



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 07:20 PM UTC

PDB ID : 9C4M / pdb_00009c4m
Title : Crystal Structure of A. baumannii GuaB dCBS with inhibitor G6 (3826)
Authors : Harris, S.F.; Wu, P.
Deposited on : 2024-06-04
Resolution : 2.48 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

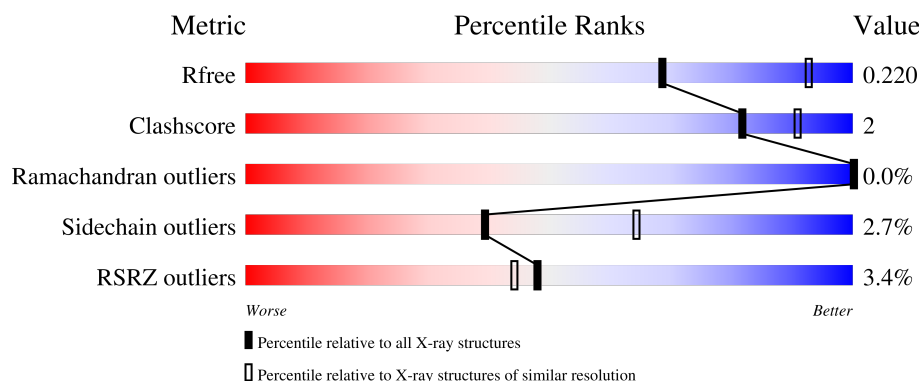
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.48 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	7589 (2.50-2.46)
Clashscore	190562	8295 (2.50-2.46)
Ramachandran outliers	187476	8164 (2.50-2.46)
Sidechain outliers	187428	8166 (2.50-2.46)
RSRZ outliers	180081	7593 (2.50-2.46)

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	395	 3% 80% 15%
1	B	395	 4% 78% 15%
1	C	395	 3% 76% 15%
1	D	395	 3% 78% 15%
1	E	395	 3% 77% 15%

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Mol	Chain	Length	Quality of chain
1	F	395	3% 77% 7% 15%
1	G	395	2% 77% 7% 15%
1	H	395	3% 78% 6% 15%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 22158 atoms, of which 304 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 Inosine-5'-monophosphate dehydrogenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	335	Total	C	N	O	S	0	3	0
			2463	1545	436	466	16			
1	B	335	Total	C	N	O	S	0	1	0
			2446	1536	431	463	16			
1	C	335	Total	C	N	O	S	0	1	0
			2446	1536	431	463	16			
1	D	335	Total	C	N	O	S	0	2	0
			2452	1539	432	465	16			
1	E	335	Total	C	N	O	S	0	4	0
			2469	1548	437	468	16			
1	F	335	Total	C	N	O	S	0	2	0
			2452	1539	432	465	16			
1	G	335	Total	C	N	O	S	0	4	0
			2466	1546	434	470	16			
1	H	335	Total	C	N	O	S	0	3	0
			2458	1542	433	467	16			

There are 144 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-15	MET	-	initiating methionine	UNP P31002
A	-14	HIS	-	expression tag	UNP P31002
A	-13	HIS	-	expression tag	UNP P31002
A	-12	HIS	-	expression tag	UNP P31002
A	-11	HIS	-	expression tag	UNP P31002
A	-10	HIS	-	expression tag	UNP P31002
A	-9	HIS	-	expression tag	UNP P31002
A	-8	GLY	-	expression tag	UNP P31002
A	-7	GLU	-	expression tag	UNP P31002
A	-6	ASN	-	expression tag	UNP P31002
A	-5	LEU	-	expression tag	UNP P31002
A	-4	TYR	-	expression tag	UNP P31002
A	-3	PHE	-	expression tag	UNP P31002

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLN	-	expression tag	UNP P31002
A	-1	GLY	-	expression tag	UNP P31002
A	0	SER	-	expression tag	UNP P31002
A	340	ARG	PRO	conflict	UNP P31002
A	395	ALA	ARG	conflict	UNP P31002
B	-15	MET	-	initiating methionine	UNP P31002
B	-14	HIS	-	expression tag	UNP P31002
B	-13	HIS	-	expression tag	UNP P31002
B	-12	HIS	-	expression tag	UNP P31002
B	-11	HIS	-	expression tag	UNP P31002
B	-10	HIS	-	expression tag	UNP P31002
B	-9	HIS	-	expression tag	UNP P31002
B	-8	GLY	-	expression tag	UNP P31002
B	-7	GLU	-	expression tag	UNP P31002
B	-6	ASN	-	expression tag	UNP P31002
B	-5	LEU	-	expression tag	UNP P31002
B	-4	TYR	-	expression tag	UNP P31002
B	-3	PHE	-	expression tag	UNP P31002
B	-2	GLN	-	expression tag	UNP P31002
B	-1	GLY	-	expression tag	UNP P31002
B	0	SER	-	expression tag	UNP P31002
B	340	ARG	PRO	conflict	UNP P31002
B	395	ALA	ARG	conflict	UNP P31002
C	-15	MET	-	initiating methionine	UNP P31002
C	-14	HIS	-	expression tag	UNP P31002
C	-13	HIS	-	expression tag	UNP P31002
C	-12	HIS	-	expression tag	UNP P31002
C	-11	HIS	-	expression tag	UNP P31002
C	-10	HIS	-	expression tag	UNP P31002
C	-9	HIS	-	expression tag	UNP P31002
C	-8	GLY	-	expression tag	UNP P31002
C	-7	GLU	-	expression tag	UNP P31002
C	-6	ASN	-	expression tag	UNP P31002
C	-5	LEU	-	expression tag	UNP P31002
C	-4	TYR	-	expression tag	UNP P31002
C	-3	PHE	-	expression tag	UNP P31002
C	-2	GLN	-	expression tag	UNP P31002
C	-1	GLY	-	expression tag	UNP P31002
C	0	SER	-	expression tag	UNP P31002
C	340	ARG	PRO	conflict	UNP P31002
C	395	ALA	ARG	conflict	UNP P31002
D	-15	MET	-	initiating methionine	UNP P31002

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-14	HIS	-	expression tag	UNP P31002
D	-13	HIS	-	expression tag	UNP P31002
D	-12	HIS	-	expression tag	UNP P31002
D	-11	HIS	-	expression tag	UNP P31002
D	-10	HIS	-	expression tag	UNP P31002
D	-9	HIS	-	expression tag	UNP P31002
D	-8	GLY	-	expression tag	UNP P31002
D	-7	GLU	-	expression tag	UNP P31002
D	-6	ASN	-	expression tag	UNP P31002
D	-5	LEU	-	expression tag	UNP P31002
D	-4	TYR	-	expression tag	UNP P31002
D	-3	PHE	-	expression tag	UNP P31002
D	-2	GLN	-	expression tag	UNP P31002
D	-1	GLY	-	expression tag	UNP P31002
D	0	SER	-	expression tag	UNP P31002
D	340	ARG	PRO	conflict	UNP P31002
D	395	ALA	ARG	conflict	UNP P31002
E	-15	MET	-	initiating methionine	UNP P31002
E	-14	HIS	-	expression tag	UNP P31002
E	-13	HIS	-	expression tag	UNP P31002
E	-12	HIS	-	expression tag	UNP P31002
E	-11	HIS	-	expression tag	UNP P31002
E	-10	HIS	-	expression tag	UNP P31002
E	-9	HIS	-	expression tag	UNP P31002
E	-8	GLY	-	expression tag	UNP P31002
E	-7	GLU	-	expression tag	UNP P31002
E	-6	ASN	-	expression tag	UNP P31002
E	-5	LEU	-	expression tag	UNP P31002
E	-4	TYR	-	expression tag	UNP P31002
E	-3	PHE	-	expression tag	UNP P31002
E	-2	GLN	-	expression tag	UNP P31002
E	-1	GLY	-	expression tag	UNP P31002
E	0	SER	-	expression tag	UNP P31002
E	340	ARG	PRO	conflict	UNP P31002
E	395	ALA	ARG	conflict	UNP P31002
F	-15	MET	-	initiating methionine	UNP P31002
F	-14	HIS	-	expression tag	UNP P31002
F	-13	HIS	-	expression tag	UNP P31002
F	-12	HIS	-	expression tag	UNP P31002
F	-11	HIS	-	expression tag	UNP P31002
F	-10	HIS	-	expression tag	UNP P31002
F	-9	HIS	-	expression tag	UNP P31002

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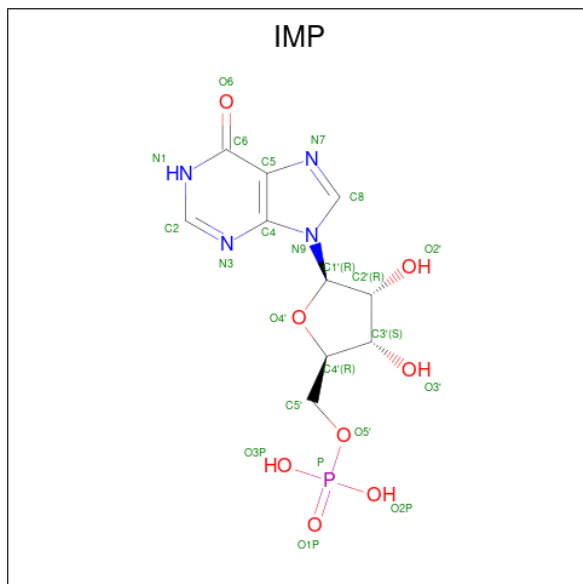
Chain	Residue	Modelled	Actual	Comment	Reference
F	-8	GLY	-	expression tag	UNP P31002
F	-7	GLU	-	expression tag	UNP P31002
F	-6	ASN	-	expression tag	UNP P31002
F	-5	LEU	-	expression tag	UNP P31002
F	-4	TYR	-	expression tag	UNP P31002
F	-3	PHE	-	expression tag	UNP P31002
F	-2	GLN	-	expression tag	UNP P31002
F	-1	GLY	-	expression tag	UNP P31002
F	0	SER	-	expression tag	UNP P31002
F	340	ARG	PRO	conflict	UNP P31002
F	395	ALA	ARG	conflict	UNP P31002
G	-15	MET	-	initiating methionine	UNP P31002
G	-14	HIS	-	expression tag	UNP P31002
G	-13	HIS	-	expression tag	UNP P31002
G	-12	HIS	-	expression tag	UNP P31002
G	-11	HIS	-	expression tag	UNP P31002
G	-10	HIS	-	expression tag	UNP P31002
G	-9	HIS	-	expression tag	UNP P31002
G	-8	GLY	-	expression tag	UNP P31002
G	-7	GLU	-	expression tag	UNP P31002
G	-6	ASN	-	expression tag	UNP P31002
G	-5	LEU	-	expression tag	UNP P31002
G	-4	TYR	-	expression tag	UNP P31002
G	-3	PHE	-	expression tag	UNP P31002
G	-2	GLN	-	expression tag	UNP P31002
G	-1	GLY	-	expression tag	UNP P31002
G	0	SER	-	expression tag	UNP P31002
G	340	ARG	PRO	conflict	UNP P31002
G	395	ALA	ARG	conflict	UNP P31002
H	-15	MET	-	initiating methionine	UNP P31002
H	-14	HIS	-	expression tag	UNP P31002
H	-13	HIS	-	expression tag	UNP P31002
H	-12	HIS	-	expression tag	UNP P31002
H	-11	HIS	-	expression tag	UNP P31002
H	-10	HIS	-	expression tag	UNP P31002
H	-9	HIS	-	expression tag	UNP P31002
H	-8	GLY	-	expression tag	UNP P31002
H	-7	GLU	-	expression tag	UNP P31002
H	-6	ASN	-	expression tag	UNP P31002
H	-5	LEU	-	expression tag	UNP P31002
H	-4	TYR	-	expression tag	UNP P31002
H	-3	PHE	-	expression tag	UNP P31002

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Chain	Residue	Modelled	Actual	Comment	Reference
H	-2	GLN	-	expression tag	UNP P31002
H	-1	GLY	-	expression tag	UNP P31002
H	0	SER	-	expression tag	UNP P31002
H	340	ARG	PRO	conflict	UNP P31002
H	395	ALA	ARG	conflict	UNP P31002

- Molecule 2 is INOSINIC ACID (CCD ID: IMP) (formula: $C_{10}H_{13}N_4O_8P$).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	B	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	C	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	D	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	E	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	F	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	G	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0
2	H	1	Total 36	C 10	H 13	N 4	O 8	P 1	0	0

- Molecule 3 is N-[4-chloro-3-(morpholin-4-yl)phenyl]-N 2 -[3-(hydroxymethyl)quinolin-6-yl]-L

A1AUF

- Molecule 4 is water.

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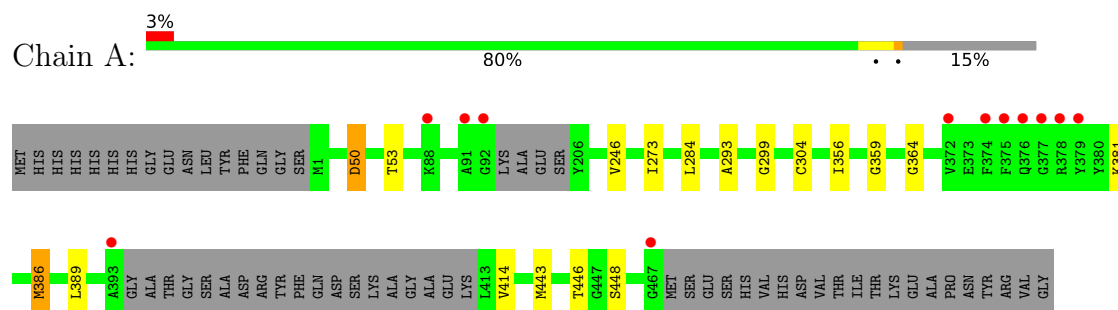
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	197	Total 197	O 197	0	0
4	D	203	Total 203	O 203	0	0
4	E	269	Total 269	O 269	0	0
4	F	228	Total 228	O 228	0	0
4	G	236	Total 236	O 236	0	0
4	H	255	Total 255	O 255	0	0

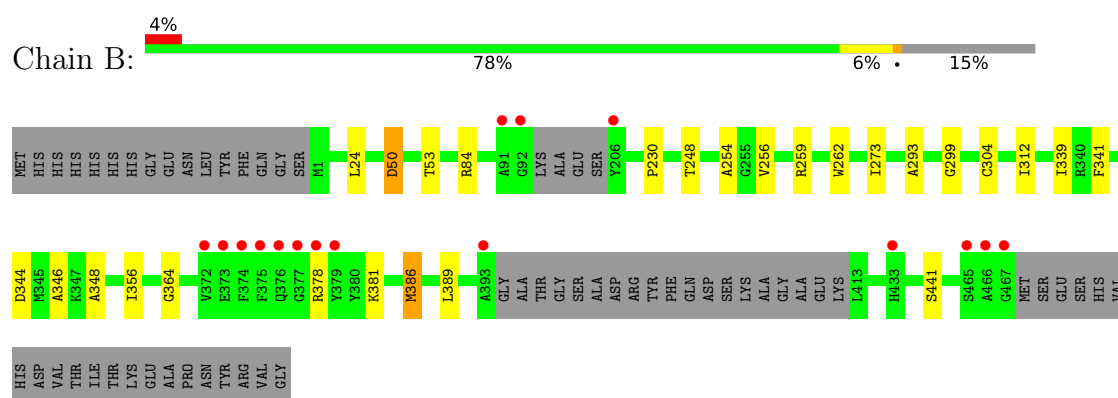
3 Residue-property plots [i](#)

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

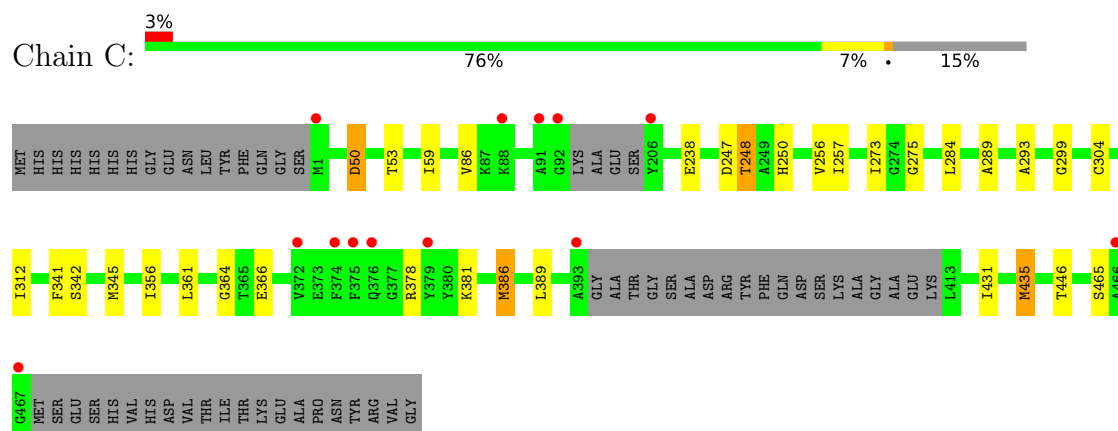
- Molecule 1: Inosine-5'-monophosphate dehydrogenase



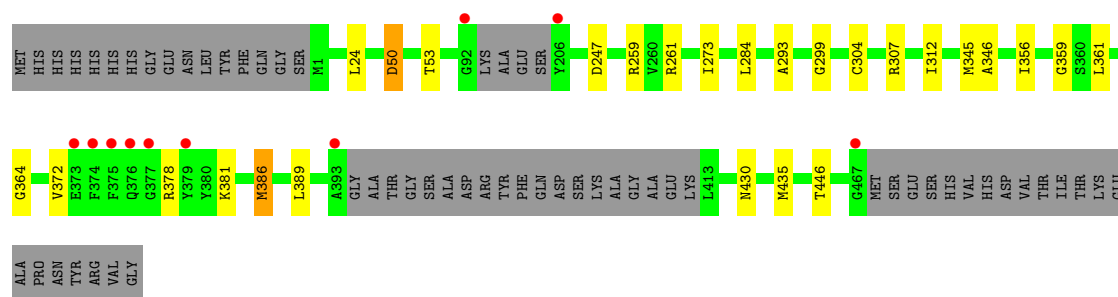
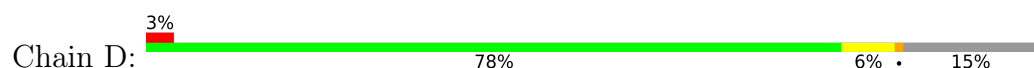
- Molecule 1: Inosine-5'-monophosphate dehydrogenase



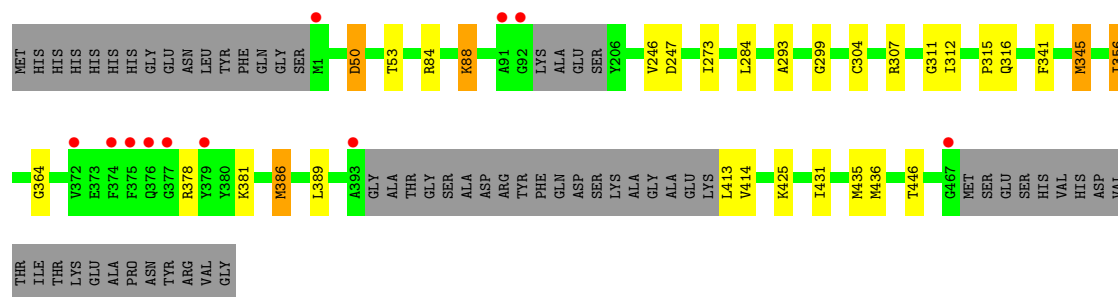
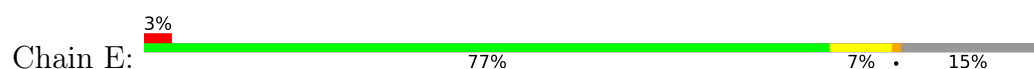
- Molecule 1: Inosine-5'-monophosphate dehydrogenase



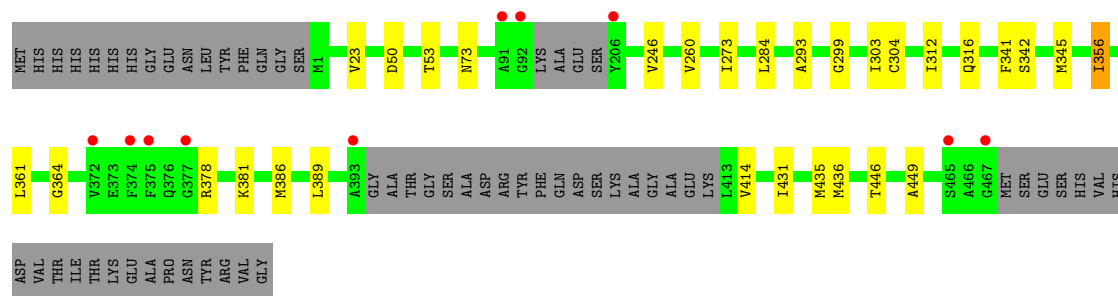
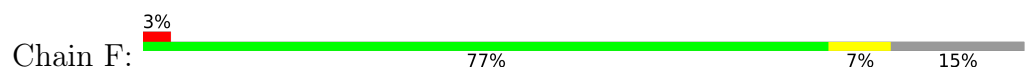
- Molecule 1: Inosine-5'-monophosphate dehydrogenase



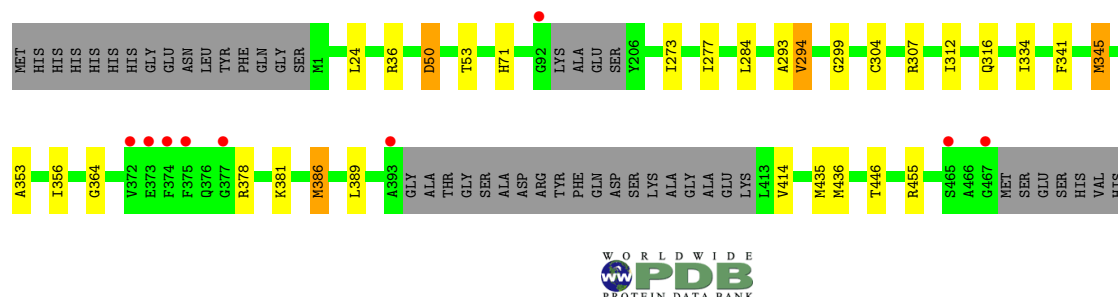
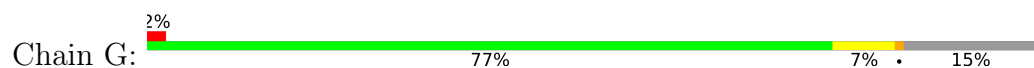
- Molecule 1: Inosine-5'-monophosphate dehydrogenase



- Molecule 1: Inosine-5'-monophosphate dehydrogenase

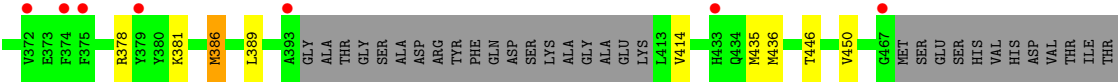
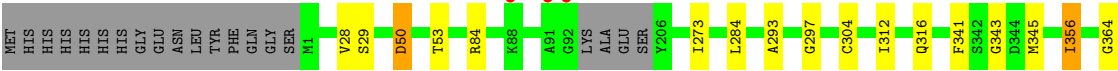
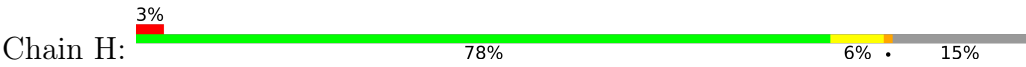


- Molecule 1: Inosine-5'-monophosphate dehydrogenase



ASP
VAL
THR
ILE
THR
LYS
GLU
ALA
PRO
ASN
TYR
ARG
VAL
GLY

● Molecule 1: Inosine-5'-monophosphate dehydrogenase



LYS
GLU
ALA
PRO
ASN
TYR
ARG
VAL
GLY

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	103.16Å 126.99Å 127.38Å 90.00° 102.96° 90.00°	Depositor
Resolution (Å)	78.82 – 2.48 78.82 – 2.48	Depositor EDS
% Data completeness (in resolution range)	99.8 (78.82-2.48) 99.8 (78.82-2.48)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.41 (at 2.48Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.166 , 0.210 0.176 , 0.220	Depositor DCC
R_{free} test set	5767 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	23.0	Xtriage
Anisotropy	0.837	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 55.0	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	0.94	EDS
Total number of atoms	22158	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.98% 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: IMP, A1AUF

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	0.82	1/2495 (0.0%)	1.32	6/3371 (0.2%)
1	B	0.84	1/2478 (0.0%)	1.31	8/3349 (0.2%)
1	C	0.84	2/2478 (0.1%)	1.33	4/3349 (0.1%)
1	D	0.85	1/2484 (0.0%)	1.33	10/3357 (0.3%)
1	E	0.85	2/2501 (0.1%)	1.33	10/3379 (0.3%)
1	F	0.83	1/2484 (0.0%)	1.32	7/3357 (0.2%)
1	G	0.84	2/2498 (0.1%)	1.33	5/3376 (0.1%)
1	H	0.84	2/2490 (0.1%)	1.32	5/3365 (0.1%)
All	All	0.84	12/19908 (0.1%)	1.32	55/26903 (0.2%)

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	386	MET	SD-CE	-7.56	1.60	1.79
1	E	386	MET	SD-CE	-7.49	1.60	1.79
1	D	386	MET	SD-CE	-7.37	1.61	1.79
1	A	386	MET	SD-CE	-7.27	1.61	1.79
1	B	386	MET	SD-CE	-7.15	1.61	1.79
1	G	386	MET	SD-CE	-6.48	1.63	1.79
1	C	386	MET	SD-CE	-6.25	1.64	1.79
1	E	414	VAL	CA-C	6.01	1.58	1.52
1	F	414	VAL	CA-C	5.98	1.58	1.52
1	C	435	MET	SD-CE	-5.53	1.65	1.79
1	H	414	VAL	CA-C	5.50	1.57	1.52
1	G	414	VAL	CA-C	5.12	1.57	1.52

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	247	ASP	CA-CB-CG	7.02	119.62	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	50	ASP	CA-CB-CG	7.01	119.61	112.60
1	B	50	ASP	CA-CB-CG	6.99	119.59	112.60
1	G	50	ASP	CA-CB-CG	6.92	119.52	112.60
1	A	50	ASP	CA-CB-CG	6.83	119.44	112.60
1	D	50	ASP	CA-CB-CG	6.71	119.31	112.60
1	H	50	ASP	CA-CB-CG	6.45	119.05	112.60
1	E	50	ASP	CA-CB-CG	6.38	118.98	112.60
1	H	53	THR	N-CA-C	6.10	118.35	108.34
1	F	50	ASP	CA-CB-CG	6.10	118.70	112.60
1	F	246	VAL	CA-C-N	5.93	131.13	122.41
1	F	246	VAL	C-N-CA	5.93	131.13	122.41
1	D	53	THR	N-CA-C	5.92	118.06	108.34
1	B	53	THR	N-CA-C	5.92	118.05	108.34
1	F	53	THR	N-CA-C	5.87	117.97	108.34
1	C	53	THR	N-CA-C	5.85	117.93	108.34
1	G	53	THR	N-CA-C	5.83	117.91	108.34
1	E	53	THR	N-CA-C	5.78	117.82	108.34
1	A	53	THR	N-CA-C	5.70	117.69	108.34
1	G	345	MET	CA-C-N	5.68	127.82	120.44
1	G	345	MET	C-N-CA	5.68	127.82	120.44
1	D	359	GLY	CA-C-N	5.52	128.00	120.54
1	D	359	GLY	C-N-CA	5.52	128.00	120.54
1	E	247	ASP	CA-CB-CG	5.51	118.11	112.60
1	D	261	ARG	CA-C-N	5.47	127.56	120.44
1	D	261	ARG	C-N-CA	5.47	127.56	120.44
1	A	246	VAL	CA-C-N	5.47	129.69	122.42
1	A	246	VAL	C-N-CA	5.47	129.69	122.42
1	B	254	ALA	CA-C-N	5.43	126.13	119.99
1	B	254	ALA	C-N-CA	5.43	126.13	119.99
1	F	316	GLN	N-CA-C	5.37	117.82	111.33
1	B	344	ASP	CA-C-N	5.36	127.73	120.44
1	B	344	ASP	C-N-CA	5.36	127.73	120.44
1	F	260	VAL	CA-C-N	5.35	127.39	120.44
1	F	260	VAL	C-N-CA	5.35	127.39	120.44
1	D	346	ALA	CA-C-N	5.28	127.35	120.28
1	D	346	ALA	C-N-CA	5.28	127.35	120.28
1	E	316	GLN	N-CA-C	5.25	117.69	111.33
1	E	345	MET	CA-C-N	5.23	127.23	120.44
1	E	345	MET	C-N-CA	5.23	127.23	120.44
1	H	316	GLN	N-CA-C	5.21	117.63	111.33
1	D	430	ASN	CA-CB-CG	5.12	117.72	112.60
1	E	315	PRO	CA-C-N	5.11	127.38	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	315	PRO	C-N-CA	5.11	127.38	120.38
1	B	346	ALA	CA-C-N	5.09	127.06	120.44
1	B	346	ALA	C-N-CA	5.09	127.06	120.44
1	H	343	GLY	CA-C-N	5.08	127.09	120.28
1	H	343	GLY	C-N-CA	5.08	127.09	120.28
1	E	246	VAL	CA-C-N	5.03	129.80	122.41
1	E	246	VAL	C-N-CA	5.03	129.80	122.41
1	A	359	GLY	CA-C-N	5.03	127.33	120.54
1	A	359	GLY	C-N-CA	5.03	127.33	120.54
1	G	316	GLN	N-CA-C	5.01	117.39	111.33
1	C	366	GLU	CA-C-N	5.01	127.92	120.31
1	C	366	GLU	C-N-CA	5.01	127.92	120.31

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2463	0	2521	7	0
1	B	2446	0	2505	12	0
1	C	2446	0	2505	19	0
1	D	2452	0	2509	12	0
1	E	2469	0	2525	15	0
1	F	2452	0	2509	15	0
1	G	2466	0	2516	14	0
1	H	2458	0	2513	12	0
2	A	23	13	11	0	0
2	B	23	13	11	0	0
2	C	23	13	11	0	0
2	D	23	13	11	0	0
2	E	23	13	11	0	0
2	F	23	13	11	0	0
2	G	23	13	11	0	0
2	H	23	13	11	0	0
3	A	31	25	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	31	25	0	0	0
3	C	31	25	0	0	0
3	D	31	25	0	0	0
3	E	31	25	0	0	0
3	F	31	25	0	0	0
3	G	31	25	0	0	0
3	H	31	25	0	0	0
4	A	188	0	0	0	0
4	B	194	0	0	1	0
4	C	197	0	0	1	0
4	D	203	0	0	1	0
4	E	269	0	0	0	0
4	F	228	0	0	2	0
4	G	236	0	0	0	0
4	H	255	0	0	1	0
All	All	21854	304	20191	99	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 2.

All (99) 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:E:345:MET:SD	1:E:435:MET:HE3	2.20	0.82
1:C:248:THR:HG21	1:C:256:VAL:HG21	1.63	0.80
1:B:84:ARG:HD3	4:B:1008:HOH:O	1.89	0.72
1:C:361:LEU:HD13	1:C:435:MET:HE2	1.71	0.72
1:D:361:LEU:HD13	1:D:435:MET:HE2	1.71	0.72
1:G:345:MET:SD	1:G:435:MET:HE3	2.34	0.67
1:D:364:GLY:HA2	1:D:381:LYS:HB2	1.77	0.66
1:C:386:MET:HE2	1:C:386:MET:HA	1.78	0.65
1:D:386:MET:HA	1:D:386:MET:HE2	1.78	0.65
1:E:345:MET:HE1	1:E:436:MET:HE1	1.78	0.65
1:A:386:MET:HA	1:A:386:MET:HE2	1.79	0.63
1:B:386:MET:HA	1:B:386:MET:HE2	1.79	0.63
1:B:364:GLY:HA2	1:B:381:LYS:HB2	1.81	0.62
1:H:386:MET:HA	1:H:386:MET:HE2	1.81	0.62
1:E:386:MET:HA	1:E:386:MET:HE2	1.80	0.61
1:F:345:MET:HE1	1:F:436:MET:HE1	1.82	0.60
1:C:364:GLY:HA2	1:C:381:LYS:HB2	1.84	0.59
1:G:386:MET:HE2	1:G:386:MET:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:ASP:CG	1:C:386:MET:HE1	2.28	0.59
1:H:50:ASP:CG	1:H:386:MET:HE1	2.29	0.58
1:A:50:ASP:CG	1:A:386:MET:HE1	2.30	0.57
1:C:345:MET:HE3	1:C:435:MET:HE3	1.85	0.57
1:F:345:MET:SD	1:F:435:MET:HE3	2.45	0.57
1:G:50:ASP:CG	1:G:386:MET:HE1	2.30	0.57
1:B:50:ASP:CG	1:B:386:MET:HE1	2.29	0.56
1:F:364:GLY:HA2	1:F:381:LYS:HB2	1.86	0.56
1:G:353:ALA:O	1:G:455:ARG:HD3	2.06	0.56
1:A:364:GLY:HA2	1:A:381:LYS:HB2	1.88	0.56
1:C:273:ILE:HG12	1:C:293:ALA:HB3	1.88	0.56
1:E:50:ASP:CG	1:E:386:MET:HE1	2.31	0.56
1:D:50:ASP:CG	1:D:386:MET:HE1	2.31	0.56
1:B:273:ILE:HG12	1:B:293:ALA:HB3	1.89	0.54
1:H:273:ILE:HG12	1:H:293:ALA:HB3	1.89	0.54
1:D:273:ILE:HG12	1:D:293:ALA:HB3	1.89	0.54
1:A:273:ILE:HG12	1:A:293:ALA:HB3	1.89	0.54
1:H:345:MET:SD	1:H:435:MET:HE3	2.48	0.54
1:C:248:THR:HG22	1:C:275:GLY:O	2.08	0.53
1:E:273:ILE:HG12	1:E:293:ALA:HB3	1.90	0.53
1:F:273:ILE:HG12	1:F:293:ALA:HB3	1.89	0.53
1:G:273:ILE:HG12	1:G:293:ALA:HB3	1.89	0.52
1:G:345:MET:HE1	1:G:436:MET:HE1	1.92	0.52
1:B:248:THR:HG21	1:B:256:VAL:HG22	1.92	0.52
1:C:248:THR:HG23	1:C:250:HIS:H	1.73	0.52
1:C:345:MET:HE3	1:C:435:MET:CE	2.41	0.51
1:G:364:GLY:HA2	1:G:381:LYS:HB2	1.92	0.51
1:C:361:LEU:CD1	1:C:435:MET:HE2	2.39	0.49
1:F:299:GLY:HA2	1:F:304:CYS:SG	2.53	0.48
1:F:361:LEU:HD13	1:F:435:MET:HE2	1.96	0.48
1:H:364:GLY:HA2	1:H:381:LYS:HB2	1.95	0.48
1:E:345:MET:HG2	1:E:356:ILE:HG21	1.96	0.47
1:E:364:GLY:HA2	1:E:381:LYS:HB2	1.97	0.47
1:F:312:ILE:HD11	1:G:446:THR:HG23	1.97	0.47
1:B:339:ILE:HG13	1:B:356:ILE:HG23	1.97	0.47
1:A:446:THR:HG23	1:D:312:ILE:HD11	1.96	0.46
1:E:84[A]:ARG:O	1:E:88:LYS:HG3	2.16	0.46
1:C:431:ILE:O	1:C:435:MET:HG2	2.15	0.45
1:G:277:ILE:HD11	1:G:294:VAL:HG13	1.98	0.45
1:B:230:PRO:HA	1:B:262:TRP:CH2	2.52	0.45
1:B:299:GLY:HA2	1:B:304:CYS:SG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:312:ILE:HD11	1:F:446:THR:HG23	1.98	0.45
1:E:84[B]:ARG:O	1:E:88:LYS:HG3	2.16	0.44
1:E:345:MET:HE1	1:E:436:MET:CE	2.44	0.44
1:F:345:MET:HG2	1:F:356:ILE:HG21	1.99	0.44
1:C:257:ILE:HG23	1:C:289:ALA:HB2	1.99	0.44
1:C:299:GLY:HA2	1:C:304:CYS:SG	2.57	0.44
1:C:247:ASP:HB3	4:C:1034:HOH:O	2.18	0.44
1:E:299:GLY:HA2	1:E:304:CYS:SG	2.58	0.43
1:G:299:GLY:HA2	1:G:304:CYS:SG	2.58	0.43
1:G:312:ILE:HD11	1:H:446:THR:HG23	2.01	0.43
1:H:84:ARG:HD3	4:H:983:HOH:O	2.18	0.43
1:F:345:MET:HE2	1:F:345:MET:HB3	1.91	0.43
1:D:345:MET:HE3	1:D:435:MET:HE3	2.00	0.43
1:F:342:SER:HB3	1:F:435:MET:HA	2.01	0.43
1:D:361:LEU:CD1	1:D:435:MET:HE2	2.44	0.43
1:A:299:GLY:HA2	1:A:304:CYS:SG	2.59	0.42
1:E:307:ARG:O	1:E:311:GLY:HA2	2.20	0.42
1:B:312:ILE:HD11	1:C:446:THR:HG23	2.01	0.42
1:F:73:ASN:HB2	1:F:386:MET:HE1	2.00	0.42
1:F:431:ILE:HG12	4:F:902:HOH:O	2.18	0.42
1:D:299:GLY:HA2	1:D:304:CYS:SG	2.60	0.42
1:H:345:MET:HG2	1:H:356:ILE:HG21	2.02	0.42
1:B:348:ALA:HB3	1:B:356:ILE:HD11	2.01	0.41
1:C:248:THR:HG23	1:C:250:HIS:N	2.35	0.41
1:H:29:SER:HB3	1:H:450:VAL:HG12	2.02	0.41
1:C:59:ILE:HG13	1:C:86:VAL:HG22	2.02	0.41
1:D:259:ARG:HD3	1:D:259:ARG:HA	1.87	0.41
1:F:23:VAL:HG21	1:F:449:ALA:HB2	2.01	0.41
1:A:443:MET:HB3	1:A:448:SER:O	2.21	0.41
1:F:23:VAL:HB	4:F:933:HOH:O	2.20	0.41
1:H:345:MET:HE2	1:H:345:MET:HB3	1.82	0.41
1:B:259:ARG:HA	1:B:259:ARG:HD3	1.94	0.41
1:D:386:MET:HE3	4:D:913:HOH:O	2.20	0.41
1:G:345:MET:HE2	1:G:345:MET:HB3	1.86	0.40
1:C:312:ILE:HD11	1:D:446:THR:HG23	2.03	0.40
1:E:446:THR:HG23	1:H:312:ILE:HD11	2.03	0.40
1:G:273:ILE:HD13	1:G:334:ILE:HD11	2.03	0.40
1:H:345:MET:HE1	1:H:436:MET:HE1	2.03	0.40
1:E:425:LYS:HB3	1:E:431:ILE:HD11	2.02	0.40
1:G:50:ASP:HA	1:G:71:HIS:CD2	2.57	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	332/395 (84%)	324 (98%)	8 (2%)	0	100	100
1	B	330/395 (84%)	323 (98%)	7 (2%)	0	100	100
1	C	330/395 (84%)	322 (98%)	8 (2%)	0	100	100
1	D	331/395 (84%)	324 (98%)	7 (2%)	0	100	100
1	E	333/395 (84%)	327 (98%)	6 (2%)	0	100	100
1	F	331/395 (84%)	325 (98%)	6 (2%)	0	100	100
1	G	333/395 (84%)	327 (98%)	6 (2%)	0	100	100
1	H	332/395 (84%)	326 (98%)	5 (2%)	1 (0%)	36	53
All	All	2652/3160 (84%)	2598 (98%)	53 (2%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	297	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	253/298 (85%)	249 (98%)	4 (2%)	55	77
1	B	251/298 (84%)	246 (98%)	5 (2%)	48	72
1	C	251/298 (84%)	242 (96%)	9 (4%)	31	55
1	D	252/298 (85%)	245 (97%)	7 (3%)	38	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	254/298 (85%)	247 (97%)	7 (3%)	38	63
1	F	252/298 (85%)	246 (98%)	6 (2%)	43	67
1	G	254/298 (85%)	245 (96%)	9 (4%)	32	55
1	H	253/298 (85%)	246 (97%)	7 (3%)	38	63
All	All	2020/2384 (85%)	1966 (97%)	54 (3%)	39	64

All (54) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	284	LEU
1	A	356	ILE
1	A	389	LEU
1	A	414	VAL
1	B	24	LEU
1	B	341	PHE
1	B	378	ARG
1	B	389	LEU
1	B	441	SER
1	C	238	GLU
1	C	248	THR
1	C	284	LEU
1	C	341	PHE
1	C	342	SER
1	C	356	ILE
1	C	378	ARG
1	C	389	LEU
1	C	465	SER
1	D	24	LEU
1	D	284	LEU
1	D	307	ARG
1	D	356	ILE
1	D	372	VAL
1	D	378	ARG
1	D	389	LEU
1	E	88	LYS
1	E	284	LEU
1	E	341	PHE
1	E	356	ILE
1	E	378	ARG
1	E	389	LEU
1	E	413	LEU

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Mol	Chain	Res	Type
1	F	284	LEU
1	F	303	ILE
1	F	341	PHE
1	F	356	ILE
1	F	378	ARG
1	F	389	LEU
1	G	24	LEU
1	G	36	ARG
1	G	284	LEU
1	G	294	VAL
1	G	307	ARG
1	G	341	PHE
1	G	356	ILE
1	G	378	ARG
1	G	389	LEU
1	H	28	VAL
1	H	284	LEU
1	H	304	CYS
1	H	341	PHE
1	H	356	ILE
1	H	378	ARG
1	H	389	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	6	GLN
1	A	456	GLN
1	A	457	ASN
1	B	330	GLN
1	B	457	ASN
1	C	457	ASN
1	D	330	GLN
1	D	457	ASN
1	F	457	ASN
1	H	64	ASN
1	H	208	ASN
1	H	250	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 ⓘ

16 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	A1AUF	B	802	-	34,34,34	0.29	0	47,47,47	0.70	0
3	A1AUF	H	802	-	34,34,34	0.28	0	47,47,47	0.64	0
2	IMP	B	801	-	25,25,25	0.42	0	37,38,38	0.50	0
3	A1AUF	E	802	-	34,34,34	0.26	0	47,47,47	0.65	0
3	A1AUF	F	802	-	34,34,34	0.31	0	47,47,47	0.65	0
2	IMP	F	801	-	25,25,25	0.36	0	37,38,38	0.50	0
2	IMP	D	801	-	25,25,25	0.47	0	37,38,38	0.49	0
3	A1AUF	A	802	-	34,34,34	0.28	0	47,47,47	0.69	0
3	A1AUF	G	802	-	34,34,34	0.26	0	47,47,47	0.69	0
2	IMP	G	801	-	25,25,25	0.42	0	37,38,38	0.53	0
3	A1AUF	C	802	-	34,34,34	0.27	0	47,47,47	0.70	0
2	IMP	A	801	-	25,25,25	0.50	1 (4%)	37,38,38	0.51	0
2	IMP	E	801	-	25,25,25	0.46	0	37,38,38	0.51	0
2	IMP	H	801	-	25,25,25	0.48	0	37,38,38	0.50	0
2	IMP	C	801	-	25,25,25	0.40	0	37,38,38	0.46	0
3	A1AUF	D	802	-	34,34,34	0.28	0	47,47,47	0.66	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
3	A1AUF	B	802	-	-	0/18/26/26	0/4/4/4
3	A1AUF	H	802	-	-	0/18/26/26	0/4/4/4
2	IMP	B	801	-	-	0/10/26/26	0/3/3/3
3	A1AUF	E	802	-	-	0/18/26/26	0/4/4/4
3	A1AUF	F	802	-	-	2/18/26/26	0/4/4/4
2	IMP	F	801	-	-	0/10/26/26	0/3/3/3
2	IMP	D	801	-	-	0/10/26/26	0/3/3/3
3	A1AUF	A	802	-	-	2/18/26/26	0/4/4/4
3	A1AUF	G	802	-	-	2/18/26/26	0/4/4/4
2	IMP	G	801	-	-	0/10/26/26	0/3/3/3
3	A1AUF	C	802	-	-	2/18/26/26	0/4/4/4
2	IMP	A	801	-	-	0/10/26/26	0/3/3/3
2	IMP	E	801	-	-	0/10/26/26	0/3/3/3
2	IMP	H	801	-	-	0/10/26/26	0/3/3/3
2	IMP	C	801	-	-	0/10/26/26	0/3/3/3
3	A1AUF	D	802	-	-	2/18/26/26	0/4/4/4

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	801	IMP	P-O3P	-2.04	1.47	1.54

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	802	A1AUF	C10-C11-N13-C18
3	D	802	A1AUF	C10-C11-N13-C18
3	C	802	A1AUF	C10-C11-N13-C18
3	A	802	A1AUF	C12-C11-N13-C18
3	D	802	A1AUF	C12-C11-N13-C18
3	G	802	A1AUF	C10-C11-N13-C18
3	C	802	A1AUF	C12-C11-N13-C18
3	G	802	A1AUF	C12-C11-N13-C18
3	F	802	A1AUF	C10-C11-N13-C18

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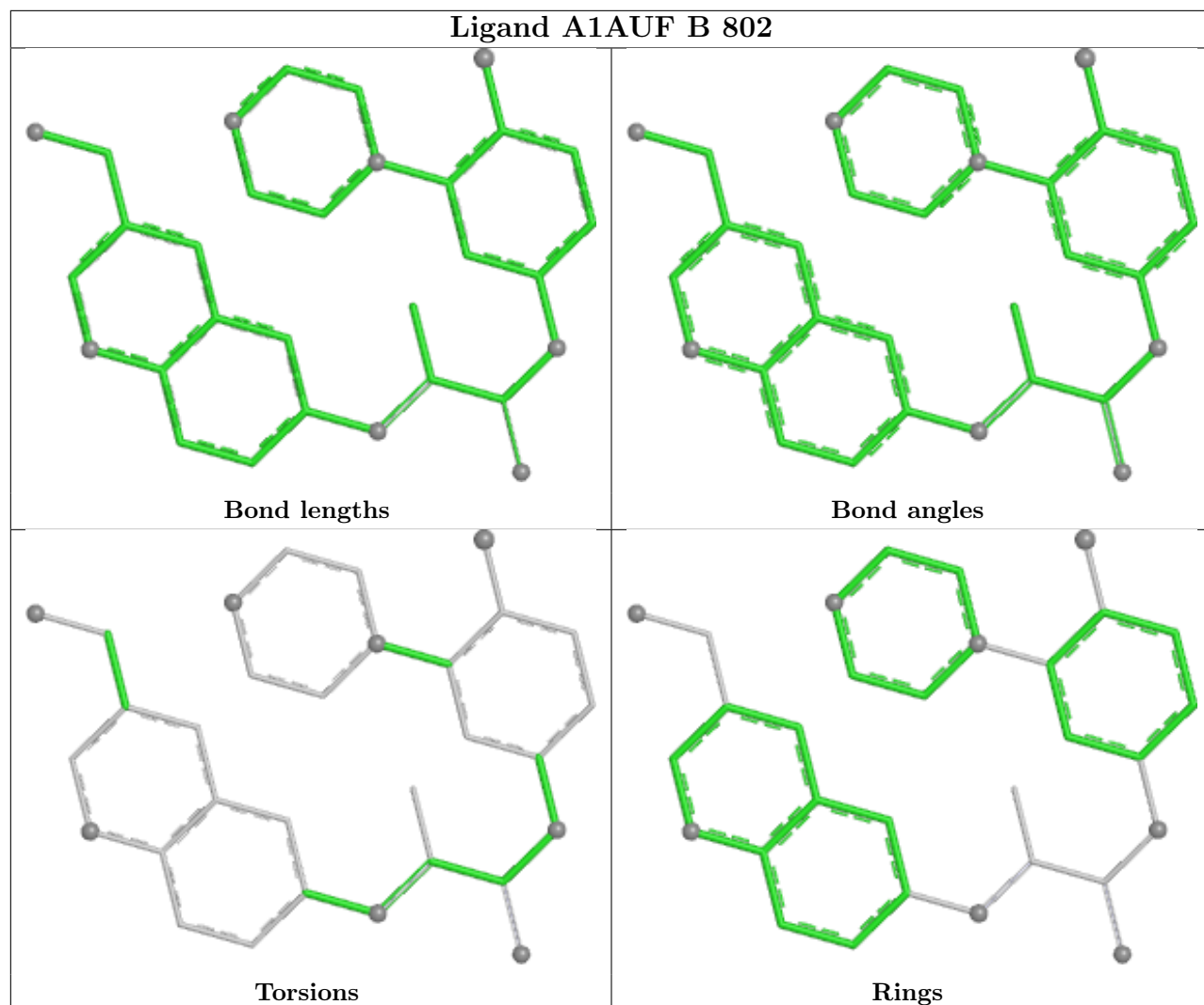
Mol	Chain	Res	Type	Atoms
3	F	802	A1AUF	C12-C11-N13-C18

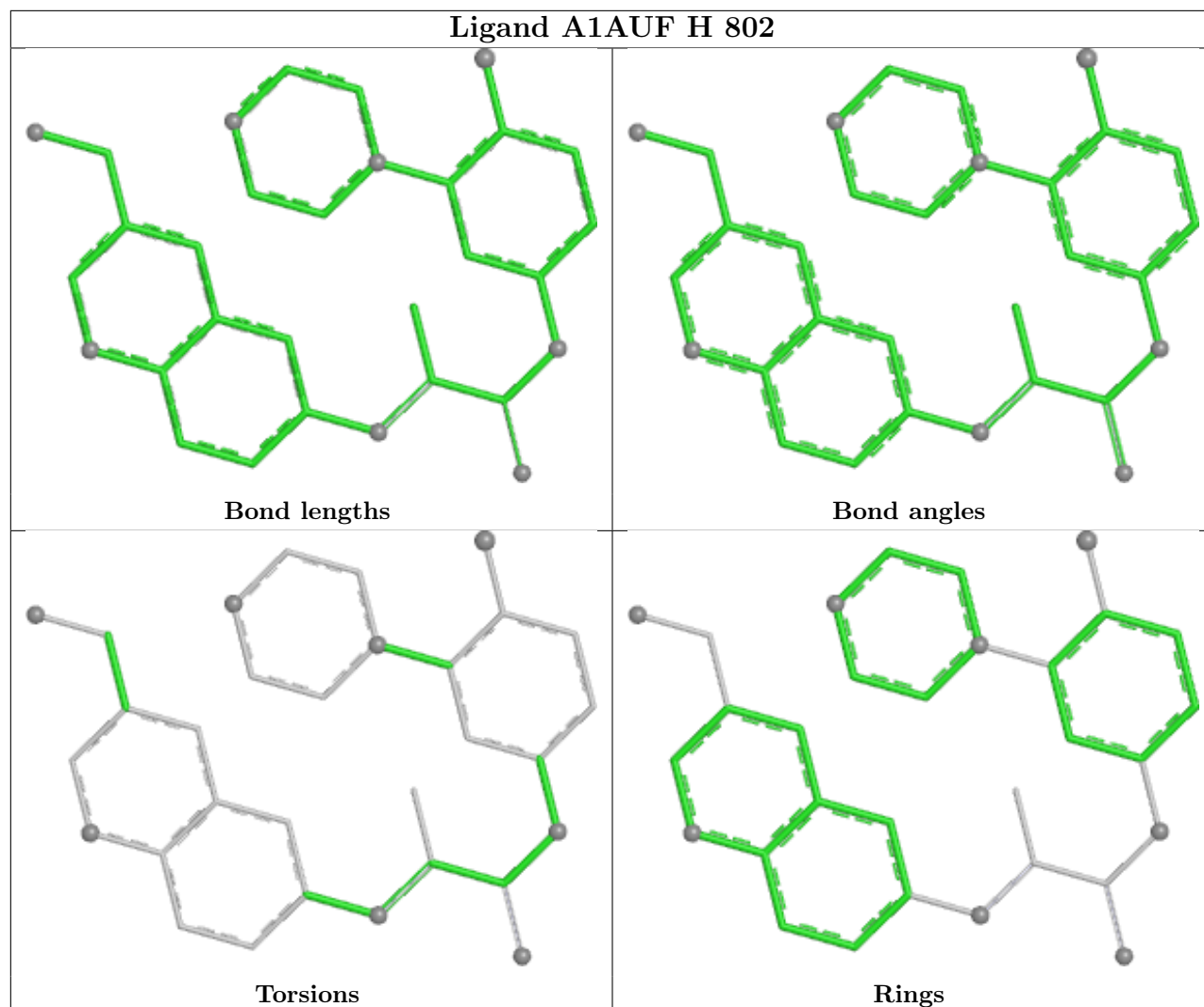
There are no ring outliers.

No monomer is involved in short contacts.

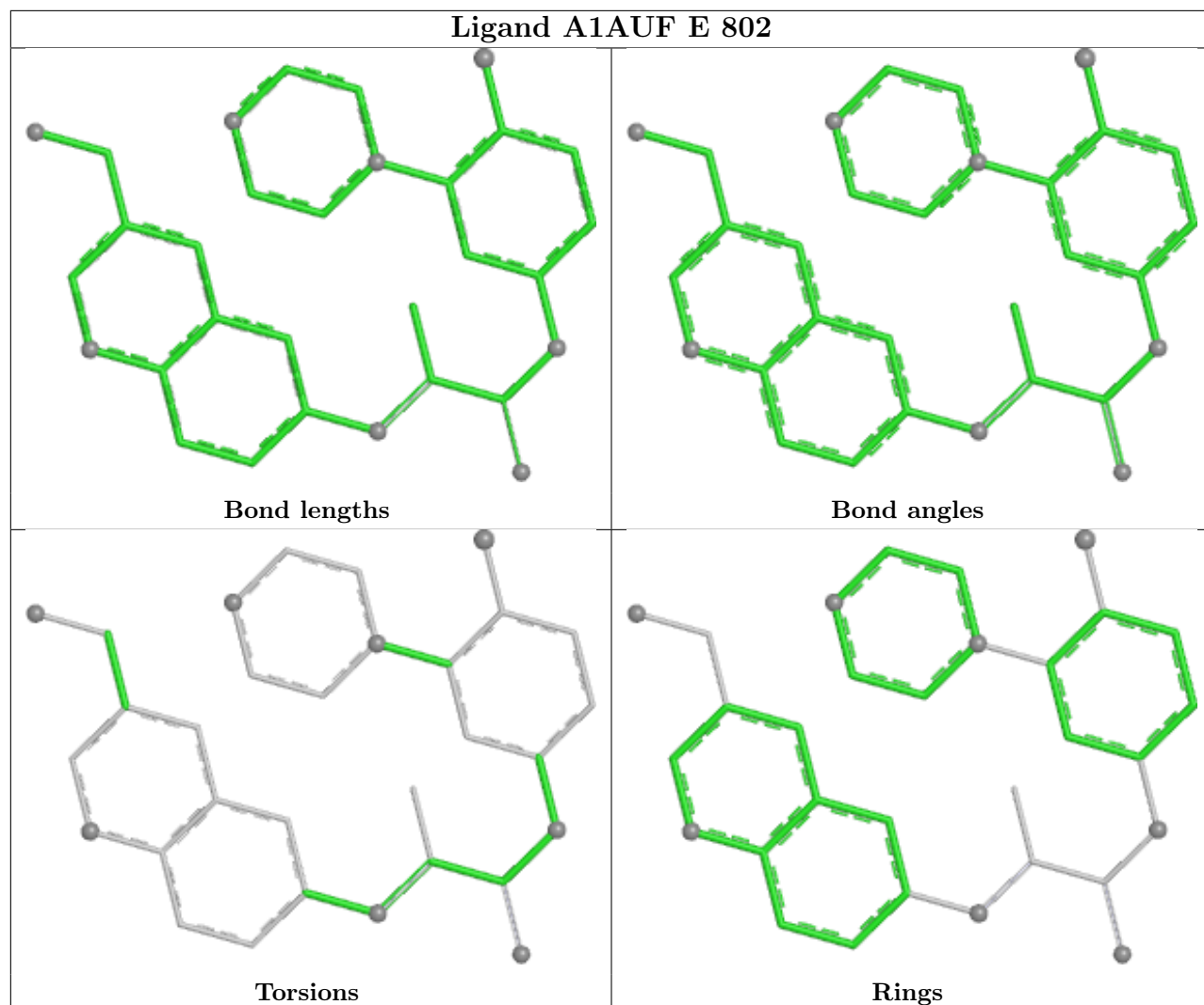
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 A1AUF B 802

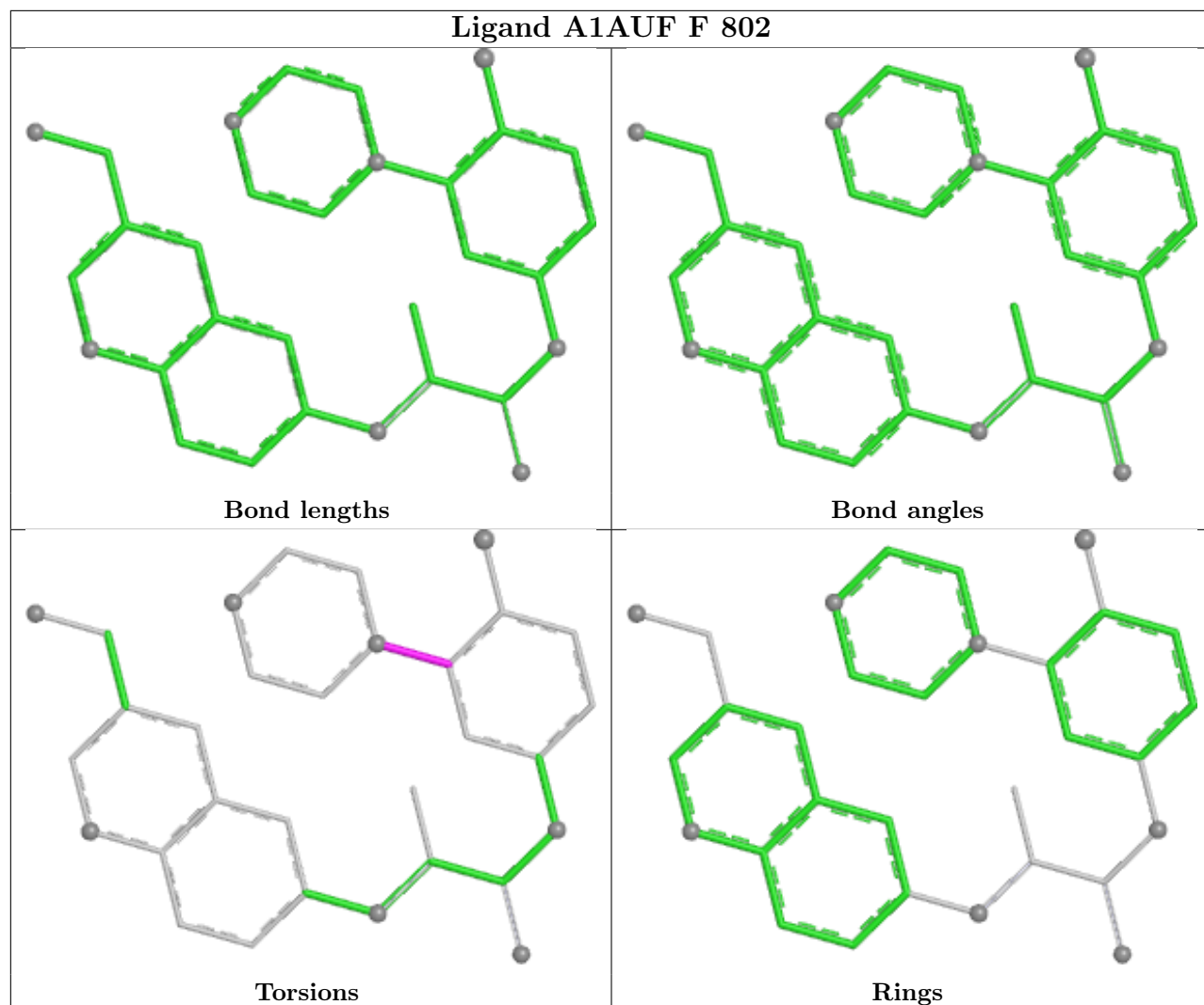


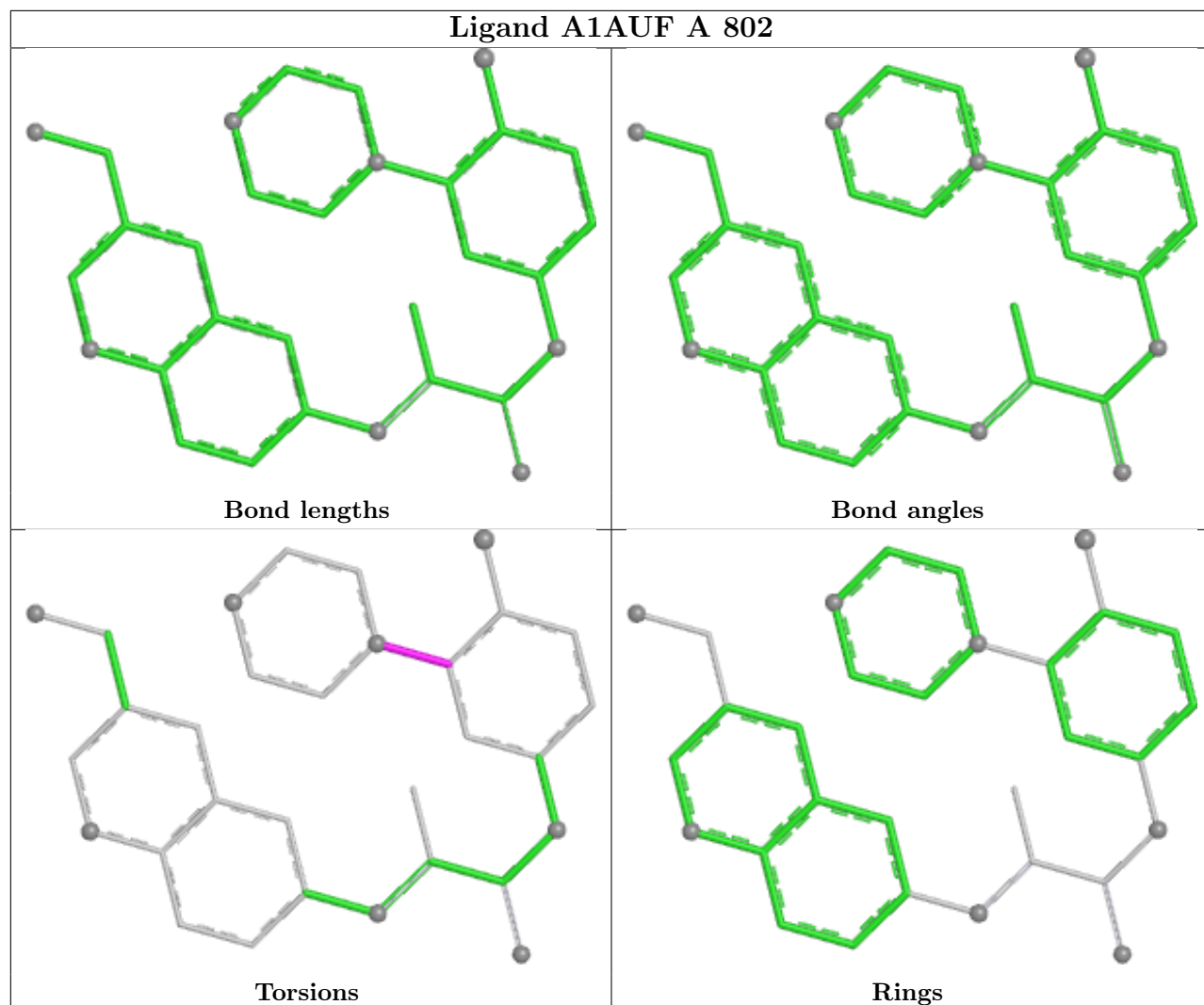


Ligand A1AUF E 802

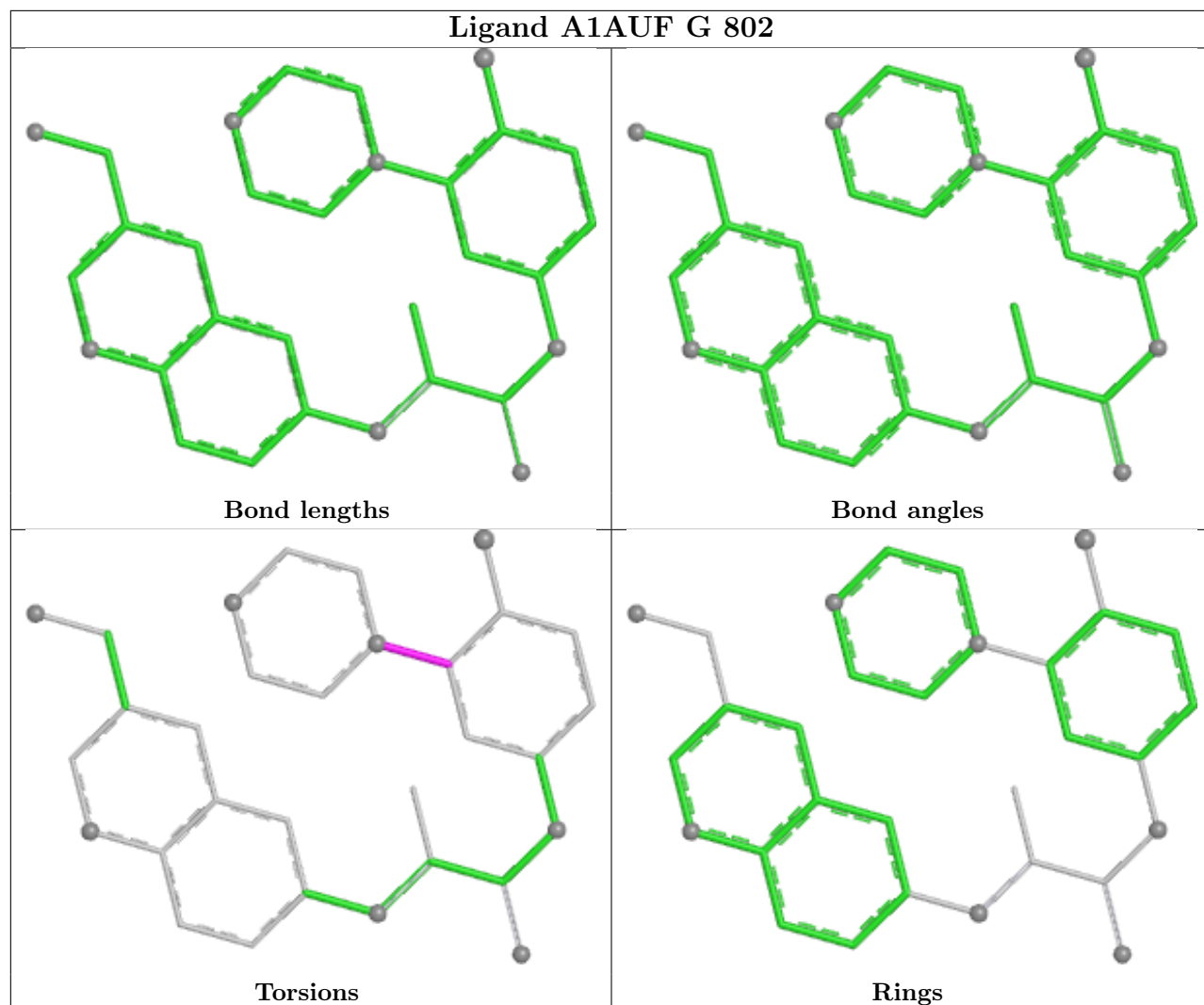


Ligand A1AUF F 802

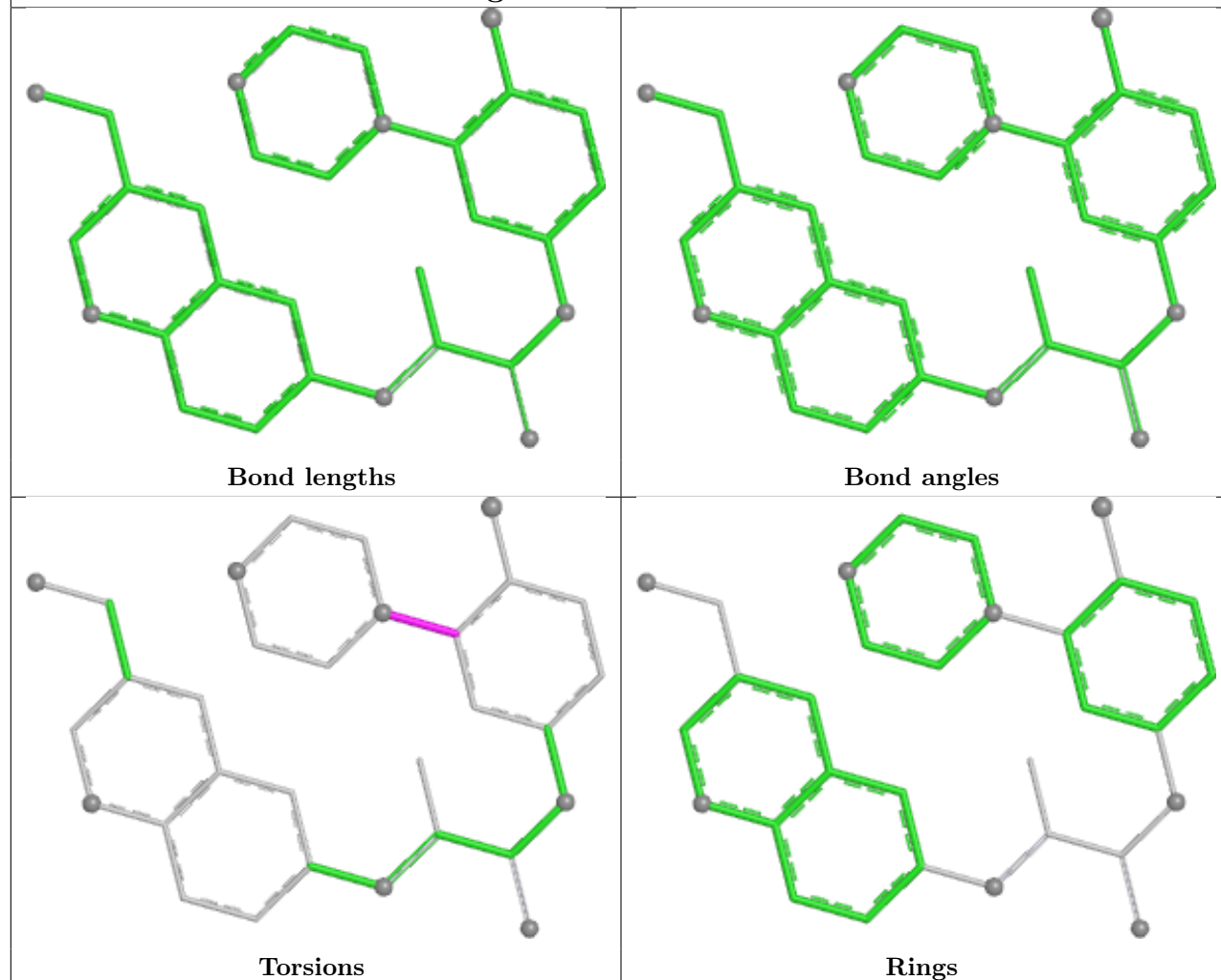




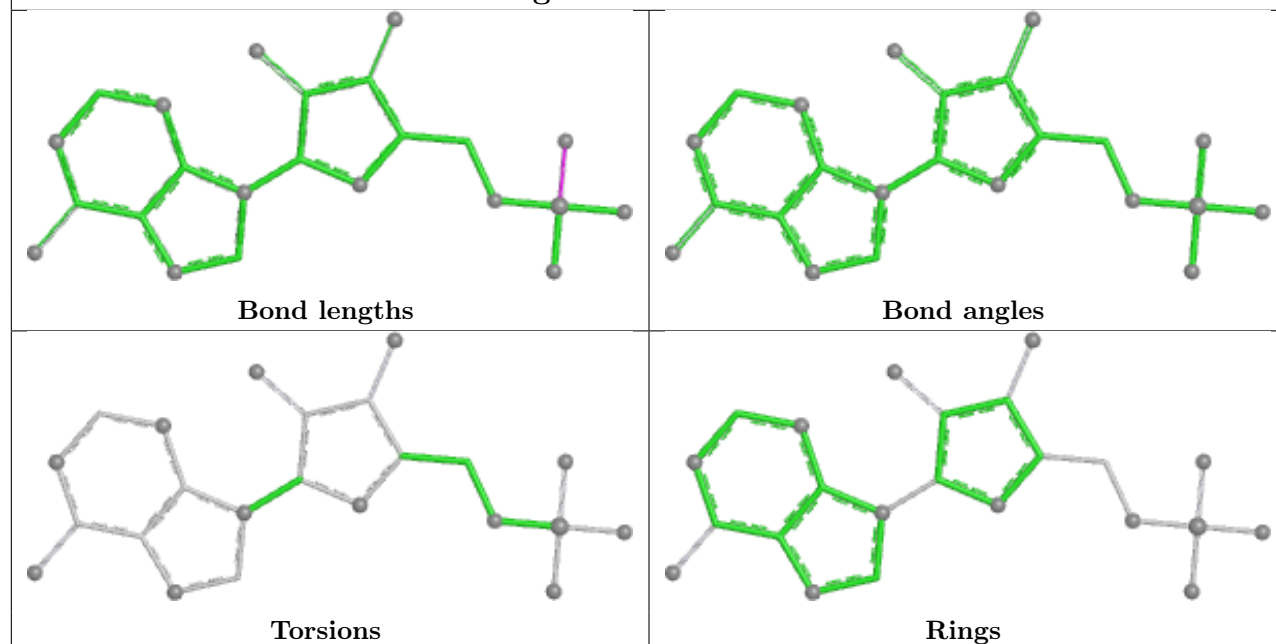
Ligand A1AUF G 802

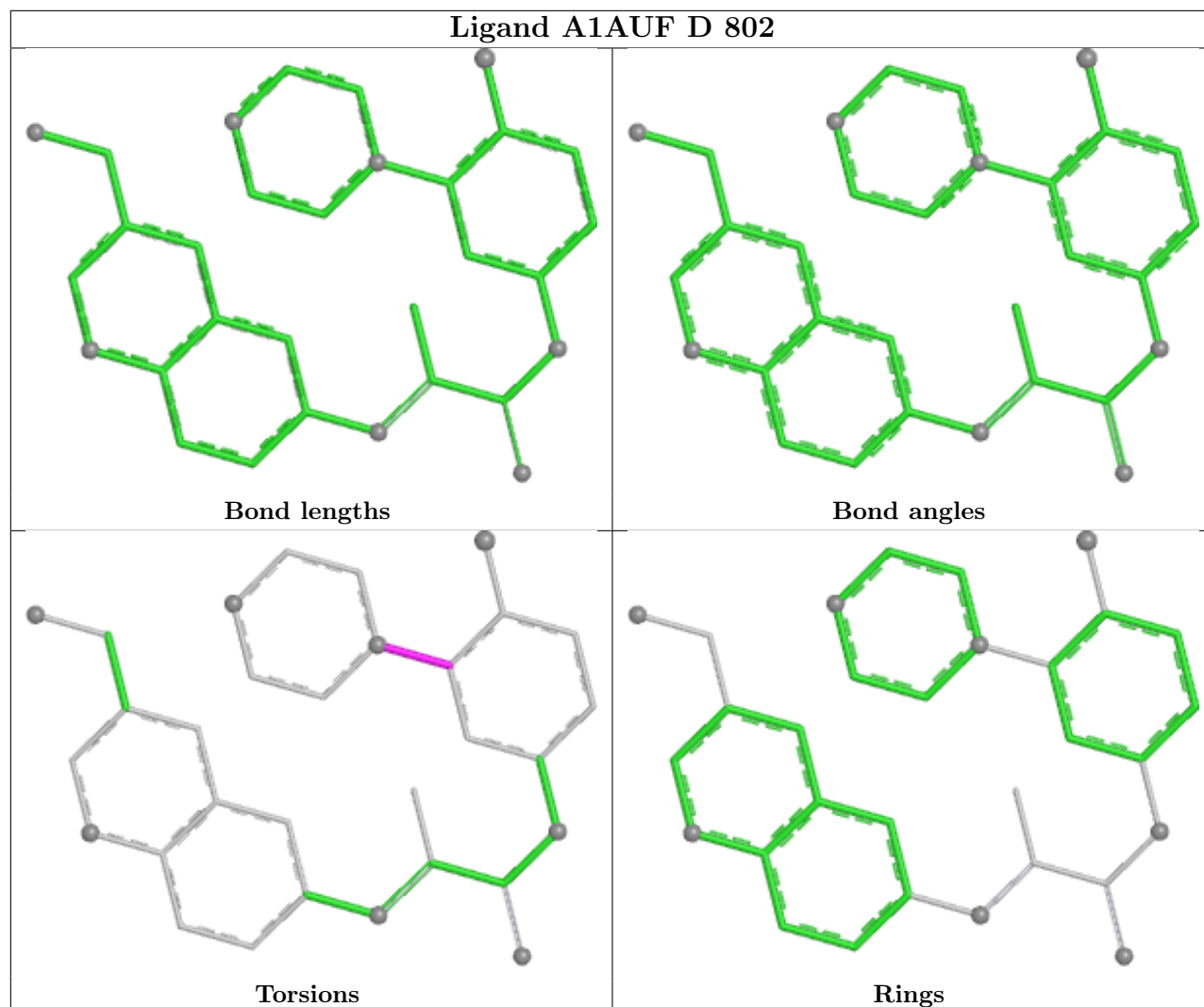


Ligand A1AUF C 802



Ligand IMP A 801





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	335/395 (84%)	-0.21	12 (3%)	46	42	9, 24, 57, 97	3 (0%)
1	B	335/395 (84%)	-0.16	16 (4%)	35	32	13, 25, 57, 99	1 (0%)
1	C	335/395 (84%)	-0.19	13 (3%)	43	39	13, 26, 56, 101	1 (0%)
1	D	335/395 (84%)	-0.19	10 (2%)	52	49	10, 25, 60, 101	2 (0%)
1	E	335/395 (84%)	-0.37	11 (3%)	49	45	8, 21, 49, 87	4 (1%)
1	F	335/395 (84%)	-0.29	10 (2%)	52	49	11, 23, 49, 87	2 (0%)
1	G	335/395 (84%)	-0.26	9 (2%)	56	52	10, 23, 51, 88	4 (1%)
1	H	335/395 (84%)	-0.37	10 (2%)	52	49	9, 22, 48, 87	3 (0%)
All	All	2680/3160 (84%)	-0.26	91 (3%)	48	44	8, 24, 53, 101	20 (0%)

All (91) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	393	ALA	5.4
1	C	467	GLY	5.2
1	C	92	GLY	5.1
1	F	393	ALA	5.0
1	A	393	ALA	4.8
1	B	393	ALA	4.7
1	D	92	GLY	4.7
1	E	92	GLY	4.5
1	B	375	PHE	4.4
1	H	393	ALA	4.4
1	E	467	GLY	4.3
1	D	375	PHE	4.3
1	G	467	GLY	4.3
1	D	374	PHE	4.2
1	G	92	GLY	4.2
1	C	393	ALA	4.2

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Mol	Chain	Res	Type	RSRZ
1	A	374	PHE	4.2
1	G	393	ALA	4.2
1	F	92	GLY	4.1
1	B	374	PHE	4.1
1	A	92	GLY	3.9
1	B	467	GLY	3.9
1	B	92	GLY	3.8
1	H	467	GLY	3.8
1	H	92	GLY	3.8
1	F	374	PHE	3.8
1	D	467	GLY	3.8
1	C	374	PHE	3.7
1	A	467	GLY	3.7
1	E	393	ALA	3.5
1	C	375	PHE	3.5
1	B	91	ALA	3.5
1	F	467	GLY	3.4
1	A	375	PHE	3.4
1	B	379	TYR	3.3
1	D	376	GLN	3.1
1	A	378	ARG	3.1
1	H	372	VAL	3.1
1	E	374	PHE	3.1
1	G	374	PHE	3.1
1	B	372	VAL	3.1
1	B	377	GLY	2.9
1	E	375	PHE	2.9
1	B	376	GLN	2.9
1	B	378	ARG	2.9
1	D	377	GLY	2.9
1	G	377	GLY	2.8
1	A	379	TYR	2.8
1	D	206	TYR	2.8
1	G	375	PHE	2.8
1	F	375	PHE	2.7
1	G	372	VAL	2.7
1	F	206	TYR	2.7
1	E	1	MET	2.6
1	C	91	ALA	2.6
1	D	373	GLU	2.6
1	C	466	ALA	2.6
1	C	1	MET	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	91	ALA	2.5
1	E	377	GLY	2.5
1	B	206	TYR	2.5
1	A	377	GLY	2.5
1	H	379	TYR	2.5
1	F	91	ALA	2.4
1	H	374	PHE	2.4
1	D	379	TYR	2.4
1	H	375	PHE	2.4
1	G	373	GLU	2.4
1	C	376	GLN	2.4
1	E	376	GLN	2.4
1	E	91	ALA	2.4
1	H	91	ALA	2.4
1	B	373	GLU	2.4
1	A	88	LYS	2.3
1	F	465	SER	2.3
1	B	466	ALA	2.3
1	C	206	TYR	2.3
1	C	379	TYR	2.3
1	E	372	VAL	2.3
1	C	88	LYS	2.2
1	F	377	GLY	2.2
1	F	372	VAL	2.2
1	E	379	TYR	2.2
1	A	376	GLN	2.1
1	G	465	SER	2.1
1	B	433[A]	HIS	2.1
1	C	372	VAL	2.1
1	H	433[A]	HIS	2.1
1	B	465	SER	2.1
1	A	372	VAL	2.0
1	H	88	LYS	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands

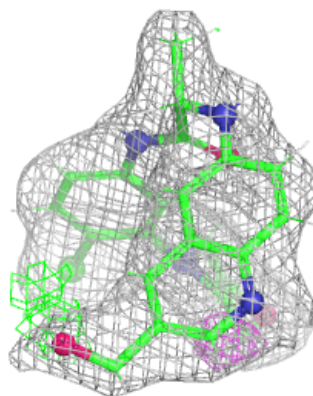
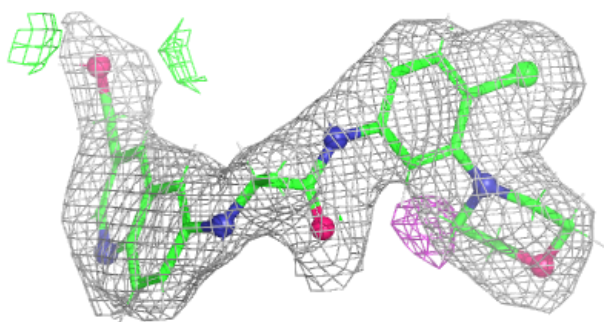
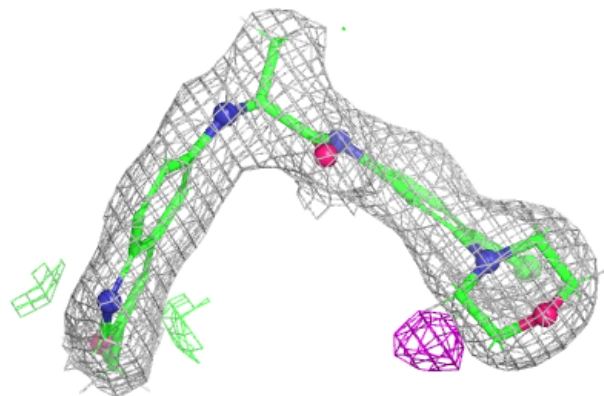
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	A1AUF	A	802	31/31	0.95	0.07	18,28,35,38	0
3	A1AUF	B	802	31/31	0.96	0.06	16,27,28,30	0
3	A1AUF	C	802	31/31	0.96	0.07	16,28,32,33	0
3	A1AUF	F	802	31/31	0.96	0.06	20,28,34,35	0
3	A1AUF	G	802	31/31	0.96	0.06	20,24,31,34	0
3	A1AUF	H	802	31/31	0.96	0.06	17,23,32,34	0
3	A1AUF	E	802	31/31	0.97	0.05	14,21,27,28	0
3	A1AUF	D	802	31/31	0.97	0.06	13,26,35,36	0
2	IMP	A	801	23/23	0.98	0.05	18,22,24,25	0
2	IMP	B	801	23/23	0.98	0.05	16,21,25,27	0
2	IMP	C	801	23/23	0.98	0.05	14,21,23,24	0
2	IMP	D	801	23/23	0.98	0.05	17,22,25,26	0
2	IMP	E	801	23/23	0.98	0.06	13,19,26,29	0
2	IMP	F	801	23/23	0.98	0.05	15,20,24,24	0
2	IMP	G	801	23/23	0.98	0.05	17,21,26,27	0
2	IMP	H	801	23/23	0.98	0.06	15,20,22,22	0

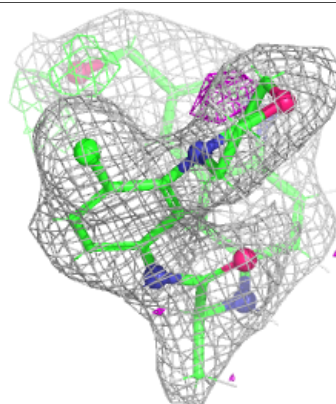
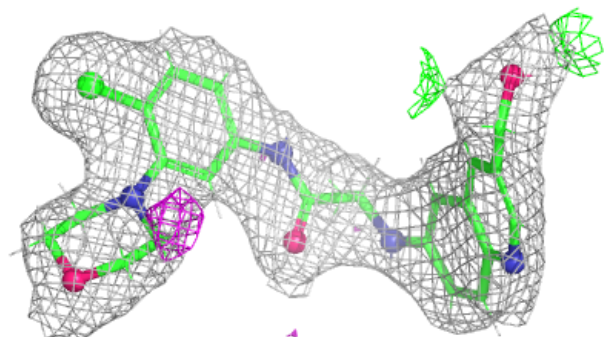
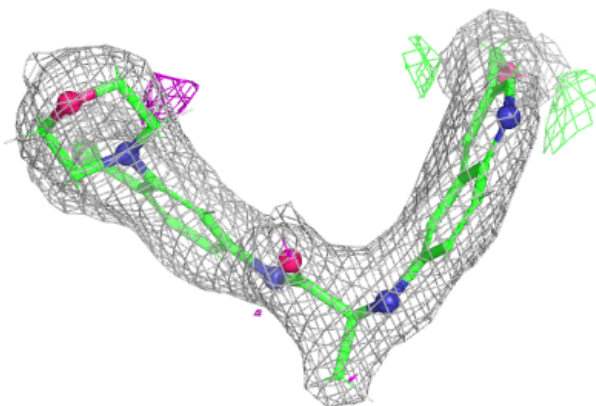
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around A1AUF A 802:

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

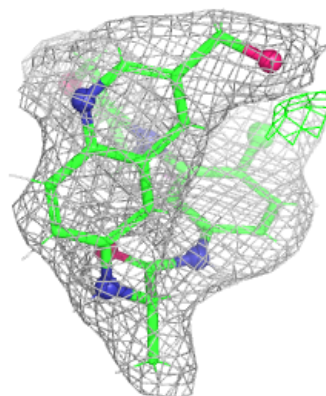
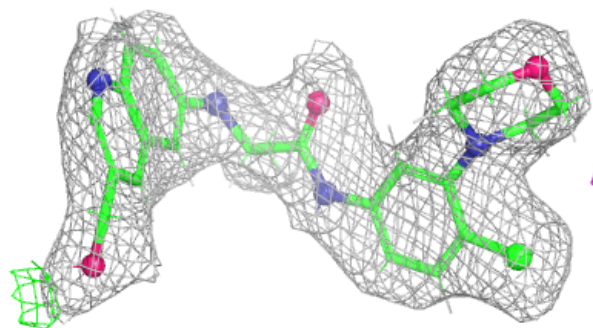
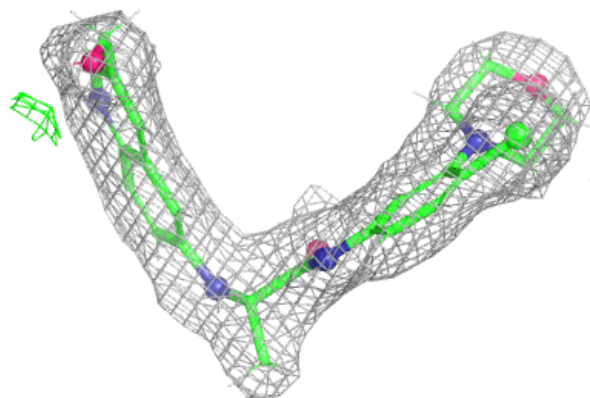
**Electron density around A1AUF B 802:**

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



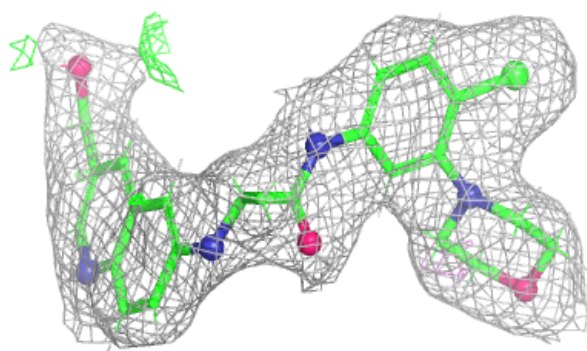
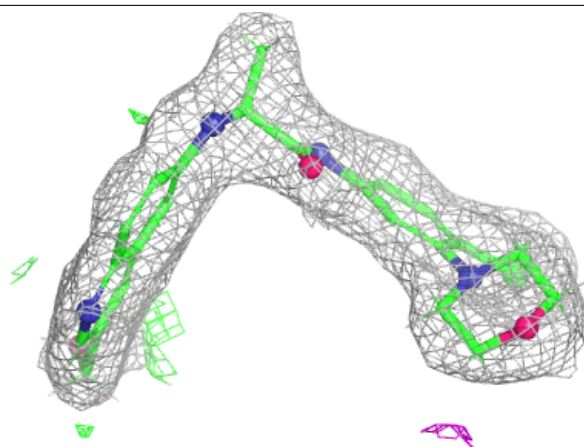
Electron density around A1AUF C 802:

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



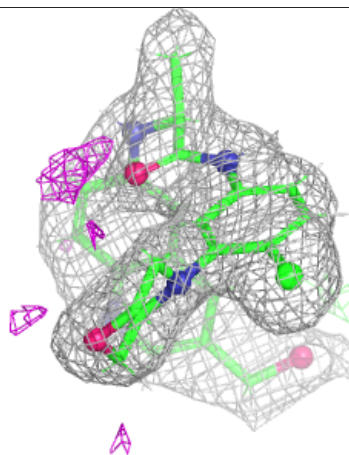
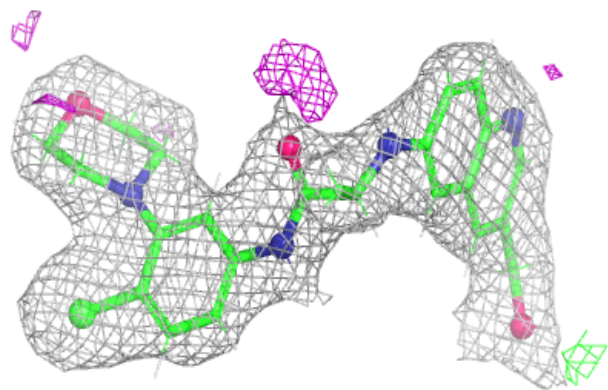
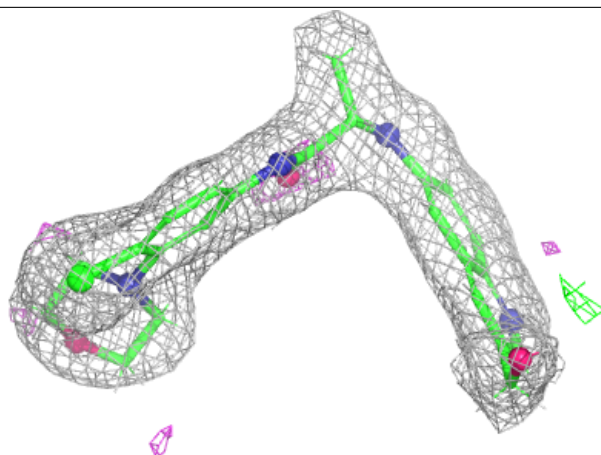
Electron density around A1AUF F 802:

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



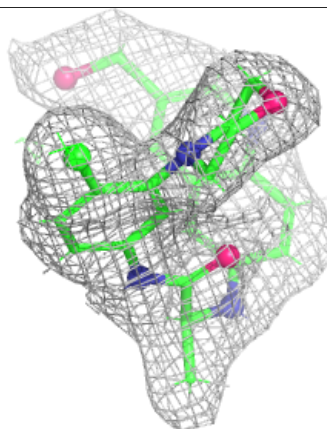
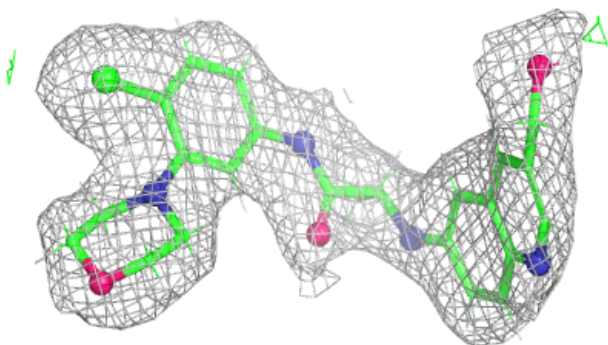
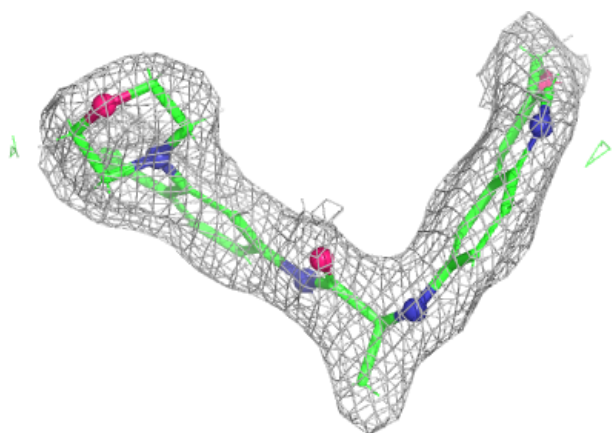
Electron density around A1AUF G 802:

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

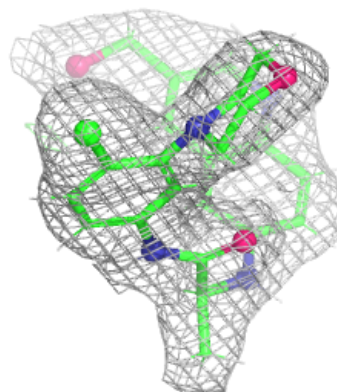
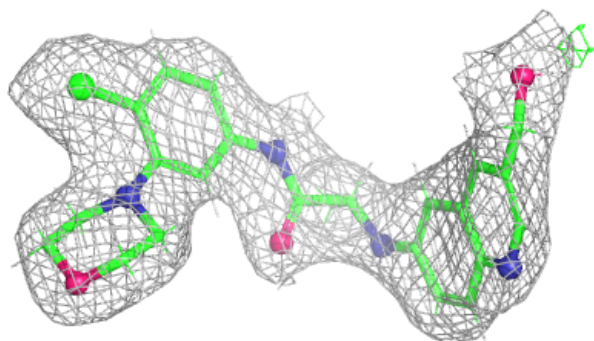
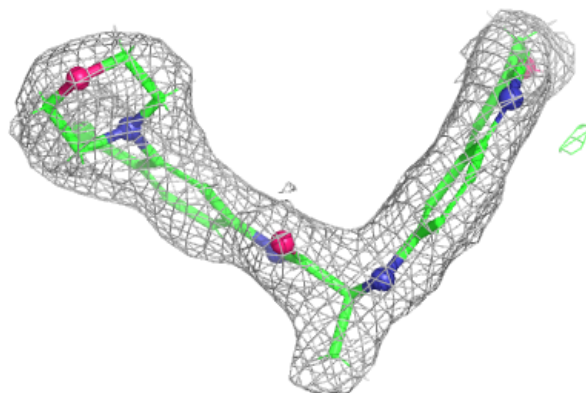


Electron density around A1AUF H 802:

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

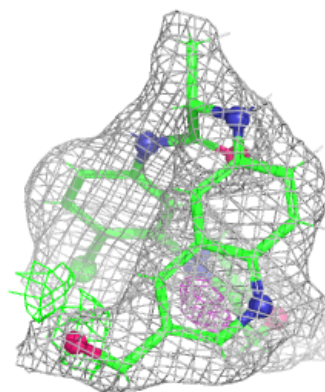
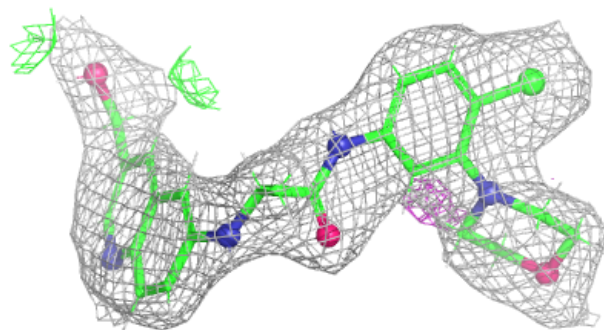
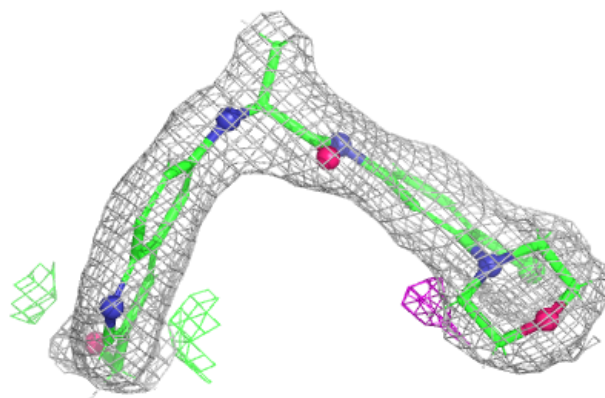
**Electron density around A1AUF E 802:**

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

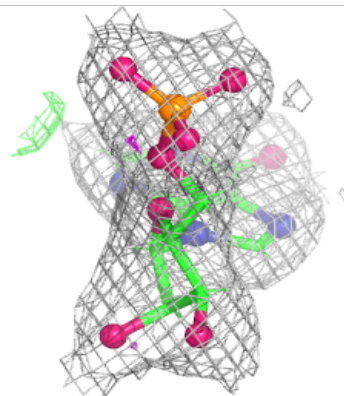
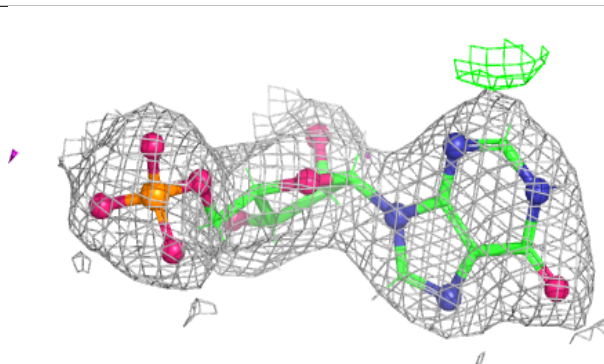
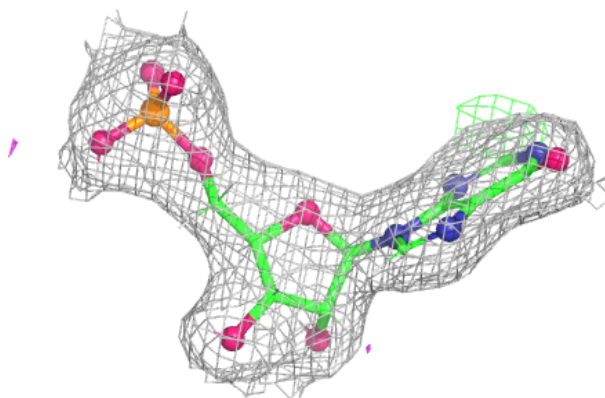


Electron density around A1AUF D 802:

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

**Electron density around IMP A 801:**

$2mF_o-DF_c$ (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.