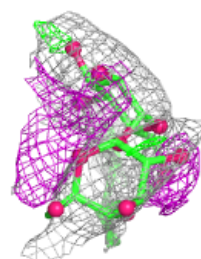
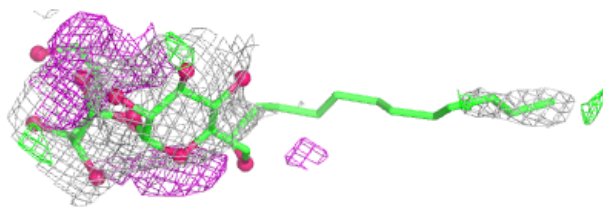
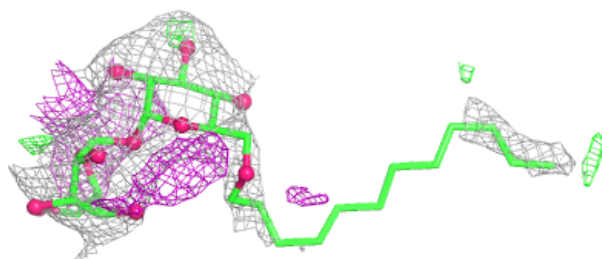
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	MHA	A	1007	13/13	0.94	0.10	59,64,74,79	0

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.

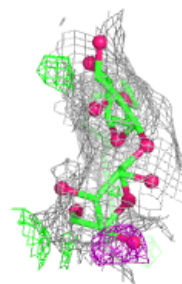
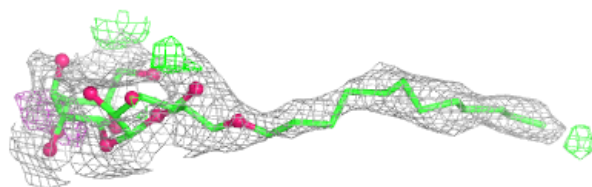
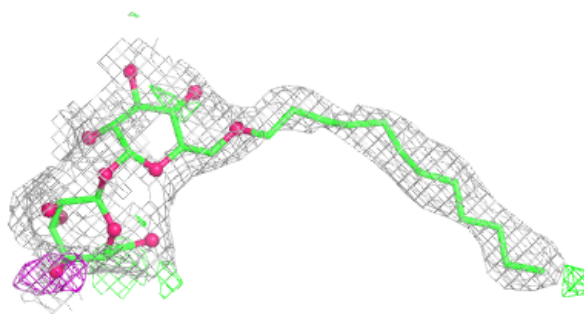


Electron density around L6T A 1005:

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

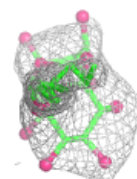
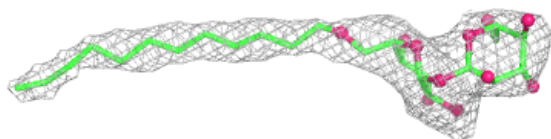
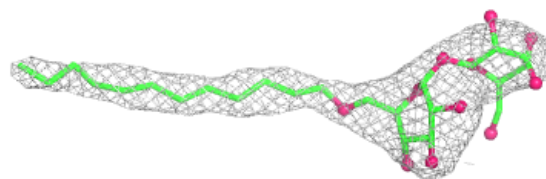
**Electron density around L6T A 1006:**

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

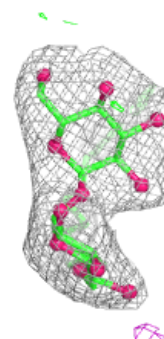
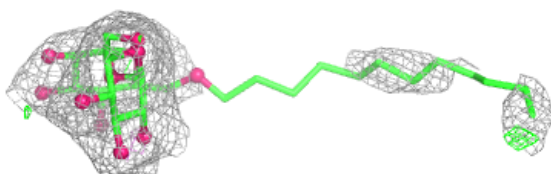
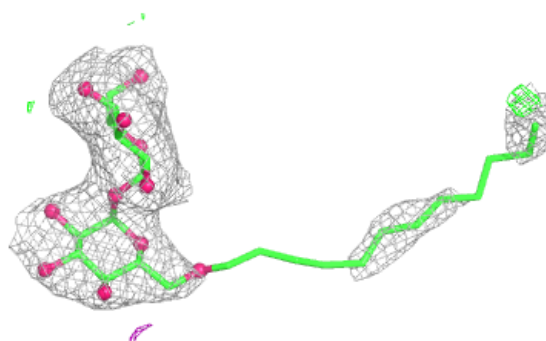


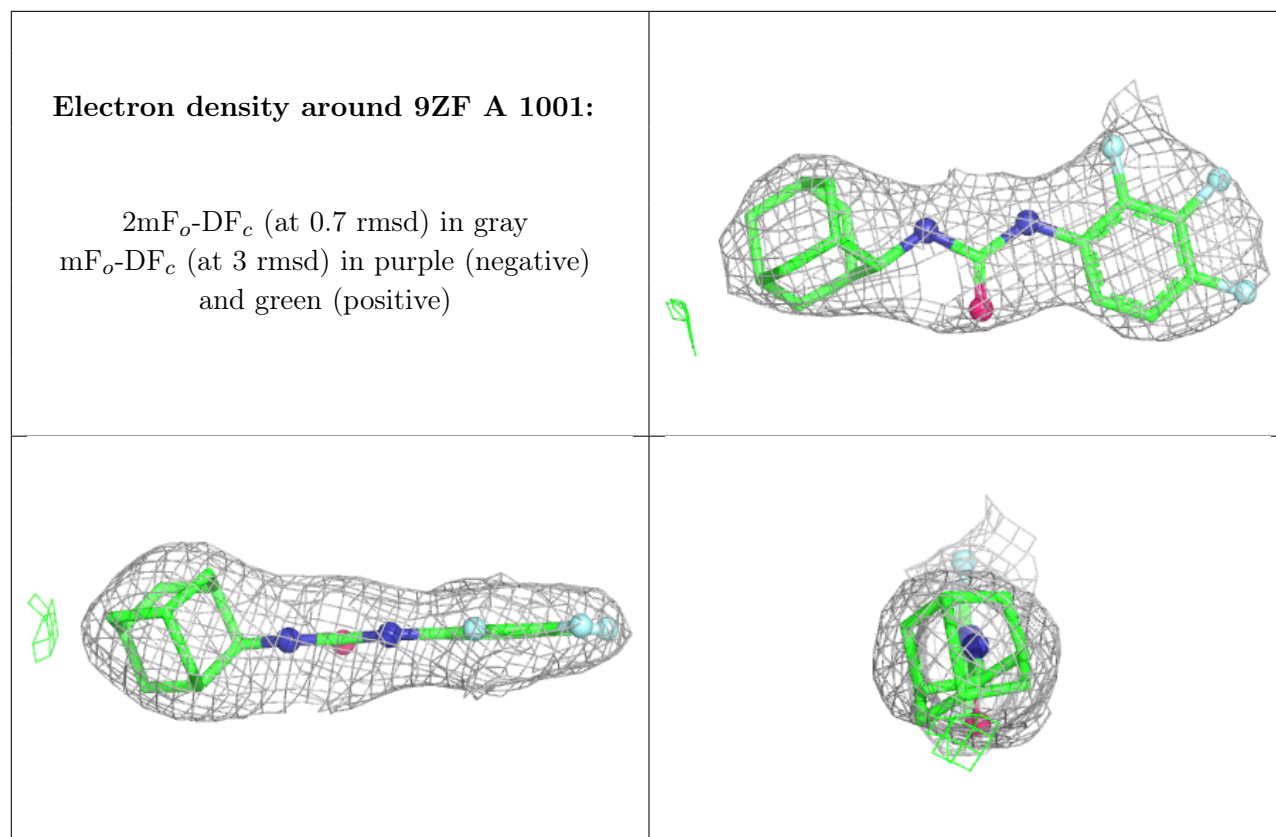
Electron density around L6T A 1003:

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

**Electron density around L6T A 1002:**

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





6.5 Other polymers [i](#)

There are no such residues in this entry.