



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:23 AM UTC

PDB ID : 1P0Y / pdb_00001p0y
Title : Crystal structure of the SET domain of LSM1 bound to MeLysine and AdoHcy
Authors : Trievel, R.C.; Flynn, E.M.; Houtz, R.L.; Hurley, J.H.
Deposited on : 2003-04-11
Resolution : 2.55 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

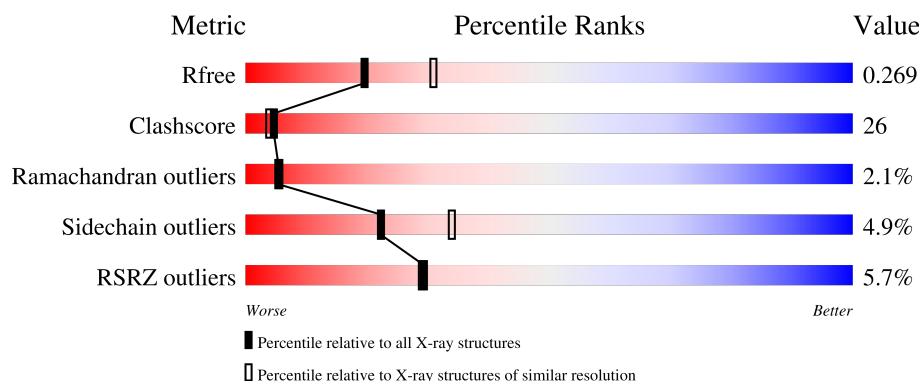
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.55 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1091 (2.54-2.54)
Clashscore	190562	1120 (2.54-2.54)
Ramachandran outliers	187476	1106 (2.54-2.54)
Sidechain outliers	187428	1106 (2.54-2.54)
RSRZ outliers	180081	1091 (2.54-2.54)

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	444	12% 53% 38% 5% .
1	B	444	3% 56% 38% 5% ..
1	C	444	% 59% 34% 6% .

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 11308 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.

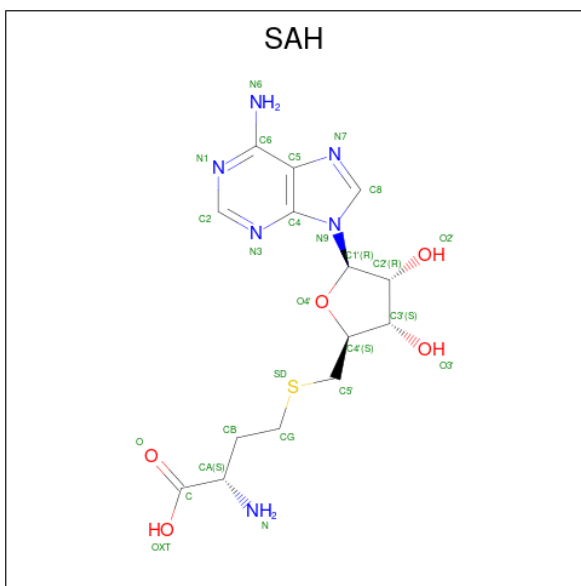
- Molecule 1 is a protein called Ribulose-1,5 bisphosphate carboxylase/oxygenase large subunit N-methyltransferase, chloroplast.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	430	Total	C	N	O	S	0	0	0
			3464	2217	573	667	7			
1	B	441	Total	C	N	O	S	0	0	0
			3549	2275	586	681	7			
1	C	439	Total	C	N	O	S	0	0	0
			3532	2265	583	677	7			

There are 21 discrepancies between the modelled and reference sequences:

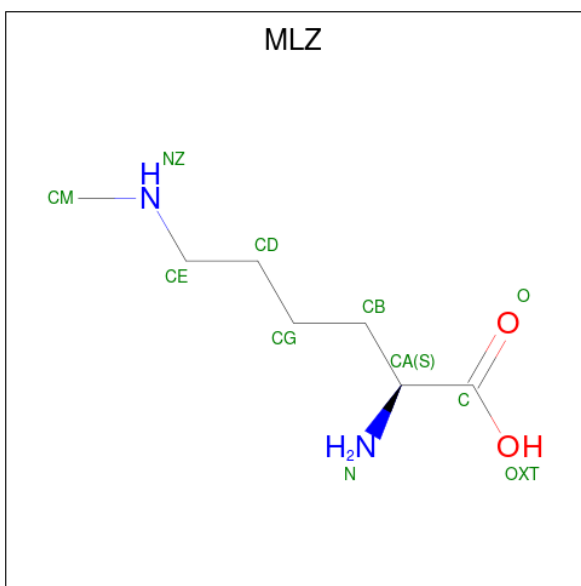
Chain	Residue	Modelled	Actual	Comment	Reference
A	45	MET	-	initiating methionine	UNP Q43088
A	483	GLU	-	engineered mutation	UNP Q43088
A	484	ASN	-	engineered mutation	UNP Q43088
A	485	LEU	-	engineered mutation	UNP Q43088
A	486	TYR	-	engineered mutation	UNP Q43088
A	487	PHE	-	engineered mutation	UNP Q43088
A	488	GLN	-	engineered mutation	UNP Q43088
B	45	MET	-	initiating methionine	UNP Q43088
B	483	GLU	-	engineered mutation	UNP Q43088
B	484	ASN	-	engineered mutation	UNP Q43088
B	485	LEU	-	engineered mutation	UNP Q43088
B	486	TYR	-	engineered mutation	UNP Q43088
B	487	PHE	-	engineered mutation	UNP Q43088
B	488	GLN	-	engineered mutation	UNP Q43088
C	45	MET	-	initiating methionine	UNP Q43088
C	483	GLU	-	engineered mutation	UNP Q43088
C	484	ASN	-	engineered mutation	UNP Q43088
C	485	LEU	-	engineered mutation	UNP Q43088
C	486	TYR	-	engineered mutation	UNP Q43088
C	487	PHE	-	engineered mutation	UNP Q43088
C	488	GLN	-	engineered mutation	UNP Q43088

- Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (CCD ID: SAH) (formula: $C_{14}H_{20}N_6O_5S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	B	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
2	C	1	Total	C	N	O	S	0	0
			26	14	6	5	1		

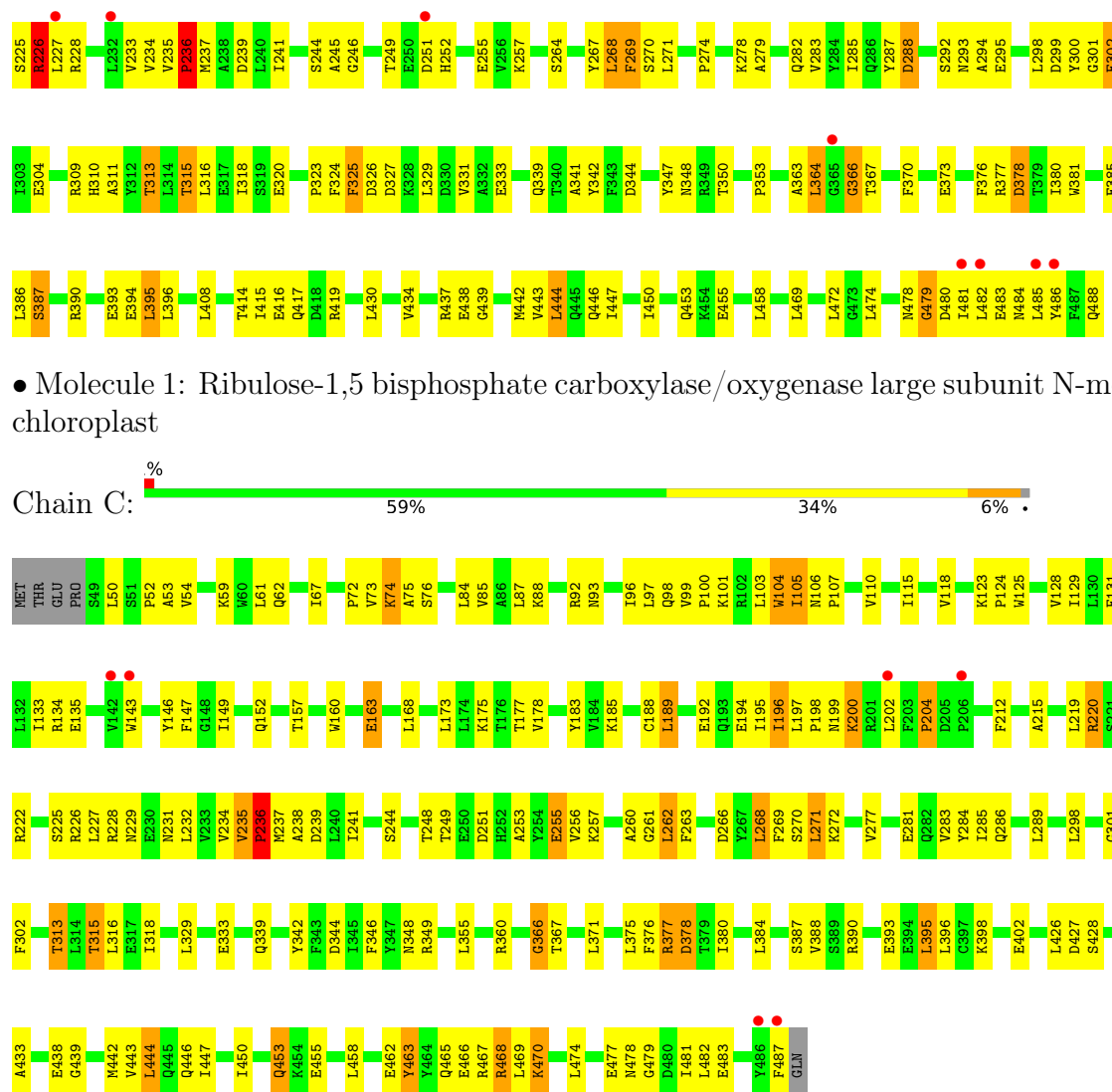
- Molecule 3 is N-METHYL-LYSINE (CCD ID: MLZ) (formula: $C_7H_{16}N_2O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	C	1	Total C N O 11 7 2 2	0	0
3	C	1	Total C N O 11 7 2 2	0	0
3	C	1	Total C N O 11 7 2 2	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	221	Total O 221 221	0	0
4	B	210	Total O 210 210	0	0
4	C	221	Total O 221 221	0	0



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	130.41Å 153.19Å 266.32Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.65 – 2.55 29.65 – 2.55	Depositor EDS
% Data completeness (in resolution range)	85.1 (29.65-2.55) 85.1 (29.65-2.55)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.82 (at 2.54Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.228 , 0.269 0.228 , 0.269	Depositor DCC
R_{free} test set	3761 reflections (4.49%)	wwPDB-VP
Wilson B-factor (Å ²)	51.8	Xtriage
Anisotropy	0.825	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 49.1	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	0.95	EDS
Total number of atoms	11308	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.74% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MLZ, SAH

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	0.46	0/3534	0.92	6/4793 (0.1%)
1	B	0.47	0/3625	0.92	9/4917 (0.2%)
1	C	0.44	0/3607	0.91	10/4894 (0.2%)
All	All	0.46	0/10766	0.92	25/14604 (0.2%)

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

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

There are no bond length outliers.

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	253	ALA	N-CA-C	-8.69	102.58	113.01
1	C	235	VAL	CA-C-N	8.64	130.65	119.84
1	C	235	VAL	C-N-CA	8.64	130.65	119.84
1	A	267	TYR	N-CA-C	-8.28	96.51	108.60
1	C	249	THR	N-CA-C	-6.81	98.83	109.72
1	A	189	LEU	N-CA-C	-6.70	104.59	112.89
1	B	269	PHE	N-CA-C	-6.33	96.84	107.99
1	C	302	PHE	N-CA-C	6.20	117.65	108.60
1	B	235	VAL	CA-C-N	6.09	127.46	119.84
1	B	235	VAL	C-N-CA	6.09	127.46	119.84
1	C	463	TYR	N-CA-C	5.85	117.44	110.19
1	B	302	PHE	N-CA-C	5.85	117.14	108.60
1	B	268	LEU	N-CA-C	5.83	118.45	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	485	LEU	N-CA-C	-5.54	107.78	114.75
1	C	366	GLY	N-CA-C	5.53	119.33	112.64
1	A	464	TYR	N-CA-C	5.51	117.72	111.11
1	A	62	GLN	N-CA-C	-5.38	105.07	111.69
1	C	189	LEU	N-CA-C	-5.38	105.58	111.82
1	B	235	VAL	N-CA-C	5.31	113.41	108.15
1	C	196	ILE	N-CA-C	5.29	115.50	110.53
1	B	189	LEU	N-CA-C	-5.20	106.19	112.54
1	C	236	PRO	N-CA-C	5.12	123.03	112.47
1	A	452	GLU	N-CA-C	-5.08	105.83	111.36
1	B	104	TRP	CA-CB-CG	5.06	123.22	113.60
1	C	220	ARG	N-CA-C	5.06	118.56	112.38

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	267	TYR	Sidechain

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	3464	0	3432	215	0
1	B	3549	0	3509	175	0
1	C	3532	0	3493	182	0
2	A	26	0	19	0	0
2	B	26	0	19	1	0
2	C	26	0	19	1	0
3	C	33	0	45	5	0
4	A	221	0	0	21	0
4	B	210	0	0	14	0
4	C	221	0	0	23	0
All	All	11308	0	10536	548	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 26.

All (548) 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:B:395:LEU:HD22	1:C:469:LEU:HD12	1.42	1.01
1:A:97:LEU:HD22	1:A:237:MET:HG3	1.42	0.98
1:A:98:GLN:HB3	1:A:268:LEU:HG	1.48	0.95
1:B:367:THR:HA	4:B:803:HOH:O	1.65	0.95
1:C:97:LEU:HD22	1:C:237:MET:HE3	1.48	0.94
1:C:74:LYS:HG2	1:C:87:LEU:HD21	1.51	0.92
1:C:470:LYS:HE2	1:C:470:LYS:HA	1.53	0.90
1:A:226:ARG:HH11	1:A:252:HIS:H	1.21	0.85
1:A:241:ILE:HD12	1:A:271:LEU:HD21	1.57	0.84
1:B:439:GLY:HA2	1:B:442:MET:HE3	1.59	0.84
1:A:254:TYR:HB3	1:A:271:LEU:HD13	1.60	0.84
1:A:173:LEU:O	1:A:177:THR:HG23	1.79	0.83
1:B:199:ASN:HB3	1:B:202:LEU:HD13	1.61	0.82
1:B:173:LEU:O	1:B:177:THR:HG23	1.80	0.82
1:A:199:ASN:HB3	1:A:202:LEU:HD13	1.61	0.82
1:B:176:THR:HG21	1:C:481:ILE:HD12	1.64	0.80
1:A:472:LEU:HD13	1:A:474:LEU:HD21	1.65	0.78
4:A:802:HOH:O	1:C:315:THR:HG22	1.81	0.78
1:A:103:LEU:HG	4:A:948:HOH:O	1.81	0.78
1:A:439:GLY:HA2	1:A:442:MET:HE3	1.67	0.77
1:A:226:ARG:HH11	1:A:252:HIS:N	1.83	0.77
1:A:226:ARG:NH1	1:A:250:GLU:HG2	2.00	0.76
1:A:395:LEU:HD22	1:B:469:LEU:HD12	1.66	0.76
1:A:465:GLN:HB3	1:C:395:LEU:HD11	1.66	0.76
1:A:250:GLU:HG2	1:A:251:ASP:H	1.49	0.76
1:A:315:THR:HG22	4:A:804:HOH:O	1.86	0.76
1:C:104:TRP:HH2	1:C:269:PHE:H	1.34	0.75
1:B:92:ARG:HH11	1:B:92:ARG:HG2	1.52	0.75
1:C:199:ASN:HB3	1:C:202:LEU:HD13	1.69	0.74
1:A:187:GLU:O	1:A:191:LEU:HG	1.88	0.74
1:C:67:ILE:HD11	1:C:237:MET:SD	2.27	0.74
1:B:84:LEU:HD12	1:B:241:ILE:HD11	1.70	0.74
1:C:99:VAL:O	1:C:104:TRP:HH2	1.70	0.73
1:C:241:ILE:HD12	1:C:271:LEU:HD21	1.71	0.72
1:B:84:LEU:HD12	1:B:241:ILE:CD1	2.19	0.72
1:A:124:PRO:O	1:A:128:VAL:HG23	1.88	0.72
1:B:107:PRO:O	1:B:110:VAL:HG22	1.88	0.72
1:A:226:ARG:HD2	1:A:252:HIS:H	1.53	0.72
1:A:98:GLN:HG2	1:A:270:SER:HA	1.70	0.72
1:A:74:LYS:HB3	1:A:87:LEU:HD21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:96:ILE:HD13	1:C:283:VAL:HG11	1.72	0.71
1:C:237:MET:N	4:C:998:HOH:O	2.18	0.71
1:A:73:VAL:CG2	1:A:84:LEU:HB3	2.21	0.71
1:A:109:ALA:HB2	4:A:911:HOH:O	1.89	0.71
1:A:481:ILE:O	1:A:485:LEU:HD23	1.91	0.71
1:B:78:VAL:HG11	1:B:282:GLN:HE22	1.55	0.71
1:A:97:LEU:HD11	1:A:238:ALA:HB2	1.73	0.70
1:C:220:ARG:HA	4:C:970:HOH:O	1.91	0.70
1:A:469:LEU:HD12	1:C:395:LEU:HD22	1.73	0.70
1:A:301:GLY:HA3	4:A:803:HOH:O	1.91	0.70
1:C:479:GLY:O	1:C:483:GLU:HG2	1.92	0.70
1:A:96:ILE:HD11	1:A:273:SER:HB2	1.74	0.69
1:C:149:ILE:HG22	4:C:904:HOH:O	1.91	0.69
1:B:342:TYR:CZ	1:C:479:GLY:HA3	2.27	0.68
1:B:395:LEU:CD2	1:C:469:LEU:HD12	2.23	0.68
1:A:149:ILE:HG22	4:A:997:HOH:O	1.93	0.68
1:B:241:ILE:HG21	1:B:285:ILE:HG23	1.74	0.67
1:C:231:ASN:HB3	4:C:1008:HOH:O	1.94	0.67
1:A:97:LEU:HD22	1:A:237:MET:CG	2.20	0.66
1:B:226:ARG:O	1:B:226:ARG:HG2	1.94	0.66
1:A:227:LEU:HD21	1:A:256:VAL:HG13	1.78	0.66
1:C:99:VAL:O	1:C:104:TRP:CH2	2.48	0.66
1:C:298:LEU:HD23	1:C:298:LEU:O	1.95	0.65
1:C:173:LEU:O	1:C:177:THR:HG23	1.96	0.65
1:A:227:LEU:HD11	1:A:256:VAL:HG22	1.79	0.65
1:A:250:GLU:CG	1:A:251:ASP:H	2.09	0.65
1:A:99:VAL:O	1:A:104:TRP:HH2	1.78	0.65
1:C:390:ARG:HG2	1:C:390:ARG:HH11	1.62	0.65
1:A:192:GLU:HA	1:A:196:ILE:HD12	1.79	0.65
1:A:105:ILE:HG22	1:A:105:ILE:O	1.96	0.64
1:B:315:THR:HG22	4:C:1000:HOH:O	1.97	0.64
1:C:146:TYR:CE1	1:C:236:PRO:HA	2.32	0.64
1:C:463:TYR:O	1:C:467:ARG:HG3	1.98	0.64
1:C:468:ARG:HH11	1:C:468:ARG:HB3	1.63	0.64
1:A:228:ARG:HA	1:A:228:ARG:NE	2.13	0.64
1:C:107:PRO:O	1:C:110:VAL:HG22	1.98	0.64
1:C:438:GLU:CD	1:C:442:MET:HE2	2.22	0.64
1:A:410:GLY:HA3	4:A:834:HOH:O	1.98	0.64
1:C:202:LEU:HD12	1:C:202:LEU:H	1.62	0.64
1:B:329:LEU:O	1:B:333:GLU:HG3	1.97	0.63
1:B:101:LYS:HA	1:B:104:TRP:CD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:LEU:HB2	1:A:198:PRO:HD3	1.81	0.63
1:A:376:PHE:C	1:A:378:ASP:H	2.07	0.63
1:B:97:LEU:HD22	1:B:237:MET:HE3	1.81	0.63
1:B:228:ARG:HA	4:B:813:HOH:O	1.99	0.63
1:C:73:VAL:HG21	1:C:84:LEU:HB3	1.80	0.63
1:C:222:ARG:HD3	1:C:239:ASP:OD2	1.99	0.62
1:A:103:LEU:HA	1:A:143:TRP:CH2	2.35	0.62
1:A:250:GLU:HG2	1:A:251:ASP:N	2.14	0.62
1:B:78:VAL:HG11	1:B:282:GLN:NE2	2.14	0.62
1:A:129:ILE:HG23	1:A:215:ALA:HB3	1.81	0.62
1:B:99:VAL:O	1:B:104:TRP:HH2	1.83	0.61
1:A:59:LYS:HA	1:A:62:GLN:OE1	2.00	0.61
1:B:179:SER:OG	1:C:482:LEU:HD11	1.99	0.61
1:B:226:ARG:HG3	1:B:226:ARG:HH11	1.66	0.61
1:A:241:ILE:HD12	1:A:271:LEU:CD2	2.27	0.61
1:A:408:LEU:HD21	1:A:444:LEU:HB3	1.82	0.61
1:A:163:GLU:CD	1:A:163:GLU:H	2.09	0.61
1:B:483:GLU:HA	1:B:486:TYR:HD2	1.66	0.61
1:C:98:GLN:HE21	1:C:270:SER:HB2	1.65	0.61
1:A:73:VAL:HG21	1:A:84:LEU:HB3	1.82	0.60
1:A:222:ARG:NH1	1:A:239:ASP:OD2	2.31	0.60
1:B:99:VAL:O	1:B:104:TRP:CH2	2.54	0.60
1:A:101:LYS:HA	1:A:104:TRP:CD2	2.36	0.60
1:A:225:SER:C	1:A:227:LEU:H	2.07	0.60
1:B:394:GLU:HB2	1:B:458:LEU:HD21	1.83	0.60
1:C:97:LEU:HB2	1:C:237:MET:CE	2.32	0.60
1:C:188:CYS:HB3	1:C:212:PHE:CD2	2.36	0.60
1:A:84:LEU:HD12	1:A:241:ILE:CG1	2.31	0.60
1:B:157:THR:OG1	1:B:177:THR:HG21	2.00	0.60
1:B:222:ARG:NH1	1:B:239:ASP:CG	2.60	0.60
1:B:376:PHE:C	1:B:378:ASP:H	2.10	0.59
1:C:98:GLN:HE22	1:C:257:LYS:HD2	1.67	0.59
1:A:103:LEU:HA	1:A:143:TRP:HH2	1.67	0.59
1:A:157:THR:OG1	1:A:177:THR:HG21	2.02	0.59
1:A:222:ARG:HA	3:C:900:MLZ:HZ	1.68	0.59
1:C:104:TRP:NE1	4:C:903:HOH:O	2.29	0.59
1:B:103:LEU:O	1:B:143:TRP:CZ3	2.56	0.59
1:A:126:LEU:HD22	1:A:191:LEU:HD11	1.84	0.58
1:A:222:ARG:HD3	1:A:239:ASP:OD2	2.03	0.58
1:C:157:THR:OG1	1:C:177:THR:HG21	2.02	0.58
1:C:470:LYS:HA	1:C:470:LYS:CE	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:GLU:HA	1:A:196:ILE:HB	1.85	0.58
1:A:228:ARG:HA	1:A:228:ARG:HE	1.69	0.58
1:B:227:LEU:HD22	1:B:255:GLU:OE1	2.02	0.58
1:A:99:VAL:HG12	1:A:104:TRP:HZ3	1.68	0.58
1:A:150:LEU:HD13	1:A:218:ILE:HD12	1.84	0.58
1:A:438:GLU:CD	1:A:442:MET:HE2	2.28	0.58
1:B:104:TRP:HH2	1:B:269:PHE:H	1.49	0.58
1:C:271:LEU:HD12	1:C:272:LYS:N	2.17	0.58
1:C:244:SER:HB2	1:C:284:TYR:CD2	2.39	0.58
1:C:376:PHE:C	1:C:378:ASP:H	2.11	0.58
1:B:177:THR:HG22	1:B:298:LEU:HD13	1.86	0.58
1:C:74:LYS:HD2	1:C:75:ALA:O	2.03	0.58
1:C:468:ARG:HH11	1:C:468:ARG:CB	2.16	0.58
1:A:376:PHE:O	1:A:378:ASP:N	2.37	0.58
1:B:483:GLU:HA	1:B:486:TYR:CD2	2.38	0.58
1:C:124:PRO:O	1:C:128:VAL:HG23	2.04	0.57
1:A:105:ILE:HB	1:A:234:VAL:HB	1.86	0.57
1:A:479:GLY:HA3	1:C:342:TYR:CZ	2.39	0.57
1:A:234:VAL:HA	4:A:839:HOH:O	2.05	0.57
1:B:92:ARG:O	1:B:93:ASN:HB2	2.05	0.57
1:B:228:ARG:HD2	1:B:257:LYS:HD2	1.86	0.57
1:B:67:ILE:HD11	1:B:237:MET:SD	2.44	0.57
1:C:98:GLN:HE21	1:C:270:SER:CB	2.18	0.57
1:B:115:ILE:HG22	1:B:202:LEU:HD23	1.86	0.57
1:C:446:GLN:O	1:C:450:ILE:HG13	2.04	0.57
1:A:202:LEU:H	1:A:202:LEU:HD12	1.70	0.56
1:C:277:VAL:HG13	1:C:281:GLU:HB2	1.87	0.56
1:A:101:LYS:HA	1:A:104:TRP:CE2	2.39	0.56
1:C:97:LEU:CD2	1:C:237:MET:HE3	2.29	0.56
1:A:73:VAL:HG11	1:A:96:ILE:HG22	1.87	0.56
1:A:298:LEU:HD23	1:A:298:LEU:O	2.05	0.56
1:B:104:TRP:CH2	1:B:269:PHE:HB2	2.41	0.56
1:C:398:LYS:O	1:C:402:GLU:HG2	2.05	0.56
1:A:102:ARG:HB3	4:A:948:HOH:O	2.05	0.56
1:B:174:LEU:O	1:B:178:VAL:HG23	2.04	0.56
1:B:395:LEU:HD11	1:C:465:GLN:HB3	1.86	0.56
1:A:200:LYS:HA	4:A:862:HOH:O	2.05	0.56
1:A:222:ARG:HB3	1:A:239:ASP:OD1	2.05	0.56
1:A:455:GLU:O	1:A:458:LEU:HB2	2.06	0.56
1:B:202:LEU:O	1:B:204:PRO:HD3	2.06	0.56
1:C:260:ALA:O	1:C:262:LEU:HD22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:101:LYS:HA	1:C:104:TRP:CD2	2.41	0.56
1:A:482:LEU:HD12	1:A:482:LEU:H	1.70	0.56
1:A:113:SER:HB3	4:A:817:HOH:O	2.06	0.55
1:B:225:SER:O	1:B:226:ARG:C	2.48	0.55
1:A:227:LEU:HD23	1:A:230:GLU:HB2	1.88	0.55
1:A:104:TRP:CH2	1:A:269:PHE:HB2	2.42	0.55
1:B:78:VAL:CG1	1:B:282:GLN:HE22	2.18	0.55
1:B:78:VAL:HG12	1:B:80:GLU:H	1.72	0.55
1:C:226:ARG:HD2	4:C:1105:HOH:O	2.07	0.55
1:C:466:GLU:HB2	4:C:932:HOH:O	2.05	0.55
1:A:226:ARG:NH1	1:A:252:HIS:H	1.97	0.55
1:C:194:GLU:C	1:C:195:ILE:HD12	2.31	0.55
1:A:313:THR:HB	1:A:344:ASP:OD1	2.07	0.55
1:B:96:ILE:CD1	1:B:283:VAL:HG11	2.37	0.55
1:C:346:PHE:HB2	1:C:349:ARG:HD2	1.89	0.55
1:A:219:LEU:HD11	1:A:232:LEU:HD22	1.89	0.55
1:B:380:ILE:HG23	1:B:381:TRP:N	2.22	0.55
1:C:481:ILE:HD11	4:C:1098:HOH:O	2.06	0.55
1:A:320:GLU:HA	1:A:325:PHE:CD1	2.42	0.55
1:B:202:LEU:HD12	1:B:202:LEU:N	2.21	0.55
1:A:394:GLU:HB2	1:A:458:LEU:HD21	1.89	0.54
1:C:366:GLY:N	4:C:1002:HOH:O	2.39	0.54
1:A:100:PRO:HB2	4:A:948:HOH:O	2.07	0.54
1:C:103:LEU:HA	1:C:143:TRP:CH2	2.43	0.54
1:A:84:LEU:HD12	1:A:241:ILE:HG12	1.89	0.54
1:A:99:VAL:O	1:A:268:LEU:HA	2.07	0.54
1:A:99:VAL:O	1:A:104:TRP:CH2	2.59	0.54
1:A:267:TYR:O	1:A:268:LEU:HD13	2.06	0.54
1:A:363:ALA:HB1	1:A:395:LEU:HD13	1.90	0.54
1:C:97:LEU:C	1:C:97:LEU:HD12	2.33	0.54
1:C:105:ILE:HB	1:C:234:VAL:HB	1.88	0.54
1:B:438:GLU:CD	1:B:442:MET:HE2	2.33	0.54
1:A:163:GLU:HA	1:A:166:GLN:NE2	2.23	0.54
1:C:376:PHE:O	1:C:378:ASP:N	2.41	0.54
1:C:192:GLU:HA	1:C:196:ILE:HD12	1.89	0.54
1:C:202:LEU:HD12	1:C:202:LEU:N	2.21	0.54
1:C:235:VAL:HG12	4:C:998:HOH:O	2.08	0.54
1:A:316:LEU:HD11	1:A:355:LEU:HD12	1.90	0.54
1:B:264:SER:HA	1:B:267:TYR:CZ	2.43	0.54
1:B:316:LEU:CD2	1:C:474:LEU:HD22	2.38	0.54
1:A:192:GLU:O	1:A:197:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:LEU:HD12	1:B:202:LEU:H	1.72	0.54
1:B:472:LEU:HD13	1:B:474:LEU:HD21	1.89	0.54
1:A:202:LEU:HD12	1:A:202:LEU:N	2.22	0.53
1:B:110:VAL:HG12	1:B:131:PHE:CG	2.43	0.53
1:A:98:GLN:HE21	1:A:270:SER:HB2	1.73	0.53
1:B:278:LYS:NZ	4:B:996:HOH:O	2.41	0.53
1:C:96:ILE:CD1	1:C:283:VAL:HG11	2.37	0.53
1:B:92:ARG:HG2	1:B:92:ARG:NH1	2.20	0.53
1:C:61:LEU:HB3	1:C:67:ILE:HG12	1.90	0.53
1:B:222:ARG:NH2	2:B:801:SAH:O	2.42	0.53
1:C:367:THR:HB	4:C:952:HOH:O	2.07	0.53
1:C:390:ARG:HG2	1:C:390:ARG:NH1	2.24	0.53
1:A:131:PHE:CE2	1:A:135:GLU:HG3	2.44	0.53
1:A:227:LEU:HD11	1:A:256:VAL:HG13	1.89	0.53
1:B:313:THR:HG21	1:C:478:ASN:CG	2.34	0.53
1:A:100:PRO:HB3	1:A:266:ASP:OD1	2.09	0.53
1:C:185:LYS:O	1:C:189:LEU:HG	2.09	0.53
1:A:367:THR:HG21	4:A:977:HOH:O	2.08	0.53
1:B:185:LYS:O	1:B:189:LEU:HG	2.09	0.53
1:B:484:ASN:HB2	4:B:825:HOH:O	2.07	0.53
1:B:103:LEU:O	1:B:143:TRP:HZ3	1.92	0.53
1:A:315:THR:HB	1:A:342:TYR:CD2	2.43	0.52
1:B:264:SER:HA	1:B:267:TYR:CE2	2.44	0.52
1:A:78:VAL:HG11	1:A:282:GLN:NE2	2.24	0.52
1:B:287:TYR:O	1:B:288:ASP:HB2	2.07	0.52
1:A:96:ILE:HD13	1:A:283:VAL:HG11	1.92	0.52
1:A:225:SER:C	1:A:227:LEU:N	2.66	0.52
1:A:479:GLY:HA3	1:C:342:TYR:CE2	2.44	0.52
1:C:453:GLN:HG2	4:C:956:HOH:O	2.09	0.52
1:A:371:LEU:O	1:A:380:ILE:HD13	2.09	0.52
1:B:97:LEU:HB2	1:B:237:MET:CE	2.39	0.52
1:A:61:LEU:C	1:A:67:ILE:HG22	2.34	0.52
1:A:354:GLY:HA2	1:A:357:PRO:CG	2.40	0.52
1:A:55:GLN:HB3	4:A:889:HOH:O	2.08	0.52
1:C:73:VAL:HG22	1:C:74:LYS:N	2.25	0.52
1:B:376:PHE:O	1:B:378:ASP:N	2.42	0.52
1:B:293:ASN:ND2	1:B:309:ARG:HB2	2.24	0.52
1:A:288:ASP:CG	1:A:291:LYS:HG3	2.35	0.52
1:A:390:ARG:HH11	1:A:390:ARG:HG2	1.75	0.52
1:C:97:LEU:HB2	1:C:237:MET:HE1	1.91	0.51
1:A:482:LEU:HD12	1:A:482:LEU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:129:ILE:O	1:C:133:ILE:HG13	2.10	0.51
1:C:188:CYS:HB3	1:C:212:PHE:CE2	2.46	0.51
1:A:143:TRP:NE1	4:A:801:HOH:O	2.26	0.51
1:B:386:LEU:O	1:B:387:SER:HB3	2.11	0.51
1:C:462:GLU:O	1:C:462:GLU:HG3	2.10	0.51
1:B:227:LEU:CD1	1:B:233:VAL:HG21	2.40	0.51
1:A:395:LEU:CD2	1:B:469:LEU:HD12	2.40	0.51
1:C:439:GLY:HA2	1:C:442:MET:HE3	1.93	0.51
1:A:226:ARG:HD2	1:A:252:HIS:N	2.24	0.50
1:B:146:TYR:CE1	1:B:236:PRO:HA	2.46	0.50
1:C:73:VAL:HG23	1:C:85:VAL:C	2.37	0.50
1:B:227:LEU:HD21	1:B:269:PHE:HE1	1.76	0.50
1:A:167:GLU:HG3	1:A:437:ARG:NH1	2.26	0.50
1:A:226:ARG:NH1	1:A:252:HIS:N	2.58	0.50
1:A:302:PHE:CD1	1:A:302:PHE:C	2.89	0.50
1:C:329:LEU:O	1:C:333:GLU:HG3	2.11	0.50
1:B:54:VAL:HG22	1:B:149:ILE:HD12	1.94	0.50
1:B:415:ILE:HG22	1:B:419:ARG:HD2	1.93	0.50
1:C:99:VAL:HG12	1:C:104:TRP:HZ3	1.77	0.50
1:C:118:VAL:HG22	4:C:969:HOH:O	2.12	0.50
1:C:222:ARG:NH2	2:C:802:SAH:O	2.40	0.50
1:A:241:ILE:HG22	1:A:285:ILE:HG12	1.94	0.50
1:B:350:THR:HG23	4:B:846:HOH:O	2.11	0.50
1:B:414:THR:HG23	1:B:417:GLN:OE1	2.10	0.50
1:A:146:TYR:CE1	1:A:236:PRO:HA	2.47	0.49
1:A:202:LEU:O	1:A:204:PRO:HD3	2.11	0.49
1:B:100:PRO:HA	1:B:267:TYR:O	2.10	0.49
1:B:157:THR:OG1	1:B:177:THR:CG2	2.59	0.49
1:B:195:ILE:HD12	1:B:195:ILE:N	2.26	0.49
1:B:313:THR:HB	1:B:344:ASP:OD1	2.11	0.49
1:A:298:LEU:HD23	1:A:298:LEU:C	2.38	0.49
1:B:61:LEU:HB3	1:B:67:ILE:HG12	1.95	0.49
1:B:92:ARG:HG3	1:B:274:PRO:O	2.12	0.49
1:B:227:LEU:HD21	1:B:269:PHE:CE1	2.47	0.49
1:A:129:ILE:O	1:A:133:ILE:HG13	2.12	0.49
1:B:187:GLU:O	1:B:191:LEU:HG	2.12	0.49
1:B:300:TYR:O	1:B:302:PHE:N	2.43	0.49
1:B:478:ASN:ND2	1:B:481:ILE:HG13	2.27	0.49
1:C:97:LEU:HD22	1:C:237:MET:CE	2.32	0.49
1:A:316:LEU:CD2	1:B:474:LEU:HD22	2.42	0.49
1:C:348:ASN:H	1:C:446:GLN:HE22	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:379:THR:HA	4:A:955:HOH:O	2.12	0.49
1:C:438:GLU:HG2	1:C:442:MET:HE2	1.94	0.49
1:C:103:LEU:O	1:C:143:TRP:CZ3	2.65	0.49
1:C:104:TRP:CH2	1:C:269:PHE:HB2	2.47	0.49
1:C:178:VAL:HB	4:C:1017:HOH:O	2.12	0.49
1:B:363:ALA:O	1:B:364:LEU:C	2.55	0.49
1:B:192:GLU:O	1:B:197:LEU:HG	2.13	0.49
1:A:376:PHE:C	1:A:378:ASP:N	2.71	0.49
1:B:408:LEU:HD21	1:B:444:LEU:HB3	1.95	0.49
1:C:115:ILE:HG22	1:C:202:LEU:HD23	1.95	0.49
1:C:157:THR:OG1	1:C:177:THR:CG2	2.60	0.48
1:A:61:LEU:O	1:A:67:ILE:HG22	2.13	0.48
1:C:157:THR:HA	1:C:160:TRP:CD1	2.48	0.48
1:B:51:SER:N	1:B:52:PRO:HD2	2.27	0.48
1:B:484:ASN:N	1:B:484:ASN:HD22	2.11	0.48
1:A:342:TYR:CZ	1:B:479:GLY:HA3	2.49	0.48
1:C:97:LEU:HB2	1:C:237:MET:HE3	1.95	0.48
1:B:167:GLU:HG3	1:B:437:ARG:NH1	2.29	0.48
1:A:252:HIS:HB2	1:A:254:TYR:O	2.13	0.48
1:A:293:ASN:ND2	1:A:309:ARG:HB2	2.28	0.48
1:C:61:LEU:CD1	1:C:237:MET:HB2	2.44	0.48
1:B:50:LEU:C	1:B:52:PRO:HD2	2.38	0.48
1:B:197:LEU:HB2	1:B:198:PRO:HD3	1.94	0.48
1:B:206:PRO:HA	4:B:913:HOH:O	2.13	0.48
1:A:303:ILE:HG21	1:A:436:ILE:HD11	1.94	0.48
1:B:96:ILE:HD11	1:B:283:VAL:HG11	1.95	0.48
1:C:286:GLN:HG2	1:C:289:LEU:HG	1.94	0.48
1:B:155:ASP:HB2	1:B:301:GLY:HA3	1.95	0.48
1:A:107:PRO:O	1:A:110:VAL:HG22	2.14	0.47
1:A:222:ARG:HH11	1:A:239:ASP:CG	2.19	0.47
1:A:182:GLU:O	1:A:185:LYS:HB3	2.13	0.47
1:B:455:GLU:O	1:B:458:LEU:HB2	2.14	0.47
1:A:354:GLY:HA2	1:A:357:PRO:HG2	1.96	0.47
1:B:294:ALA:HB2	4:B:870:HOH:O	2.14	0.47
1:B:364:LEU:HD12	1:B:364:LEU:HA	1.72	0.47
1:C:241:ILE:HG21	1:C:285:ILE:HG23	1.95	0.47
1:A:51:SER:HB3	1:A:54:VAL:CG2	2.44	0.47
1:A:137:SER:HB3	4:A:876:HOH:O	2.15	0.47
1:A:91:SER:O	1:A:94:ASP:HB2	2.14	0.47
1:A:160:TRP:CD1	1:A:429:ARG:HD3	2.49	0.47
1:A:237:MET:C	1:A:239:ASP:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:LYS:O	1:C:268:LEU:HD12	2.15	0.47
1:A:96:ILE:HD11	1:A:273:SER:CB	2.44	0.47
1:A:227:LEU:CD1	1:A:256:VAL:HG22	2.42	0.47
1:A:252:HIS:C	1:A:254:TYR:H	2.23	0.47
1:B:129:ILE:O	1:B:133:ILE:HG13	2.13	0.47
1:B:318:ILE:O	1:B:339:GLN:NE2	2.44	0.47
1:C:110:VAL:HG12	1:C:131:PHE:CG	2.50	0.47
1:B:287:TYR:HA	3:C:901:MLZ:HB2	1.95	0.47
1:A:218:ILE:HG23	1:A:222:ARG:HD2	1.96	0.47
1:A:238:ALA:HB1	1:A:271:LEU:HD22	1.97	0.47
1:B:194:GLU:C	1:B:195:ILE:HD12	2.40	0.47
1:B:327:ASP:O	1:B:331:VAL:HG23	2.14	0.47
1:A:100:PRO:C	1:A:102:ARG:N	2.71	0.46
1:B:202:LEU:H	1:B:202:LEU:CD1	2.27	0.46
1:C:271:LEU:HD12	1:C:271:LEU:C	2.40	0.46
1:B:163:GLU:O	1:B:166:GLN:HB2	2.16	0.46
1:C:52:PRO:HD2	4:C:923:HOH:O	2.14	0.46
1:C:468:ARG:HH11	1:C:468:ARG:CG	2.27	0.46
1:A:157:THR:OG1	1:A:177:THR:CG2	2.63	0.46
1:B:244:SER:C	1:B:246:GLY:H	2.22	0.46
1:C:202:LEU:H	1:C:202:LEU:CD1	2.28	0.46
1:A:84:LEU:HD12	1:A:241:ILE:HG13	1.98	0.46
1:B:393:GLU:O	1:B:396:LEU:HG	2.15	0.46
1:A:123:LYS:HG2	1:B:488:GLN:HA	1.97	0.46
1:B:348:ASN:H	1:B:446:GLN:HE22	1.63	0.46
1:A:202:LEU:HD11	4:A:878:HOH:O	2.14	0.46
1:B:430:LEU:O	1:B:434:VAL:HG23	2.16	0.46
1:C:53:ALA:C	1:C:149:ILE:HD11	2.41	0.46
1:C:277:VAL:CG1	1:C:281:GLU:HB2	2.45	0.46
1:A:196:ILE:HA	1:A:203:PHE:CD1	2.51	0.46
1:A:247:VAL:HG21	1:A:285:ILE:HA	1.98	0.46
1:A:315:THR:HB	1:A:342:TYR:CE2	2.51	0.46
1:B:97:LEU:HB2	1:B:237:MET:HE1	1.97	0.46
1:B:136:ARG:HD2	1:B:214:TRP:CZ3	2.50	0.46
1:A:62:GLN:HA	1:A:67:ILE:HG23	1.97	0.46
1:A:110:VAL:HG12	1:A:131:PHE:CG	2.51	0.46
1:B:241:ILE:HG13	1:B:271:LEU:HD21	1.97	0.46
1:C:371:LEU:O	1:C:380:ILE:HD12	2.15	0.46
1:A:98:GLN:HA	1:A:269:PHE:O	2.16	0.45
1:B:446:GLN:O	1:B:450:ILE:HG13	2.17	0.45
1:C:92:ARG:O	1:C:93:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:443:VAL:O	1:C:447:ILE:HG13	2.17	0.45
1:B:101:LYS:C	1:B:103:LEU:N	2.75	0.45
1:B:376:PHE:C	1:B:378:ASP:N	2.74	0.45
1:B:386:LEU:HB3	4:B:974:HOH:O	2.16	0.45
1:B:105:ILE:HB	1:B:234:VAL:HB	1.98	0.45
1:B:255:GLU:HA	1:B:268:LEU:O	2.17	0.45
1:C:360:ARG:HD2	1:C:384:LEU:O	2.17	0.45
1:A:188:CYS:HB3	1:A:212:PHE:CD1	2.52	0.45
1:A:58:TRP:HA	1:A:58:TRP:CE3	2.51	0.45
1:C:301:GLY:HA3	4:C:909:HOH:O	2.16	0.45
1:A:252:HIS:C	1:A:254:TYR:N	2.72	0.45
1:B:143:TRP:CD1	1:B:143:TRP:H	2.34	0.45
1:C:225:SER:C	1:C:227:LEU:H	2.23	0.45
1:C:235:VAL:C	4:C:998:HOH:O	2.59	0.45
1:C:477:GLU:HG2	4:C:948:HOH:O	2.17	0.45
1:B:245:ALA:HB2	1:B:304:GLU:OE2	2.17	0.45
1:C:163:GLU:CD	1:C:163:GLU:H	2.25	0.45
1:A:386:LEU:O	1:A:387:SER:CB	2.65	0.45
1:C:152:GLN:HG2	4:C:931:HOH:O	2.16	0.45
1:B:101:LYS:HA	1:B:104:TRP:CE2	2.52	0.45
1:B:159:TYR:OH	1:B:217:GLY:HA3	2.17	0.45
1:C:118:VAL:HG11	1:C:199:ASN:ND2	2.32	0.45
1:C:248:THR:C	4:C:971:HOH:O	2.59	0.45
1:B:104:TRP:HH2	1:B:269:PHE:N	2.14	0.45
1:C:237:MET:HE2	1:C:237:MET:HB3	1.73	0.45
1:A:163:GLU:HA	1:A:166:GLN:HE21	1.81	0.44
1:B:249:THR:HB	1:B:251:ASP:OD1	2.17	0.44
1:A:428:SER:O	1:A:432:ILE:HG13	2.16	0.44
1:A:167:GLU:HG3	1:A:437:ARG:HH12	1.82	0.44
1:A:474:LEU:HD22	1:C:316:LEU:CD2	2.47	0.44
1:B:292:SER:OG	1:B:295:GLU:HG3	2.17	0.44
1:C:318:ILE:O	1:C:339:GLN:NE2	2.44	0.44
1:A:167:GLU:HG2	1:A:430:LEU:CD1	2.48	0.44
1:B:97:LEU:C	1:B:97:LEU:HD12	2.42	0.44
1:A:145:HIS:HA	4:A:959:HOH:O	2.18	0.44
1:A:214:TRP:O	1:A:218:ILE:HG12	2.18	0.44
1:A:235:VAL:O	1:A:239:ASP:HB2	2.17	0.44
1:A:243:HIS:HE1	1:A:286:GLN:NE2	2.16	0.44
1:A:188:CYS:HB3	1:A:212:PHE:CE1	2.53	0.44
1:A:202:LEU:H	1:A:202:LEU:CD1	2.30	0.44
1:A:225:SER:O	1:A:227:LEU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:SER:C	1:B:246:GLY:N	2.74	0.44
1:C:73:VAL:CG2	1:C:84:LEU:HB3	2.47	0.44
1:C:103:LEU:HA	1:C:143:TRP:HH2	1.81	0.44
1:C:168:LEU:HD21	1:C:433:ALA:HA	2.00	0.44
1:C:236:PRO:N	4:C:998:HOH:O	2.50	0.44
1:C:438:GLU:CG	1:C:442:MET:HE2	2.48	0.44
1:B:88:LYS:HA	1:B:279:ALA:HB2	2.00	0.44
1:B:98:GLN:HE21	1:B:270:SER:HB2	1.83	0.44
1:C:74:LYS:HG2	1:C:87:LEU:CD2	2.35	0.44
1:C:106:ASN:HB2	1:C:107:PRO:CD	2.48	0.44
1:C:222:ARG:HA	3:C:902:MLZ:HZ	1.83	0.44
1:A:183:TYR:CE2	1:A:187:GLU:HG3	2.52	0.43
1:B:310:HIS:CD2	1:B:439:GLY:HA3	2.53	0.43
1:C:106:ASN:HB2	1:C:107:PRO:HD2	1.99	0.43
1:A:244:SER:HB2	1:A:284:TYR:CG	2.52	0.43
1:B:386:LEU:O	1:B:387:SER:CB	2.66	0.43
1:C:202:LEU:O	1:C:204:PRO:HD3	2.19	0.43
1:B:104:TRP:CZ2	1:B:269:PHE:HB2	2.53	0.43
1:C:104:TRP:CH2	1:C:269:PHE:N	2.84	0.43
1:A:106:ASN:HB2	1:A:107:PRO:HD2	2.00	0.43
1:A:287:TYR:O	3:C:900:MLZ:HA	2.19	0.43
1:A:414:THR:OG1	1:A:417:GLN:HG3	2.18	0.43
1:A:456:LEU:C	1:A:458:LEU:H	2.25	0.43
1:B:94:ASP:HB3	4:B:907:HOH:O	2.18	0.43
1:B:251:ASP:OD1	1:B:251:ASP:N	2.50	0.43
1:C:104:TRP:N	1:C:104:TRP:HE3	2.15	0.43
1:C:197:LEU:N	1:C:198:PRO:HD2	2.33	0.43
1:A:228:ARG:O	1:A:229:ASN:HB2	2.19	0.43
1:C:115:ILE:HD13	1:C:134:ARG:HD3	2.00	0.43
1:A:90:ILE:HG22	1:A:91:SER:N	2.33	0.43
1:A:129:ILE:HG23	1:A:215:ALA:CB	2.48	0.43
1:A:176:THR:HG21	1:B:481:ILE:HD12	2.00	0.43
1:B:478:ASN:O	1:B:480:ASP:N	2.52	0.43
1:C:61:LEU:HD11	1:C:237:MET:HB2	2.01	0.43
1:C:98:GLN:NE2	1:C:257:LYS:HD2	2.31	0.43
1:C:316:LEU:HD11	1:C:355:LEU:HD12	2.01	0.43
1:A:438:GLU:O	1:A:442:MET:HG3	2.19	0.43
1:A:73:VAL:HG11	1:A:96:ILE:CG2	2.49	0.43
1:A:167:GLU:HG2	1:A:430:LEU:HD13	2.01	0.43
1:B:416:GLU:CD	1:B:416:GLU:H	2.27	0.43
1:C:97:LEU:HD12	1:C:97:LEU:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LYS:HG3	1:A:104:TRP:CD1	2.53	0.43
1:B:218:ILE:HG23	1:B:222:ARG:HD2	2.01	0.43
1:B:347:TYR:CE2	1:B:348:ASN:ND2	2.87	0.43
1:B:390:ARG:HG2	1:B:390:ARG:HH11	1.84	0.43
1:C:376:PHE:C	1:C:378:ASP:N	2.75	0.43
1:B:292:SER:HB2	1:B:311:ALA:HB3	2.00	0.42
1:B:323:PRO:HB3	1:C:375:LEU:HD21	2.00	0.42
1:C:228:ARG:O	1:C:229:ASN:HB2	2.18	0.42
1:B:180:VAL:O	1:B:184:VAL:HG23	2.19	0.42
1:C:101:LYS:HA	1:C:104:TRP:CE2	2.54	0.42
1:A:106:ASN:HB2	1:A:107:PRO:CD	2.49	0.42
1:B:59:LYS:HE3	1:B:59:LYS:HB2	1.86	0.42
1:B:167:GLU:HG3	1:B:437:ARG:HH12	1.83	0.42
1:B:192:GLU:HA	1:B:196:ILE:HD12	2.01	0.42
1:C:125:TRP:O	1:C:129:ILE:HG13	2.19	0.42
1:C:253:ALA:HB1	1:C:272:LYS:O	2.19	0.42
1:A:99:VAL:C	1:A:268:LEU:HD12	2.44	0.42
1:A:100:PRO:C	1:A:102:ARG:H	2.26	0.42
1:A:241:ILE:HA	4:A:848:HOH:O	2.19	0.42
1:A:66:VAL:HG13	1:A:98:GLN:O	2.20	0.42
1:C:195:ILE:HD12	1:C:195:ILE:N	2.34	0.42
1:A:444:LEU:HD12	1:A:444:LEU:HA	1.80	0.42
1:B:222:ARG:O	3:C:901:MLZ:NZ	2.48	0.42
1:C:98:GLN:HA	1:C:269:PHE:O	2.20	0.42
1:C:261:GLY:O	1:C:262:LEU:HB2	2.19	0.42
1:A:99:VAL:CG1	1:A:104:TRP:HZ3	2.33	0.42
1:A:364:LEU:HD12	1:A:364:LEU:HA	1.85	0.42
1:B:370:PHE:O	1:B:373:GLU:HB2	2.19	0.42
1:C:388:VAL:O	1:C:463:TYR:HB3	2.20	0.42
1:A:390:ARG:HG2	1:A:390:ARG:NH1	2.34	0.42
1:B:220:ARG:HD3	1:B:299:ASP:OD1	2.20	0.42
1:C:131:PHE:CE2	1:C:135:GLU:HG3	2.55	0.42
1:A:486:TYR:HA	1:C:123:LYS:HD2	2.00	0.42
1:C:54:VAL:HA	1:C:149:ILE:HD11	2.01	0.42
1:C:255:GLU:HG2	1:C:256:VAL:N	2.34	0.42
1:C:377:ARG:HH11	1:C:377:ARG:HG3	1.85	0.42
1:C:455:GLU:O	1:C:458:LEU:HB2	2.19	0.42
1:B:320:GLU:HA	1:B:325:PHE:CD1	2.55	0.42
1:A:220:ARG:HD3	1:A:299:ASP:OD2	2.20	0.41
1:A:486:TYR:HD2	1:C:183:TYR:CZ	2.38	0.41
1:B:226:ARG:O	1:B:226:ARG:CG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:100:PRO:HA	1:C:268:LEU:HB3	2.01	0.41
1:A:319:SER:O	1:A:325:PHE:HD1	2.04	0.41
1:A:479:GLY:O	1:A:483:GLU:HG2	2.20	0.41
1:C:219:LEU:HD11	1:C:232:LEU:HD22	2.01	0.41
1:B:353:PRO:HA	4:B:807:HOH:O	2.21	0.41
1:A:451:PHE:O	1:A:455:GLU:HG3	2.20	0.41
1:C:72:PRO:HB3	1:C:88:LYS:HE2	2.02	0.41
1:C:104:TRP:N	1:C:104:TRP:CE3	2.88	0.41
1:C:143:TRP:HB2	1:C:147:PHE:CE1	2.54	0.41
1:A:105:ILE:HD11	1:A:143:TRP:CD2	2.55	0.41
1:A:243:HIS:CE1	1:A:286:GLN:NE2	2.89	0.41
1:A:277:VAL:HG13	1:A:281:GLU:HB2	2.02	0.41
1:B:106:ASN:HB2	1:B:107:PRO:HD2	2.02	0.41
1:B:252:HIS:O	1:B:271:LEU:HA	2.20	0.41
1:C:129:ILE:HG23	1:C:215:ALA:HB3	2.02	0.41
1:A:78:VAL:HG23	1:A:80:GLU:HG2	2.01	0.41
1:B:101:LYS:HA	1:B:104:TRP:CE3	2.56	0.41
1:B:149:ILE:HG22	4:B:804:HOH:O	2.20	0.41
1:B:394:GLU:CB	1:B:458:LEU:HD21	2.49	0.41
1:C:84:LEU:HD12	1:C:241:ILE:CG1	2.51	0.41
1:C:263:PHE:O	1:C:266:ASP:HB2	2.21	0.41
1:C:313:THR:HB	1:C:344:ASP:OD1	2.20	0.41
1:A:284:TYR:O	1:A:285:ILE:HG23	2.20	0.41
1:B:325:PHE:O	1:B:326:ASP:C	2.64	0.41
1:B:366:GLY:O	1:B:367:THR:C	2.62	0.41
1:B:381:TRP:O	1:B:385:GLU:HB2	2.21	0.41
1:C:393:GLU:O	1:C:396:LEU:HG	2.20	0.41
1:A:104:TRP:N	1:A:104:TRP:HE3	2.19	0.41
1:A:150:LEU:HA	1:A:151:PRO:HD3	1.94	0.41
1:A:194:GLU:C	1:A:195:ILE:HD12	2.46	0.41
1:B:102:ARG:HD3	4:B:920:HOH:O	2.20	0.41
1:B:324:PHE:O	1:B:325:PHE:C	2.64	0.41
1:B:341:ALA:HA	4:B:993:HOH:O	2.19	0.41
1:B:484:ASN:N	1:B:484:ASN:ND2	2.68	0.41
1:C:50:LEU:HD21	1:C:76:SER:HA	2.02	0.41
1:C:97:LEU:HD11	1:C:238:ALA:HB2	2.03	0.41
1:C:98:GLN:HG2	1:C:270:SER:HA	2.02	0.41
1:C:444:LEU:HD12	1:C:444:LEU:HA	1.83	0.41
1:B:367:THR:HG23	4:B:803:HOH:O	2.21	0.41
1:C:105:ILE:O	1:C:105:ILE:HG22	2.21	0.41
1:A:476:GLY:O	1:C:175:LYS:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:316:LEU:HD22	1:C:474:LEU:HD22	2.03	0.40
1:B:443:VAL:O	1:B:447:ILE:HG13	2.21	0.40
1:A:74:LYS:HB3	1:A:87:LEU:CD2	2.48	0.40
1:B:78:VAL:CG1	1:B:80:GLU:OE2	2.69	0.40
1:A:97:LEU:C	1:A:97:LEU:HD12	2.45	0.40
1:A:478:ASN:ND2	1:A:481:ILE:HG12	2.37	0.40
1:B:157:THR:HA	1:B:160:TRP:CD1	2.56	0.40
1:A:224:PHE:HD2	1:A:254:TYR:CE2	2.39	0.40
1:A:254:TYR:HB3	1:A:271:LEU:CD1	2.42	0.40
1:C:59:LYS:O	1:C:62:GLN:HB2	2.21	0.40
1:C:200:LYS:HE2	4:C:961:HOH:O	2.21	0.40
1:C:427:ASP:O	1:C:428:SER:C	2.63	0.40
1:A:162:GLU:O	1:A:166:GLN:HG3	2.22	0.40
1:A:484:ASN:HB2	4:A:910:HOH:O	2.20	0.40
1:C:105:ILE:HD11	1:C:143:TRP:CD2	2.57	0.40
1:C:271:LEU:HD12	1:C:272:LYS:O	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	426/444 (96%)	389 (91%)	27 (6%)	10 (2%)	5 4
1	B	439/444 (99%)	398 (91%)	30 (7%)	11 (2%)	4 4
1	C	437/444 (98%)	402 (92%)	29 (7%)	6 (1%)	9 11
All	All	1302/1332 (98%)	1189 (91%)	86 (7%)	27 (2%)	5 5

All (27) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	377	ARG

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Mol	Chain	Res	Type
1	C	377	ARG
1	A	204	PRO
1	A	252	HIS
1	A	377	ARG
1	A	387	SER
1	B	364	LEU
1	B	366	GLY
1	B	387	SER
1	C	200	LYS
1	C	236	PRO
1	A	200	LYS
1	B	200	LYS
1	B	204	PRO
1	B	226	ARG
1	B	288	ASP
1	B	325	PHE
1	B	479	GLY
1	C	204	PRO
1	C	387	SER
1	A	64	GLU
1	A	226	ARG
1	A	232	LEU
1	B	236	PRO
1	C	105	ILE
1	A	73	VAL
1	A	105	ILE

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	380/390 (97%)	359 (94%)	21 (6%)	19	29
1	B	387/390 (99%)	371 (96%)	16 (4%)	27	41
1	C	385/390 (99%)	366 (95%)	19 (5%)	22	34
All	All	1152/1170 (98%)	1096 (95%)	56 (5%)	22	34

All (56) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	55	GLN
1	A	67	ILE
1	A	80	GLU
1	A	94	ASP
1	A	104	TRP
1	A	110	VAL
1	A	121	GLU
1	A	228	ARG
1	A	256	VAL
1	A	266	ASP
1	A	268	LEU
1	A	313	THR
1	A	315	THR
1	A	378	ASP
1	A	385	GLU
1	A	395	LEU
1	A	426	LEU
1	A	427	ASP
1	A	444	LEU
1	A	453	GLN
1	A	477	GLU
1	B	63	GLU
1	B	73	VAL
1	B	78	VAL
1	B	80	GLU
1	B	88	LYS
1	B	104	TRP
1	B	143	TRP
1	B	226	ARG
1	B	236	PRO
1	B	313	THR
1	B	315	THR
1	B	378	ASP
1	B	395	LEU
1	B	444	LEU
1	B	453	GLN
1	B	482	LEU
1	C	74	LYS
1	C	104	TRP
1	C	163	GLU
1	C	236	PRO
1	C	251	ASP

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Mol	Chain	Res	Type
1	C	255	GLU
1	C	262	LEU
1	C	268	LEU
1	C	271	LEU
1	C	313	THR
1	C	315	THR
1	C	378	ASP
1	C	395	LEU
1	C	426	LEU
1	C	444	LEU
1	C	453	GLN
1	C	468	ARG
1	C	470	LYS
1	C	487	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	55	GLN
1	A	98	GLN
1	A	152	GLN
1	A	166	GLN
1	A	169	GLN
1	A	310	HIS
1	A	392	ASN
1	A	478	ASN
1	B	98	GLN
1	B	145	HIS
1	B	152	GLN
1	B	169	GLN
1	B	310	HIS
1	B	412	HIS
1	B	484	ASN
1	B	488	GLN
1	C	98	GLN
1	C	152	GLN
1	C	166	GLN
1	C	169	GLN
1	C	199	ASN
1	C	306	ASN
1	C	308	ASN
1	C	310	HIS

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Mol	Chain	Res	Type
1	C	392	ASN
1	C	484	ASN

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 ⓘ

6 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	$\# Z > 2$
2	SAH	C	802	-	27,28,28	0.82	0	36,40,40	0.71	0
2	SAH	A	800	-	27,28,28	0.85	0	36,40,40	0.74	0
3	MLZ	C	902	-	9,10,10	1.02	1 (11%)	8,11,11	0.55	0
3	MLZ	C	900	-	9,10,10	1.28	1 (11%)	8,11,11	0.93	0
2	SAH	B	801	-	27,28,28	0.81	1 (3%)	36,40,40	0.69	0
3	MLZ	C	901	-	9,10,10	1.07	1 (11%)	8,11,11	0.43	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
2	SAH	C	802	-	-	3/15/31/31	0/3/3/3
2	SAH	A	800	-	-	5/15/31/31	0/3/3/3
3	MLZ	C	902	-	-	1/10/10/10	-
3	MLZ	C	900	-	-	3/10/10/10	-
2	SAH	B	801	-	-	4/15/31/31	0/3/3/3
3	MLZ	C	901	-	-	2/10/10/10	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	900	MLZ	OXT-C	-3.06	1.20	1.30
3	C	901	MLZ	OXT-C	-2.54	1.22	1.30
3	C	902	MLZ	OXT-C	-2.27	1.23	1.30
2	B	801	SAH	C4-N3	2.18	1.38	1.34

There are no bond angle outliers.

There are no chirality outliers.

All (18) torsion outliers are listed below:

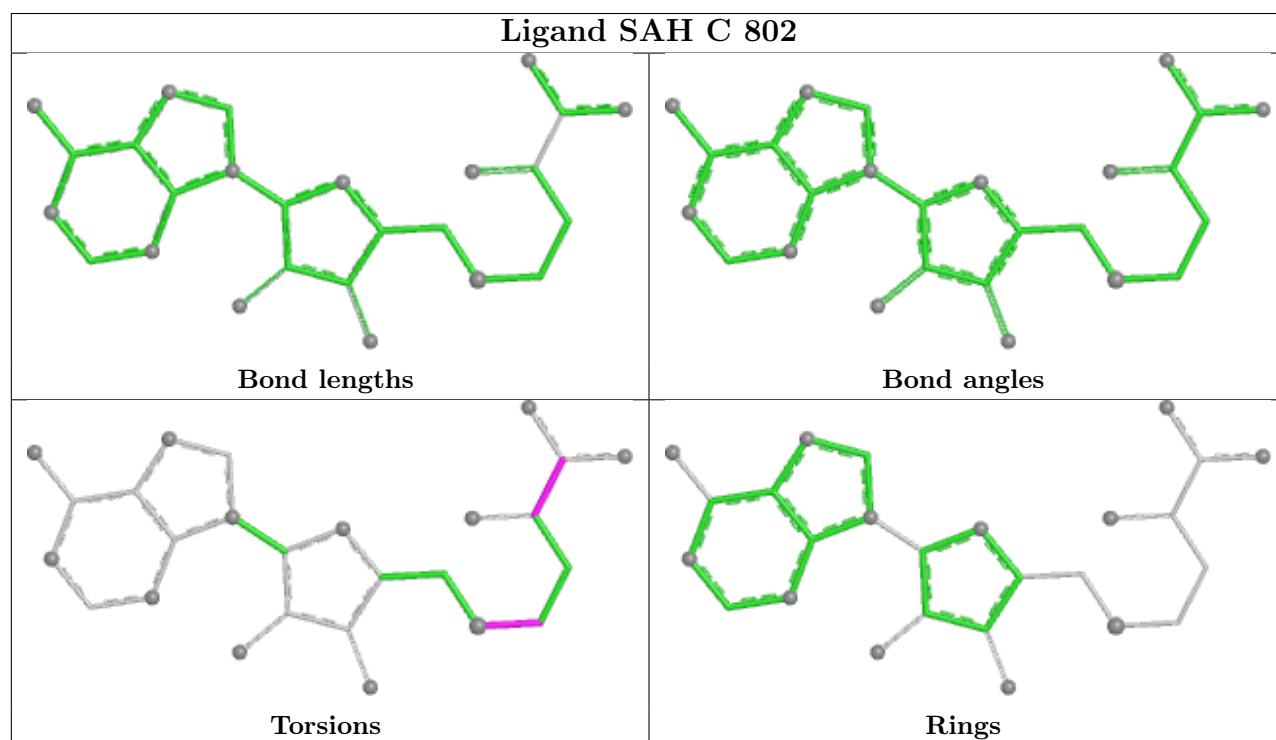
Mol	Chain	Res	Type	Atoms
3	C	900	MLZ	CD-CE-NZ-CM
3	C	901	MLZ	CG-CD-CE-NZ
3	C	902	MLZ	CG-CD-CE-NZ
3	C	900	MLZ	CG-CD-CE-NZ
3	C	901	MLZ	CE-CD-CG-CB
3	C	900	MLZ	CE-CD-CG-CB
2	A	800	SAH	CA-CB-CG-SD
2	A	800	SAH	C3'-C4'-C5'-SD
2	C	802	SAH	OXT-C-CA-CB
2	A	800	SAH	O-C-CA-CB
2	C	802	SAH	O-C-CA-CB
2	A	800	SAH	CB-CG-SD-C5'
2	B	801	SAH	CB-CG-SD-C5'
2	C	802	SAH	CB-CG-SD-C5'
2	A	800	SAH	OXT-C-CA-CB
2	B	801	SAH	C-CA-CB-CG
2	B	801	SAH	O-C-CA-CB
2	B	801	SAH	OXT-C-CA-CB

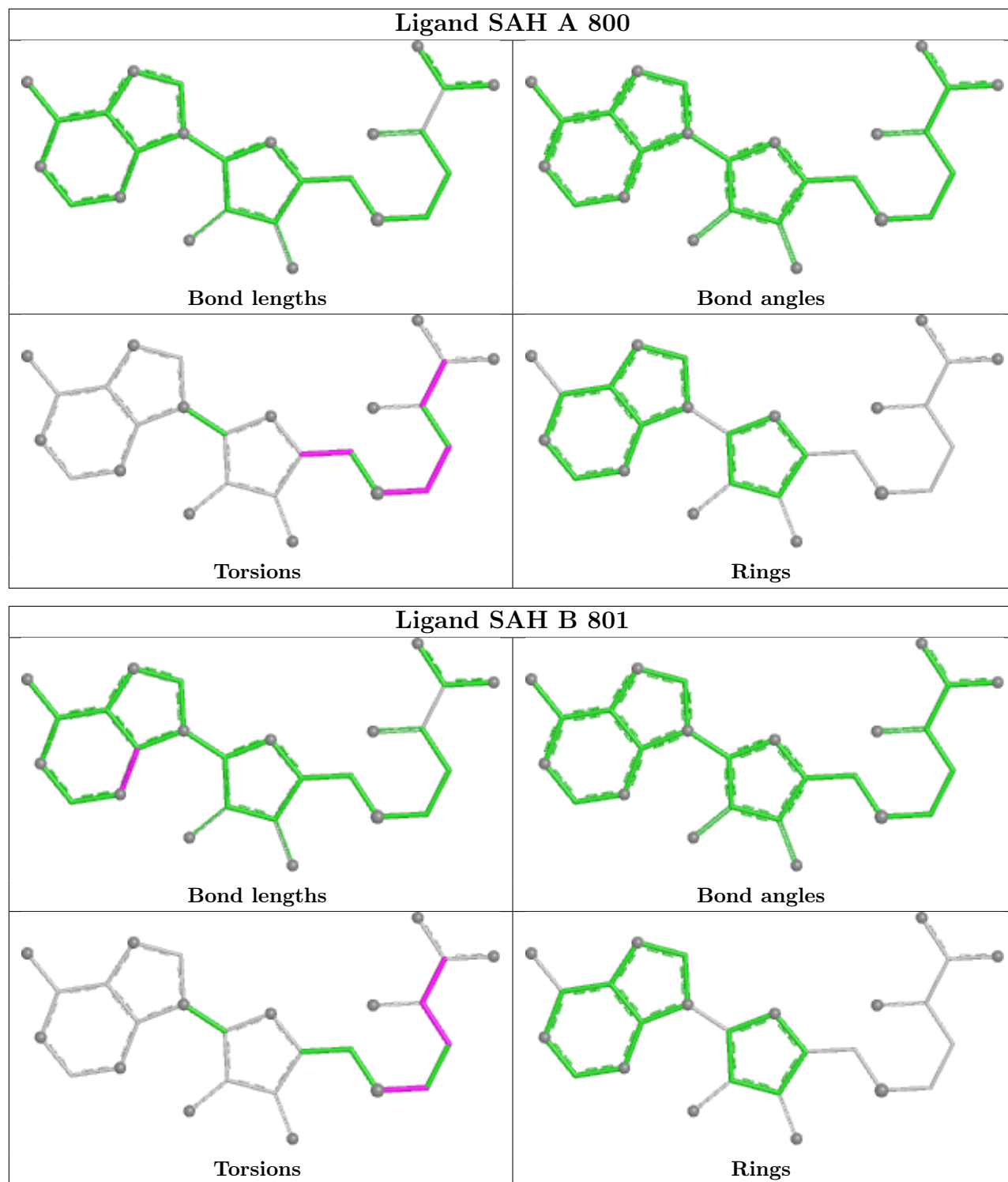
There are no ring outliers.

5 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	802	SAH	1	0
3	C	902	MLZ	1	0
3	C	900	MLZ	2	0
2	B	801	SAH	1	0
3	C	901	MLZ	2	0

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	430/444 (96%)	0.64	55 (12%) 7 7	46, 70, 120, 130	0
1	B	441/444 (99%)	0.15	14 (3%) 50 51	41, 64, 101, 123	0
1	C	439/444 (98%)	0.15	6 (1%) 73 74	45, 66, 97, 113	0
All	All	1310/1332 (98%)	0.31	75 (5%) 29 29	41, 67, 108, 130	0

All (75) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	487	PHE	5.8
1	A	486	TYR	4.5
1	B	48	PRO	4.0
1	A	204	PRO	4.0
1	A	72	PRO	3.8
1	A	256	VAL	3.8
1	A	232	LEU	3.7
1	A	121	GLU	3.6
1	A	198	PRO	3.3
1	B	143	TRP	3.3
1	A	202	LEU	3.3
1	A	197	LEU	3.3
1	A	253	ALA	3.3
1	A	189	LEU	3.2
1	A	377	ARG	3.1
1	B	365	GLY	3.0
1	A	209	LEU	2.9
1	A	267	TYR	2.9
1	A	56	THR	2.8
1	A	193	GLN	2.8
1	A	190	LYS	2.8
1	A	203	PHE	2.8
1	B	486	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	251	ASP	2.8
1	A	57	PHE	2.8
1	A	146	TYR	2.8
1	A	200	LYS	2.8
1	A	147	PHE	2.8
1	A	110	VAL	2.7
1	A	69	ALA	2.7
1	A	138	ARG	2.7
1	A	65	GLY	2.6
1	A	96	ILE	2.6
1	A	257	LYS	2.6
1	A	235	VAL	2.6
1	A	196	ILE	2.6
1	A	234	VAL	2.6
1	A	195	ILE	2.6
1	A	71	THR	2.5
1	B	481	ILE	2.5
1	A	118	VAL	2.5
1	C	486	TYR	2.5
1	A	143	TRP	2.4
1	C	143	TRP	2.4
1	A	115	ILE	2.4
1	A	207	VAL	2.4
1	A	107	PRO	2.4
1	A	206	PRO	2.4
1	A	50	LEU	2.4
1	A	66	VAL	2.4
1	A	249	THR	2.3
1	A	134	ARG	2.3
1	B	227	LEU	2.3
1	A	205	ASP	2.3
1	A	104	TRP	2.3
1	B	202	LEU	2.3
1	A	124	PRO	2.3
1	A	191	LEU	2.2
1	A	60	TRP	2.2
1	A	212	PHE	2.2
1	A	268	LEU	2.2
1	A	252	HIS	2.1
1	A	150	LEU	2.1
1	A	375	LEU	2.1
1	C	206	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	97	LEU	2.1
1	B	104	TRP	2.1
1	B	117	ARG	2.1
1	B	200	LYS	2.1
1	A	61	LEU	2.0
1	B	485	LEU	2.0
1	C	202	LEU	2.0
1	C	142	VAL	2.0
1	B	232	LEU	2.0
1	B	482	LEU	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](#)

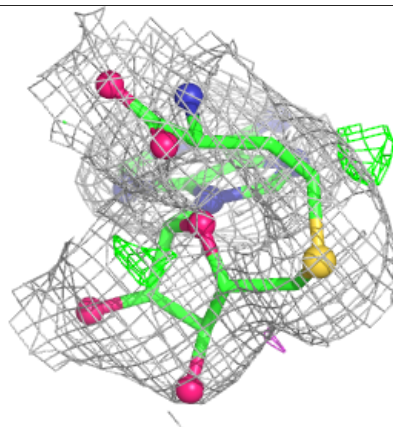
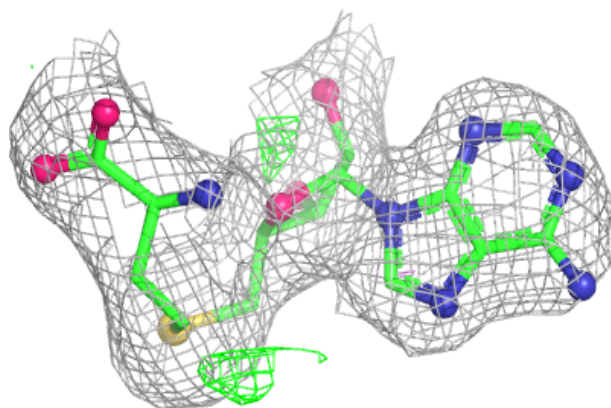
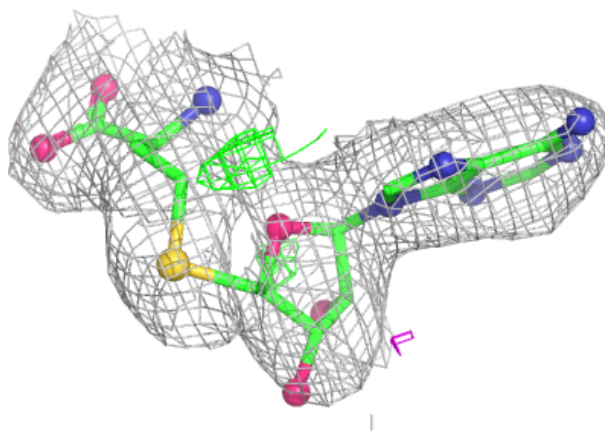
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	MLZ	C	900	11/11	0.90	0.15	74,75,79,80	0
3	MLZ	C	901	11/11	0.94	0.10	52,53,56,57	0
2	SAH	A	800	26/26	0.95	0.10	66,69,76,77	0
3	MLZ	C	902	11/11	0.95	0.09	46,50,54,55	0
2	SAH	C	802	26/26	0.96	0.08	53,61,64,64	0
2	SAH	B	801	26/26	0.97	0.07	44,47,50,52	0

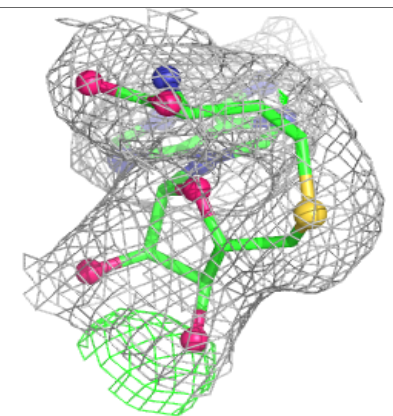
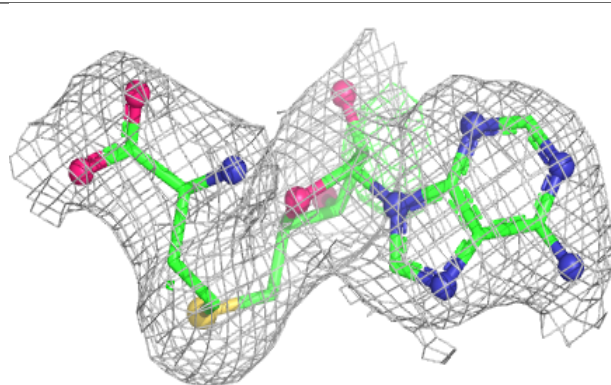
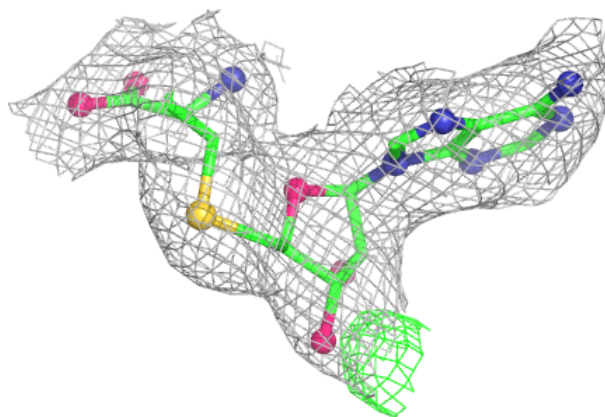
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

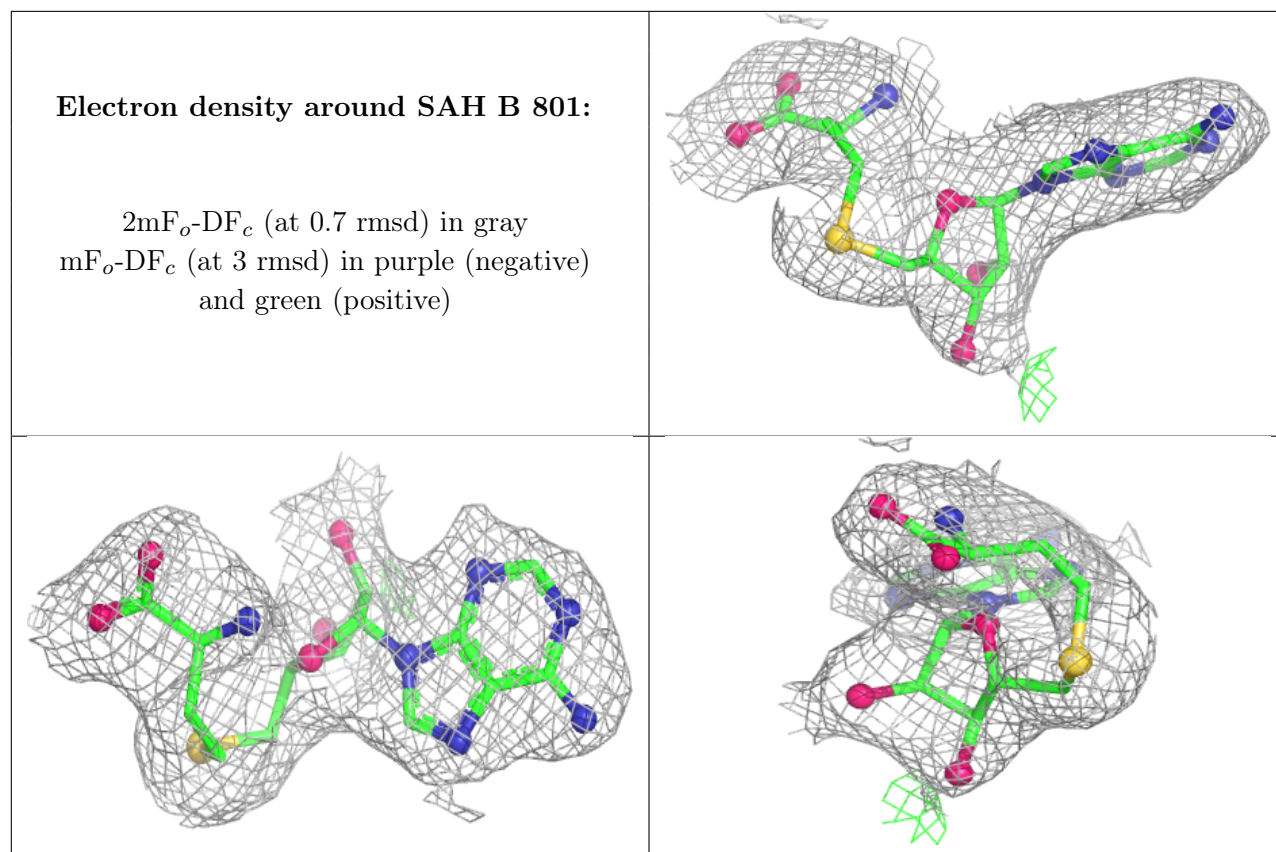
Electron density around SAH A 800:

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

**Electron density around SAH C 802:**

$2mF_o - DF_c$ (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.