



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 08:08 PM UTC

PDB ID : 3MO2 / pdb_00003mo2
Title : human G9a-like (GLP, also known as EHMT1) in complex with inhibitor E67
Authors : Chang, Y.; Horton, J.R.; Cheng, X.
Deposited on : 2010-04-22
Resolution : 2.49 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 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

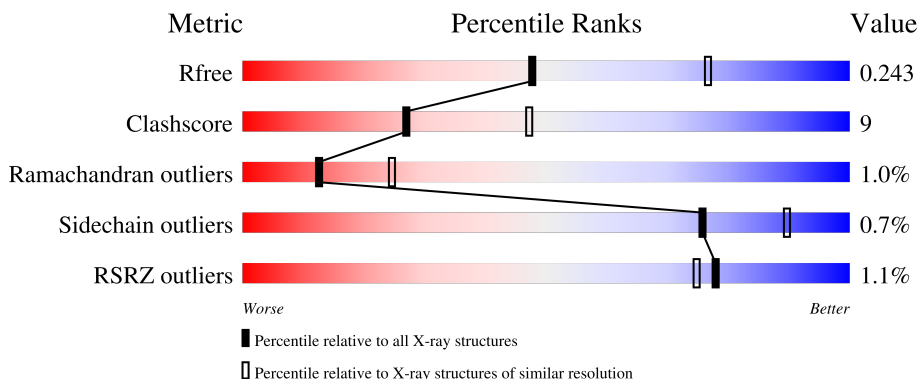
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.49 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	285	<div> <div>2%</div> <div> <div></div> <div>65%</div> <div>24%</div> <div>• 11%</div> </div> </div>
1	B	285	<div> <div>75%</div> <div>14%</div> <div>• 9%</div> </div>
1	C	285	<div> <div>%</div> <div>73%</div> <div>16%</div> <div>• 9%</div> </div>
1	D	285	<div> <div>%</div> <div>69%</div> <div>20%</div> <div>• 10%</div> </div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 8719 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.

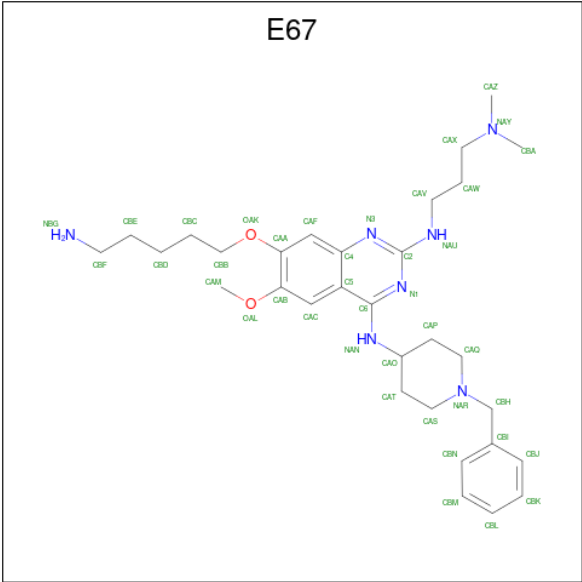
- Molecule 1 is a protein called Histone-lysine N-methyltransferase, H3 lysine-9 specific 5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	255	Total	C	N	O	S	0	0	0
			2016	1259	363	370	24			
1	B	258	Total	C	N	O	S	0	0	0
			2046	1279	367	375	25			
1	C	258	Total	C	N	O	S	0	0	0
			2040	1274	365	376	25			
1	D	256	Total	C	N	O	S	0	0	0
			1992	1249	353	365	25			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

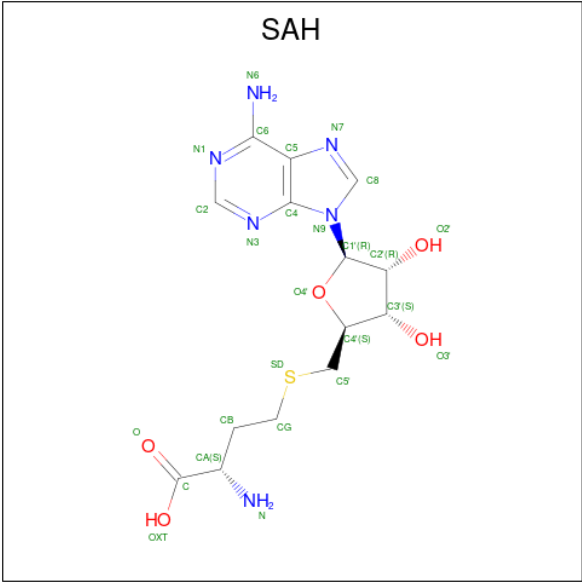
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	4	Total	Zn	0	0
			4	4		
2	B	4	Total	Zn	0	0
			4	4		
2	C	4	Total	Zn	0	0
			4	4		
2	D	4	Total	Zn	0	0
			4	4		

- Molecule 3 is 7-[(5-aminopentyl)oxy]-N 4 -(1-benzylpiperidin-4-yl)-N 2 -[3-(dimethylamino)propyl]-6-methoxyquinazoline-2,4-diamine (CCD ID: E67) (formula: C₃₁H₄₇N₇O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			40	31	7	2		
3	B	1	Total	C	N	O	0	0
			40	31	7	2		
3	C	1	Total	C	N	O	0	0
			40	31	7	2		
3	D	1	Total	C	N	O	0	0
			40	31	7	2		

- Molecule 4 is S-ADENOSYL-L-HOMOCYSTEINE (CCD ID: SAH) (formula: C₁₄H₂₀N₆O₅S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	C	1	Total	C	N	O	S	0	0
			26	14	6	5	1		
4	D	1	Total	C	N	O	S	0	0
			26	14	6	5	1		

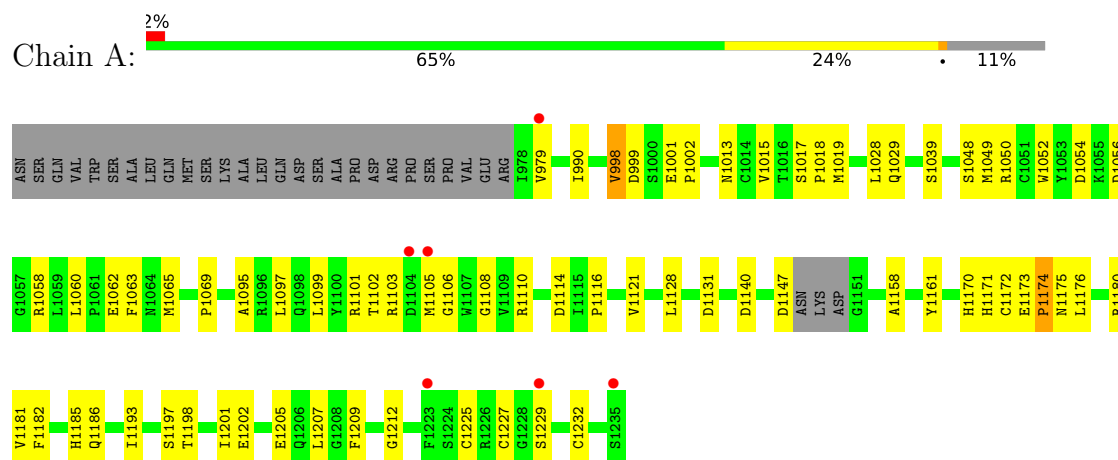
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	110	Total	O	0	0
			110	110		
5	B	107	Total	O	0	0
			107	107		
5	C	114	Total	O	0	0
			114	114		
5	D	66	Total	O	0	0
			66	66		

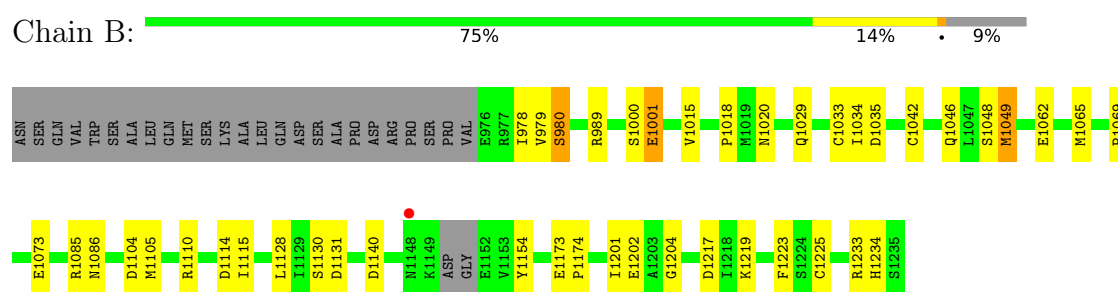
3 Residue-property plots

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.

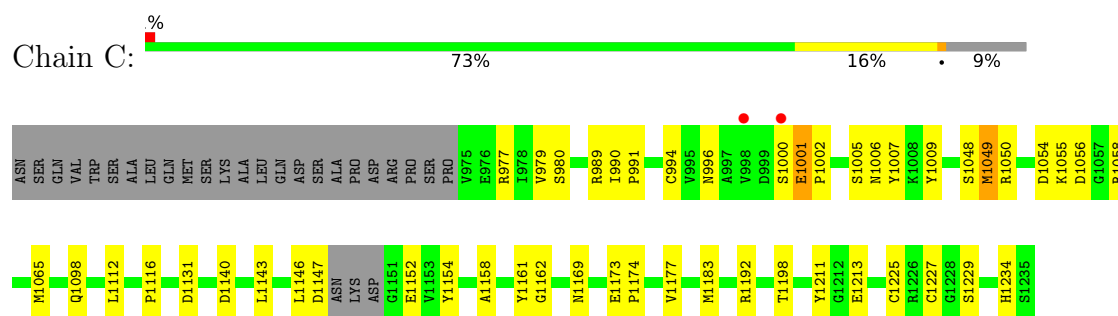
- Molecule 1: Histone-lysine N-methyltransferase, H3 lysine-9 specific 5



- Molecule 1: Histone-lysine N-methyltransferase, H3 lysine-9 specific 5



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- Molecule 1: Histone-lysine N-methyltransferase, H3 lysine-9 specific 5



ASN	SER	GLN	VAL	TRP	SER	ALA	LEU	GLN	MET	SER	LYS	ALA	LEU	GLN	ASP	SER	ALA	PRO	ASP	ARG	PRO	SER	PRO	VAL	E976	R977	I978	V979	N996	A997	V998	D999	C1003	P1004	L1028	Q1029	Y1030	C1031	I1034	S1038	S1048	M1049	R1050	C1051	W1052	L1059	F1063	M1064	M1065	A1066	E1067																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
P1068	P1069	L1070	C1074	C1078	S1079	C1080	R1085	N1086	L1097	Y1100	R1101	T1102	M1105	G1106	W1107	R1110	D1114	P1117	V1121	E1133	V1136	D1145	L1146	D1147	ASN	LYS	ASP	GLY	E1152	H1170	E1173	P1174	N1175	L1176	R1180	Q1186	R1199	L1200	I1201	E1202	A1203																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	59.70Å 163.00Å 69.30Å 90.00° 98.90° 90.00°	Depositor
Resolution (Å)	31.83 – 2.49 31.83 – 2.49	Depositor EDS
% Data completeness (in resolution range)	91.5 (31.83-2.49) 91.5 (31.83-2.49)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.62 (at 2.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.192 , 0.248 0.189 , 0.243	Depositor DCC
R_{free} test set	2165 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	33.1	Xtriage
Anisotropy	0.269	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 47.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8719	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.52% 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: E67, ZN, 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	0.39	0/2066	0.89	6/2800 (0.2%)
1	B	0.39	0/2096	0.90	6/2839 (0.2%)
1	C	0.39	0/2090	0.89	7/2832 (0.2%)
1	D	0.37	0/2042	0.89	5/2774 (0.2%)
All	All	0.39	0/8294	0.89	24/11245 (0.2%)

There are no bond length outliers.

The worst 5 of 24 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1173	GLU	CA-C-N	8.47	128.54	119.90
1	D	1173	GLU	C-N-CA	8.47	128.54	119.90
1	A	1173	GLU	CA-C-N	7.09	127.06	119.76
1	A	1173	GLU	C-N-CA	7.09	127.06	119.76
1	B	1173	GLU	CA-C-N	7.00	126.97	119.76

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	2016	0	1871	50	0
1	B	2046	0	1906	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	2040	0	1892	31	0
1	D	1992	0	1824	42	0
2	A	4	0	0	0	0
2	B	4	0	0	0	0
2	C	4	0	0	0	0
2	D	4	0	0	0	0
3	A	40	0	47	3	0
3	B	40	0	47	2	0
3	C	40	0	47	3	0
3	D	40	0	47	0	0
4	C	26	0	19	0	0
4	D	26	0	20	0	0
5	A	110	0	0	2	0
5	B	107	0	0	0	0
5	C	114	0	0	1	0
5	D	66	0	0	2	0
All	All	8719	0	7720	148	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 9.

The worst 5 of 148 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:1065:MET:HE3	1:C:1198:THR:HA	1.54	0.89
1:A:1001:GLU:HB3	1:A:1101:ARG:HH12	1.42	0.83
1:A:1065:MET:HE3	1:A:1198:THR:HA	1.60	0.82
1:C:980:SER:HB3	1:C:994:CYS:HB3	1.66	0.77
1:B:1062:GLU:OE1	1:B:1062:GLU:N	2.20	0.74

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	251/285 (88%)	226 (90%)	24 (10%)	1 (0%)	30	49
1	B	254/285 (89%)	233 (92%)	17 (7%)	4 (2%)	7	14
1	C	254/285 (89%)	229 (90%)	24 (9%)	1 (0%)	30	49
1	D	252/285 (88%)	221 (88%)	27 (11%)	4 (2%)	7	14
All	All	1011/1140 (89%)	909 (90%)	92 (9%)	10 (1%)	12	24

5 of 10 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	998	VAL
1	B	980	SER
1	B	1020	ASN
1	C	1049	MET
1	D	1106	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	219/257 (85%)	217 (99%)	2 (1%)	70	87
1	B	223/257 (87%)	221 (99%)	2 (1%)	70	87
1	C	222/257 (86%)	222 (100%)	0	100	100
1	D	213/257 (83%)	211 (99%)	2 (1%)	70	87
All	All	877/1028 (85%)	871 (99%)	6 (1%)	76	89

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	1217	ASP
1	D	1085	ARG
1	D	1227	CYS

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Mol	Chain	Res	Type
1	A	1147	ASP
1	A	1039	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	1170	HIS
1	D	1041	ASN
1	B	1234	HIS
1	A	1234	HIS
1	D	1029	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 22 ligands modelled in this entry, 16 are monoatomic - leaving 6 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	E67	B	2	-	42,43,43	2.18	13 (30%)	55,56,56	1.86	12 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	E67	C	1236	-	42,43,43	2.20	13 (30%)	55,56,56	1.86	13 (23%)
4	SAH	D	104	-	27,28,28	1.40	4 (14%)	36,40,40	2.64	10 (27%)
3	E67	A	1	-	42,43,43	2.16	13 (30%)	55,56,56	1.87	14 (25%)
3	E67	D	4	-	42,43,43	2.15	13 (30%)	55,56,56	1.74	12 (21%)
4	SAH	C	103	-	27,28,28	1.07	3 (11%)	36,40,40	2.97	10 (27%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	E67	B	2	-	-	3/24/34/34	0/4/4/4
3	E67	C	1236	-	-	6/24/34/34	0/4/4/4
4	SAH	D	104	-	-	3/15/31/31	0/3/3/3
3	E67	A	1	-	-	5/24/34/34	0/4/4/4
3	E67	D	4	-	-	3/24/34/34	0/4/4/4
4	SAH	C	103	-	-	3/15/31/31	0/3/3/3

The worst 5 of 59 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	2	E67	CBM-CBL	6.85	1.53	1.38
3	D	4	E67	CBM-CBL	6.79	1.53	1.38
3	C	1236	E67	CBM-CBL	6.70	1.53	1.38
3	A	1	E67	CBM-CBL	6.64	1.52	1.38
3	C	1236	E67	CBL-CBK	5.85	1.51	1.38

The worst 5 of 71 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	103	SAH	OXT-C-O	-13.56	93.32	124.08
4	D	104	SAH	OXT-C-O	-10.78	99.62	124.08
3	B	2	E67	CAV-NAU-C2	-6.46	112.63	123.82
3	C	1236	E67	CAV-NAU-C2	-6.22	113.03	123.82
3	A	1	E67	CAV-NAU-C2	-5.97	113.47	123.82

There are no chirality outliers.

5 of 23 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	2	E67	CAW-CAX-NAY-CAZ
3	D	4	E67	CAW-CAX-NAY-CAZ
3	D	4	E67	CAW-CAX-NAY-CBA
3	C	1236	E67	CBB-CBC-CBD-CBE
3	A	1	E67	CAW-CAX-NAY-CAZ

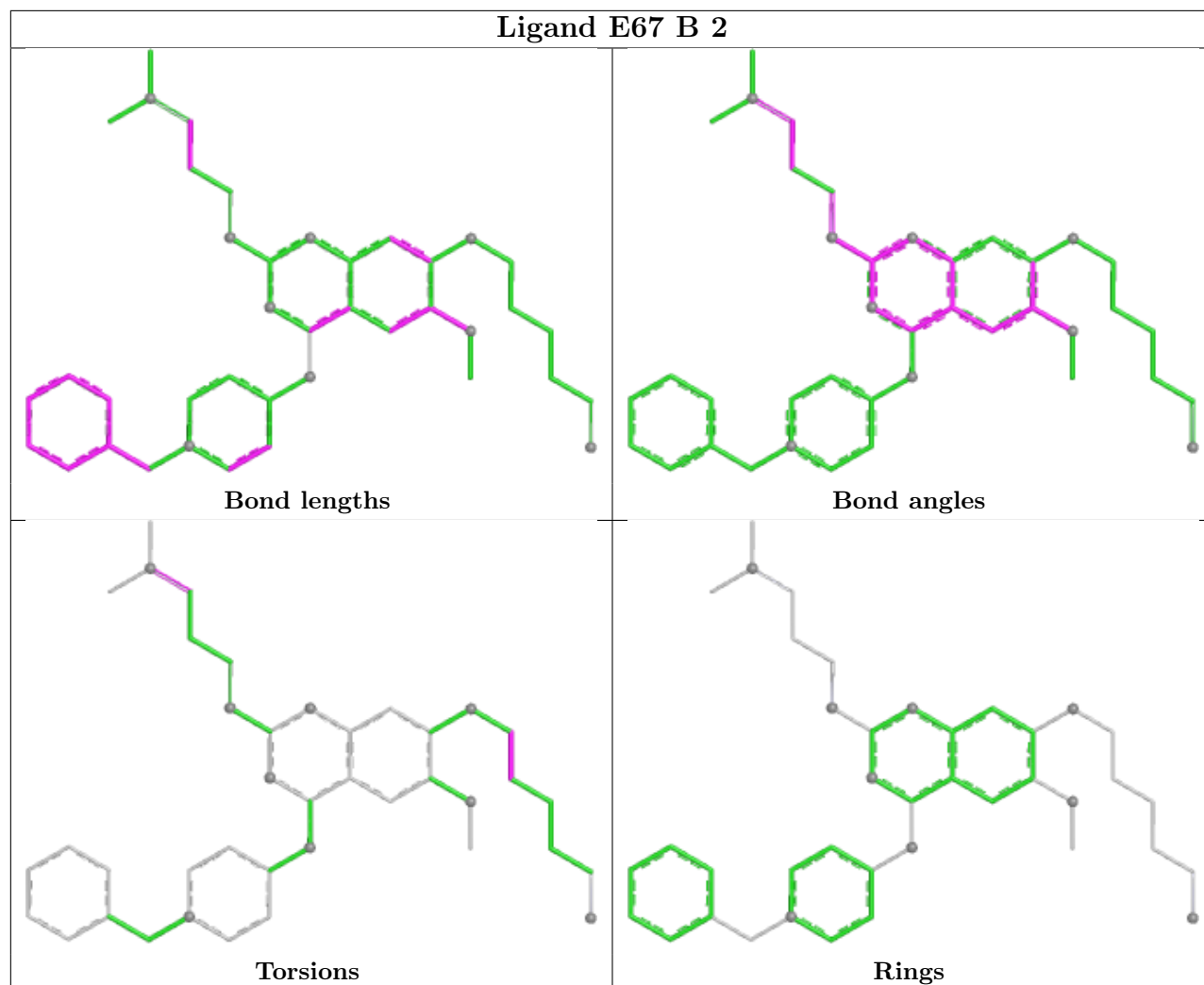
There are no ring outliers.

3 monomers are involved in 8 short contacts:

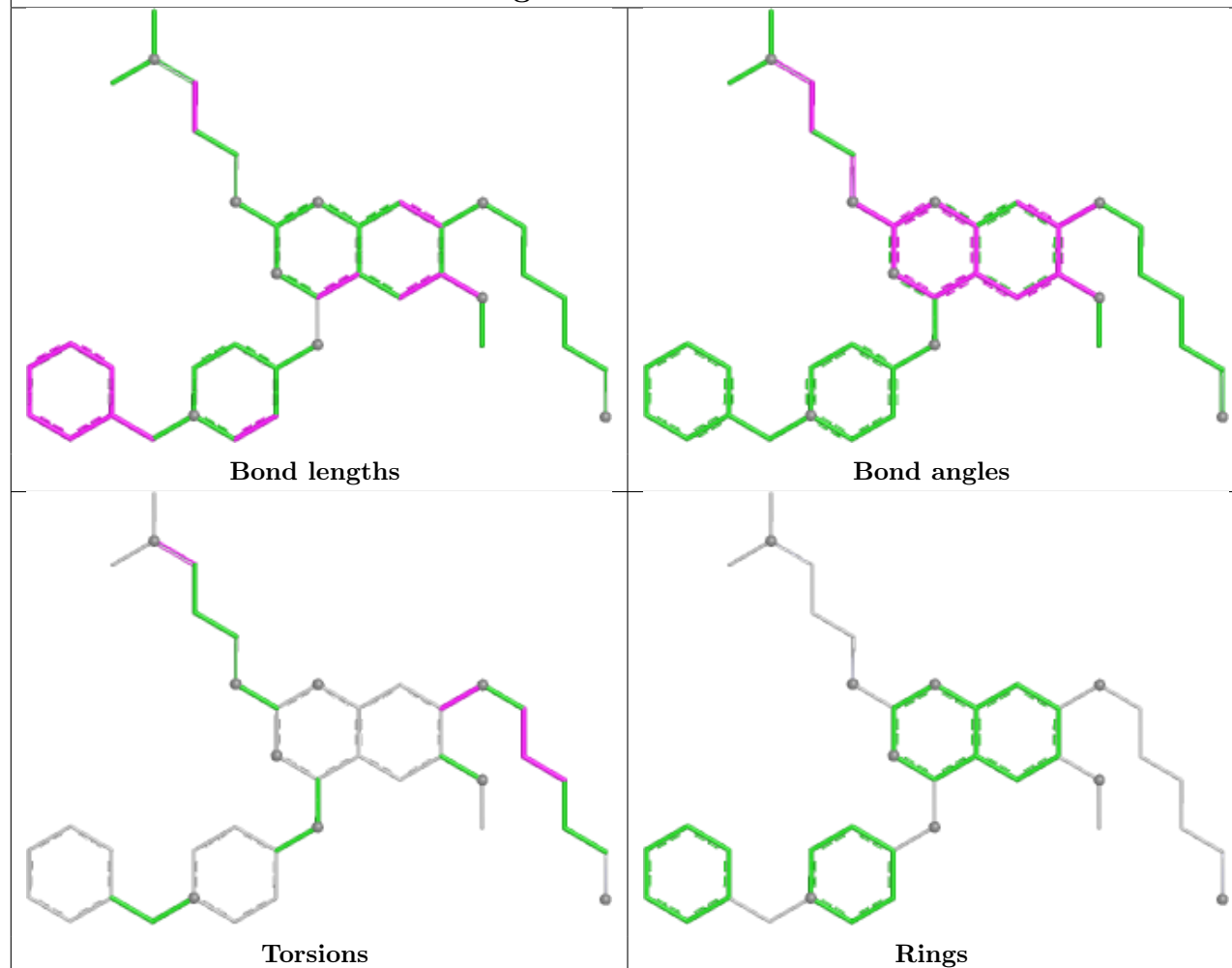
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	2	E67	2	0
3	C	1236	E67	3	0
3	A	1	E67	3	0

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.

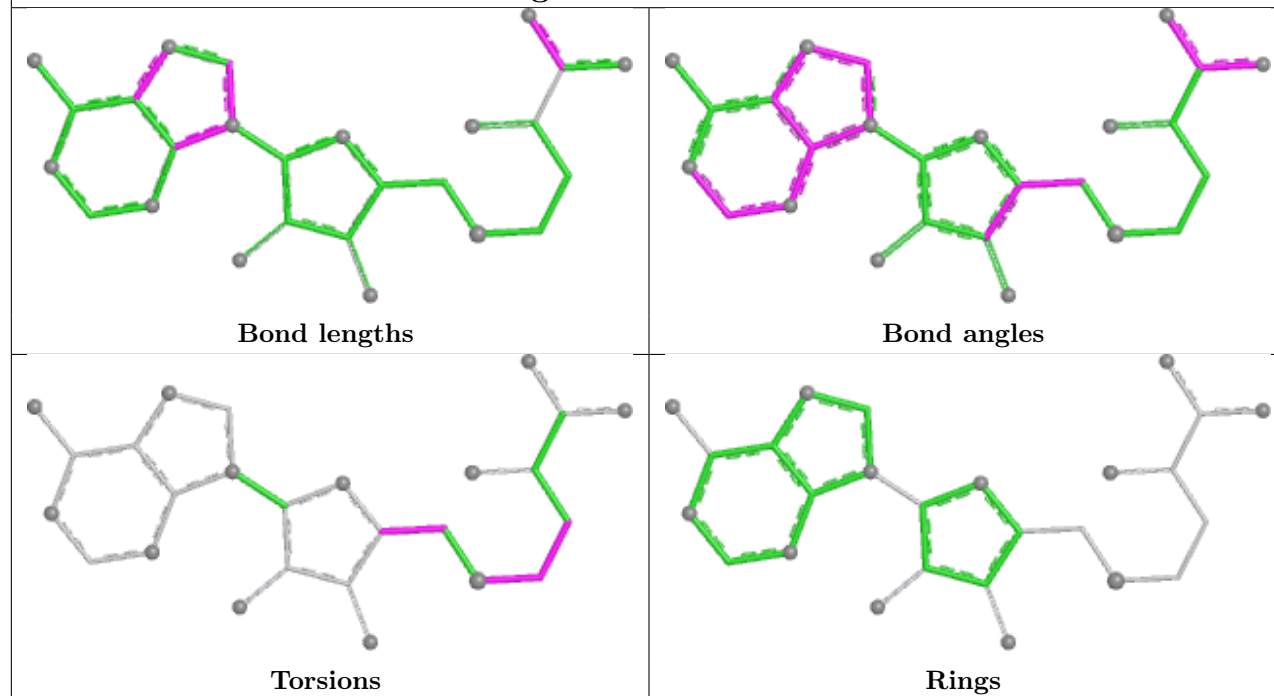
Ligand E67 B 2



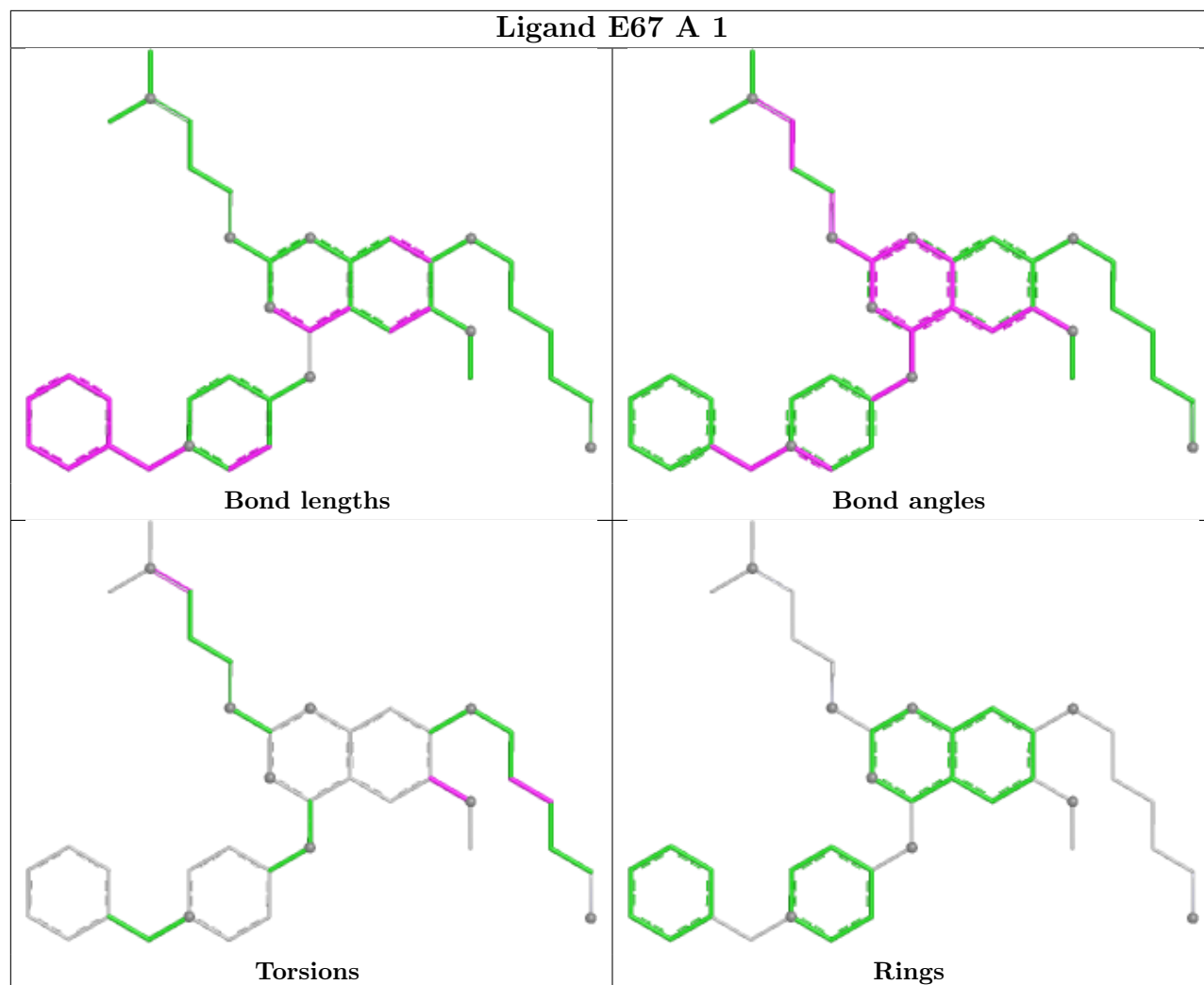
Ligand E67 C 1236



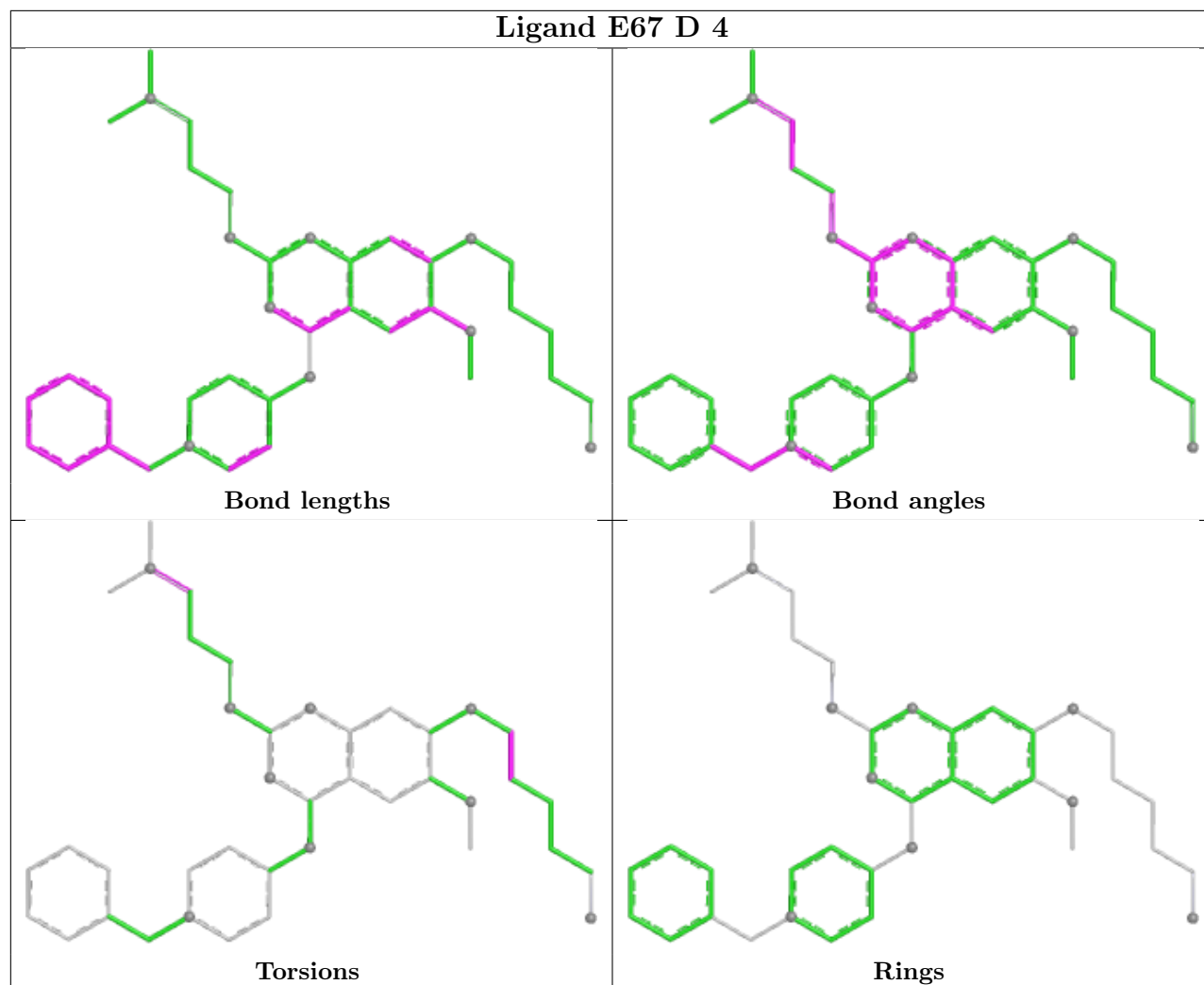
Ligand SAH D 104



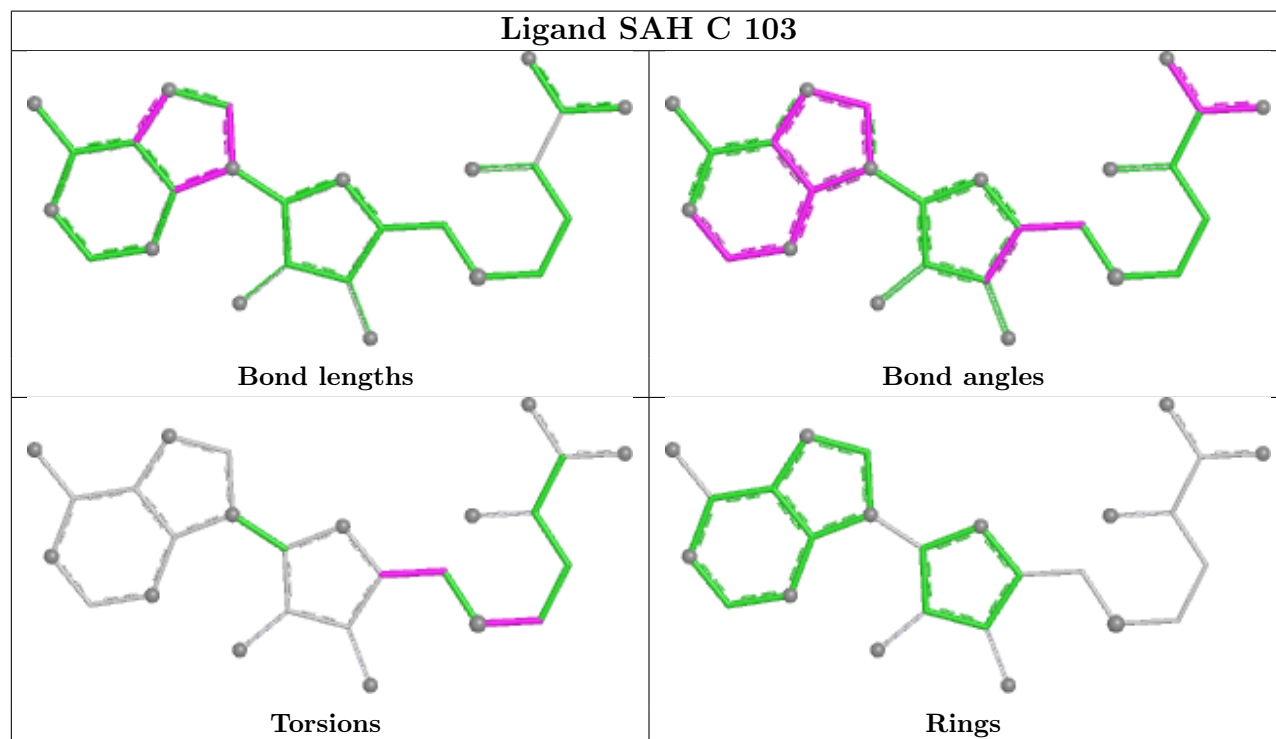
Ligand E67 A 1



Ligand E67 D 4



Ligand SAH C 103



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	255/285 (89%)	-0.13	6 (2%) 59 55	15, 35, 62, 71	0
1	B	258/285 (90%)	-0.27	1 (0%) 88 86	18, 33, 58, 70	0
1	C	258/285 (90%)	-0.26	2 (0%) 82 80	15, 33, 56, 66	0
1	D	256/285 (89%)	0.02	2 (0%) 82 80	23, 44, 64, 75	0
All	All	1027/1140 (90%)	-0.16	11 (1%) 78 75	15, 36, 61, 75	0

The worst 5 of 11 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	977	ARG	3.1
1	B	1148	ASN	2.9
1	D	976	GLU	2.5
1	A	1223	PHE	2.2
1	C	998	VAL	2.2

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](#)

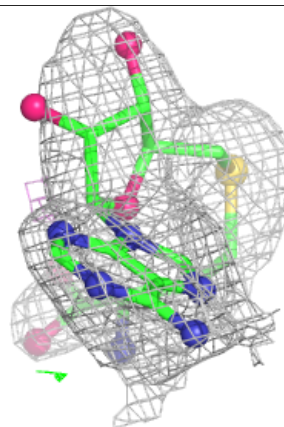
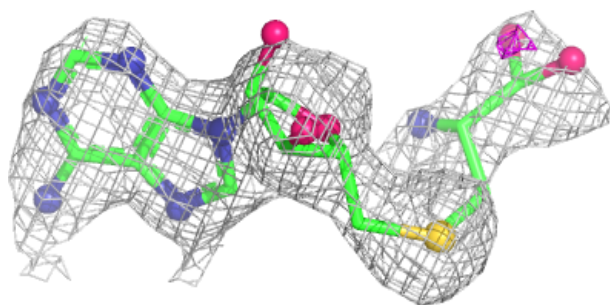
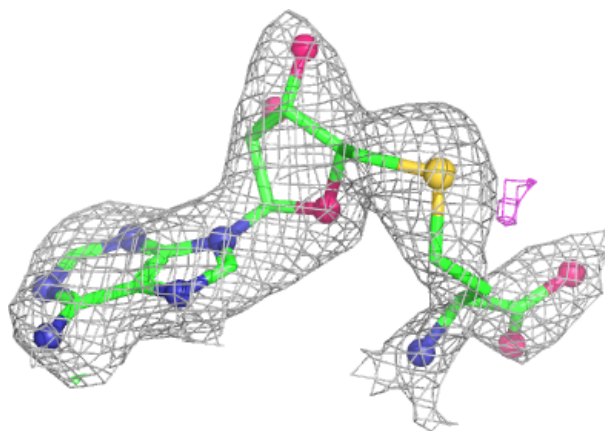
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	SAH	D	104	26/26	0.88	0.13	66,67,68,69	0
3	E67	A	1	40/40	0.90	0.13	42,49,65,66	0
3	E67	D	4	40/40	0.91	0.11	40,49,63,64	0
3	E67	C	1236	40/40	0.91	0.11	37,43,60,61	0
4	SAH	C	103	26/26	0.92	0.10	51,57,59,60	0
3	E67	B	2	40/40	0.92	0.10	37,41,53,54	0
2	ZN	A	343	1/1	0.97	0.04	51,51,51,51	0
2	ZN	B	8	1/1	0.98	0.03	41,41,41,41	0
2	ZN	D	8	1/1	0.98	0.03	55,55,55,55	0
2	ZN	B	7	1/1	0.99	0.01	31,31,31,31	0
2	ZN	A	341	1/1	0.99	0.02	18,18,18,18	0
2	ZN	C	3	1/1	0.99	0.04	25,25,25,25	0
2	ZN	C	4	1/1	0.99	0.02	46,46,46,46	0
2	ZN	D	5	1/1	0.99	0.02	37,37,37,37	0
2	ZN	D	6	1/1	0.99	0.03	32,32,32,32	0
2	ZN	D	7	1/1	0.99	0.03	37,37,37,37	0
2	ZN	B	5	1/1	1.00	0.01	25,25,25,25	0
2	ZN	B	6	1/1	1.00	0.03	24,24,24,24	0
2	ZN	A	342	1/1	1.00	0.01	19,19,19,19	0
2	ZN	A	340	1/1	1.00	0.02	22,22,22,22	0
2	ZN	C	1	1/1	1.00	0.02	26,26,26,26	0
2	ZN	C	2	1/1	1.00	0.02	24,24,24,24	0

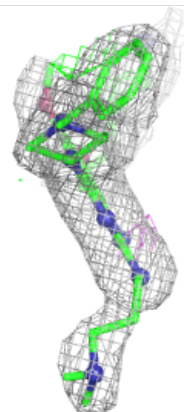
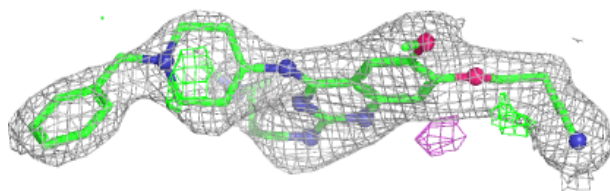
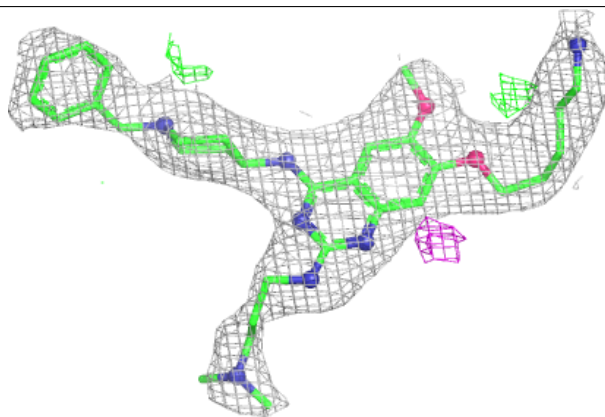
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around SAH D 104:

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

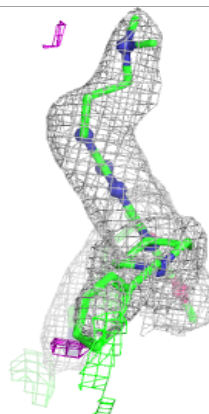
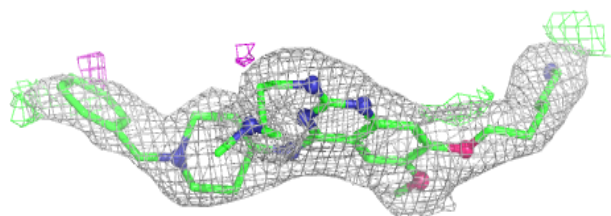
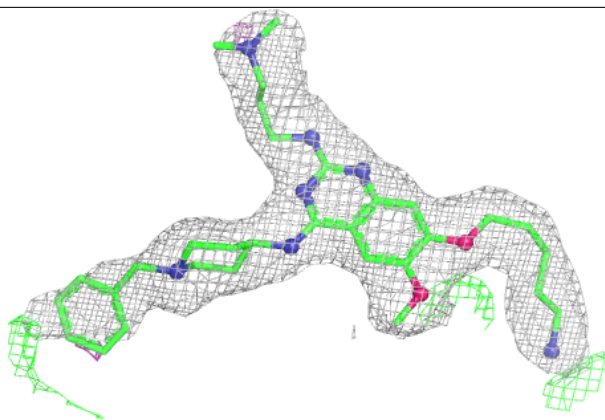
**Electron density around E67 A 1:**

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



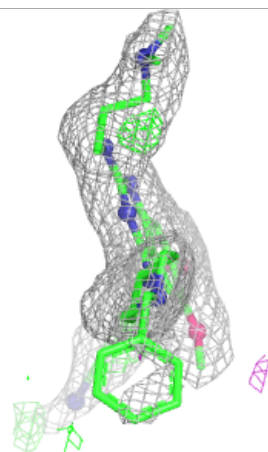
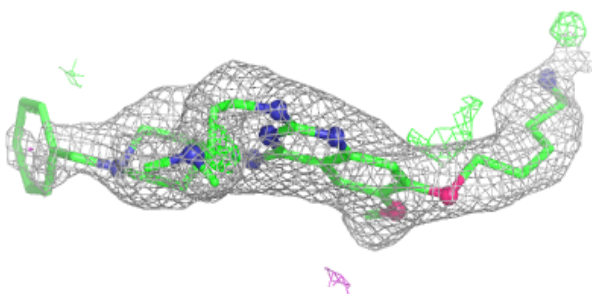
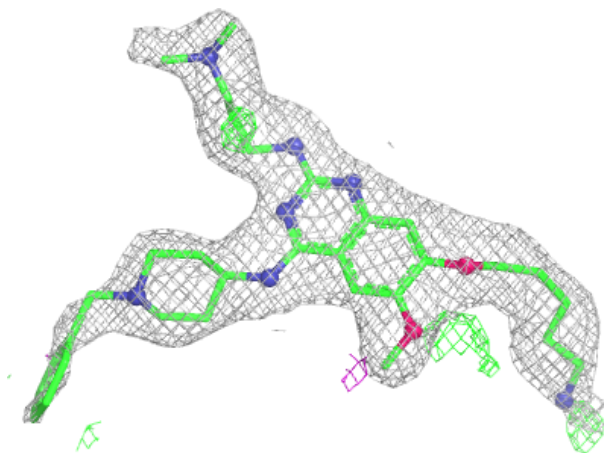
Electron density around E67 D 4:

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



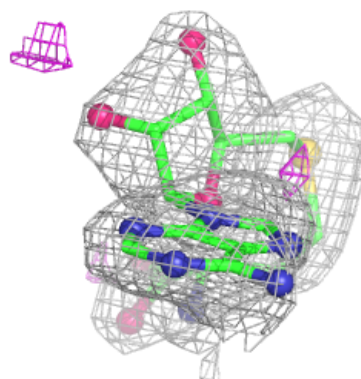
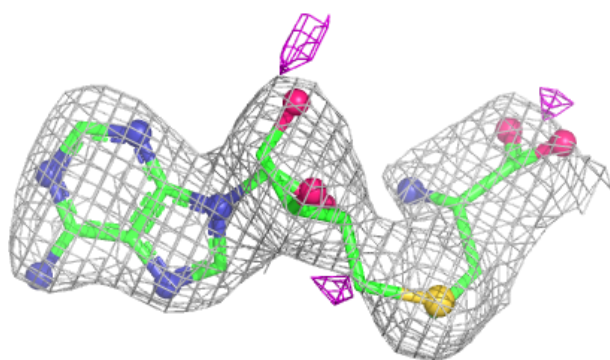
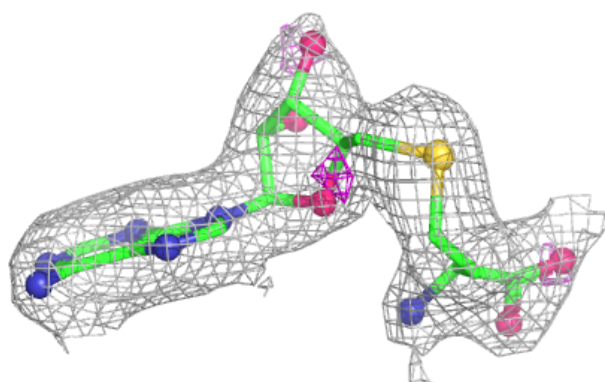
Electron density around E67 C 1236:

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

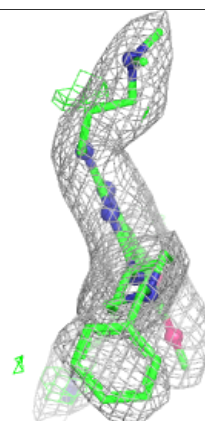
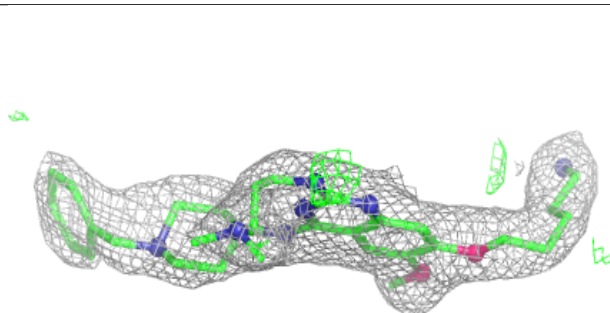
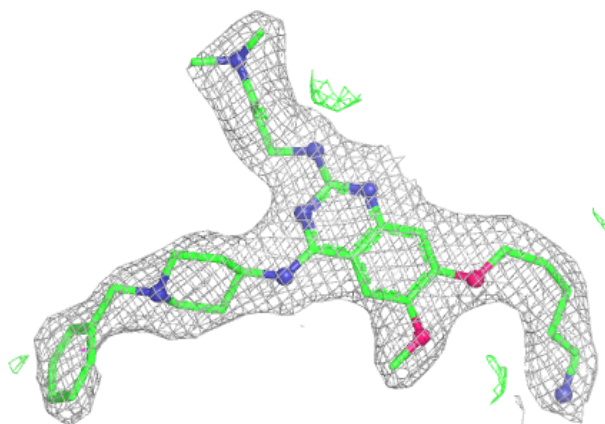


Electron density around SAH C 103:

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

**Electron density around E67 B 2:**

$2mF_o-DF_c$ (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.