



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 19, 2026 – 05:30 AM UTC

PDB ID : 6ZOD / pdb_00006zod
Title : Fusidic acid binding to the allosteric deep transmembrane domain binding pocket, TM7/TM8 groove, and TM1/TM2 groove of the fully induced AcrB T protomer
Authors : Oswald, C.; Tam, H.K.; Pos, K.M.
Deposited on : 2020-07-07
Resolution : 2.85 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

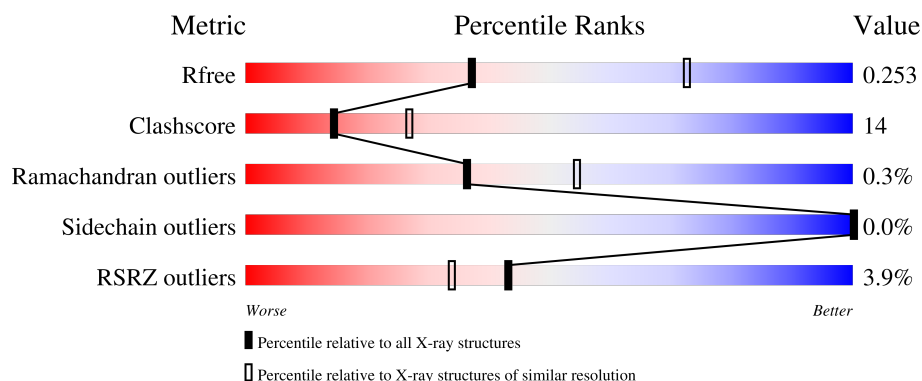
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

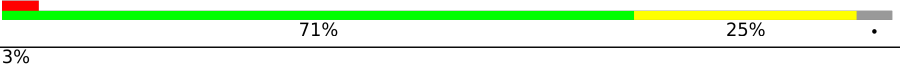
The reported resolution of this entry is 2.85 Å.

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	1407 (2.88-2.84)
Clashscore	190562	1446 (2.88-2.84)
Ramachandran outliers	187476	1406 (2.88-2.84)
Sidechain outliers	187428	1407 (2.88-2.84)
RSRZ outliers	180081	1408 (2.88-2.84)

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	1057	
1	B	1057	
1	C	1057	
2	D	169	

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Mol	Chain	Length	Quality of chain
2	E	169	5% 57% 33% 10%

2 Entry composition

There are 14 unique types of molecules in this entry. The entry contains 26706 atoms, of which 126 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 Multidrug efflux pump subunit AcrB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1033	Total	C	N	O	S	0	0	0
			7849	5052	1295	1458	44			
1	B	1020	Total	C	N	O	S	0	0	0
			7771	5007	1280	1440	44			
1	C	1032	Total	C	N	O	S	0	0	0
			7838	5043	1294	1457	44			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1050	LEU	-	expression tag	UNP P31224
A	1051	GLU	-	expression tag	UNP P31224
A	1052	HIS	-	expression tag	UNP P31224
A	1053	HIS	-	expression tag	UNP P31224
A	1054	HIS	-	expression tag	UNP P31224
A	1055	HIS	-	expression tag	UNP P31224
A	1056	HIS	-	expression tag	UNP P31224
A	1057	HIS	-	expression tag	UNP P31224
B	1050	LEU	-	expression tag	UNP P31224
B	1051	GLU	-	expression tag	UNP P31224
B	1052	HIS	-	expression tag	UNP P31224
B	1053	HIS	-	expression tag	UNP P31224
B	1054	HIS	-	expression tag	UNP P31224
B	1055	HIS	-	expression tag	UNP P31224
B	1056	HIS	-	expression tag	UNP P31224
B	1057	HIS	-	expression tag	UNP P31224
C	1050	LEU	-	expression tag	UNP P31224
C	1051	GLU	-	expression tag	UNP P31224
C	1052	HIS	-	expression tag	UNP P31224
C	1053	HIS	-	expression tag	UNP P31224
C	1054	HIS	-	expression tag	UNP P31224
C	1055	HIS	-	expression tag	UNP P31224
C	1056	HIS	-	expression tag	UNP P31224

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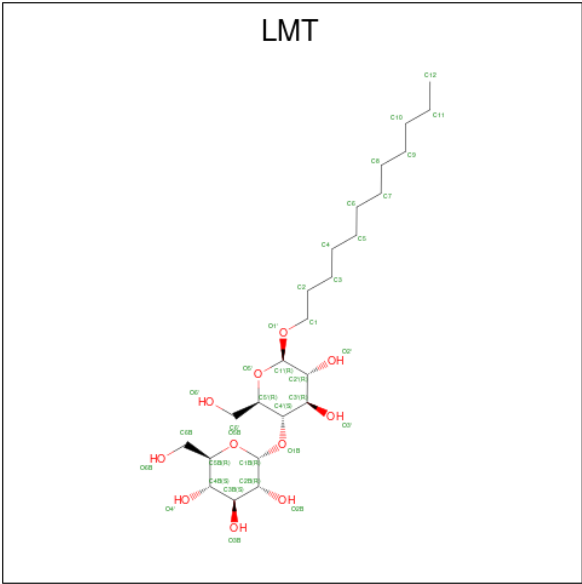
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Chain	Residue	Modelled	Actual	Comment	Reference
C	1057	HIS	-	expression tag	UNP P31224

- Molecule 2 is a protein called DARPIN.

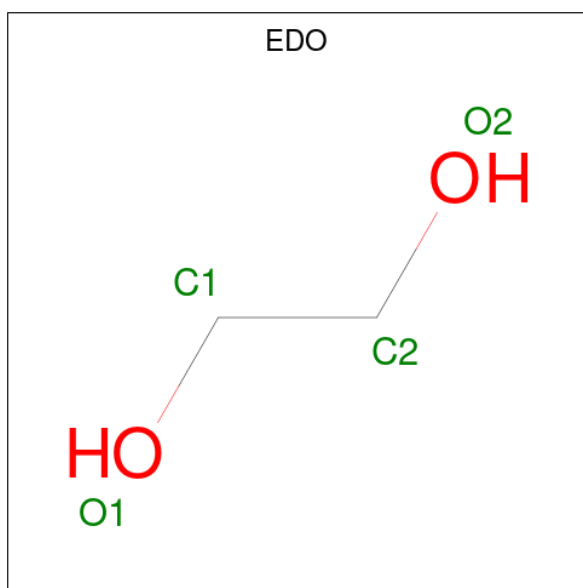
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	154	Total	C	N	O	S	0	0	0
			1167	736	204	226	1			
2	E	152	Total	C	N	O	S	0	0	0
			1150	727	201	221	1			

- Molecule 3 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: C₂₄H₄₆O₁₁).



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	C	1	Total	C	O	0	0
			35	24	11		
3	C	1	Total	C	O	0	0
			35	24	11		
3	C	1	Total	C	O	0	0
			35	24	11		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



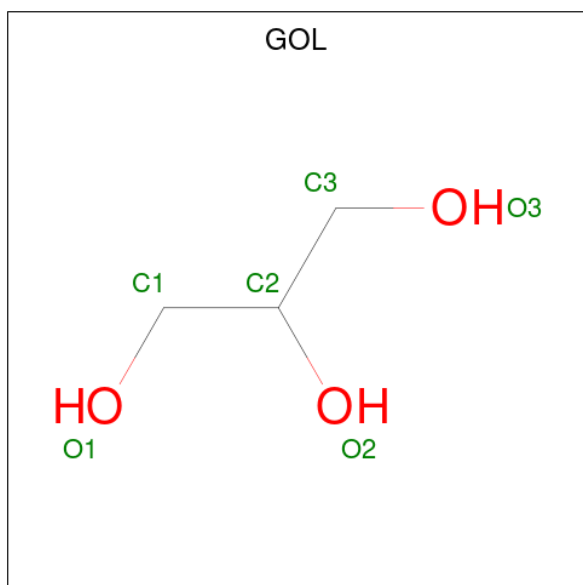
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	O		0	0
			4	2	2			
4	A	1	Total	C	O		0	0
			4	2	2			
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	A	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	O		0	0
			4	2	2			
4	B	1	Total	C	O		0	0
			4	2	2			
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	B	1	Total	C	H	O	0	0
			10	2	6	2		
4	C	1	Total	C	O		0	0
			4	2	2			
4	C	1	Total	C	O		0	0
			4	2	2			

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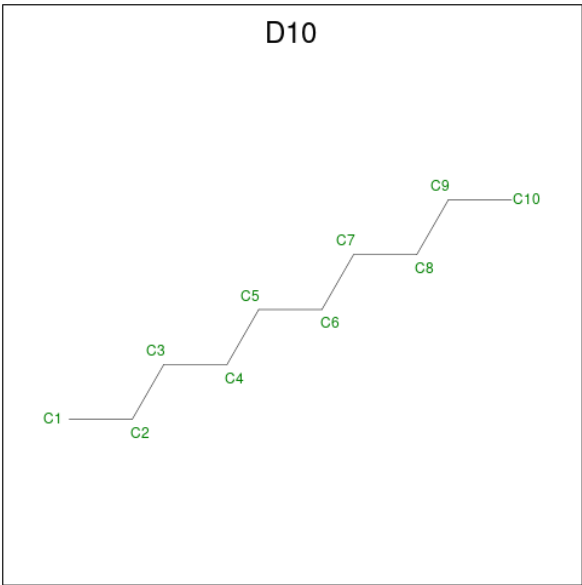
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	D	1	Total	C	O	0	0
			4	2	2		
4	D	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



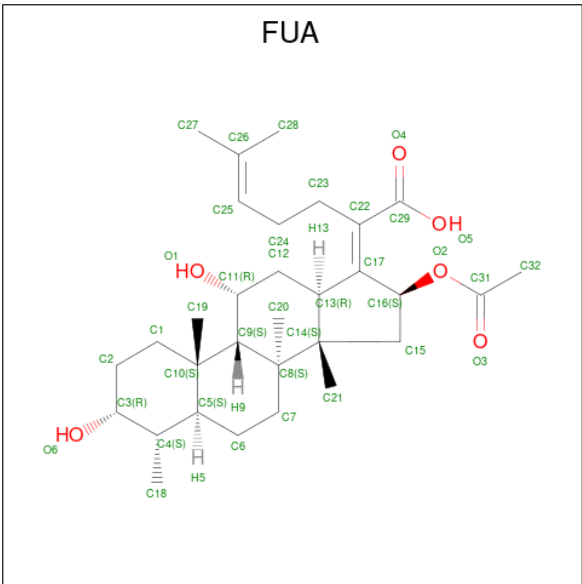
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			6	3	3		
5	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 6 is DECANE (CCD ID: D10) (formula: $C_{10}H_{22}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	H	0	0
			32	10	22		
6	B	1	Total	C	H	0	0
			32	10	22		

- Molecule 7 is FUSIDIC ACID (CCD ID: FUA) (formula: $C_{31}H_{48}O_6$) (labeled as "Ligand of Interest" by depositor).



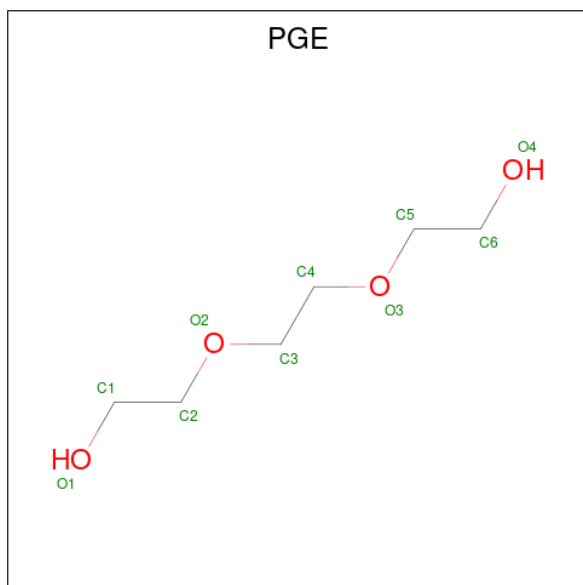
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			37	31	6		

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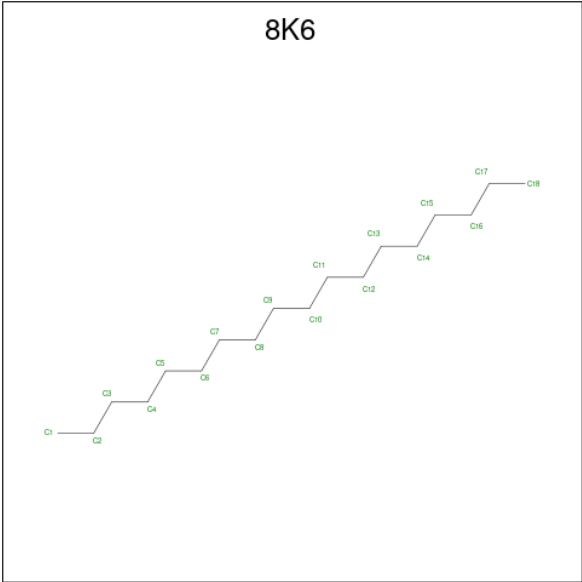
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	C	O	0	0
			37	31	6		
7	B	1	Total	C	O	0	0
			37	31	6		
7	B	1	Total	C	O	0	0
			37	31	6		

- Molecule 8 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: $C_6H_{14}O_4$).



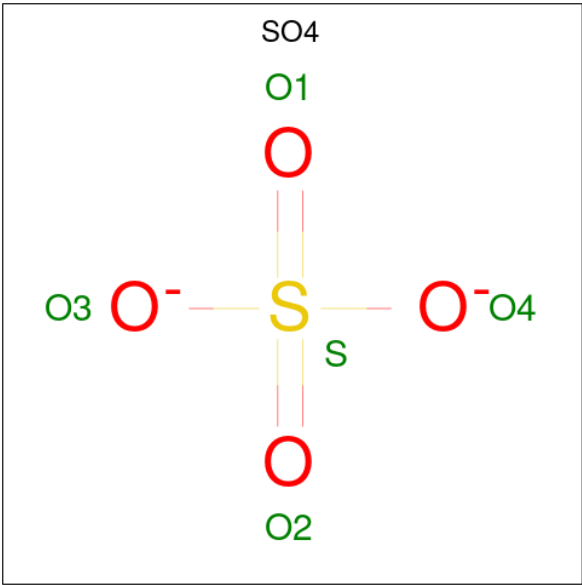
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	B	1	Total	C	O	0	0
			10	6	4		

- Molecule 9 is Octadecane (CCD ID: 8K6) (formula: $C_{18}H_{38}$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	B	1	Total	C	0	0
			18	18		

- Molecule 10 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



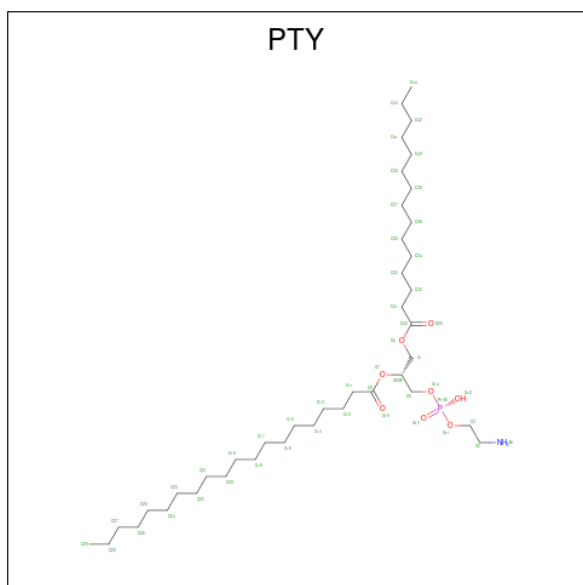
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	B	1	Total	O	S	0	0
			5	4	1		
10	B	1	Total	O	S	0	0
			5	4	1		
10	B	1	Total	O	S	0	0
			5	4	1		

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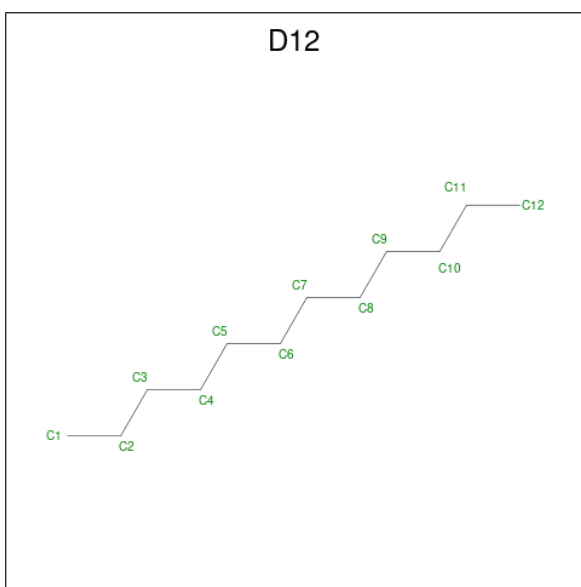
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	B	1	Total	O	S	0	0
			5	4	1		
10	C	1	Total	O	S	0	0
			5	4	1		

- Molecule 11 is PHOSPHATIDYLETHANOLAMINE (CCD ID: PTY) (formula: $C_{40}H_{80}NO_8P$).



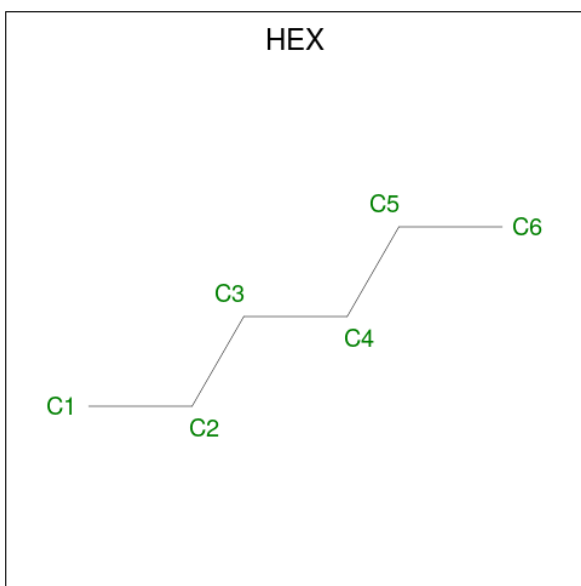
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
11	C	1	Total	C	N	O	P	0	0
			50	40	1	8	1		
11	C	1	Total	C	N	O	P	0	0
			50	40	1	8	1		

- Molecule 12 is DODECANE (CCD ID: D12) (formula: $C_{12}H_{26}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
12	C	1	Total	C	H	0	0
			38	12	26		

- Molecule 13 is HEXANE (CCD ID: HEX) (formula: C_6H_{14}).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
13	C	1	Total	C	H	0	0
			20	6	14		

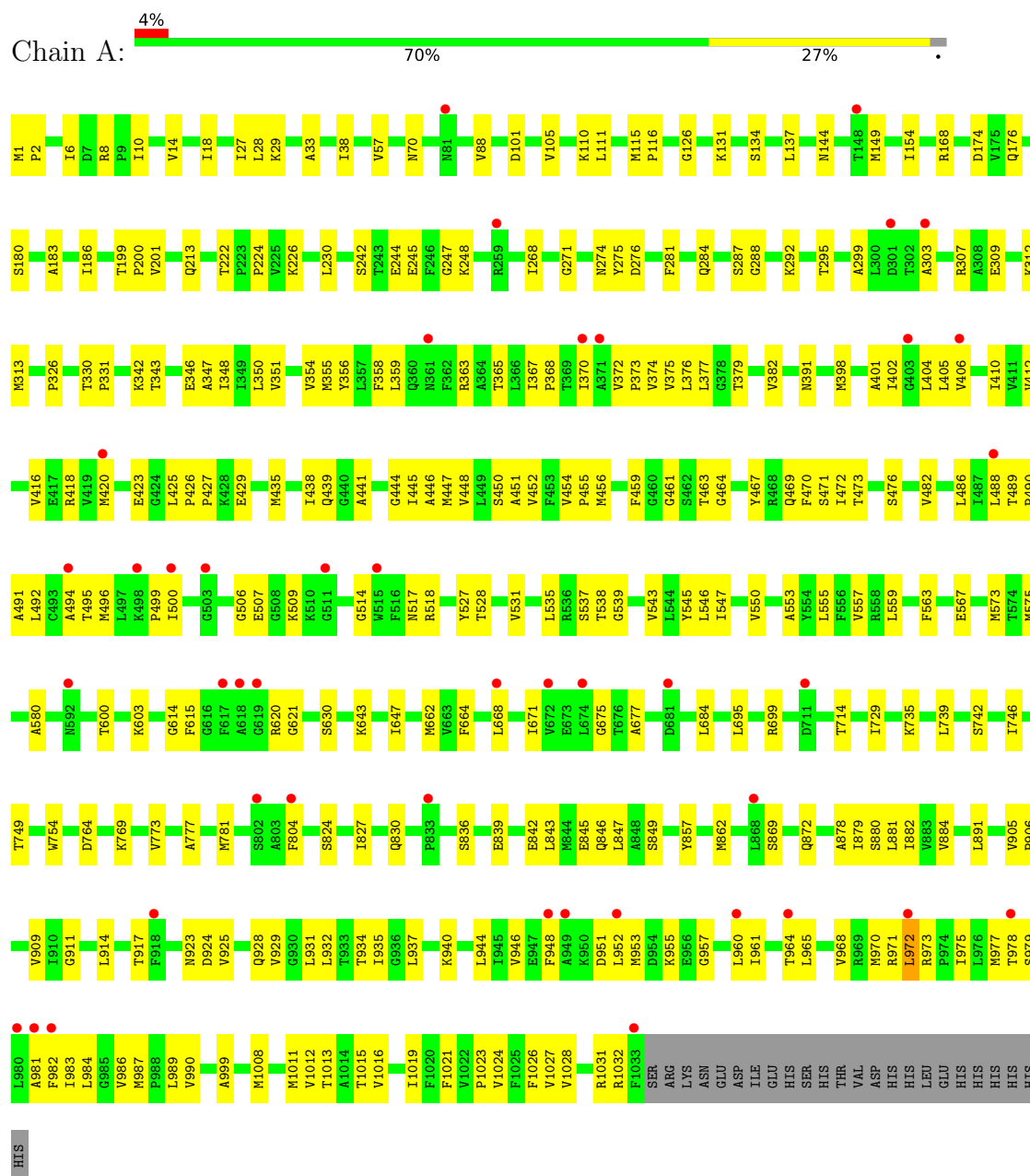
- Molecule 14 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
14	A	54	Total 54	O 54	0	0
14	B	45	Total 45	O 45	0	0
14	C	45	Total 45	O 45	0	0
14	D	3	Total 3	O 3	0	0
14	E	2	Total 2	O 2	0	0

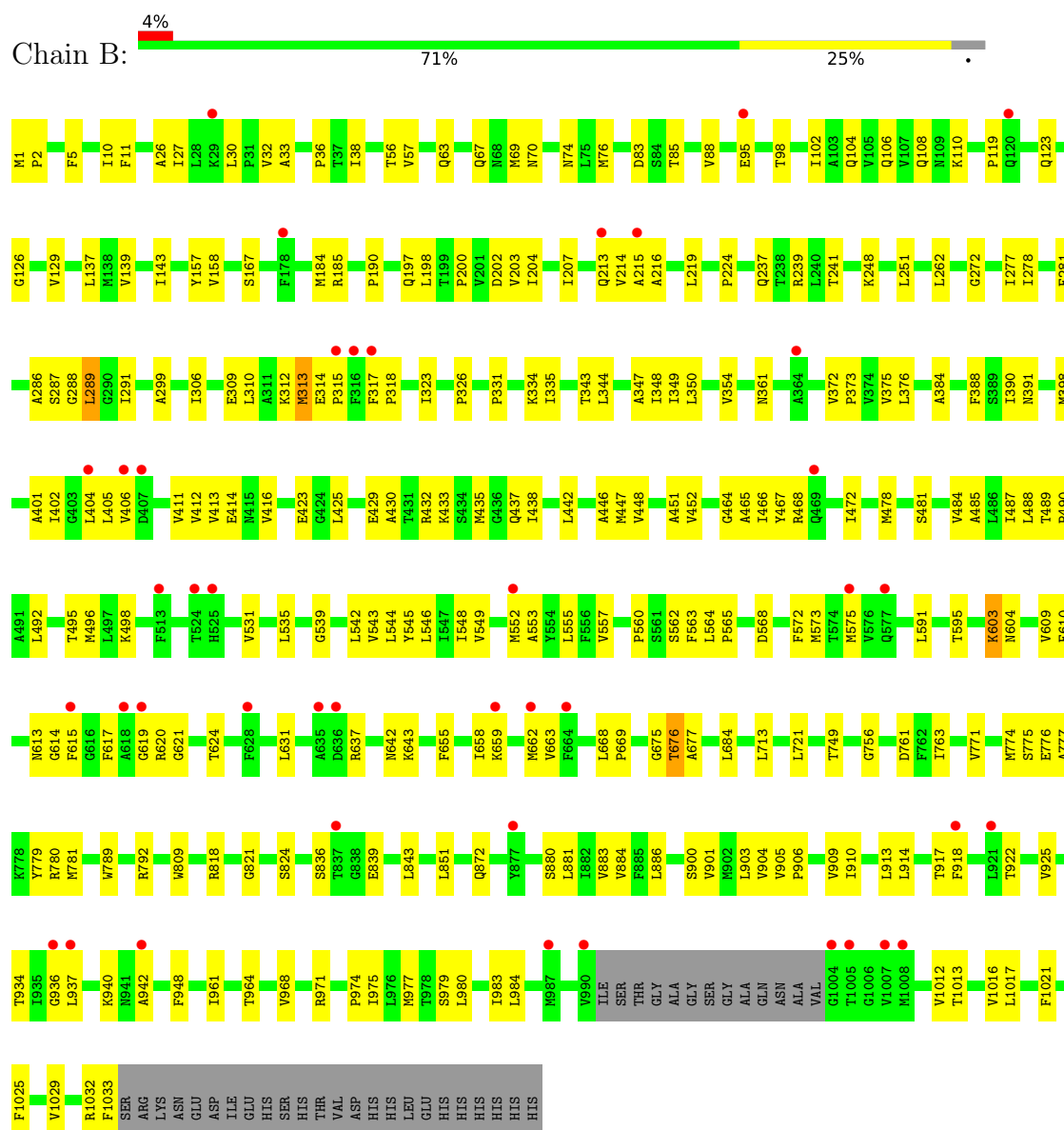
3 Residue-property plots

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.

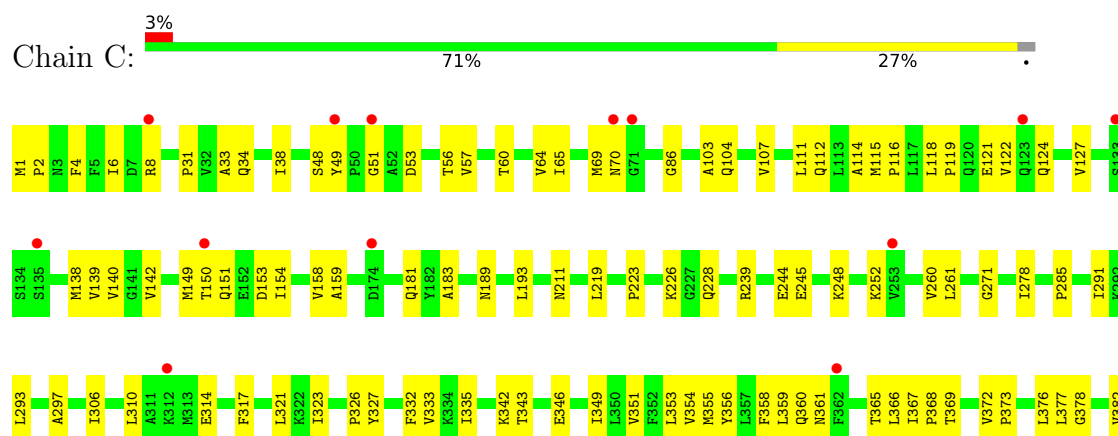
- Molecule 1: Multidrug efflux pump subunit AcrB



• Molecule 1: Multidrug efflux pump subunit AcrB



• Molecule 1: Multidrug efflux pump subunit AcrB



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	145.99Å 166.13Å 243.68Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.12 – 2.85 49.12 – 2.85	Depositor EDS
% Data completeness (in resolution range)	97.3 (49.12-2.85) 97.4 (49.12-2.85)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.62 (at 2.86Å)	Xtriage
Refinement program	PHENIX 3707	Depositor
R, R_{free}	0.205 , 0.247 0.210 , 0.253	Depositor DCC
R_{free} test set	6708 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	69.8	Xtriage
Anisotropy	0.517	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 52.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	26706	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.05% 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: D12, SO4, LMT, GOL, PTY, EDO, FUA, D10, HEX, 8K6, PGE

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	0.24	0/7999	0.45	0/10863
1	B	0.22	1/7920 (0.0%)	0.41	0/10754
1	C	0.24	0/7987	0.44	0/10847
2	D	0.23	0/1186	0.40	0/1613
2	E	0.20	0/1169	0.39	0/1590
All	All	0.23	1/26261 (0.0%)	0.43	0/35667

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	289	LEU	C-N	5.56	1.36	1.33

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7849	0	8001	234	0
1	B	7771	0	7925	222	0
1	C	7838	0	7992	224	0
2	D	1167	0	1151	24	0
2	E	1150	0	1139	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	140	0	184	18	0
3	C	105	0	138	6	0
4	A	24	24	36	0	0
4	B	20	18	30	2	0
4	C	8	0	12	0	0
4	D	8	0	12	0	0
5	A	6	0	8	1	0
5	B	6	0	8	1	0
6	A	10	22	22	1	0
6	B	10	22	22	0	0
7	A	37	0	47	8	0
7	B	111	0	141	27	0
8	B	10	0	14	1	0
9	B	18	0	38	3	0
10	B	20	0	0	0	0
10	C	5	0	0	0	0
11	C	100	0	158	7	0
12	C	12	26	26	0	0
13	C	6	14	14	0	0
14	A	54	0	0	0	0
14	B	45	0	0	0	0
14	C	45	0	0	0	0
14	D	3	0	0	0	0
14	E	2	0	0	0	0
All	All	26580	126	27118	751	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 14.

All (751) 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:C:356:TYR:HA	1:C:365:THR:HG21	1.41	1.01
3:C:1305:LMT:H3O2	3:C:1305:LMT:H2O1	1.10	0.99
1:C:696:THR:HG22	1:C:825:MET:HE1	1.44	0.96
1:A:356:TYR:HA	1:A:365:THR:HG21	1.52	0.90
1:A:376:LEU:HD11	1:A:402:ILE:HD11	1.54	0.89
1:B:1013:THR:HA	1:B:1016:VAL:HG22	1.55	0.88
1:C:671:ILE:HG13	1:C:674:LEU:HD23	1.55	0.87
1:B:435:MET:HE3	1:B:490:PRO:HG3	1.55	0.85
3:A:1103:LMT:H62	1:B:447:MET:HG3	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:MET:HE1	1:A:368:PRO:HB2	1.63	0.81
1:C:463:THR:HG21	1:C:869:SER:HB3	1.63	0.80
1:C:351:VAL:HG12	1:C:355:MET:HE2	1.63	0.80
1:C:544:LEU:HD21	3:C:1306:LMT:H91	1.62	0.80
1:C:359:LEU:HB2	1:C:365:THR:HG23	1.63	0.79
1:B:881:LEU:HD21	7:B:1213:FUA:H121	1.64	0.79
1:C:366:LEU:HD22	1:C:496:MET:HE1	1.65	0.79
1:A:14:VAL:HG13	1:B:886:LEU:HB3	1.64	0.79
7:B:1215:FUA:H122	7:B:1215:FUA:H232	1.66	0.78
1:A:909:VAL:HG22	1:A:931:LEU:HD11	1.64	0.78
1:C:941:ASN:HA	1:C:944:LEU:HD12	1.65	0.78
1:C:876:LEU:HD21	1:C:932:LEU:HD11	1.66	0.77
9:B:1208:8K6:H132	7:B:1214:FUA:H193	1.66	0.77
1:B:669:PRO:HG3	1:B:675:GLY:HA2	1.68	0.76
1:A:445:ILE:HA	1:A:448:VAL:HG12	1.68	0.75
1:B:375:VAL:HG23	1:B:405:LEU:HD13	1.69	0.75
2:E:74:ASN:HD21	2:E:104:ALA:HA	1.52	0.75
3:A:1112:LMT:H6D	1:B:872:GLN:HG2	1.69	0.74
1:A:535:LEU:HD22	1:A:1027:VAL:HG11	1.69	0.73
1:C:528:THR:HG21	1:C:969:ARG:HB2	1.70	0.73
7:B:1214:FUA:H122	7:B:1214:FUA:H232	1.71	0.73
1:B:241:THR:HG22	1:B:763:ILE:HG13	1.71	0.72
1:C:534:ILE:HD11	3:C:1306:LMT:H11	1.71	0.72
1:A:359:LEU:HB2	1:A:365:THR:HG23	1.72	0.72
1:B:404:LEU:HD23	1:B:937:LEU:HD12	1.70	0.72
1:B:429:GLU:HG3	1:B:432:ARG:HH21	1.54	0.71
1:A:418:ARG:HD2	1:A:970:MET:HG2	1.70	0.71
1:B:32:VAL:HG22	1:B:390:ILE:HB	1.72	0.71
2:D:51:LEU:HD11	2:D:63:VAL:HG13	1.72	0.70
1:A:420:MET:HE2	1:A:500:ILE:H	1.55	0.70
2:E:34:MET:HE1	2:E:65:VAL:HG12	1.73	0.70
1:B:202:ASP:OD2	1:B:792:ARG:NH2	2.24	0.70
1:A:979:SER:HB3	1:A:1015:THR:HG21	1.73	0.69
1:A:343:THR:HG21	1:A:989:LEU:HD21	1.73	0.69
1:A:546:LEU:HD12	1:A:547:ILE:HD13	1.73	0.69
1:A:905:VAL:HG22	1:A:906:PRO:HD3	1.75	0.69
1:A:38:ILE:HD11	1:A:671:ILE:HG21	1.75	0.69
1:C:64:VAL:HG12	1:C:114:ALA:HB1	1.74	0.69
1:C:507:GLU:HG2	1:C:518:ARG:HG2	1.75	0.68
1:A:1:MET:HB2	1:A:2:PRO:HD3	1.75	0.68
1:B:224:PRO:HA	1:C:781:MET:HE1	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:463:THR:HG21	1:C:869:SER:CB	2.23	0.67
1:C:1011:MET:O	1:C:1015:THR:HG22	1.95	0.67
1:A:367:ILE:HB	1:A:368:PRO:HD3	1.77	0.67
1:C:428:LYS:HE3	1:C:432:ARG:HE	1.59	0.67
1:B:669:PRO:HB3	1:B:676:THR:H	1.59	0.66
1:C:420:MET:HE1	1:C:499:PRO:HA	1.76	0.66
1:A:446:ALA:HB2	1:A:482:VAL:HG21	1.77	0.66
7:A:1113:FUA:H122	7:A:1113:FUA:H231	1.77	0.66
1:B:313:MET:HB2	1:B:317:PHE:CE1	2.31	0.66
1:B:375:VAL:CG2	1:B:405:LEU:HD13	2.25	0.66
1:A:356:TYR:CA	1:A:365:THR:HG21	2.26	0.66
1:C:696:THR:CG2	1:C:825:MET:HE1	2.25	0.66
1:C:150:THR:HG23	1:C:153:ASP:H	1.61	0.66
1:A:101:ASP:O	1:A:105:VAL:HG23	1.97	0.65
1:C:1027:VAL:O	1:C:1031:ARG:HG3	1.96	0.65
2:E:50:PRO:HB2	2:E:66:LEU:HD11	1.77	0.65
1:C:528:THR:HG22	1:C:968:VAL:HG23	1.77	0.65
1:B:562:SER:HB3	1:B:565:PRO:HG3	1.79	0.65
1:C:454:VAL:HG22	1:C:455:PRO:HD3	1.77	0.65
1:B:347:ALA:HA	7:B:1215:FUA:H321	1.78	0.64
2:E:93:LEU:HD11	2:E:131:VAL:HG21	1.79	0.64
1:C:252:LYS:HG2	1:C:260:VAL:HG12	1.80	0.64
1:B:659:LYS:H	1:B:659:LYS:HD3	1.63	0.63
1:C:252:LYS:HG2	1:C:260:VAL:CG1	2.27	0.63
1:A:742:SER:O	1:A:746:ILE:HG13	1.99	0.63
1:B:451:ALA:HB1	1:B:883:VAL:HG23	1.79	0.63
1:C:901:VAL:O	1:C:904:VAL:HG12	1.98	0.63
1:B:74:ASN:HB3	1:B:98:THR:HG21	1.80	0.62
1:C:880:SER:O	1:C:884:VAL:HG12	1.99	0.62
1:A:435:MET:HA	1:A:438:ILE:HD11	1.80	0.62
1:C:692:HIS:O	1:C:696:THR:HG23	1.99	0.62
1:A:983:ILE:HD13	1:A:1012:VAL:HG12	1.82	0.62
1:B:30:LEU:HD13	1:B:384:ALA:HB2	1.81	0.62
1:C:987:MET:HA	1:C:990:VAL:HG22	1.81	0.62
2:D:16:LYS:H	2:D:16:LYS:HD2	1.64	0.62
1:B:549:VAL:O	1:B:552:MET:HG3	1.99	0.61
1:C:2:PRO:O	1:C:6:ILE:HG13	2.01	0.61
1:C:520:PHE:O	1:C:524:THR:HG23	1.99	0.61
1:B:310:LEU:HD22	1:B:323:ILE:HD13	1.81	0.61
1:B:467:TYR:HE1	1:B:925:VAL:HG23	1.66	0.61
1:C:34:GLN:HB2	1:C:333:VAL:HG13	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:ASP:OD1	1:A:131:LYS:HE2	1.99	0.61
1:A:376:LEU:HD11	1:A:402:ILE:CD1	2.28	0.61
1:C:1022:VAL:HG12	1:C:1023:PRO:HD3	1.81	0.61
1:A:363:ARG:HG3	1:A:496:MET:O	2.01	0.61
1:C:986:VAL:HG21	1:C:1008:MET:HB3	1.83	0.61
2:E:61:GLU:O	2:E:65:VAL:HG23	2.01	0.61
1:A:507:GLU:HG2	1:A:518:ARG:HG2	1.83	0.60
1:A:535:LEU:HD13	1:A:965:LEU:HD21	1.83	0.60
1:B:26:ALA:O	1:B:30:LEU:HB2	2.01	0.60
1:C:478:MET:HA	1:C:478:MET:HE2	1.83	0.60
2:E:153:SER:OG	2:E:161:LEU:HD23	2.01	0.60
1:A:965:LEU:HA	1:A:968:VAL:HG22	1.82	0.60
1:C:372:VAL:HB	1:C:373:PRO:HD3	1.83	0.60
1:A:879:ILE:HA	1:A:882:ILE:HG12	1.82	0.60
1:A:944:LEU:HB3	1:A:971:ARG:HD2	1.83	0.60
1:C:314:GLU:HG2	1:C:317:PHE:CE2	2.36	0.60
1:A:1012:VAL:O	1:A:1016:VAL:HG22	2.01	0.60
1:B:278:ILE:HB	1:B:613:ASN:HB3	1.83	0.60
1:B:595:THR:HG22	1:B:609:VAL:HG11	1.83	0.60
1:B:1012:VAL:O	1:B:1016:VAL:HG13	2.02	0.60
2:E:46:VAL:O	2:E:78:THR:HG23	2.01	0.60
1:A:469:GLN:O	1:A:473:THR:HG22	2.02	0.60
1:C:49:TYR:HE1	1:C:119:PRO:HG2	1.66	0.60
1:A:10:ILE:O	1:A:14:VAL:HG23	2.02	0.60
2:E:129:VAL:HG11	2:E:161:LEU:HD11	1.84	0.60
1:A:18:ILE:HD11	3:A:1103:LMT:H121	1.84	0.59
1:C:142:VAL:HG22	1:C:323:ILE:HD13	1.84	0.59
1:A:979:SER:CB	1:A:1015:THR:HG21	2.32	0.59
1:B:964:THR:O	1:B:968:VAL:HG22	2.02	0.59
1:C:447:MET:SD	1:C:887:CYS:HB3	2.42	0.59
1:C:696:THR:HG22	1:C:825:MET:CE	2.26	0.59
1:C:986:VAL:CG2	1:C:1008:MET:HB3	2.32	0.59
1:A:456:MET:HB3	1:A:467:TYR:HB3	1.84	0.59
1:B:402:ILE:O	1:B:406:VAL:HG13	2.02	0.59
1:B:539:GLY:O	1:B:543:VAL:HG23	2.03	0.59
1:A:843:LEU:O	1:A:847:LEU:HG	2.03	0.59
1:A:543:VAL:O	1:A:547:ILE:HG12	2.02	0.59
1:A:537:SER:O	1:A:539:GLY:N	2.36	0.59
1:A:444:GLY:CA	3:A:1111:LMT:H22	2.33	0.58
1:A:879:ILE:HA	1:A:882:ILE:CG1	2.33	0.58
1:C:48:SER:O	1:C:122:VAL:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:THR:O	1:C:368:PRO:HD2	2.03	0.58
1:C:378:GLY:O	1:C:382:VAL:HG23	2.03	0.58
1:C:438:ILE:HG22	1:C:971:ARG:HH22	1.69	0.58
2:D:60:LEU:HD11	2:D:98:VAL:HG21	1.85	0.58
1:A:168:ARG:HG2	1:B:69:MET:O	2.04	0.58
1:B:375:VAL:HG11	1:B:481:SER:HA	1.85	0.58
1:A:456:MET:HB2	1:A:471:SER:OG	2.03	0.58
1:A:555:LEU:HD21	1:A:914:LEU:HD23	1.85	0.58
3:A:1101:LMT:H22	7:A:1113:FUA:H272	1.85	0.58
1:B:291:ILE:HD13	1:B:306:ILE:HD13	1.84	0.58
1:B:934:THR:OG1	7:B:1215:FUA:H183	2.04	0.58
2:E:114:ILE:HG23	2:E:118:HIS:HB2	1.86	0.58
1:B:30:LEU:HD23	1:B:390:ILE:HG13	1.85	0.58
1:B:251:LEU:HD11	1:B:262:LEU:HA	1.85	0.58
1:C:543:VAL:O	1:C:547:ILE:HG12	2.03	0.58
1:C:961:ILE:HG22	1:C:965:LEU:HD11	1.86	0.58
1:C:376:LEU:HD11	1:C:402:ILE:HD11	1.85	0.58
1:C:989:LEU:HD13	1:C:1003:VAL:HG23	1.85	0.58
1:A:70:ASN:O	1:A:110:LYS:HE3	2.04	0.58
1:A:445:ILE:HA	1:A:448:VAL:CG1	2.32	0.58
1:B:904:VAL:HG22	1:B:1025:PHE:CD2	2.38	0.58
1:A:953:MET:SD	1:A:960:LEU:HD12	2.44	0.58
1:C:1:MET:HB3	1:C:2:PRO:HD3	1.86	0.58
1:C:359:LEU:HB2	1:C:365:THR:CG2	2.33	0.57
1:C:480:LEU:O	1:C:484:VAL:HG23	2.04	0.57
1:C:965:LEU:HA	1:C:968:VAL:HG22	1.86	0.57
1:A:199:THR:OG1	1:A:201:VAL:HG22	2.04	0.57
1:A:447:MET:HE3	3:A:1111:LMT:H51	1.86	0.57
1:B:102:ILE:O	1:B:106:GLN:HG3	2.04	0.57
1:B:331:PRO:O	1:B:335:ILE:HG12	2.03	0.57
1:C:546:LEU:O	1:C:550:VAL:HG22	2.03	0.57
1:A:444:GLY:HA2	3:A:1111:LMT:H22	1.86	0.57
1:A:699:ARG:HG3	1:A:827:ILE:HD11	1.86	0.57
1:C:365:THR:O	1:C:369:THR:HG23	2.05	0.57
1:A:2:PRO:O	1:A:6:ILE:HG13	2.04	0.57
1:A:445:ILE:HD13	1:A:940:LYS:HG3	1.86	0.57
1:A:973:ARG:O	1:A:977:MET:HG3	2.04	0.57
1:C:367:ILE:HG13	1:C:496:MET:HE2	1.87	0.57
1:A:662:MET:CE	1:A:664:PHE:HB2	2.35	0.57
1:B:1017:LEU:HD22	1:B:1021:PHE:HE2	1.69	0.57
1:C:545:TYR:HB2	1:C:1021:PHE:HE2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:649:MET:HE3	1:C:653:ARG:HH21	1.68	0.57
1:A:427:PRO:HD3	1:A:499:PRO:HG3	1.87	0.57
1:A:961:ILE:HD11	1:A:1031:ARG:NH1	2.19	0.57
2:E:59:HIS:O	2:E:63:VAL:HG23	2.04	0.57
1:C:151:GLN:HE21	1:C:285:PRO:HB3	1.69	0.56
1:A:358:PHE:CD2	1:A:977:MET:HG2	2.40	0.56
1:A:488:LEU:O	1:A:492:LEU:HG	2.05	0.56
1:A:514:GLY:O	1:A:518:ARG:HG3	2.04	0.56
1:B:158:VAL:CG1	1:B:289:LEU:HD21	2.36	0.56
1:B:412:VAL:HG13	1:B:435:MET:SD	2.46	0.56
1:C:114:ALA:O	1:C:118:LEU:HG	2.05	0.56
1:A:553:ALA:O	1:A:557:VAL:HG22	2.05	0.56
1:B:248:LYS:HE2	4:B:1205:EDO:H12	1.88	0.56
1:C:406:VAL:O	1:C:410:ILE:HG13	2.06	0.56
2:E:96:VAL:HG11	2:E:128:ILE:HG23	1.86	0.56
1:A:1015:THR:O	1:A:1019:ILE:HG23	2.05	0.56
1:B:435:MET:HE3	1:B:490:PRO:CG	2.31	0.56
1:B:572:PHE:HE1	1:B:631:LEU:HD21	1.70	0.56
1:C:291:ILE:HD13	1:C:306:ILE:HD13	1.86	0.56
1:A:398:MET:O	1:A:402:ILE:HG12	2.06	0.56
1:A:416:VAL:O	1:A:420:MET:HG2	2.06	0.56
1:B:446:ALA:HA	1:B:478:MET:SD	2.46	0.56
1:A:244:GLU:O	1:A:248:LYS:HG3	2.06	0.55
1:B:313:MET:O	1:B:317:PHE:HD1	1.88	0.55
1:C:65:ILE:O	1:C:69:MET:HG2	2.06	0.55
1:B:809:TRP:CD1	2:D:79:LEU:HD12	2.42	0.55
1:B:900:SER:O	1:B:904:VAL:HG23	2.07	0.55
1:B:545:TYR:O	1:B:549:VAL:HG13	2.07	0.55
1:A:600:THR:O	1:A:603:LYS:HG3	2.07	0.55
1:A:1027:VAL:O	1:A:1031:ARG:HB2	2.06	0.55
7:A:1113:FUA:H202	7:A:1113:FUA:H5	1.88	0.55
1:B:658:ILE:HD12	1:B:663:VAL:HG21	1.87	0.55
1:C:111:LEU:HD21	1:C:127:VAL:HG11	1.89	0.55
2:E:127:GLU:O	2:E:130:GLU:HB3	2.07	0.55
1:B:184:MET:HB3	1:B:771:VAL:HG22	1.87	0.55
2:E:125:HIS:O	2:E:129:VAL:HG23	2.07	0.55
1:A:934:THR:HG22	1:A:1011:MET:HG2	1.89	0.55
1:A:347:ALA:O	1:A:351:VAL:HG13	2.06	0.55
1:B:313:MET:HB2	1:B:317:PHE:HE1	1.72	0.55
1:C:452:VAL:HG11	1:C:932:LEU:O	2.06	0.55
1:A:359:LEU:HD12	1:A:365:THR:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5:PHE:CE2	1:B:487:ILE:HG12	2.42	0.54
1:B:777:ALA:O	1:B:781:MET:HG2	2.06	0.54
1:C:888:LEU:HD13	1:C:901:VAL:HG21	1.89	0.54
1:A:891:LEU:HA	3:A:1111:LMT:H6E	1.89	0.54
1:B:11:PHE:CD1	1:C:890:ALA:HB1	2.41	0.54
1:B:979:SER:O	1:B:983:ILE:HG13	2.07	0.54
1:A:878:ALA:O	1:A:881:LEU:HG	2.07	0.54
1:B:372:VAL:HB	1:B:373:PRO:HD3	1.88	0.54
1:A:614:GLY:HA2	1:A:621:GLY:O	2.07	0.54
1:B:143:ILE:HD13	1:B:281:PHE:CD2	2.42	0.54
2:D:142:GLN:HB3	2:D:146:GLY:HA2	1.89	0.54
2:E:126:LEU:HD23	2:E:164:ILE:HD12	1.90	0.54
1:A:905:VAL:CG2	1:A:906:PRO:HD3	2.38	0.54
1:B:906:PRO:HG3	7:B:1213:FUA:C20	2.37	0.54
2:E:97:GLU:O	2:E:101:LYS:HG3	2.08	0.54
1:A:375:VAL:HB	1:A:405:LEU:HD13	1.88	0.54
1:B:560:PRO:HB2	1:B:922:THR:HG23	1.90	0.54
1:A:960:LEU:O	1:A:964:THR:HG23	2.07	0.54
1:B:83:ASP:OD2	1:B:85:THR:OG1	2.21	0.54
1:B:241:THR:HG22	1:B:763:ILE:CG1	2.36	0.54
1:B:836:SER:OG	1:B:839:GLU:HG3	2.08	0.54
1:C:453:PHE:CE2	1:C:474:ILE:HG21	2.42	0.54
1:C:888:LEU:HD21	1:C:943:ILE:HD11	1.89	0.54
1:A:535:LEU:HD23	1:A:1027:VAL:HG21	1.89	0.54
1:B:197:GLN:O	1:B:198:LEU:HD23	2.08	0.54
1:B:756:GLY:CA	1:B:774:MET:HG3	2.38	0.54
1:C:818:ARG:NH2	1:C:821:GLY:O	2.34	0.54
1:A:183:ALA:N	1:A:271:GLY:O	2.35	0.54
1:A:509:LYS:O	1:A:514:GLY:HA3	2.08	0.54
1:B:637:ARG:HH12	1:B:643:LYS:HA	1.72	0.54
1:B:881:LEU:CD2	7:B:1213:FUA:H121	2.38	0.54
1:C:183:ALA:N	1:C:271:GLY:O	2.40	0.53
1:C:638:PRO:O	1:C:642:ASN:ND2	2.39	0.53
1:C:888:LEU:CD1	1:C:901:VAL:HG21	2.38	0.53
2:D:29:GLU:HG2	2:D:33:LEU:CD1	2.38	0.53
1:A:925:VAL:O	1:A:929:VAL:HG22	2.08	0.53
1:B:903:LEU:HD23	7:B:1213:FUA:H21	1.91	0.53
1:A:350:LEU:HD22	1:A:984:LEU:CD2	2.39	0.53
1:C:903:LEU:HD12	1:C:1025:PHE:HB3	1.91	0.53
1:A:559:LEU:HD12	1:A:917:THR:HG23	1.91	0.53
1:C:423:GLU:HB2	1:C:425:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:354:VAL:HG11	1:A:981:ALA:HA	1.91	0.53
1:B:603:LYS:HD3	1:B:604:ASN:H	1.73	0.53
3:C:1306:LMT:H5B	3:C:1306:LMT:H6D	1.90	0.53
1:A:116:PRO:HG3	1:C:124:GLN:O	2.09	0.53
1:B:905:VAL:HG22	1:B:906:PRO:HD3	1.91	0.53
1:C:631:LEU:HD11	1:C:644:VAL:HG22	1.89	0.53
1:B:881:LEU:HD21	7:B:1213:FUA:H213	1.91	0.53
2:E:94:GLU:O	2:E:98:VAL:HG23	2.08	0.53
1:A:1024:VAL:O	1:A:1028:VAL:HG12	2.09	0.53
1:C:1023:PRO:O	1:C:1027:VAL:HG22	2.09	0.53
1:A:326:PRO:O	1:A:630:SER:HB2	2.09	0.52
1:A:222:THR:HG22	1:A:224:PRO:HD3	1.90	0.52
1:B:544:LEU:O	1:B:548:ILE:HG13	2.10	0.52
2:D:150:PHE:O	2:D:154:ILE:HG12	2.09	0.52
1:A:351:VAL:HA	1:A:354:VAL:HG12	1.91	0.52
1:A:472:ILE:O	1:A:476:SER:OG	2.22	0.52
1:A:987:MET:HA	1:A:990:VAL:HG23	1.91	0.52
1:B:901:VAL:HG13	1:B:942:ALA:HB3	1.91	0.52
1:C:423:GLU:OE1	1:C:425:LEU:HD11	2.09	0.52
3:A:1101:LMT:O2B	3:A:1101:LMT:O3'	2.00	0.52
1:B:669:PRO:CB	1:B:676:THR:H	2.21	0.52
1:B:575:MET:HE1	1:B:662:MET:SD	2.49	0.52
5:B:1202:GOL:O1	5:B:1202:GOL:O3	2.17	0.52
1:C:38:ILE:HG23	1:C:462:SER:HB3	1.92	0.52
1:C:57:VAL:HG21	1:C:86:GLY:HA2	1.90	0.52
1:C:572:PHE:HE1	1:C:631:LEU:HD21	1.75	0.52
2:E:75:ALA:O	2:E:82:THR:HG22	2.09	0.52
1:B:38:ILE:HG23	1:B:465:ALA:HB3	1.92	0.52
1:C:544:LEU:HD21	3:C:1306:LMT:C9	2.38	0.52
2:D:51:LEU:CD1	2:D:63:VAL:HG13	2.38	0.52
1:B:334:LYS:HG2	7:B:1214:FUA:H272	1.91	0.52
1:B:350:LEU:HD12	7:B:1215:FUA:H322	1.91	0.52
1:C:367:ILE:CG1	1:C:496:MET:HE2	2.40	0.52
1:C:544:LEU:HD23	1:C:1021:PHE:HZ	1.75	0.52
1:C:743:ILE:HD12	1:C:743:ILE:H	1.75	0.52
1:B:313:MET:CB	1:B:317:PHE:HE1	2.22	0.52
1:C:565:PRO:O	1:C:670:ALA:HB2	2.10	0.52
1:A:28:LEU:HD21	7:A:1113:FUA:C1	2.40	0.52
1:A:482:VAL:O	1:A:486:LEU:HD13	2.10	0.52
1:A:968:VAL:HG11	1:A:1023:PRO:HG3	1.92	0.52
2:E:84:LEU:HD11	2:E:96:VAL:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:SER:OG	1:A:245:GLU:HG3	2.10	0.51
1:A:445:ILE:HG21	1:A:940:LYS:HG3	1.93	0.51
1:A:567:GLU:OE2	1:A:999:ALA:N	2.40	0.51
1:B:36:PRO:HG2	1:B:38:ILE:HD11	1.92	0.51
1:B:401:ALA:O	1:B:405:LEU:HG	2.10	0.51
1:A:359:LEU:HB2	1:A:365:THR:CG2	2.39	0.51
1:A:535:LEU:CD1	1:A:965:LEU:HD21	2.41	0.51
1:B:215:ALA:HB1	1:C:51:GLY:HA3	1.90	0.51
1:B:553:ALA:O	1:B:557:VAL:HG22	2.10	0.51
1:B:573:MET:HE2	1:B:668:LEU:HB3	1.92	0.51
1:C:139:VAL:O	1:C:326:PRO:HD2	2.11	0.51
1:A:1021:PHE:O	1:A:1024:VAL:HG22	2.11	0.51
1:B:344:LEU:HD22	1:B:376:LEU:HD23	1.93	0.51
1:B:901:VAL:O	1:B:905:VAL:HG13	2.10	0.51
1:C:151:GLN:OE1	1:C:278:ILE:HG23	2.11	0.51
1:C:159:ALA:CB	1:C:181:GLN:HB3	2.40	0.51
1:C:358:PHE:CD1	1:C:977:MET:HB3	2.46	0.51
1:C:684:LEU:O	1:C:824:SER:HA	2.10	0.51
1:A:154:ILE:HG22	1:A:287:SER:HB3	1.93	0.51
1:B:185:ARG:HH12	1:B:774:MET:HE3	1.75	0.51
1:B:906:PRO:HG3	7:B:1213:FUA:H202	1.92	0.51
2:E:74:ASN:ND2	2:E:104:ALA:HA	2.22	0.51
1:A:435:MET:HA	1:A:438:ILE:CD1	2.41	0.51
1:B:1:MET:HB3	1:B:2:PRO:HD3	1.92	0.51
1:B:224:PRO:HA	1:C:781:MET:CE	2.41	0.51
1:B:971:ARG:O	1:B:975:ILE:HG13	2.10	0.51
7:B:1215:FUA:H232	7:B:1215:FUA:C12	2.38	0.51
1:C:38:ILE:CG2	1:C:462:SER:HB3	2.41	0.51
1:B:158:VAL:HG11	1:B:289:LEU:HD21	1.92	0.51
1:B:603:LYS:HE2	1:B:604:ASN:ND2	2.26	0.51
1:B:676:THR:OG1	1:B:677:ALA:N	2.41	0.51
2:D:29:GLU:O	2:D:33:LEU:HD12	2.11	0.51
1:C:1022:VAL:HA	1:C:1025:PHE:CD2	2.46	0.51
1:A:746:ILE:HD13	1:A:804:PHE:CE2	2.45	0.50
1:B:309:GLU:O	1:B:313:MET:HG3	2.12	0.50
1:C:398:MET:O	1:C:402:ILE:HG12	2.10	0.50
1:C:527:TYR:CE2	1:C:968:VAL:HB	2.46	0.50
1:C:741:VAL:HG23	1:C:746:ILE:HD11	1.93	0.50
1:B:143:ILE:HG21	1:B:281:PHE:HB3	1.93	0.50
1:B:423:GLU:HB2	1:B:425:LEU:HD13	1.92	0.50
1:B:763:ILE:HG13	1:B:763:ILE:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:535:LEU:HD23	1:C:1027:VAL:HG11	1.93	0.50
1:B:119:PRO:O	1:B:123:GLN:HG3	2.11	0.50
1:A:111:LEU:HD13	1:A:115:MET:HG2	1.92	0.50
1:A:342:LYS:O	1:A:346:GLU:HG3	2.12	0.50
1:A:365:THR:O	1:A:368:PRO:HD2	2.12	0.50
1:B:713:LEU:HG	1:B:843:LEU:HD23	1.92	0.50
7:B:1213:FUA:H232	7:B:1213:FUA:H122	1.93	0.50
1:C:448:VAL:O	1:C:452:VAL:HG23	2.12	0.50
1:A:878:ALA:O	1:A:882:ILE:HG12	2.12	0.50
1:C:4:PHE:O	1:C:8:ARG:NH1	2.45	0.50
2:E:148:THR:HG23	2:E:151:ASP:H	1.77	0.50
1:A:418:ARG:NH2	1:A:970:MET:HE3	2.26	0.50
1:A:563:PHE:O	1:A:924:ASP:HB2	2.12	0.50
1:B:312:LYS:O	1:B:314:GLU:N	2.44	0.50
1:C:441:ALA:O	1:C:445:ILE:HG13	2.12	0.50
2:E:89:HIS:HB2	2:E:119:LEU:HD13	1.94	0.50
1:B:405:LEU:HD22	1:B:481:SER:HB2	1.94	0.50
1:B:619:GLY:HA3	1:B:721:LEU:HD11	1.94	0.50
1:A:29:LYS:CE	3:A:1112:LMT:H1'	2.42	0.49
1:B:466:ILE:HD13	1:B:564:LEU:HD11	1.94	0.49
1:B:546:LEU:HA	1:B:549:VAL:HG22	1.93	0.49
1:C:714:THR:HG23	1:C:830:GLN:HB2	1.93	0.49
1:C:728:LYS:HE3	1:C:810:GLU:OE1	2.12	0.49
2:D:77:ASP:OD1	2:D:80:GLY:N	2.45	0.49
2:E:40:VAL:HG23	2:E:41:ASN:OD1	2.12	0.49
1:A:836:SER:HG	1:A:839:GLU:H	1.60	0.49
1:C:149:MET:HE1	1:C:321:LEU:HD13	1.93	0.49
1:C:332:PHE:HA	1:C:335:ILE:HG22	1.94	0.49
1:C:393:LEU:HD13	1:C:466:ILE:HG23	1.94	0.49
1:B:531:VAL:O	1:B:535:LEU:HG	2.12	0.49
1:C:904:VAL:HG11	1:C:942:ALA:HB2	1.93	0.49
2:E:148:THR:OG1	2:E:149:ALA:N	2.45	0.49
1:A:33:ALA:O	1:A:391:ASN:HA	2.12	0.49
1:A:573:MET:CE	1:A:668:LEU:HD21	2.43	0.49
1:A:953:MET:O	1:A:957:GLY:HA2	2.12	0.49
1:B:484:VAL:HG13	1:B:488:LEU:HB3	1.94	0.49
1:C:568:ASP:CG	1:C:644:VAL:HG23	2.38	0.49
1:B:310:LEU:HB3	1:B:323:ILE:HD12	1.94	0.49
1:B:818:ARG:NH1	1:B:821:GLY:O	2.43	0.49
2:E:126:LEU:HD21	2:E:161:LEU:HB2	1.94	0.49
1:A:8:ARG:HH11	3:A:1103:LMT:H1B	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:684:LEU:HD23	1:A:695:LEU:HD11	1.94	0.49
1:C:966:ASP:O	1:C:970:MET:HG3	2.12	0.49
1:A:545:TYR:HB2	1:A:1021:PHE:HE2	1.76	0.49
1:B:239:ARG:NH1	1:B:761:ASP:HB2	2.28	0.49
1:C:150:THR:O	1:C:154:ILE:HG13	2.13	0.49
1:C:448:VAL:HG11	1:C:943:ILE:HD11	1.94	0.49
1:C:899:PHE:O	1:C:903:LEU:HG	2.12	0.49
1:A:230:LEU:HB3	2:D:45:VAL:CG2	2.44	0.48
1:B:185:ARG:HD3	1:B:272:GLY:O	2.13	0.48
1:B:637:ARG:NH1	1:B:642:ASN:O	2.44	0.48
1:B:167:SER:HB3	1:C:70:ASN:HD22	1.78	0.48
1:B:95:GLU:O	1:B:98:THR:HG23	2.13	0.48
1:B:435:MET:HA	1:B:438:ILE:HG12	1.95	0.48
1:B:1017:LEU:HD22	1:B:1021:PHE:CE2	2.48	0.48
1:C:434:SER:O	1:C:438:ILE:HG12	2.12	0.48
2:E:50:PRO:HB2	2:E:66:LEU:CD1	2.43	0.48
1:B:310:LEU:HD22	1:B:323:ILE:CD1	2.43	0.48
1:B:313:MET:CB	1:B:317:PHE:CE1	2.96	0.48
1:B:936:GLY:O	1:B:940:LYS:HG3	2.13	0.48
1:A:846:GLN:O	1:A:849:SER:OG	2.25	0.48
1:B:591:LEU:O	1:B:595:THR:HG23	2.13	0.48
1:B:756:GLY:HA2	1:B:774:MET:HG3	1.94	0.48
1:C:506:GLY:O	1:C:509:LYS:HB2	2.12	0.48
1:A:144:ASN:ND2	1:A:149:MET:HG3	2.29	0.48
1:B:404:LEU:CD2	1:B:937:LEU:HD12	2.41	0.48
1:B:203:VAL:O	1:B:207:ILE:HG13	2.14	0.48
1:A:131:LYS:C	1:A:295:THR:HG23	2.38	0.48
1:C:555:LEU:HD12	1:C:910:ILE:HD12	1.94	0.48
1:A:309:GLU:HG3	1:A:313:MET:HE3	1.95	0.47
1:B:414:GLU:HG3	1:B:977:MET:CE	2.44	0.47
1:C:261:LEU:HD11	2:E:155:ASN:OD1	2.13	0.47
1:A:359:LEU:HD12	1:A:365:THR:HA	1.96	0.47
1:A:450:SER:O	1:A:454:VAL:HG23	2.14	0.47
1:B:33:ALA:O	1:B:391:ASN:HA	2.15	0.47
1:B:213:GLN:NE2	1:C:121:GLU:OE2	2.46	0.47
1:B:552:MET:HB3	1:B:910:ILE:CD1	2.44	0.47
1:B:614:GLY:HA2	1:B:621:GLY:O	2.14	0.47
1:C:395:MET:HE2	1:C:395:MET:HA	1.96	0.47
1:C:454:VAL:CG2	1:C:455:PRO:HD3	2.43	0.47
1:A:662:MET:HE1	1:A:664:PHE:HB2	1.96	0.47
1:A:845:GLU:HG2	1:A:857:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:662:MET:HE2	1:A:664:PHE:HB2	1.96	0.47
1:C:531:VAL:HA	1:C:534:ILE:HB	1.96	0.47
1:C:580:ALA:HB1	1:C:724:THR:HA	1.96	0.47
1:B:63:GLN:O	1:B:67:GLN:HG3	2.15	0.47
1:B:137:LEU:HD11	1:B:299:ALA:HB1	1.96	0.47
7:B:1213:FUA:H202	7:B:1213:FUA:H5	1.97	0.47
1:C:905:VAL:HB	1:C:906:PRO:HD3	1.96	0.47
2:E:112:ASN:HB2	2:E:114:ILE:HD12	1.97	0.47
1:A:57:VAL:CG1	1:A:88:VAL:HG22	2.45	0.47
7:B:1214:FUA:H232	7:B:1214:FUA:C12	2.43	0.47
1:C:667:ASN:OD1	1:C:668:LEU:N	2.48	0.47
2:E:133:LEU:HD11	2:E:165:LEU:HD23	1.97	0.47
1:A:226:LYS:HA	1:A:226:LYS:HD3	1.55	0.47
1:A:370:ILE:O	1:A:374:VAL:HG23	2.14	0.47
1:A:412:VAL:O	1:A:416:VAL:HG23	2.15	0.47
1:A:527:TYR:O	1:A:531:VAL:HG22	2.14	0.47
1:C:453:PHE:O	1:C:456:MET:HG2	2.14	0.47
1:C:941:ASN:ND2	1:C:1015:THR:HB	2.30	0.47
1:C:960:LEU:HG	1:C:1027:VAL:HG12	1.97	0.47
1:A:777:ALA:O	1:A:781:MET:HG2	2.14	0.47
1:C:741:VAL:CG2	1:C:746:ILE:HD11	2.45	0.47
2:E:127:GLU:C	2:E:130:GLU:HB3	2.39	0.47
1:A:372:VAL:HG21	1:A:406:VAL:HG12	1.97	0.47
1:A:972:LEU:HA	1:A:975:ILE:HG22	1.96	0.47
1:C:1022:VAL:CG1	1:C:1023:PRO:HD3	2.45	0.47
1:A:668:LEU:HD12	1:A:668:LEU:H	1.80	0.47
1:B:185:ARG:NH1	1:B:774:MET:HE3	2.29	0.47
1:C:545:TYR:HB2	1:C:1021:PHE:CE2	2.49	0.47
1:C:159:ALA:HB3	1:C:181:GLN:HB3	1.97	0.46
1:C:979:SER:O	1:C:983:ILE:HG13	2.15	0.46
1:A:781:MET:HB3	1:C:228:GLN:OE1	2.14	0.46
1:A:27:ILE:HD13	3:A:1101:LMT:H81	1.96	0.46
1:A:580:ALA:HB1	5:A:1105:GOL:H12	1.96	0.46
1:A:714:THR:HG23	1:A:830:GLN:HG3	1.98	0.46
1:A:983:ILE:HG23	1:A:1008:MET:HG3	1.98	0.46
1:C:708:LYS:C	1:C:710:PRO:HD3	2.40	0.46
1:B:190:PRO:HB3	1:B:789:TRP:CE3	2.51	0.46
1:C:349:ILE:O	1:C:353:LEU:HG	2.16	0.46
1:C:359:LEU:O	1:C:361:ASN:N	2.43	0.46
1:B:126:GLY:HA3	1:C:116:PRO:HB3	1.96	0.46
1:B:655:PHE:CD1	1:B:658:ILE:HD11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:127:GLU:O	2:D:131:VAL:HG23	2.15	0.46
1:A:531:VAL:O	1:A:535:LEU:HD12	2.14	0.46
1:A:891:LEU:HD13	3:A:1111:LMT:H21	1.96	0.46
1:A:946:VAL:HG13	1:A:1026:PHE:CE1	2.51	0.46
1:B:568:ASP:OD2	1:B:643:LYS:HG3	2.15	0.46
2:E:73:VAL:HG13	2:E:74:ASN:HD22	1.80	0.46
1:B:430:ALA:O	1:B:433:LYS:HB3	2.16	0.46
1:A:527:TYR:CE2	1:A:972:LEU:HG	2.50	0.46
1:B:219:LEU:HD21	1:C:783:PRO:HG3	1.98	0.46
1:C:138:MET:HE2	1:C:140:VAL:CG2	2.46	0.46
1:C:445:ILE:HD11	1:C:944:LEU:HD21	1.98	0.46
1:A:491:ALA:O	1:A:495:THR:HG23	2.16	0.46
1:A:735:LYS:O	1:A:739:LEU:HG	2.16	0.46
1:B:1013:THR:CA	1:B:1016:VAL:HG22	2.37	0.46
1:C:990:VAL:HG12	1:C:1005:THR:OG1	2.16	0.46
1:A:354:VAL:HG11	1:A:981:ALA:CB	2.46	0.45
1:B:76:MET:HG3	1:B:95:GLU:HG2	1.97	0.45
1:B:143:ILE:HG22	1:B:286:ALA:CB	2.46	0.45
1:C:423:GLU:HB2	1:C:425:LEU:CD1	2.47	0.45
2:D:29:GLU:HG2	2:D:33:LEU:HD12	1.98	0.45
1:B:413:VAL:O	1:B:416:VAL:HG12	2.17	0.45
1:B:388:PHE:CE2	1:B:472:ILE:HG21	2.51	0.45
1:C:951:ASP:O	1:C:955:LYS:HB2	2.16	0.45
2:D:126:LEU:O	2:D:130:GLU:HG3	2.15	0.45
1:A:423:GLU:OE2	1:A:425:LEU:HD11	2.17	0.45
1:B:27:ILE:HG23	9:B:1208:8K6:H121	1.98	0.45
1:C:189:ASN:O	1:C:193:LEU:HB2	2.16	0.45
2:E:27:ASP:N	2:E:27:ASP:OD2	2.50	0.45
2:E:27:ASP:OD2	2:E:62:ILE:HD11	2.17	0.45
1:A:350:LEU:HD22	1:A:984:LEU:HD23	1.99	0.45
1:A:459:PHE:HB2	1:A:464:GLY:HA2	1.98	0.45
1:A:754:TRP:HZ3	1:C:219:LEU:HD23	1.82	0.45
1:C:342:LYS:O	1:C:346:GLU:HG3	2.17	0.45
1:C:895:TRP:CG	11:C:1303:PTY:H132	2.52	0.45
1:A:404:LEU:HD23	1:A:937:LEU:CD2	2.47	0.45
1:C:2:PRO:HB3	1:C:435:MET:HE2	1.99	0.45
1:A:401:ALA:O	1:A:405:LEU:HG	2.16	0.45
1:B:70:ASN:O	1:B:110:LYS:HE3	2.17	0.45
1:B:881:LEU:HG	7:B:1213:FUA:H232	1.97	0.45
1:C:103:ALA:O	1:C:107:VAL:HG23	2.17	0.45
1:C:428:LYS:HE3	1:C:432:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:514:GLY:O	1:C:518:ARG:HG3	2.16	0.45
1:C:973:ARG:HB3	1:C:974:PRO:HD3	1.97	0.45
1:A:684:LEU:HD23	1:A:695:LEU:CD1	2.47	0.45
1:A:777:ALA:HB1	1:A:781:MET:HE3	1.98	0.45
1:B:615:PHE:CE1	1:B:620:ARG:HD3	2.52	0.45
1:C:444:GLY:O	1:C:448:VAL:HG22	2.17	0.45
1:A:1032:ARG:O	1:A:1032:ARG:HG3	2.17	0.45
1:B:310:LEU:HD13	1:B:323:ILE:HG21	1.98	0.45
1:A:455:PRO:HG2	1:A:880:SER:HB2	1.97	0.45
1:B:347:ALA:HA	7:B:1215:FUA:C32	2.46	0.45
1:A:444:GLY:HA3	3:A:1111:LMT:H22	1.99	0.44
1:B:542:LEU:O	1:B:546:LEU:HD13	2.17	0.44
1:B:555:LEU:HD11	1:B:917:THR:OG1	2.17	0.44
1:C:327:TYR:CD1	1:C:628:PHE:HB3	2.52	0.44
1:A:410:ILE:HD12	1:A:978:THR:HG22	1.98	0.44
1:A:506:GLY:HA3	1:A:517:ASN:ND2	2.33	0.44
1:B:488:LEU:O	1:B:492:LEU:HG	2.17	0.44
2:D:29:GLU:HG2	2:D:33:LEU:HD11	1.99	0.44
1:A:427:PRO:CD	1:A:499:PRO:HG3	2.47	0.44
1:A:982:PHE:O	1:A:986:VAL:HG22	2.17	0.44
1:B:104:GLN:O	1:B:108:GLN:HG2	2.17	0.44
1:C:889:ALA:HB2	1:C:898:PRO:HG2	1.99	0.44
1:A:200:PRO:HG2	1:A:749:THR:HG23	1.99	0.44
3:A:1111:LMT:H3'	3:A:1111:LMT:H6'1	1.98	0.44
1:C:248:LYS:HA	1:C:261:LEU:HD13	1.98	0.44
1:C:897:ILE:HB	1:C:898:PRO:HD3	1.98	0.44
1:C:961:ILE:HG22	1:C:965:LEU:CD1	2.47	0.44
1:A:186:ILE:HB	1:A:773:VAL:HG22	1.98	0.44
1:C:951:ASP:OD2	1:C:955:LYS:HE2	2.16	0.44
1:A:489:THR:OG1	1:A:490:PRO:HD3	2.17	0.44
1:B:448:VAL:O	1:B:452:VAL:HG23	2.18	0.44
1:C:244:GLU:O	1:C:248:LYS:HG2	2.18	0.44
1:B:438:ILE:O	1:B:442:LEU:HG	2.18	0.44
1:B:451:ALA:CB	1:B:883:VAL:HG23	2.45	0.44
1:B:906:PRO:O	1:B:909:VAL:HG12	2.18	0.44
9:B:1208:8K6:H132	7:B:1214:FUA:C19	2.43	0.44
1:C:245:GLU:O	1:C:248:LYS:HG3	2.17	0.44
1:A:27:ILE:HG23	3:A:1101:LMT:H41	2.00	0.44
1:A:379:THR:HA	1:A:382:VAL:HG12	1.99	0.44
1:A:948:PHE:O	1:A:952:LEU:HD13	2.18	0.44
1:B:464:GLY:O	1:B:468:ARG:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:545:TYR:CD2	1:B:546:LEU:HD12	2.52	0.44
2:D:60:LEU:CD1	2:D:98:VAL:HG21	2.48	0.44
1:A:247:GLY:HA2	1:A:268:ILE:CD1	2.48	0.44
1:A:418:ARG:CZ	1:A:970:MET:HE3	2.48	0.44
1:B:219:LEU:HD12	1:C:754:TRP:HZ3	1.82	0.43
1:B:411:VAL:HG22	1:B:971:ARG:HH22	1.83	0.43
1:B:545:TYR:HD2	1:B:546:LEU:HD12	1.83	0.43
1:C:53:ASP:OD1	1:C:53:ASP:N	2.51	0.43
1:C:373:PRO:O	1:C:377:LEU:HG	2.18	0.43
1:A:275:TYR:CD2	1:C:223:PRO:HD3	2.53	0.43
1:A:934:THR:HG22	1:A:1011:MET:SD	2.58	0.43
1:C:31:PRO:HG2	1:C:389:SER:HB3	1.99	0.43
1:C:405:LEU:HA	1:C:478:MET:HE1	1.99	0.43
1:C:456:MET:HG3	1:C:467:TYR:HB3	2.00	0.43
1:A:451:ALA:O	1:A:880:SER:HB2	2.18	0.43
7:A:1113:FUA:H231	7:A:1113:FUA:C12	2.46	0.43
1:C:453:PHE:O	1:C:471:SER:OG	2.34	0.43
1:A:8:ARG:NE	3:A:1103:LMT:O3'	2.44	0.43
1:B:398:MET:O	1:B:402:ILE:HG12	2.19	0.43
1:B:485:ALA:HA	1:B:489:THR:OG1	2.19	0.43
1:C:354:VAL:HG11	1:C:981:ALA:HA	1.99	0.43
1:C:739:LEU:HD13	1:C:799:VAL:HG11	2.00	0.43
2:D:30:VAL:O	2:D:34:MET:HG2	2.19	0.43
1:A:180:SER:HB2	1:A:274:ASN:OD1	2.19	0.43
1:A:330:THR:OG1	1:A:331:PRO:HD3	2.19	0.43
1:A:977:MET:HE2	1:A:977:MET:HB3	1.84	0.43
1:A:1024:VAL:HA	1:A:1027:VAL:HG22	2.00	0.43
1:B:38:ILE:HD12	1:B:466:ILE:HG13	1.99	0.43
1:B:287:SER:OG	1:B:288:GLY:N	2.51	0.43
1:B:961:ILE:H	1:B:961:ILE:HD12	1.83	0.43
1:B:1032:ARG:HD2	1:B:1032:ARG:HA	1.60	0.43
7:B:1214:FUA:H212	7:B:1214:FUA:H72	1.67	0.43
1:C:33:ALA:O	1:C:391:ASN:HA	2.18	0.43
1:B:310:LEU:HB3	1:B:323:ILE:CD1	2.48	0.43
1:C:428:LYS:O	1:C:432:ARG:HG3	2.19	0.43
1:A:312:LYS:HE3	4:B:1206:EDO:H22	2.01	0.43
1:A:643:LYS:O	1:A:647:ILE:HG13	2.18	0.43
1:B:495:THR:HG21	11:C:1303:PTY:H332	2.00	0.43
1:C:790:TYR:CE2	1:C:800:PRO:HB3	2.54	0.43
1:C:898:PRO:O	1:C:902:MET:HG2	2.18	0.43
11:C:1307:PTY:H191	11:C:1307:PTY:H222	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:LEU:HD12	1:A:365:THR:CG2	2.48	0.43
1:C:376:LEU:HD11	1:C:402:ILE:CD1	2.49	0.43
1:C:987:MET:HB3	1:C:987:MET:HE2	1.69	0.43
1:C:1015:THR:O	1:C:1019:ILE:HG23	2.19	0.43
2:E:100:LEU:HD13	2:E:135:TYR:CD2	2.54	0.43
2:E:142:GLN:HB3	2:E:146:GLY:HA2	1.99	0.43
1:A:131:LYS:O	1:A:295:THR:HG23	2.18	0.43
1:A:176:GLN:HG2	1:A:615:PHE:CE1	2.53	0.43
1:A:559:LEU:HD21	1:A:923:ASN:N	2.33	0.43
1:A:575:MET:HE3	1:A:575:MET:HB2	1.91	0.43
1:A:961:ILE:O	1:A:965:LEU:HG	2.19	0.43
1:B:343:THR:HG23	7:B:1215:FUA:H16	2.00	0.43
1:B:437:GLN:HB3	1:B:948:PHE:HE1	1.83	0.43
1:B:492:LEU:O	1:B:496:MET:HB2	2.18	0.43
1:B:940:LYS:HB3	1:B:940:LYS:HE3	1.61	0.43
7:B:1215:FUA:H9	7:B:1215:FUA:H213	1.40	0.43
1:A:375:VAL:CG1	1:A:405:LEU:HD13	2.49	0.43
1:B:143:ILE:HG21	1:B:281:PHE:CB	2.48	0.43
1:B:414:GLU:HG3	1:B:977:MET:HE1	2.01	0.43
1:C:973:ARG:O	1:C:977:MET:HG2	2.19	0.43
1:B:139:VAL:O	1:B:326:PRO:HD2	2.18	0.42
1:B:619:GLY:O	1:B:624:THR:HG21	2.17	0.42
1:B:684:LEU:O	1:B:824:SER:HA	2.19	0.42
1:C:925:VAL:O	1:C:929:VAL:HG23	2.19	0.42
11:C:1303:PTY:H312	11:C:1303:PTY:H342	1.62	0.42
1:A:872:GLN:HG3	1:A:872:GLN:O	2.19	0.42
1:B:57:VAL:CG1	1:B:88:VAL:HB	2.49	0.42
1:B:326:PRO:HG3	1:B:610:PHE:CE2	2.54	0.42
1:B:655:PHE:O	1:B:658:ILE:HG13	2.19	0.42
1:C:49:TYR:CE1	1:C:119:PRO:HG2	2.51	0.42
1:C:1003:VAL:O	1:C:1007:VAL:HG22	2.19	0.42
2:D:97:GLU:O	2:D:101:LYS:HG3	2.20	0.42
1:A:373:PRO:O	1:A:377:LEU:HD13	2.19	0.42
1:A:426:PRO:HB2	1:A:429:GLU:OE2	2.19	0.42
1:A:684:LEU:O	1:A:824:SER:HA	2.19	0.42
1:C:111:LEU:HG	1:C:115:MET:HE2	2.02	0.42
1:C:944:LEU:O	1:C:971:ARG:HG3	2.18	0.42
1:A:174:ASP:HB3	1:A:292:LYS:HB2	2.01	0.42
1:A:456:MET:HE3	1:A:471:SER:OG	2.19	0.42
1:A:230:LEU:HB3	2:D:45:VAL:HG22	2.01	0.42
1:A:372:VAL:HB	1:A:373:PRO:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:10:ILE:HG23	1:C:895:TRP:CZ2	2.54	0.42
1:B:312:LYS:O	1:B:315:PRO:HD2	2.19	0.42
1:B:467:TYR:CE1	1:B:925:VAL:HG23	2.50	0.42
1:C:527:TYR:HE2	1:C:968:VAL:HB	1.83	0.42
1:A:905:VAL:HG12	1:A:935:ILE:HG23	2.02	0.42
1:B:200:PRO:HD2	1:B:749:THR:HG23	2.02	0.42
1:B:555:LEU:O	1:B:555:LEU:HD12	2.20	0.42
1:B:910:ILE:HG12	1:B:913:LEU:HD12	2.02	0.42
1:C:53:ASP:O	1:C:57:VAL:HG23	2.19	0.42
1:C:892:TYR:CE1	1:C:947:GLU:HG3	2.54	0.42
11:C:1307:PTY:H322	11:C:1307:PTY:H352	1.25	0.42
1:A:1:MET:CE	1:A:439:GLN:HE22	2.33	0.42
1:B:200:PRO:O	1:B:204:ILE:HG13	2.20	0.42
2:E:42:ALA:O	2:E:49:THR:HA	2.19	0.42
2:E:79:LEU:HA	2:E:111:ASP:OD2	2.19	0.42
1:A:274:ASN:HD22	1:A:620:ARG:CZ	2.33	0.42
1:A:276:ASP:O	1:A:614:GLY:HA3	2.20	0.42
1:A:476:SER:HB3	6:A:1107:D10:H81	2.01	0.42
1:A:546:LEU:O	1:A:550:VAL:HG22	2.20	0.42
7:A:1113:FUA:H213	7:A:1113:FUA:H9	1.77	0.42
1:B:157:TYR:CZ	1:B:318:PRO:HD3	2.55	0.42
1:B:361:ASN:HD22	1:B:498:LYS:HD3	1.84	0.42
7:B:1214:FUA:H192	7:B:1214:FUA:H4	1.78	0.42
1:C:138:MET:HE2	1:C:140:VAL:HG22	2.00	0.42
1:A:134:SER:O	1:A:292:LYS:HE2	2.20	0.42
1:A:441:ALA:O	1:A:445:ILE:HG13	2.20	0.42
1:A:923:ASN:ND2	1:A:928:GLN:HE21	2.18	0.42
1:B:129:VAL:HB	1:C:112:GLN:HG2	2.01	0.42
1:B:277:ILE:HA	1:B:613:ASN:O	2.20	0.42
3:C:1305:LMT:H81	3:C:1305:LMT:H111	1.44	0.42
1:A:470:PHE:CD2	1:A:929:VAL:HG11	2.55	0.41
1:A:470:PHE:CZ	1:A:929:VAL:HG21	2.55	0.41
1:A:764:ASP:HB3	1:A:769:LYS:HD2	2.01	0.41
1:A:880:SER:O	1:A:884:VAL:HG23	2.19	0.41
1:C:944:LEU:HD13	1:C:975:ILE:HG12	2.02	0.41
2:D:89:HIS:HB3	2:D:90:PHE:CD2	2.55	0.41
2:D:164:ILE:HG22	2:D:165:LEU:HD23	2.01	0.41
1:A:573:MET:HE2	1:A:668:LEU:HD21	2.02	0.41
1:C:104:GLN:HE21	1:C:104:GLN:HB3	1.68	0.41
1:C:388:PHE:CE2	1:C:472:ILE:HD12	2.54	0.41
1:C:555:LEU:HD12	1:C:910:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:354:VAL:HG13	1:B:980:LEU:HD23	2.03	0.41
7:B:1213:FUA:H72	7:B:1213:FUA:H212	1.79	0.41
1:C:252:LYS:HG2	1:C:260:VAL:HG11	2.02	0.41
1:C:455:PRO:HA	11:C:1307:PTY:H152	2.01	0.41
1:A:459:PHE:HB3	1:A:463:THR:HG23	2.03	0.41
1:A:951:ASP:O	1:A:955:LYS:N	2.39	0.41
1:A:1008:MET:O	1:A:1012:VAL:HG13	2.21	0.41
3:A:1103:LMT:H1B	3:A:1103:LMT:O3'	2.19	0.41
1:B:200:PRO:CD	1:B:749:THR:HG23	2.50	0.41
1:C:924:ASP:O	1:C:928:GLN:HG3	2.20	0.41
1:A:923:ASN:HD21	1:A:928:GLN:HE21	1.69	0.41
1:A:972:LEU:HA	1:A:972:LEU:HD22	1.66	0.41
7:A:1113:FUA:H212	7:A:1113:FUA:H72	1.88	0.41
1:B:776:GLU:HB2	1:B:779:TYR:HD2	1.85	0.41
1:B:880:SER:O	1:B:884:VAL:HG23	2.21	0.41
1:C:154:ILE:O	1:C:158:VAL:HG23	2.20	0.41
1:C:391:ASN:O	1:C:395:MET:HG2	2.20	0.41
1:A:137:LEU:HD11	1:A:299:ALA:HB1	2.03	0.41
1:A:842:GLU:O	1:A:846:GLN:HG3	2.21	0.41
1:B:202:ASP:CG	1:B:792:ARG:HH22	2.25	0.41
1:B:215:ALA:CB	1:C:51:GLY:HA3	2.51	0.41
1:C:226:LYS:HB2	1:C:226:LYS:HE3	1.69	0.41
1:C:535:LEU:CD2	1:C:1027:VAL:HG11	2.51	0.41
1:A:281:PHE:O	1:A:284:GLN:HG3	2.20	0.41
1:B:414:GLU:CD	1:B:974:PRO:HD3	2.46	0.41
2:E:60:LEU:HD11	2:E:98:VAL:HG21	2.03	0.41
2:E:89:HIS:ND1	2:E:119:LEU:HB3	2.36	0.41
2:E:127:GLU:O	2:E:131:VAL:HG23	2.20	0.41
1:B:498:LYS:HB2	1:B:498:LYS:HE2	1.79	0.41
1:C:343:THR:HG23	1:C:988:PRO:HB2	2.02	0.41
1:C:420:MET:HB3	1:C:500:ILE:HB	2.03	0.41
11:C:1307:PTY:H261	11:C:1307:PTY:H232	1.69	0.41
2:D:93:LEU:O	2:D:97:GLU:HG3	2.21	0.41
1:A:213:GLN:HG3	1:B:56:THR:HG23	2.03	0.41
1:A:470:PHE:CG	1:A:929:VAL:HG11	2.55	0.41
1:B:214:VAL:HB	1:B:237:GLN:H	1.85	0.41
1:B:775:SER:HB2	1:B:789:TRP:CZ2	2.55	0.41
1:B:881:LEU:HD21	7:B:1213:FUA:C21	2.51	0.41
1:B:914:LEU:HD13	1:B:918:PHE:CE2	2.55	0.41
1:B:980:LEU:HG	1:B:984:LEU:CD1	2.51	0.41
1:B:1013:THR:O	1:B:1017:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:211:ASN:O	1:C:239:ARG:NH1	2.54	0.41
1:C:293:LEU:HD11	1:C:297:ALA:HB3	2.02	0.41
1:C:404:LEU:HD21	1:C:937:LEU:CD2	2.51	0.41
1:C:762:PHE:CE2	1:C:764:ASP:HB2	2.55	0.41
1:A:729:ILE:HG23	1:A:729:ILE:O	2.21	0.41
1:A:911:GLY:HA3	1:A:1013:THR:HG21	2.02	0.41
7:A:1113:FUA:H203	7:A:1113:FUA:H151	1.76	0.41
1:B:348:ILE:HD12	1:B:349:ILE:N	2.36	0.41
1:B:617:PHE:CE2	8:B:1204:PGE:H1	2.56	0.41
7:B:1214:FUA:H213	7:B:1214:FUA:H9	1.90	0.41
1:C:360:GLN:OE1	1:C:513:PHE:HB3	2.21	0.41
1:C:977:MET:HE3	1:C:977:MET:HB2	1.68	0.41
2:D:161:LEU:O	2:D:165:LEU:HG	2.21	0.41
1:A:372:VAL:CG2	1:A:406:VAL:HG12	2.51	0.40
1:A:452:VAL:HG12	1:A:932:LEU:HD22	2.04	0.40
1:A:455:PRO:HG2	1:A:880:SER:CB	2.51	0.40
1:A:934:THR:CG2	1:A:1011:MET:HG2	2.51	0.40
1:B:313:MET:O	1:B:317:PHE:CD1	2.72	0.40
1:B:1029:VAL:O	1:B:1033:PHE:HD2	2.04	0.40
1:C:485:ALA:O	1:C:490:PRO:HD3	2.21	0.40
1:C:777:ALA:O	1:C:781:MET:HG2	2.21	0.40
1:A:6:ILE:HG23	1:A:494:ALA:CB	2.51	0.40
1:B:190:PRO:HB3	1:B:789:TRP:CD2	2.56	0.40
1:B:809:TRP:HE1	2:D:78:THR:HB	1.86	0.40
1:C:56:THR:O	1:C:60:THR:HG23	2.21	0.40
1:C:310:LEU:O	1:C:314:GLU:HG3	2.21	0.40
1:C:492:LEU:HA	1:C:495:THR:OG1	2.22	0.40
1:C:703:LEU:HD11	1:C:718:PRO:HG3	2.01	0.40
1:A:348:ILE:O	1:A:351:VAL:HG22	2.21	0.40
1:A:675:GLY:HA2	1:A:862:MET:SD	2.61	0.40
1:B:563:PHE:CE1	1:B:925:VAL:HB	2.57	0.40
1:B:905:VAL:CG2	1:B:906:PRO:HD3	2.51	0.40
1:C:414:GLU:OE2	1:C:974:PRO:HG3	2.20	0.40
1:C:644:VAL:O	1:C:648:THR:HG23	2.22	0.40
2:E:114:ILE:HG23	2:E:118:HIS:CB	2.51	0.40
1:A:287:SER:OG	1:A:288:GLY:N	2.55	0.40
1:A:303:ALA:O	1:A:307:ARG:HG3	2.22	0.40
1:B:684:LEU:HD11	1:B:851:LEU:HD13	2.04	0.40
1:C:945:ILE:HG13	1:C:975:ILE:HD11	2.03	0.40
1:A:354:VAL:HG11	1:A:981:ALA:HB2	2.03	0.40
1:A:528:THR:HA	1:A:531:VAL:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:987:MET:HA	1:A:990:VAL:CG2	2.51	0.40
1:B:317:PHE:HA	1:B:318:PRO:HD3	1.96	0.40
1:B:776:GLU:O	1:B:780:ARG:HG2	2.21	0.40
1:C:1024:VAL:O	1:C:1028:VAL:HG23	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	1031/1057 (98%)	996 (97%)	30 (3%)	5 (0%)	24	42
1	B	1016/1057 (96%)	988 (97%)	24 (2%)	4 (0%)	30	48
1	C	1030/1057 (97%)	1002 (97%)	28 (3%)	0	100	100
2	D	152/169 (90%)	147 (97%)	5 (3%)	0	100	100
2	E	150/169 (89%)	142 (95%)	8 (5%)	0	100	100
All	All	3379/3509 (96%)	3275 (97%)	95 (3%)	9 (0%)	36	54

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	538	THR
1	A	869	SER
1	B	313	MET
1	B	216	ALA
1	A	677	ALA
1	B	676	THR
1	A	461	GLY
1	B	603	LYS
1	A	126	GLY

5.3.2 Protein sidechains ⓘ

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	839/863 (97%)	838 (100%)	1 (0%)	88	95
1	B	832/863 (96%)	832 (100%)	0	100	100
1	C	838/863 (97%)	838 (100%)	0	100	100
2	D	119/132 (90%)	119 (100%)	0	100	100
2	E	117/132 (89%)	117 (100%)	0	100	100
All	All	2745/2853 (96%)	2744 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	972	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	68	ASN
1	A	109	ASN
1	A	237	GLN
1	A	254	ASN
1	A	439	GLN
1	A	923	ASN
1	A	1001	ASN
1	B	237	GLN
1	B	415	ASN
1	B	604	ASN
1	B	701	GLN
1	B	928	GLN
1	C	34	GLN
1	C	104	GLN
1	C	161	ASN
1	C	176	GLN
1	C	237	GLN

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Mol	Chain	Res	Type
1	C	439	GLN
1	C	569	GLN
1	C	697	GLN
1	C	726	GLN
1	C	1001	ASN
2	D	69	ASN
2	D	89	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 ⓘ

41 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	$\# Z > 2$
7	FUA	B	1214	-	39,40,40	1.24	3 (7%)	50,64,64	1.91	8 (16%)
4	EDO	B	1216	-	3,3,3	0.47	0	2,2,2	0.47	0
4	EDO	C	1301	-	3,3,3	0.46	0	2,2,2	0.25	0
13	HEX	C	1309	-	5,5,5	0.14	0	4,4,4	0.33	0
7	FUA	B	1215	-	39,40,40	1.35	4 (10%)	50,64,64	2.13	12 (24%)
3	LMT	A	1103	-	36,36,36	0.48	1 (2%)	47,47,47	0.96	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	LMT	A	1101	-	36,36,36	0.40	0	47,47,47	1.39	7 (14%)
3	LMT	C	1305	-	36,36,36	0.45	0	47,47,47	0.78	1 (2%)
4	EDO	A	1106	-	3,3,3	0.48	0	2,2,2	0.46	0
7	FUA	A	1113	-	39,40,40	1.28	2 (5%)	50,64,64	1.79	9 (18%)
5	GOL	B	1202	-	5,5,5	0.91	0	5,5,5	1.13	0
10	SO4	C	1310	-	4,4,4	0.25	0	6,6,6	0.10	0
3	LMT	A	1111	-	36,36,36	0.51	0	47,47,47	1.16	5 (10%)
4	EDO	C	1304	-	3,3,3	0.47	0	2,2,2	0.35	0
4	EDO	D	202	-	3,3,3	0.49	0	2,2,2	0.20	0
5	GOL	A	1105	-	5,5,5	1.03	0	5,5,5	0.88	0
3	LMT	C	1306	-	36,36,36	0.42	0	47,47,47	0.74	0
4	EDO	A	1104	-	3,3,3	0.43	0	2,2,2	0.45	0
10	SO4	B	1210	-	4,4,4	0.26	0	6,6,6	0.07	0
7	FUA	B	1213	-	39,40,40	1.29	2 (5%)	50,64,64	1.99	13 (26%)
11	PTY	C	1303	-	49,49,49	0.93	2 (4%)	52,54,54	1.04	4 (7%)
4	EDO	A	1110	-	3,3,3	0.46	0	2,2,2	0.45	0
4	EDO	A	1108	-	3,3,3	0.48	0	2,2,2	0.34	0
10	SO4	B	1212	-	4,4,4	0.28	0	6,6,6	0.17	0
4	EDO	A	1109	-	3,3,3	0.48	0	2,2,2	0.31	0
4	EDO	D	201	-	3,3,3	0.41	0	2,2,2	0.50	0
11	PTY	C	1307	-	49,49,49	0.95	2 (4%)	52,54,54	1.03	3 (5%)
12	D12	C	1308	-	11,11,11	0.23	0	10,10,10	0.64	0
4	EDO	B	1203	-	3,3,3	0.43	0	2,2,2	0.41	0
6	D10	B	1207	-	9,9,9	0.13	0	8,8,8	0.26	0
4	EDO	B	1205	-	3,3,3	0.44	0	2,2,2	0.44	0
10	SO4	B	1211	-	4,4,4	0.26	0	6,6,6	0.08	0
4	EDO	A	1102	-	3,3,3	0.49	0	2,2,2	0.32	0
3	LMT	C	1302	-	36,36,36	0.48	0	47,47,47	1.06	4 (8%)
6	D10	A	1107	-	9,9,9	0.10	0	8,8,8	0.38	0
9	8K6	B	1208	-	17,17,17	0.14	0	16,16,16	0.10	0
8	PGE	B	1204	-	9,9,9	0.33	0	8,8,8	0.25	0
10	SO4	B	1209	-	4,4,4	0.24	0	6,6,6	0.12	0
4	EDO	B	1206	-	3,3,3	0.49	0	2,2,2	0.38	0
3	LMT	A	1112	-	36,36,36	0.52	0	47,47,47	1.15	5 (10%)
4	EDO	B	1201	-	3,3,3	0.44	0	2,2,2	0.41	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
7	FUA	B	1214	-	-	6/16/92/92	0/4/4/4
4	EDO	B	1216	-	-	1/1/1/1	-
4	EDO	C	1301	-	-	0/1/1/1	-
13	HEX	C	1309	-	-	1/3/3/3	-
7	FUA	B	1215	-	-	5/16/92/92	0/4/4/4
3	LMT	A	1103	-	-	8/21/61/61	0/2/2/2
3	LMT	A	1101	-	-	12/21/61/61	0/2/2/2
3	LMT	C	1305	-	-	10/21/61/61	0/2/2/2
4	EDO	A	1106	-	-	1/1/1/1	-
7	FUA	A	1113	-	-	6/16/92/92	0/4/4/4
5	GOL	B	1202	-	-	2/4/4/4	-
3	LMT	A	1111	-	-	14/21/61/61	0/2/2/2
4	EDO	C	1304	-	-	0/1/1/1	-
4	EDO	D	202	-	-	0/1/1/1	-
5	GOL	A	1105	-	-	0/4/4/4	-
3	LMT	C	1306	-	-	9/21/61/61	0/2/2/2
4	EDO	A	1104	-	-	0/1/1/1	-
7	FUA	B	1213	-	-	4/16/92/92	0/4/4/4
11	PTY	C	1303	-	-	19/53/53/53	-
4	EDO	A	1110	-	-	0/1/1/1	-
4	EDO	A	1108	-	-	0/1/1/1	-
4	EDO	A	1109	-	-	0/1/1/1	-
4	EDO	D	201	-	-	0/1/1/1	-
11	PTY	C	1307	-	-	29/53/53/53	-
12	D12	C	1308	-	-	4/9/9/9	-
4	EDO	B	1203	-	-	1/1/1/1	-
6	D10	B	1207	-	-	0/7/7/7	-
4	EDO	B	1205	-	-	0/1/1/1	-
4	EDO	A	1102	-	-	0/1/1/1	-
3	LMT	C	1302	-	-	6/21/61/61	0/2/2/2
6	D10	A	1107	-	-	2/7/7/7	-
9	8K6	B	1208	-	-	4/15/15/15	-
8	PGE	B	1204	-	-	2/7/7/7	-
4	EDO	B	1206	-	-	0/1/1/1	-
3	LMT	A	1112	-	-	5/21/61/61	0/2/2/2
4	EDO	B	1201	-	-	0/1/1/1	-

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	B	1214	FUA	O2-C31	5.29	1.46	1.35
7	A	1113	FUA	O2-C31	5.12	1.46	1.35
7	B	1215	FUA	O2-C31	5.06	1.46	1.35
7	B	1213	FUA	O2-C31	4.98	1.46	1.35
11	C	1307	PTY	O4-C30	4.33	1.46	1.33
11	C	1303	PTY	O4-C30	4.29	1.45	1.33
7	B	1215	FUA	C14-C8	-4.15	1.52	1.59
11	C	1307	PTY	O7-C8	4.15	1.46	1.34
7	B	1213	FUA	C14-C8	-4.11	1.52	1.59
11	C	1303	PTY	O7-C8	3.95	1.45	1.34
7	A	1113	FUA	C14-C8	-3.85	1.52	1.59
7	B	1214	FUA	C14-C8	-2.84	1.54	1.59
7	B	1215	FUA	C10-C9	-2.52	1.53	1.57
7	B	1215	FUA	C10-C5	-2.29	1.52	1.56
7	B	1214	FUA	C10-C5	-2.13	1.52	1.56
3	A	1103	LMT	O1'-C1'	2.01	1.43	1.40

All (72) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	B	1215	FUA	C21-C14-C8	-6.22	107.07	112.23
7	B	1214	FUA	O2-C31-C32	5.57	121.03	111.09
7	A	1113	FUA	O2-C31-C32	5.48	120.86	111.09
7	B	1214	FUA	C21-C14-C8	-5.38	107.77	112.23
7	B	1213	FUA	C16-O2-C31	-5.35	109.06	117.00
7	B	1213	FUA	O2-C31-C32	5.19	120.35	111.09
7	B	1215	FUA	C14-C8-C9	-4.94	100.62	109.30
7	A	1113	FUA	C20-C8-C14	-4.89	104.04	110.83
7	B	1215	FUA	C19-C10-C9	-4.89	101.08	113.19
7	B	1214	FUA	C10-C5-C4	-4.60	107.62	113.20
7	B	1213	FUA	C21-C14-C8	-4.55	108.46	112.23
7	B	1214	FUA	C13-C12-C11	-4.47	105.41	111.90
3	A	1101	LMT	C3'-C4'-C5'	-4.24	101.53	110.93
7	B	1215	FUA	O2-C31-C32	4.14	118.47	111.09
7	A	1113	FUA	C13-C12-C11	-4.11	105.94	111.90
11	C	1303	PTY	O7-C8-C11	4.02	120.18	111.48
7	B	1213	FUA	C24-C23-C22	-3.95	104.30	112.72
7	B	1214	FUA	C19-C10-C9	-3.79	103.79	113.19
7	B	1215	FUA	C12-C11-C9	-3.71	103.44	112.30
7	B	1215	FUA	C13-C12-C11	-3.64	106.61	111.90
7	A	1113	FUA	C21-C14-C8	-3.55	109.29	112.23
11	C	1307	PTY	O7-C8-C11	3.47	118.99	111.48
7	B	1213	FUA	C20-C8-C14	-3.46	106.02	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1111	LMT	O5'-C1'-C2'	3.46	117.47	110.37
3	A	1112	LMT	C1B-C2B-C3B	3.43	117.24	110.01
3	A	1111	LMT	C1'-C2'-C3'	3.32	116.99	110.01
7	B	1215	FUA	C18-C4-C5	-3.20	107.77	112.95
3	A	1101	LMT	C1B-O5B-C5B	-3.14	107.58	113.72
11	C	1303	PTY	C6-O7-C8	-3.10	110.37	117.80
3	C	1302	LMT	O1'-C1'-C2'	3.09	112.97	108.27
11	C	1307	PTY	O4-C30-C31	3.02	121.05	111.83
7	B	1214	FUA	C1-C10-C9	2.98	115.85	109.16
7	A	1113	FUA	O2-C31-O3	-2.90	117.40	122.99
7	B	1215	FUA	C8-C9-C11	2.89	116.92	110.65
7	B	1214	FUA	O2-C31-O3	-2.89	117.42	122.99
7	B	1213	FUA	C24-C25-C26	-2.86	118.11	127.64
7	B	1215	FUA	C16-O2-C31	-2.74	112.93	117.00
7	B	1215	FUA	C8-C9-C10	2.72	119.33	116.42
3	A	1101	LMT	C1-O1'-C1'	-2.68	109.10	113.68
7	B	1213	FUA	O2-C31-O3	-2.67	117.84	122.99
7	A	1113	FUA	C28-C26-C27	2.67	120.73	114.59
7	B	1214	FUA	C12-C11-C9	-2.57	106.14	112.30
3	A	1111	LMT	O1B-C4'-C3'	2.56	113.75	107.23
3	A	1101	LMT	O2B-C2B-C3B	-2.56	104.35	110.38
7	B	1213	FUA	C14-C8-C9	-2.53	104.86	109.30
7	B	1213	FUA	O2-C16-C17	2.47	115.55	108.30
7	B	1213	FUA	C13-C12-C11	-2.46	108.33	111.90
7	B	1215	FUA	C7-C8-C9	2.43	114.42	108.91
3	A	1112	LMT	C1B-O1B-C4'	-2.42	112.23	117.98
11	C	1307	PTY	C6-O7-C8	-2.42	112.00	117.80
3	A	1112	LMT	C4B-C3B-C2B	2.41	115.07	110.83
3	C	1305	LMT	C1B-O1B-C4'	-2.41	112.27	117.98
3	A	1112	LMT	O5B-C5B-C4B	-2.40	105.37	109.70
11	C	1303	PTY	O4-C30-C31	2.34	118.96	111.83
3	C	1302	LMT	C1-O1'-C1'	-2.32	109.71	113.68
7	B	1215	FUA	C28-C26-C27	2.31	119.90	114.59
7	B	1213	FUA	C6-C5-C4	-2.26	110.75	114.27
3	C	1302	LMT	C1B-O1B-C4'	-2.23	112.70	117.98
7	B	1213	FUA	C19-C10-C9	-2.22	107.70	113.19
7	A	1113	FUA	C12-C11-C9	-2.21	107.00	112.30
7	B	1213	FUA	C28-C26-C27	2.21	119.67	114.59
7	A	1113	FUA	C19-C10-C9	-2.20	107.73	113.19
3	A	1101	LMT	O5B-C5B-C6B	2.18	111.85	106.44
3	A	1101	LMT	O1B-C4'-C5'	2.15	115.11	109.48
7	A	1113	FUA	C19-C10-C5	-2.14	108.30	111.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1101	LMT	C4B-C3B-C2B	-2.14	107.07	110.83
3	A	1111	LMT	C1-O1'-C1'	-2.11	110.07	113.68
11	C	1303	PTY	O7-C8-O10	-2.11	118.76	123.70
3	A	1112	LMT	C3'-C4'-C5'	-2.11	106.25	110.93
3	A	1103	LMT	C1B-C2B-C3B	-2.06	105.68	110.01
3	C	1302	LMT	C1B-C2B-C3B	2.05	114.33	110.01
3	A	1111	LMT	C1'-O5'-C5'	2.05	117.72	113.72

There are no chirality outliers.

All (151) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1112	LMT	C2'-C1'-O1'-C1
3	C	1305	LMT	C2-C1-O1'-C1'
7	A	1113	FUA	C17-C22-C23-C24
7	A	1113	FUA	C29-C22-C23-C24
7	A	1113	FUA	C23-C22-C29-O4
7	A	1113	FUA	C23-C22-C29-O5
7	A	1113	FUA	O3-C31-O2-C16
7	B	1213	FUA	C23-C22-C29-O4
7	B	1213	FUA	C23-C22-C29-O5
7	B	1213	FUA	C32-C31-O2-C16
7	B	1214	FUA	C23-C22-C29-O4
7	B	1214	FUA	C23-C22-C29-O5
7	B	1214	FUA	O3-C31-O2-C16
7	B	1215	FUA	C32-C31-O2-C16
11	C	1303	PTY	N1-C2-C3-O11
11	C	1303	PTY	C11-C8-O7-C6
11	C	1303	PTY	C3-O11-P1-O12
11	C	1303	PTY	C3-O11-P1-O14
11	C	1303	PTY	C5-O14-P1-O11
11	C	1303	PTY	C5-O14-P1-O12
11	C	1303	PTY	C5-O14-P1-O13
11	C	1307	PTY	N1-C2-C3-O11
11	C	1307	PTY	C11-C8-O7-C6
11	C	1307	PTY	C5-O14-P1-O11
11	C	1307	PTY	C5-O14-P1-O12
3	A	1111	LMT	C3'-C4'-O1B-C1B
7	A	1113	FUA	C32-C31-O2-C16
7	B	1213	FUA	O3-C31-O2-C16
7	B	1214	FUA	C32-C31-O2-C16
7	B	1215	FUA	O3-C31-O2-C16

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Mol	Chain	Res	Type	Atoms
11	C	1307	PTY	O30-C30-O4-C1
3	A	1101	LMT	O5B-C1B-O1B-C4'
11	C	1307	PTY	C31-C30-O4-C1
3	A	1101	LMT	C2B-C1B-O1B-C4'
11	C	1303	PTY	O10-C8-O7-C6
11	C	1307	PTY	O10-C8-O7-C6
11	C	1303	PTY	C31-C30-O4-C1
3	C	1302	LMT	O5'-C5'-C6'-O6'
3	C	1306	LMT	C4B-C5B-C6B-O6B
3	A	1103	LMT	O5B-C5B-C6B-O6B
3	C	1306	LMT	O5B-C5B-C6B-O6B
3	C	1302	LMT	C4'-C5'-C6'-O6'
3	C	1305	LMT	C1-C2-C3-C4
11	C	1303	PTY	O30-C30-O4-C1
3	C	1305	LMT	C11-C10-C9-C8
3	A	1101	LMT	O5B-C5B-C6B-O6B
11	C	1307	PTY	C32-C33-C34-C35
3	A	1101	LMT	C4B-C5B-C6B-O6B
3	A	1103	LMT	C5'-C4'-O1B-C1B
3	C	1305	LMT	C6-C7-C8-C9
7	B	1214	FUA	C22-C23-C24-C25
11	C	1307	PTY	C8-C11-C12-C13
3	A	1103	LMT	C4B-C5B-C6B-O6B
3	A	1112	LMT	O5'-C1'-O1'-C1
3	A	1103	LMT	C3'-C4'-O1B-C1B
3	A	1101	LMT	O1'-C1-C2-C3
3	C	1302	LMT	O1'-C1-C2-C3
3	A	1111	LMT	O1'-C1-C2-C3
11	C	1307	PTY	C6-C5-O14-P1
5	B	1202	GOL	O1-C1-C2-C3
11	C	1303	PTY	C31-C32-C33-C34
11	C	1307	PTY	C22-C23-C24-C25
11	C	1303	PTY	C13-C14-C15-C16
12	C	1308	D12	C5-C6-C7-C8
3	A	1101	LMT	C2-C1-O1'-C1'
3	C	1302	LMT	C2-C1-O1'-C1'
11	C	1303	PTY	C8-C11-C12-C13
3	A	1101	LMT	C6-C7-C8-C9
3	A	1111	LMT	O5'-C5'-C6'-O6'
8	B	1204	PGE	O1-C1-C2-O2
11	C	1303	PTY	C32-C33-C34-C35
11	C	1307	PTY	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
11	C	1307	PTY	C25-C26-C27-C28
3	A	1112	LMT	O1'-C1-C2-C3
3	A	1103	LMT	C5-C6-C7-C8
3	A	1111	LMT	C5-C6-C7-C8
3	A	1111	LMT	C3-C4-C5-C6
3	C	1302	LMT	O5B-C5B-C6B-O6B
11	C	1307	PTY	C33-C34-C35-C36
11	C	1307	PTY	C39-C40-C41-C42
11	C	1303	PTY	C33-C34-C35-C36
11	C	1307	PTY	C20-C21-C22-C23
7	B	1215	FUA	C22-C23-C24-C25
3	A	1111	LMT	C2-C3-C4-C5
3	C	1306	LMT	C7-C8-C9-C10
3	A	1111	LMT	O5B-C5B-C6B-O6B
3	C	1305	LMT	C4-C5-C6-C7
11	C	1307	PTY	C21-C22-C23-C24
5	B	1202	GOL	O1-C1-C2-O2
3	C	1306	LMT	O5'-C1'-O1'-C1
3	A	1103	LMT	O5'-C5'-C6'-O6'
12	C	1308	D12	C9-C10-C11-C12
11	C	1303	PTY	C11-C12-C13-C14
3	C	1305	LMT	O5'-C5'-C6'-O6'
3	A	1101	LMT	C4-C5-C6-C7
11	C	1307	PTY	C23-C24-C25-C26
9	B	1208	8K6	C10-C11-C12-C13
11	C	1307	PTY	C35-C36-C37-C38
6	A	1107	D10	C3-C4-C5-C6
3	C	1306	LMT	C1-C2-C3-C4
7	B	1215	FUA	C23-C22-C29-O4
7	B	1215	FUA	C23-C22-C29-O5
11	C	1307	PTY	C11-C12-C13-C14
11	C	1303	PTY	C41-C42-C43-C44
11	C	1307	PTY	C17-C18-C19-C20
3	A	1111	LMT	C1-C2-C3-C4
11	C	1307	PTY	C40-C41-C42-C43
11	C	1307	PTY	O4-C1-C6-O7
3	C	1302	LMT	C11-C10-C9-C8
11	C	1307	PTY	C19-C20-C21-C22
3	C	1305	LMT	C5-C6-C7-C8
3	C	1305	LMT	C7-C8-C9-C10
11	C	1307	PTY	C41-C42-C43-C44
3	A	1111	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
3	A	1103	LMT	C6-C7-C8-C9
3	C	1306	LMT	C4'-C5'-C6'-O6'
11	C	1307	PTY	O4-C1-C6-C5
13	C	1309	HEX	C3-C4-C5-C6
6	A	1107	D10	C2-C3-C4-C5
11	C	1307	PTY	C5-O14-P1-O13
3	A	1111	LMT	C6-C7-C8-C9
3	A	1112	LMT	C11-C10-C9-C8
7	B	1214	FUA	C23-C24-C25-C26
4	A	1106	EDO	O1-C1-C2-O2
11	C	1307	PTY	C31-C32-C33-C34
3	A	1111	LMT	C2-C1-O1'-C1'
3	A	1101	LMT	C3-C4-C5-C6
3	A	1111	LMT	C9-C10-C11-C12
3	A	1101	LMT	C2-C3-C4-C5
3	C	1306	LMT	C2-C3-C4-C5
8	B	1204	PGE	C1-C2-O2-C3
9	B	1208	8K6	C4-C5-C6-C7
3	A	1101	LMT	C1-C2-C3-C4
11	C	1303	PTY	C35-C36-C37-C38
3	A	1111	LMT	C11-C10-C9-C8
9	B	1208	8K6	C5-C6-C7-C8
3	A	1101	LMT	C11-C10-C9-C8
12	C	1308	D12	C4-C5-C6-C7
3	A	1103	LMT	O1'-C1-C2-C3
3	C	1306	LMT	O1'-C1-C2-C3
4	B	1216	EDO	O1-C1-C2-O2
3	C	1305	LMT	C3-C4-C5-C6
3	A	1111	LMT	C7-C8-C9-C10
3	C	1306	LMT	C4-C5-C6-C7
3	A	1112	LMT	C4'-C5'-C6'-O6'
11	C	1307	PTY	C15-C16-C17-C18
3	C	1305	LMT	C9-C10-C11-C12
4	B	1203	EDO	O1-C1-C2-O2
11	C	1303	PTY	C14-C15-C16-C17
12	C	1308	D12	C3-C4-C5-C6
9	B	1208	8K6	C3-C4-C5-C6

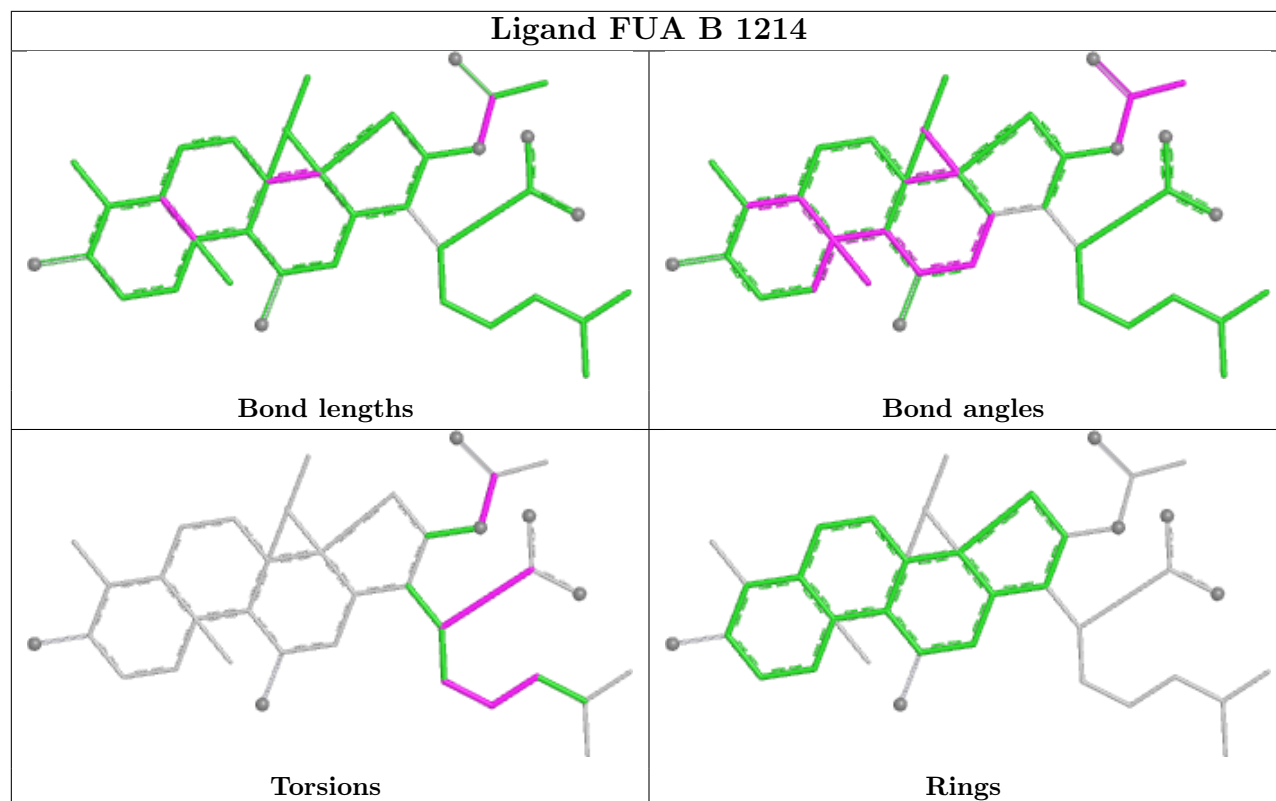
There are no ring outliers.

19 monomers are involved in 72 short contacts:

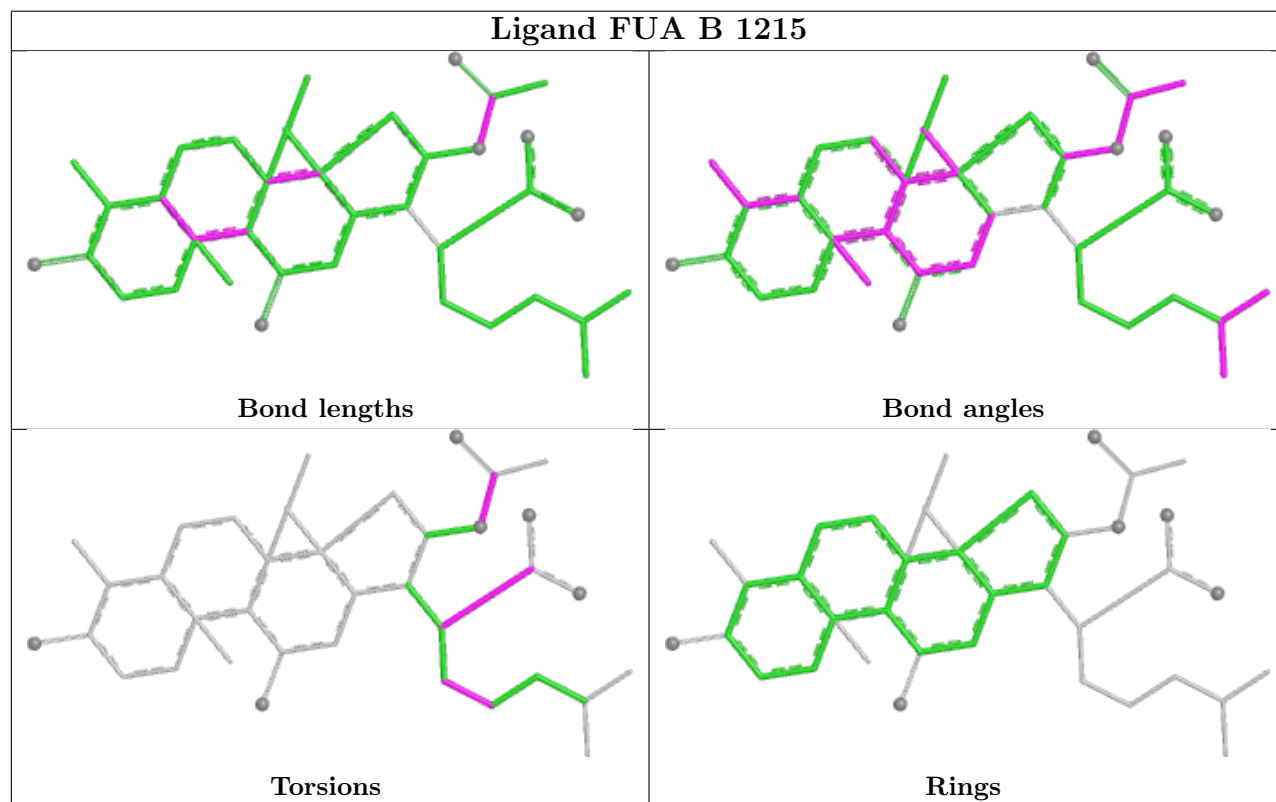
Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	B	1214	FUA	8	0
7	B	1215	FUA	8	0
3	A	1103	LMT	5	0
3	A	1101	LMT	4	0
3	C	1305	LMT	2	0
7	A	1113	FUA	8	0
5	B	1202	GOL	1	0
3	A	1111	LMT	7	0
5	A	1105	GOL	1	0
3	C	1306	LMT	4	0
7	B	1213	FUA	11	0
11	C	1303	PTY	3	0
11	C	1307	PTY	4	0
4	B	1205	EDO	1	0
6	A	1107	D10	1	0
9	B	1208	8K6	3	0
8	B	1204	PGE	1	0
4	B	1206	EDO	1	0
3	A	1112	LMT	2	0

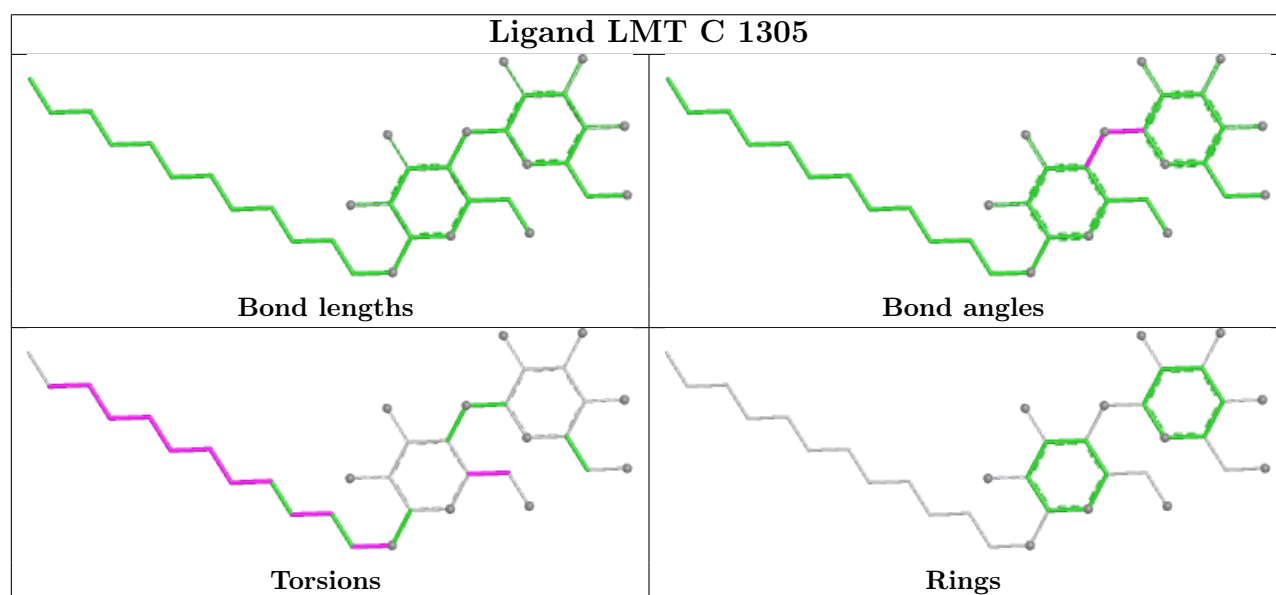
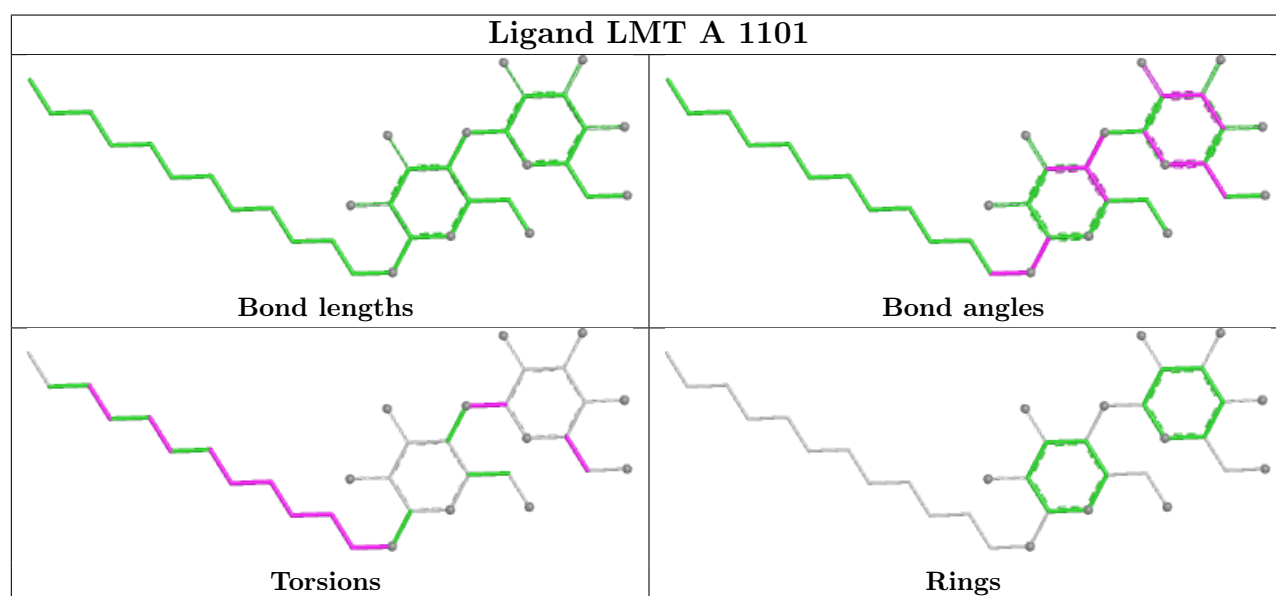
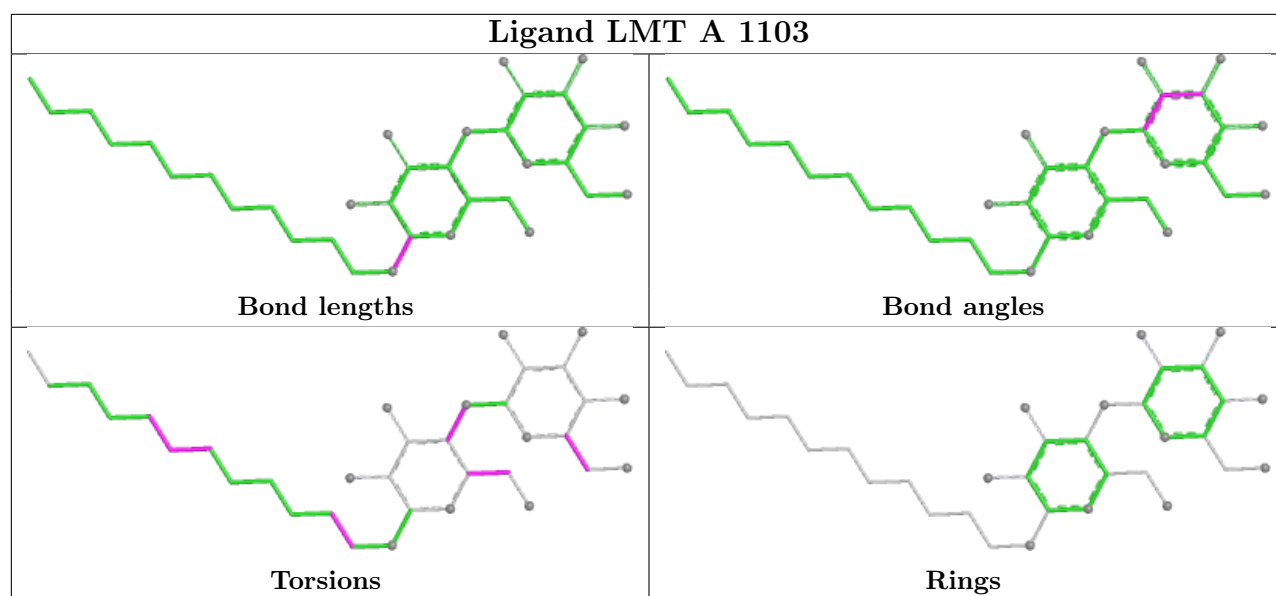
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

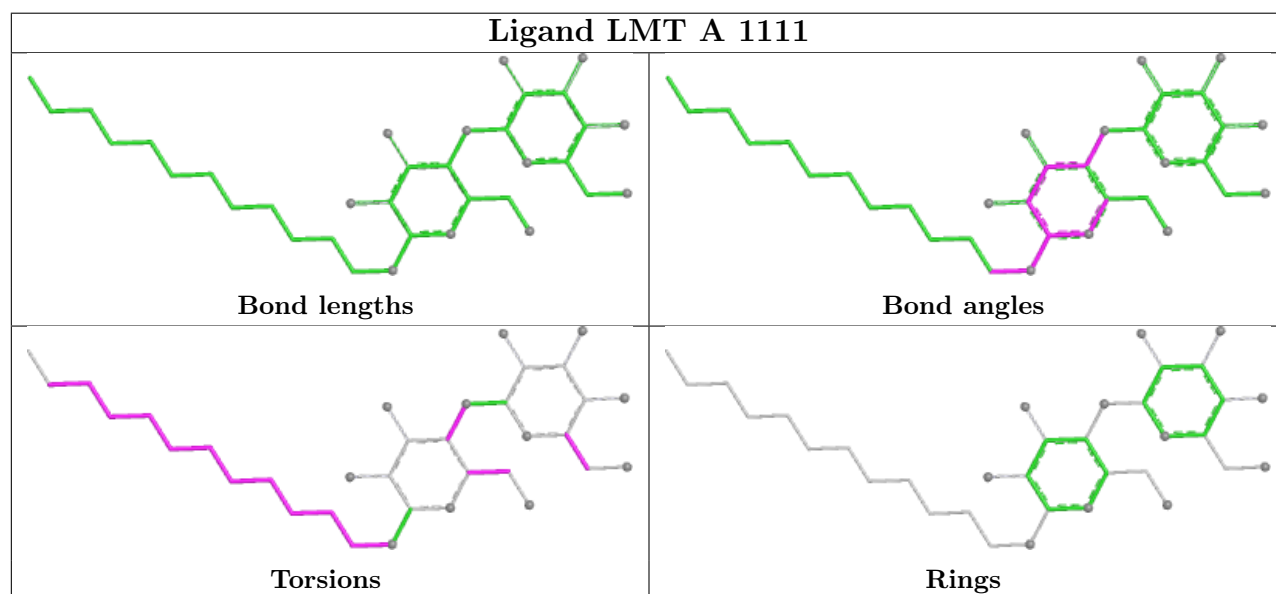
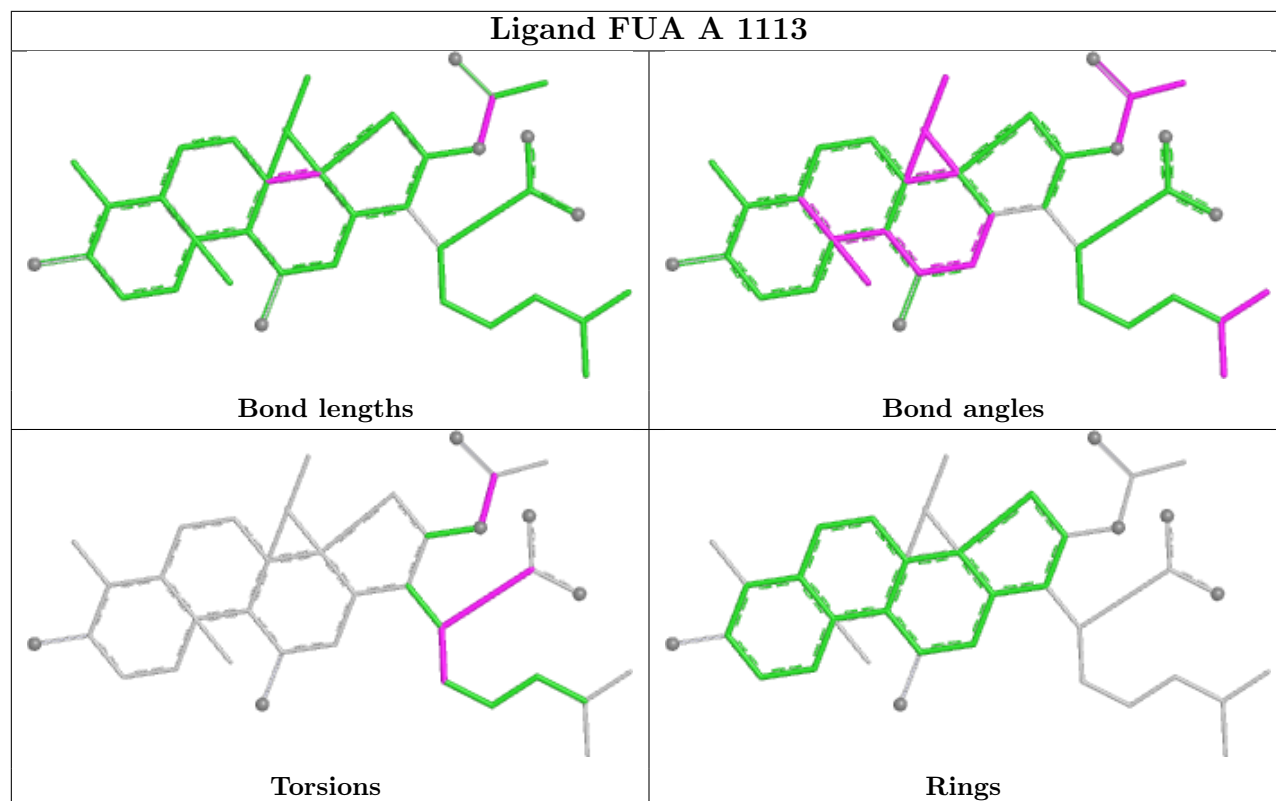
Ligand FUA B 1214

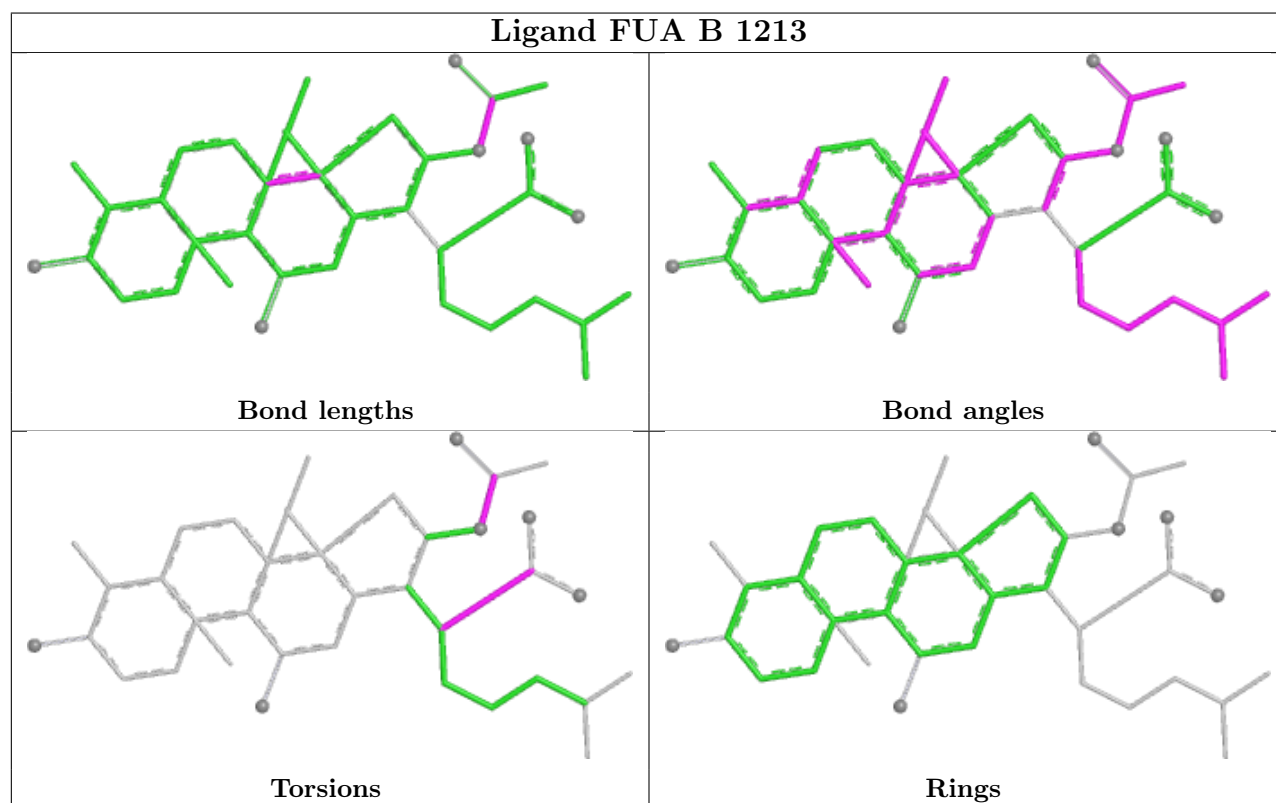
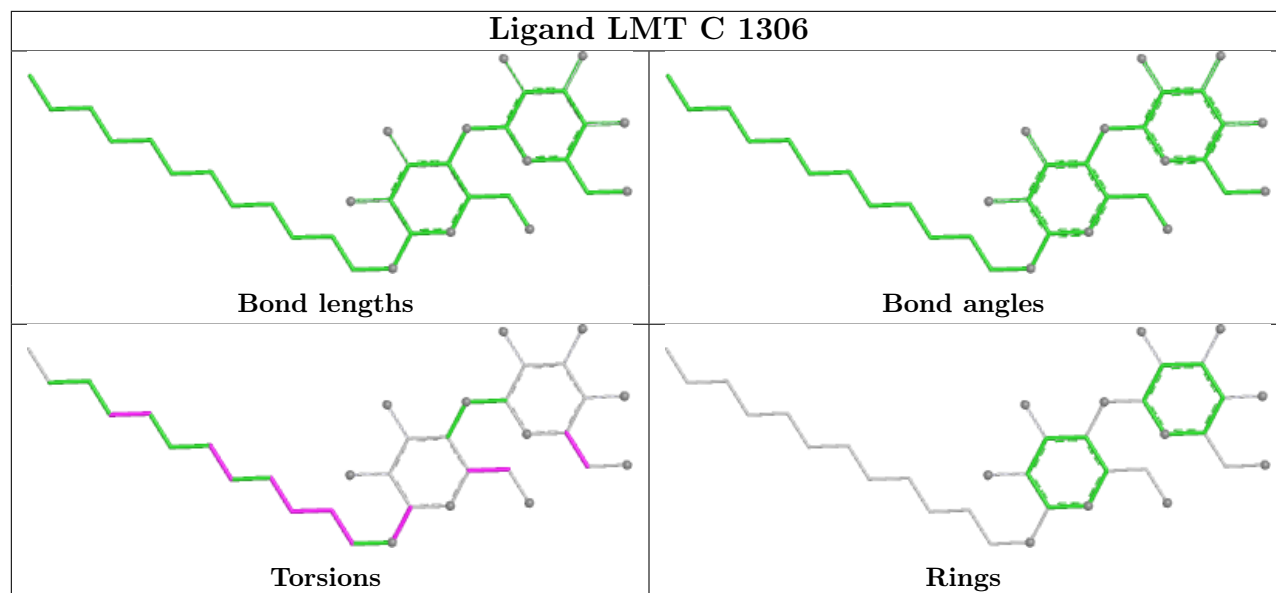


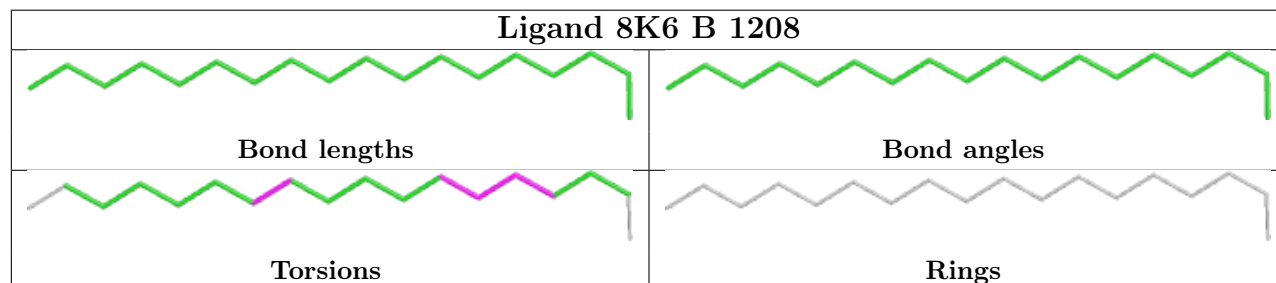
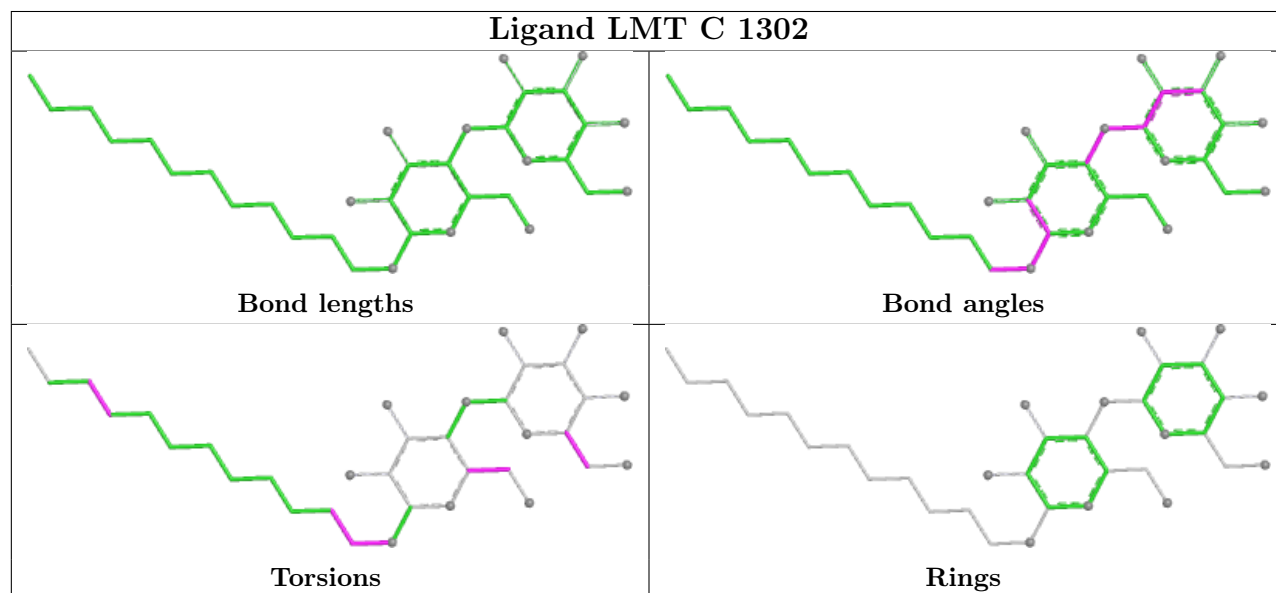
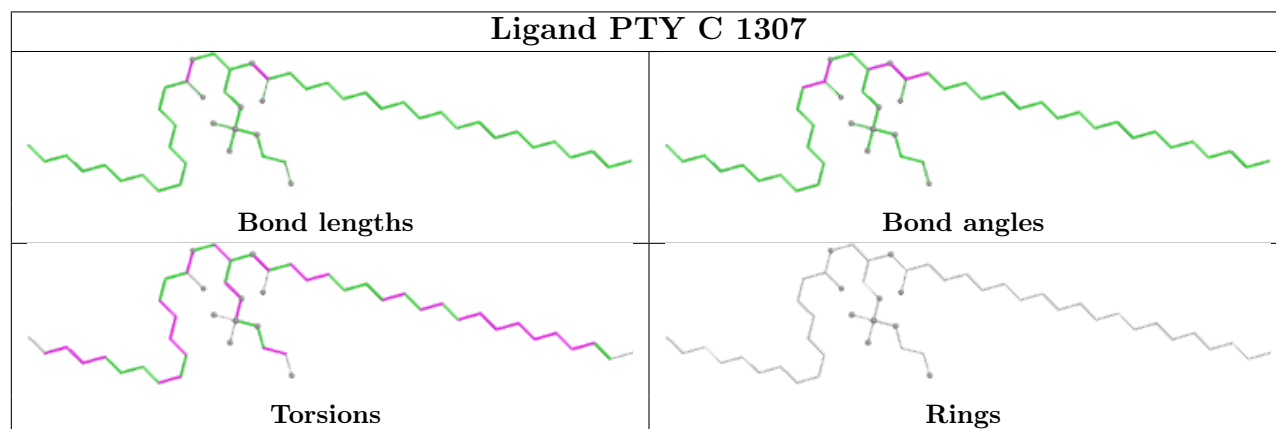
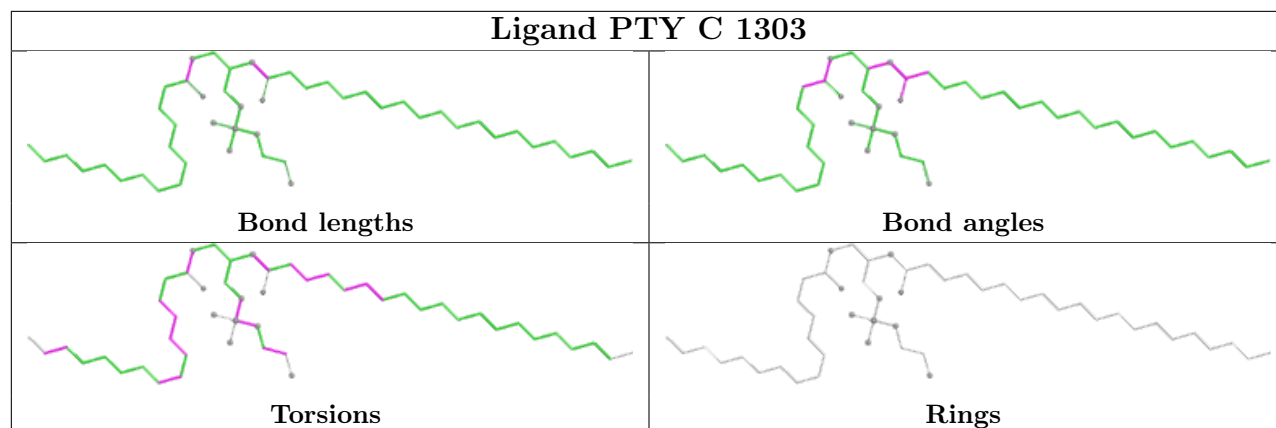
Ligand FUA B 1215

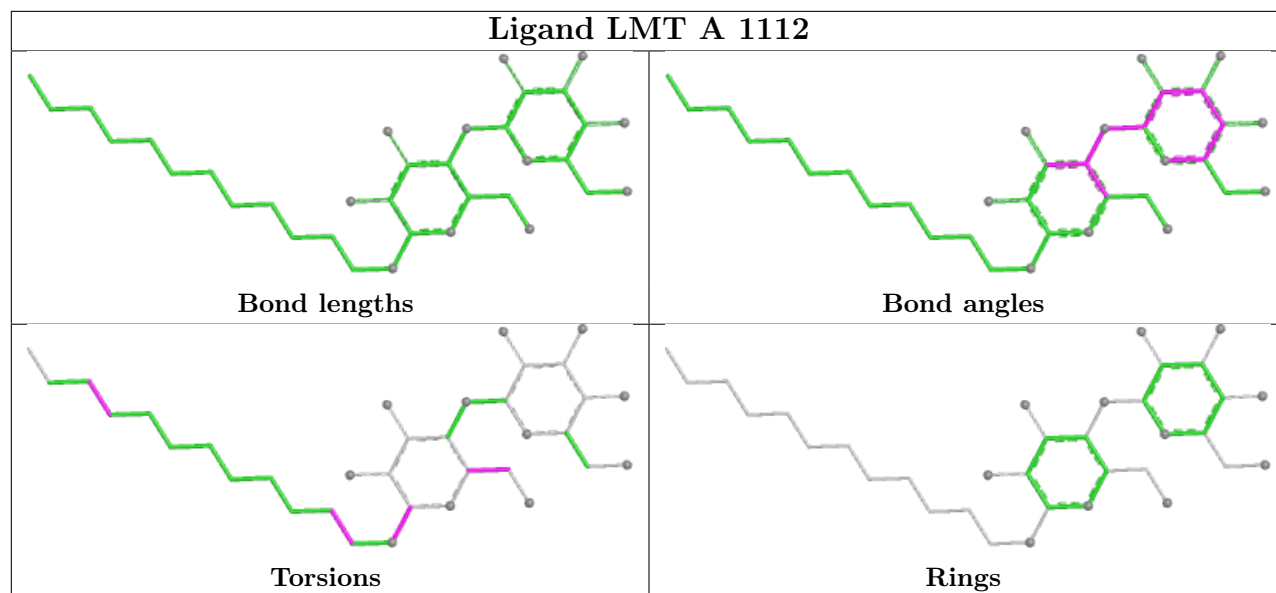












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1033/1057 (97%)	0.20	43 (4%) 40 32	35, 72, 122, 157	0
1	B	1020/1057 (96%)	0.22	42 (4%) 41 32	37, 77, 113, 180	0
1	C	1032/1057 (97%)	0.07	33 (3%) 50 41	36, 69, 109, 144	0
2	D	154/169 (91%)	0.24	4 (2%) 57 48	62, 78, 114, 146	0
2	E	152/169 (89%)	0.52	9 (5%) 28 21	57, 91, 122, 167	0
All	All	3391/3509 (96%)	0.18	131 (3%) 43 34	35, 74, 115, 180	0

All (131) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	E	14	LEU	6.7
1	B	316	PHE	5.2
2	E	15	GLY	4.9
1	C	618	ALA	4.5
1	A	515	TRP	4.4
2	D	135	TYR	4.4
1	B	315	PRO	4.4
1	A	618	ALA	4.1
1	B	664	PHE	4.0
1	C	312	LYS	4.0
1	A	978	THR	3.9
1	A	503	GLY	3.8
1	B	1008	MET	3.7
1	A	982	PHE	3.7
1	B	29	LYS	3.6
1	A	674	LEU	3.6
1	B	635	ALA	3.5
1	C	403	GLY	3.5
1	B	407	ASP	3.4
1	A	406	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	981	ALA	3.4
1	B	662	MET	3.4
1	A	980	LEU	3.3
1	A	301	ASP	3.3
1	B	95	GLU	3.3
1	B	628	PHE	3.3
1	C	617	PHE	3.3
1	B	215	ALA	3.2
1	C	150	THR	3.2
1	C	362	PHE	3.2
1	C	918	PHE	3.2
1	B	1005	THR	3.1
1	A	488	LEU	3.1
1	B	1007	VAL	3.1
1	B	937	LEU	3.0
1	B	619	GLY	3.0
1	C	70	ASN	3.0
1	B	987	MET	3.0
1	A	148	THR	2.9
1	A	617	PHE	2.9
1	C	123	GLN	2.9
1	C	673	GLU	2.9
1	C	404	LEU	2.9
1	B	659	LYS	2.9
1	B	918	PHE	2.9
1	A	802	SER	2.8
1	A	511	GLY	2.8
1	C	174	ASP	2.8
1	C	133	SER	2.8
1	C	51	GLY	2.8
1	B	577	GLN	2.7
1	A	952	LEU	2.7
2	E	57	TRP	2.7
1	B	575	MET	2.7
1	A	868	LEU	2.7
1	C	809	TRP	2.7
1	C	811	TYR	2.7
1	A	972	LEU	2.7
1	B	618	ALA	2.6
1	A	403	GLY	2.6
1	B	178	PHE	2.6
1	A	619	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	918	PHE	2.6
1	B	1004	GLY	2.5
1	B	364	ALA	2.5
1	A	81	ASN	2.5
1	B	615	PHE	2.5
1	C	49	TYR	2.5
1	B	837	THR	2.5
1	B	525	HIS	2.5
1	A	592	ASN	2.5
1	A	711	ASP	2.4
1	C	691	GLY	2.4
1	B	524	THR	2.4
2	E	126	LEU	2.4
1	B	404	LEU	2.4
1	A	500	ILE	2.4
1	B	513	PHE	2.4
1	C	806	SER	2.4
1	A	370	ILE	2.3
2	D	123	ARG	2.3
1	B	990	VAL	2.3
1	A	949	ALA	2.3
2	E	111	ASP	2.3
1	A	672	VAL	2.3
1	B	469	GLN	2.3
2	E	134	LYS	2.3
1	C	253	VAL	2.3
1	C	852	PRO	2.3
1	A	1033	PHE	2.2
1	B	317	PHE	2.2
2	E	150	PHE	2.2
1	B	213	GLN	2.2
1	A	259	ARG	2.2
2	D	13	ASP	2.2
1	A	964	THR	2.2
1	B	921	LEU	2.2
1	A	420	MET	2.2
1	B	552	MET	2.2
1	A	948	PHE	2.2
1	C	850	LYS	2.2
1	C	8	ARG	2.2
1	C	616	GLY	2.2
1	A	371	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	494	ALA	2.2
1	C	670	ALA	2.2
1	C	971	ARG	2.1
1	A	361	ASN	2.1
2	E	84	LEU	2.1
1	C	135	SER	2.1
1	C	849	SER	2.1
1	A	498	LYS	2.1
1	C	510	LYS	2.1
1	A	668	LEU	2.1
1	A	833	PRO	2.1
1	C	776	GLU	2.1
2	E	76	TYR	2.1
1	C	537	SER	2.1
1	B	406	VAL	2.1
1	A	960	LEU	2.1
1	B	936	GLY	2.1
1	B	120	GLN	2.0
1	C	71	GLY	2.0
1	A	681	ASP	2.0
1	B	636	ASP	2.0
1	B	942	ALA	2.0
1	C	790	TYR	2.0
2	D	16	LYS	2.0
1	A	804	PHE	2.0
1	A	303	ALA	2.0
1	B	877	TYR	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,

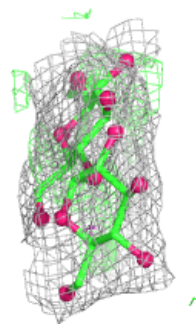
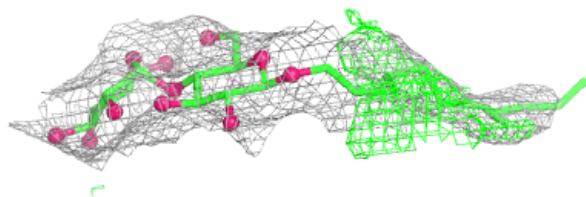
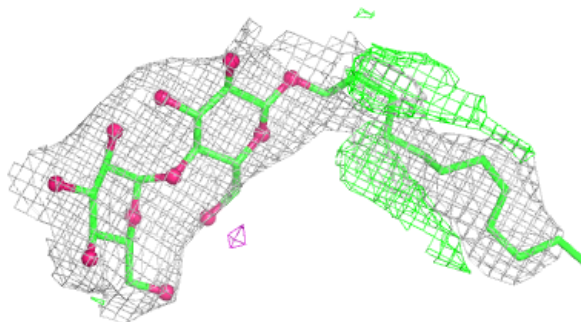
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	EDO	A	1108	4/4	0.56	0.28	111,133,148,148	0
3	LMT	C	1305	35/35	0.66	0.22	102,136,145,147	0
4	EDO	B	1205	4/4	0.70	0.14	94,113,114,115	0
4	EDO	D	202	4/4	0.75	0.28	80,82,83,84	0
10	SO4	B	1212	5/5	0.78	0.11	107,110,115,122	0
4	EDO	A	1110	4/4	0.79	0.12	95,114,135,135	0
7	FUA	B	1214	37/37	0.79	0.22	134,158,168,171	0
4	EDO	C	1304	4/4	0.79	0.32	78,80,81,84	0
7	FUA	B	1215	37/37	0.80	0.29	136,166,177,183	0
4	EDO	B	1201	4/4	0.80	0.33	72,74,75,80	0
11	PTY	C	1307	50/50	0.80	0.30	88,123,167,172	0
13	HEX	C	1309	6/6	0.80	0.28	80,99,112,112	0
6	D10	B	1207	10/10	0.81	0.17	65,88,106,106	0
4	EDO	A	1109	4/4	0.81	0.12	67,87,96,106	0
11	PTY	C	1303	50/50	0.82	0.24	79,107,141,156	0
5	GOL	B	1202	6/6	0.83	0.15	82,86,92,94	0
6	D10	A	1107	10/10	0.83	0.20	88,112,127,131	0
4	EDO	B	1216	4/4	0.83	0.25	112,135,140,140	0
10	SO4	B	1210	5/5	0.84	0.14	113,114,127,128	0
10	SO4	B	1211	5/5	0.84	0.07	121,127,135,137	0
3	LMT	C	1306	35/35	0.84	0.17	109,119,140,140	0
12	D12	C	1308	12/12	0.86	0.25	72,105,126,127	0
3	LMT	A	1103	35/35	0.86	0.15	72,128,151,154	0
7	FUA	B	1213	37/37	0.87	0.19	104,134,156,164	0
3	LMT	A	1112	35/35	0.87	0.17	85,126,147,153	0
3	LMT	A	1101	35/35	0.87	0.15	70,118,148,150	0
10	SO4	C	1310	5/5	0.87	0.16	111,112,115,124	0
4	EDO	B	1203	4/4	0.88	0.20	80,80,90,95	0
4	EDO	C	1301	4/4	0.89	0.23	82,86,87,89	0
9	8K6	B	1208	18/18	0.89	0.28	64,89,102,104	0
3	LMT	C	1302	35/35	0.89	0.15	91,138,155,156	0
4	EDO	A	1106	4/4	0.89	0.15	88,106,114,114	0
3	LMT	A	1111	35/35	0.89	0.14	81,123,137,145	0
10	SO4	B	1209	5/5	0.90	0.16	121,133,135,141	0
4	EDO	A	1104	4/4	0.91	0.17	70,70,73,75	0
7	FUA	A	1113	37/37	0.91	0.20	87,122,131,132	37
4	EDO	A	1102	4/4	0.91	0.18	62,63,64,68	0
5	GOL	A	1105	6/6	0.92	0.21	71,83,89,90	0
8	PGE	B	1204	10/10	0.92	0.15	83,95,105,107	0
4	EDO	B	1206	4/4	0.93	0.12	56,85,98,102	0
4	EDO	D	201	4/4	0.94	0.20	74,75,78,82	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.

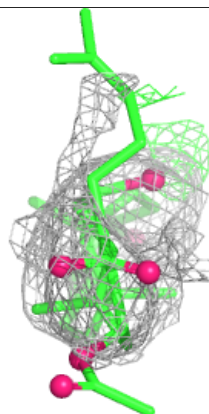
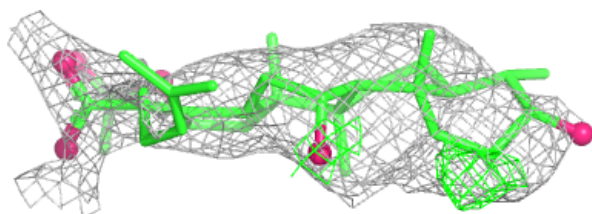
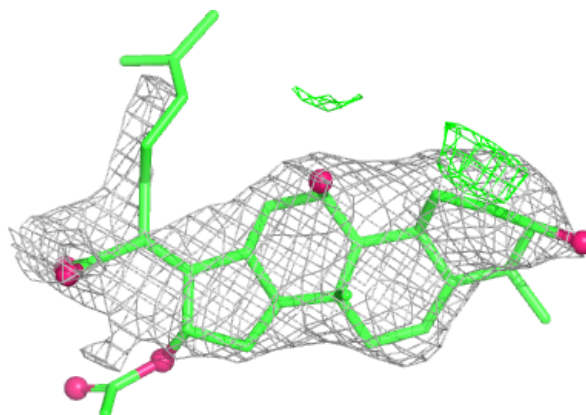
Electron density around LMT C 1305:

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



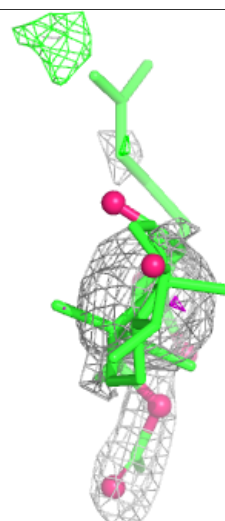
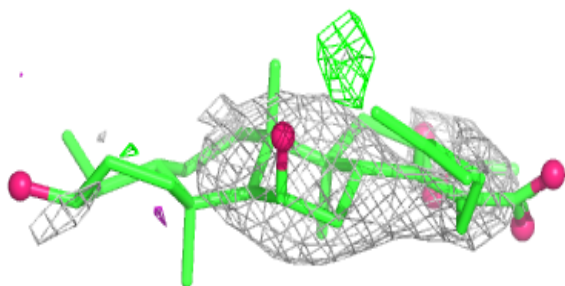
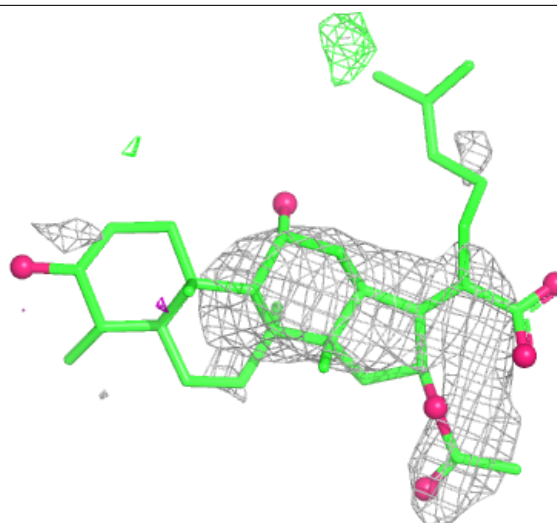
Electron density around FUA B 1214:

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



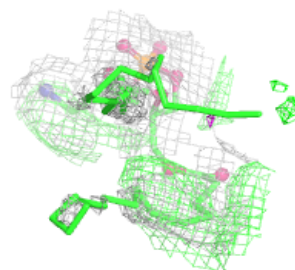
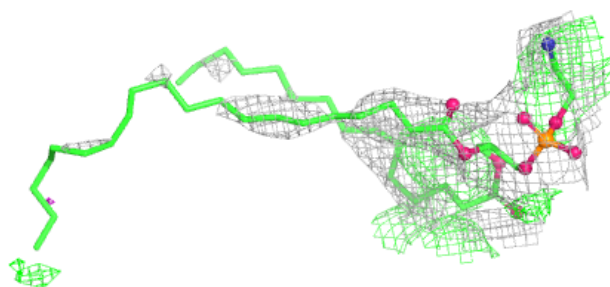
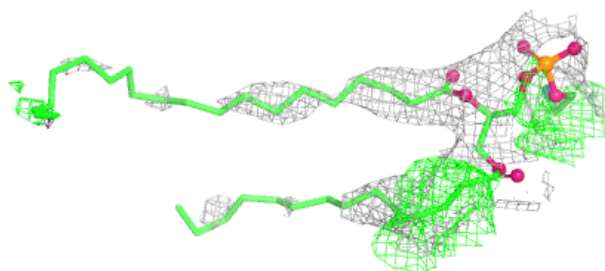
Electron density around FUA B 1215:

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

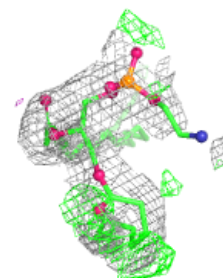
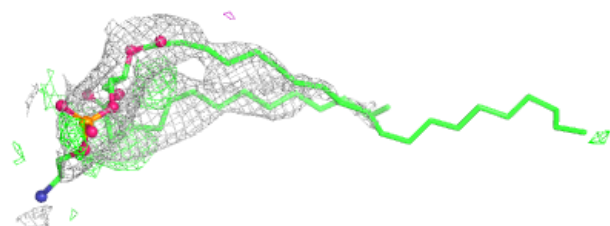
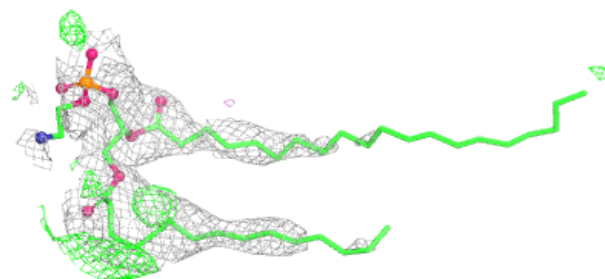


Electron density around PTY C 1307:

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

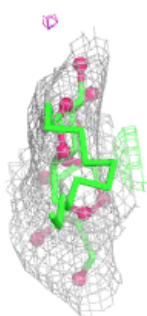
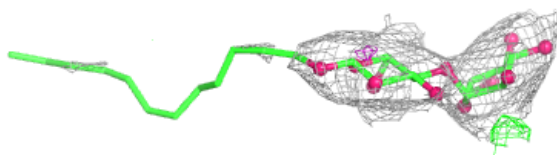
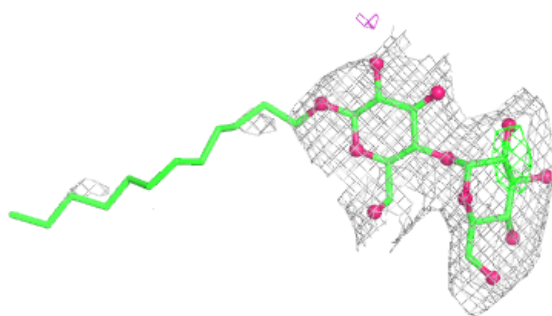
**Electron density around PTY C 1303:**

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

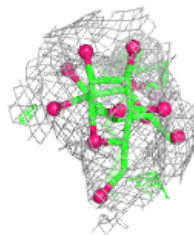
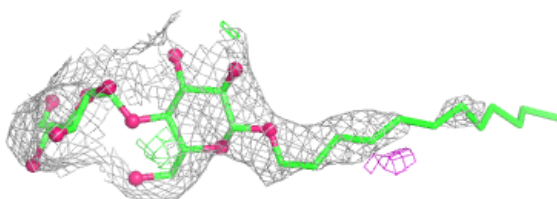
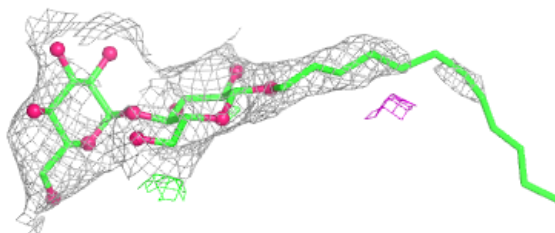


Electron density around LMT C 1306:

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

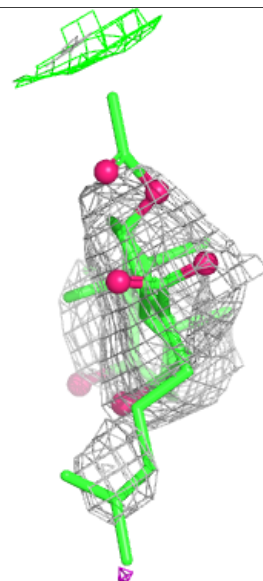
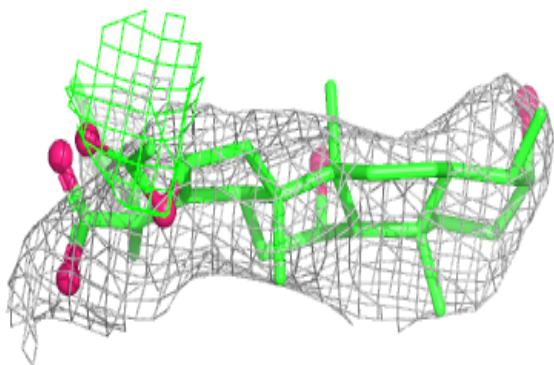
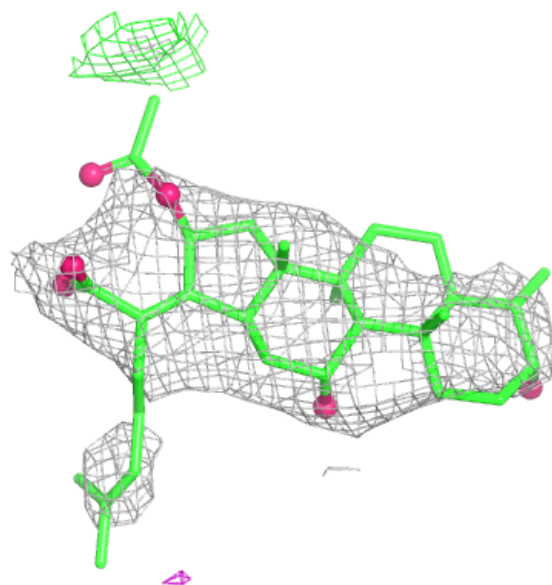
**Electron density around LMT A 1103:**

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



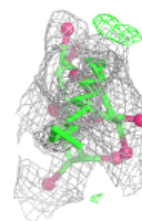
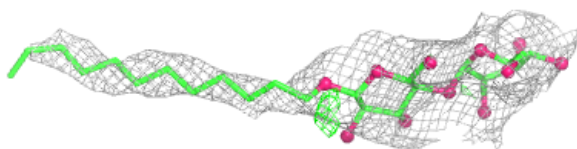
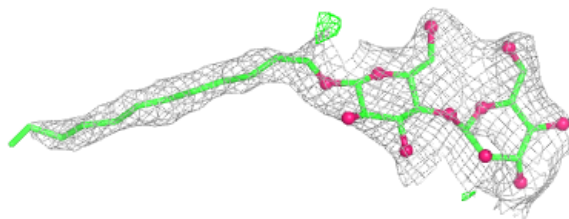
Electron density around FUA B 1213:

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

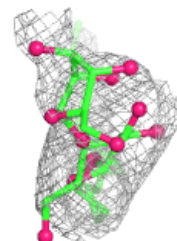
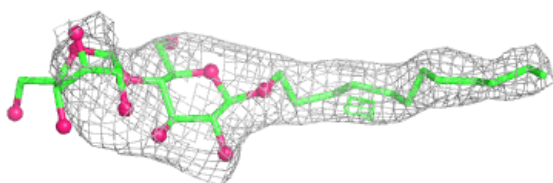


Electron density around LMT A 1112:

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

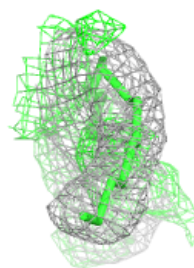
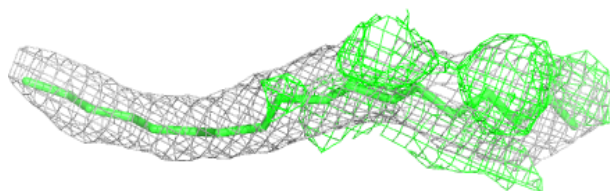
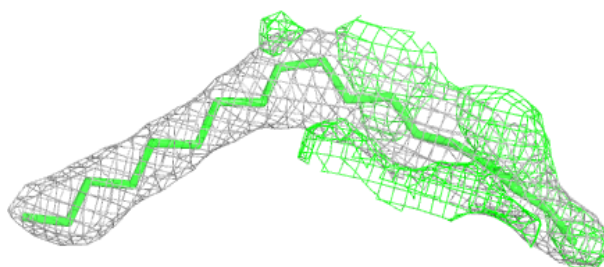
**Electron density around LMT A 1101:**

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

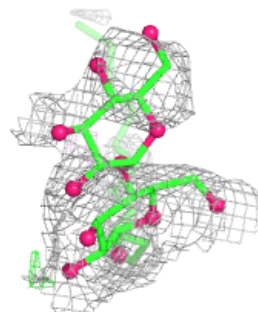
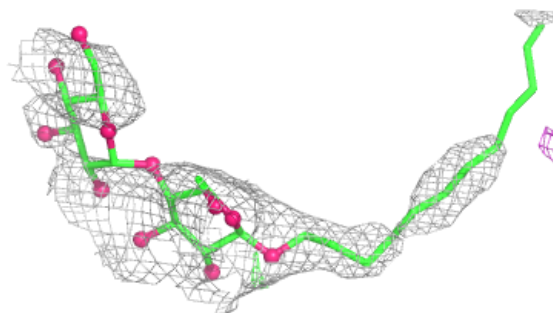


Electron density around 8K6 B 1208:

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

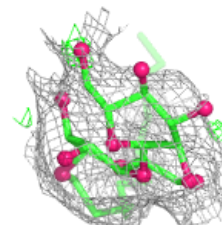
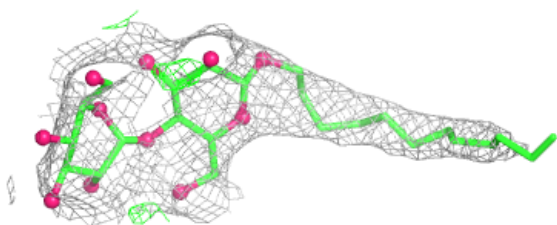
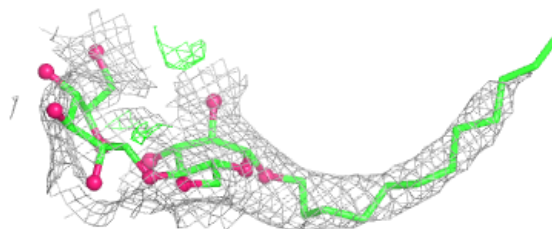
**Electron density around LMT C 1302:**

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

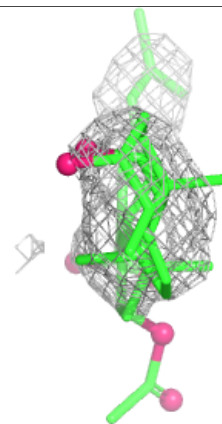
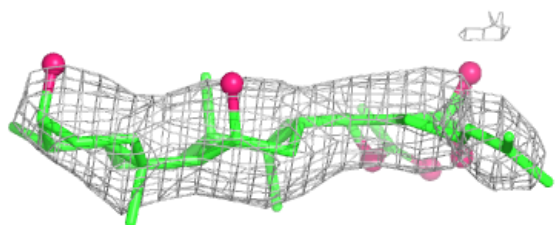
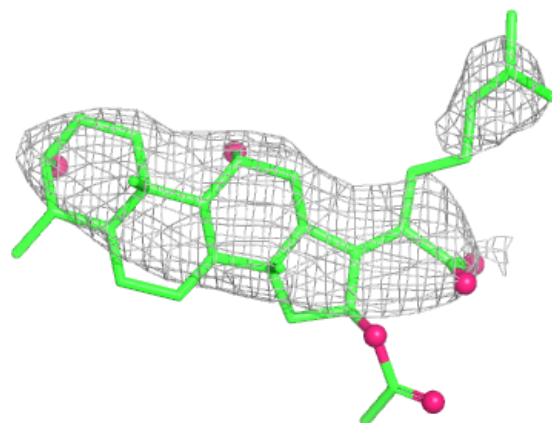


Electron density around LMT A 1111:

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

**Electron density around FUA A 1113:**

$2mF_o-DF_c$ (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.