



wwPDB X-ray Structure Validation Summary Report (1)

Sep 13, 2020 – 12:18 AM BST

PDB ID : 4D43
Title : Crystal structure of S. aureus FabI in complex with NADP and 2-(2- chloro-4-nitrophenoxy)-5-ethyl-4-fluorophenol
Authors : Schiebel, J.; Chang, A.; Tonge, P.J.; Sottriffer, C.A.; Kisker, C.
Deposited on : 2014-10-26
Resolution : 2.15 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 (1) symbol.

The following versions of software and data (see [references \(1\)](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.14.4.dev1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.14.4.dev1

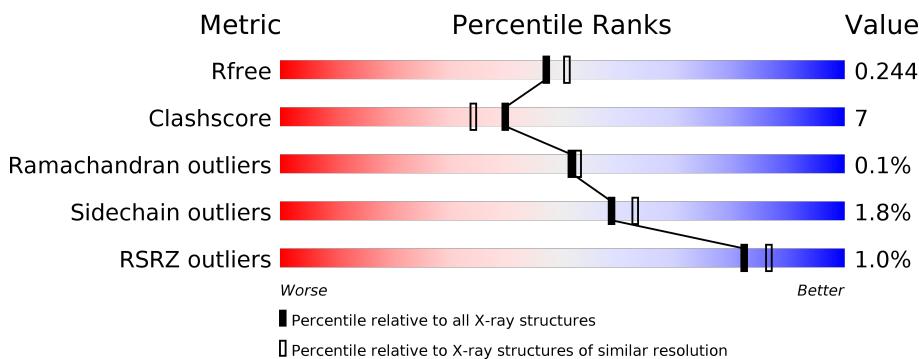
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 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}	130704	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	1560 (2.16-2.16)
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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 on 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 <=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.



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Mol	Chain	Length	Quality of chain			
1	G	282	6%	73%	17%	• 10%
1	H	282	2%	78%	11%	• 10%

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 18357 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 ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH].

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	254	Total 2042	C 1284	N 357	O 396	S 5	0	11	0
1	B	254	Total 1987	C 1251	N 346	O 386	S 4	0	5	0
1	C	254	Total 2034	C 1279	N 354	O 396	S 5	0	10	0
1	D	254	Total 1979	C 1246	N 343	O 386	S 4	0	4	0
1	E	254	Total 2036	C 1280	N 357	O 394	S 5	0	10	0
1	F	254	Total 1967	C 1241	N 339	O 383	S 4	0	2	0
1	G	254	Total 2046	C 1285	N 359	O 397	S 5	0	12	0
1	H	254	Total 2032	C 1276	N 356	O 395	S 5	0	10	0

There are 216 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-25	MET	-	expression tag	UNP Q7A6D8
A	-24	LYS	-	expression tag	UNP Q7A6D8
A	-23	HIS	-	expression tag	UNP Q7A6D8
A	-22	HIS	-	expression tag	UNP Q7A6D8
A	-21	HIS	-	expression tag	UNP Q7A6D8
A	-20	HIS	-	expression tag	UNP Q7A6D8
A	-19	HIS	-	expression tag	UNP Q7A6D8
A	-18	HIS	-	expression tag	UNP Q7A6D8
A	-17	PRO	-	expression tag	UNP Q7A6D8
A	-16	MET	-	expression tag	UNP Q7A6D8
A	-15	SER	-	expression tag	UNP Q7A6D8
A	-14	ASP	-	expression tag	UNP Q7A6D8

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-13	TYR	-	expression tag	UNP Q7A6D8
A	-12	ASP	-	expression tag	UNP Q7A6D8
A	-11	ILE	-	expression tag	UNP Q7A6D8
A	-10	PRO	-	expression tag	UNP Q7A6D8
A	-9	THR	-	expression tag	UNP Q7A6D8
A	-8	THR	-	expression tag	UNP Q7A6D8
A	-7	GLU	-	expression tag	UNP Q7A6D8
A	-6	ASN	-	expression tag	UNP Q7A6D8
A	-5	LEU	-	expression tag	UNP Q7A6D8
A	-4	TYR	-	expression tag	UNP Q7A6D8
A	-3	PHE	-	expression tag	UNP Q7A6D8
A	-2	GLN	-	expression tag	UNP Q7A6D8
A	-1	GLY	-	expression tag	UNP Q7A6D8
A	0	ALA	-	expression tag	UNP Q7A6D8
A	2	VAL	LEU	engineered mutation	UNP Q7A6D8
B	-25	MET	-	expression tag	UNP Q7A6D8
B	-24	LYS	-	expression tag	UNP Q7A6D8
B	-23	HIS	-	expression tag	UNP Q7A6D8
B	-22	HIS	-	expression tag	UNP Q7A6D8
B	-21	HIS	-	expression tag	UNP Q7A6D8
B	-20	HIS	-	expression tag	UNP Q7A6D8
B	-19	HIS	-	expression tag	UNP Q7A6D8
B	-18	HIS	-	expression tag	UNP Q7A6D8
B	-17	PRO	-	expression tag	UNP Q7A6D8
B	-16	MET	-	expression tag	UNP Q7A6D8
B	-15	SER	-	expression tag	UNP Q7A6D8
B	-14	ASP	-	expression tag	UNP Q7A6D8
B	-13	TYR	-	expression tag	UNP Q7A6D8
B	-12	ASP	-	expression tag	UNP Q7A6D8
B	-11	ILE	-	expression tag	UNP Q7A6D8
B	-10	PRO	-	expression tag	UNP Q7A6D8
B	-9	THR	-	expression tag	UNP Q7A6D8
B	-8	THR	-	expression tag	UNP Q7A6D8
B	-7	GLU	-	expression tag	UNP Q7A6D8
B	-6	ASN	-	expression tag	UNP Q7A6D8
B	-5	LEU	-	expression tag	UNP Q7A6D8
B	-4	TYR	-	expression tag	UNP Q7A6D8
B	-3	PHE	-	expression tag	UNP Q7A6D8
B	-2	GLN	-	expression tag	UNP Q7A6D8
B	-1	GLY	-	expression tag	UNP Q7A6D8
B	0	ALA	-	expression tag	UNP Q7A6D8
B	2	VAL	LEU	engineered mutation	UNP Q7A6D8

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-25	MET	-	expression tag	UNP Q7A6D8
C	-24	LYS	-	expression tag	UNP Q7A6D8
C	-23	HIS	-	expression tag	UNP Q7A6D8
C	-22	HIS	-	expression tag	UNP Q7A6D8
C	-21	HIS	-	expression tag	UNP Q7A6D8
C	-20	HIS	-	expression tag	UNP Q7A6D8
C	-19	HIS	-	expression tag	UNP Q7A6D8
C	-18	HIS	-	expression tag	UNP Q7A6D8
C	-17	PRO	-	expression tag	UNP Q7A6D8
C	-16	MET	-	expression tag	UNP Q7A6D8
C	-15	SER	-	expression tag	UNP Q7A6D8
C	-14	ASP	-	expression tag	UNP Q7A6D8
C	-13	TYR	-	expression tag	UNP Q7A6D8
C	-12	ASP	-	expression tag	UNP Q7A6D8
C	-11	ILE	-	expression tag	UNP Q7A6D8
C	-10	PRO	-	expression tag	UNP Q7A6D8
C	-9	THR	-	expression tag	UNP Q7A6D8
C	-8	THR	-	expression tag	UNP Q7A6D8
C	-7	GLU	-	expression tag	UNP Q7A6D8
C	-6	ASN	-	expression tag	UNP Q7A6D8
C	-5	LEU	-	expression tag	UNP Q7A6D8
C	-4	TYR	-	expression tag	UNP Q7A6D8
C	-3	PHE	-	expression tag	UNP Q7A6D8
C	-2	GLN	-	expression tag	UNP Q7A6D8
C	-1	GLY	-	expression tag	UNP Q7A6D8
C	0	ALA	-	expression tag	UNP Q7A6D8
C	2	VAL	LEU	engineered mutation	UNP Q7A6D8
D	-25	MET	-	expression tag	UNP Q7A6D8
D	-24	LYS	-	expression tag	UNP Q7A6D8
D	-23	HIS	-	expression tag	UNP Q7A6D8
D	-22	HIS	-	expression tag	UNP Q7A6D8
D	-21	HIS	-	expression tag	UNP Q7A6D8
D	-20	HIS	-	expression tag	UNP Q7A6D8
D	-19	HIS	-	expression tag	UNP Q7A6D8
D	-18	HIS	-	expression tag	UNP Q7A6D8
D	-17	PRO	-	expression tag	UNP Q7A6D8
D	-16	MET	-	expression tag	UNP Q7A6D8
D	-15	SER	-	expression tag	UNP Q7A6D8
D	-14	ASP	-	expression tag	UNP Q7A6D8
D	-13	TYR	-	expression tag	UNP Q7A6D8
D	-12	ASP	-	expression tag	UNP Q7A6D8
D	-11	ILE	-	expression tag	UNP Q7A6D8

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-10	PRO	-	expression tag	UNP Q7A6D8
D	-9	THR	-	expression tag	UNP Q7A6D8
D	-8	THR	-	expression tag	UNP Q7A6D8
D	-7	GLU	-	expression tag	UNP Q7A6D8
D	-6	ASN	-	expression tag	UNP Q7A6D8
D	-5	LEU	-	expression tag	UNP Q7A6D8
D	-4	TYR	-	expression tag	UNP Q7A6D8
D	-3	PHE	-	expression tag	UNP Q7A6D8
D	-2	GLN	-	expression tag	UNP Q7A6D8
D	-1	GLY	-	expression tag	UNP Q7A6D8
D	0	ALA	-	expression tag	UNP Q7A6D8
D	2	VAL	LEU	engineered mutation	UNP Q7A6D8
E	-25	MET	-	expression tag	UNP Q7A6D8
E	-24	LYS	-	expression tag	UNP Q7A6D8
E	-23	HIS	-	expression tag	UNP Q7A6D8
E	-22	HIS	-	expression tag	UNP Q7A6D8
E	-21	HIS	-	expression tag	UNP Q7A6D8
E	-20	HIS	-	expression tag	UNP Q7A6D8
E	-19	HIS	-	expression tag	UNP Q7A6D8
E	-18	HIS	-	expression tag	UNP Q7A6D8
E	-17	PRO	-	expression tag	UNP Q7A6D8
E	-16	MET	-	expression tag	UNP Q7A6D8
E	-15	SER	-	expression tag	UNP Q7A6D8
E	-14	ASP	-	expression tag	UNP Q7A6D8
E	-13	TYR	-	expression tag	UNP Q7A6D8
E	-12	ASP	-	expression tag	UNP Q7A6D8
E	-11	ILE	-	expression tag	UNP Q7A6D8
E	-10	PRO	-	expression tag	UNP Q7A6D8
E	-9	THR	-	expression tag	UNP Q7A6D8
E	-8	THR	-	expression tag	UNP Q7A6D8
E	-7	GLU	-	expression tag	UNP Q7A6D8
E	-6	ASN	-	expression tag	UNP Q7A6D8
E	-5	LEU	-	expression tag	UNP Q7A6D8
E	-4	TYR	-	expression tag	UNP Q7A6D8
E	-3	PHE	-	expression tag	UNP Q7A6D8
E	-2	GLN	-	expression tag	UNP Q7A6D8
E	-1	GLY	-	expression tag	UNP Q7A6D8
E	0	ALA	-	expression tag	UNP Q7A6D8
E	2	VAL	LEU	engineered mutation	UNP Q7A6D8
F	-25	MET	-	expression tag	UNP Q7A6D8
F	-24	LYS	-	expression tag	UNP Q7A6D8
F	-23	HIS	-	expression tag	UNP Q7A6D8

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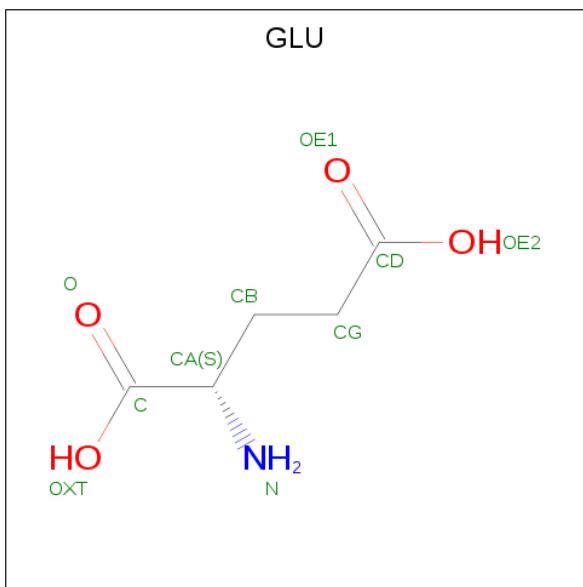
Chain	Residue	Modelled	Actual	Comment	Reference
F	-22	HIS	-	expression tag	UNP Q7A6D8
F	-21	HIS	-	expression tag	UNP Q7A6D8
F	-20	HIS	-	expression tag	UNP Q7A6D8
F	-19	HIS	-	expression tag	UNP Q7A6D8
F	-18	HIS	-	expression tag	UNP Q7A6D8
F	-17	PRO	-	expression tag	UNP Q7A6D8
F	-16	MET	-	expression tag	UNP Q7A6D8
F	-15	SER	-	expression tag	UNP Q7A6D8
F	-14	ASP	-	expression tag	UNP Q7A6D8
F	-13	TYR	-	expression tag	UNP Q7A6D8
F	-12	ASP	-	expression tag	UNP Q7A6D8
F	-11	ILE	-	expression tag	UNP Q7A6D8
F	-10	PRO	-	expression tag	UNP Q7A6D8
F	-9	THR	-	expression tag	UNP Q7A6D8
F	-8	THR	-	expression tag	UNP Q7A6D8
F	-7	GLU	-	expression tag	UNP Q7A6D8
F	-6	ASN	-	expression tag	UNP Q7A6D8
F	-5	LEU	-	expression tag	UNP Q7A6D8
F	-4	TYR	-	expression tag	UNP Q7A6D8
F	-3	PHE	-	expression tag	UNP Q7A6D8
F	-2	GLN	-	expression tag	UNP Q7A6D8
F	-1	GLY	-	expression tag	UNP Q7A6D8
F	0	ALA	-	expression tag	UNP Q7A6D8
F	2	VAL	LEU	engineered mutation	UNP Q7A6D8
G	-25	MET	-	expression tag	UNP Q7A6D8
G	-24	LYS	-	expression tag	UNP Q7A6D8
G	-23	HIS	-	expression tag	UNP Q7A6D8
G	-22	HIS	-	expression tag	UNP Q7A6D8
G	-21	HIS	-	expression tag	UNP Q7A6D8
G	-20	HIS	-	expression tag	UNP Q7A6D8
G	-19	HIS	-	expression tag	UNP Q7A6D8
G	-18	HIS	-	expression tag	UNP Q7A6D8
G	-17	PRO	-	expression tag	UNP Q7A6D8
G	-16	MET	-	expression tag	UNP Q7A6D8
G	-15	SER	-	expression tag	UNP Q7A6D8
G	-14	ASP	-	expression tag	UNP Q7A6D8
G	-13	TYR	-	expression tag	UNP Q7A6D8
G	-12	ASP	-	expression tag	UNP Q7A6D8
G	-11	ILE	-	expression tag	UNP Q7A6D8
G	-10	PRO	-	expression tag	UNP Q7A6D8
G	-9	THR	-	expression tag	UNP Q7A6D8
G	-8	THR	-	expression tag	UNP Q7A6D8

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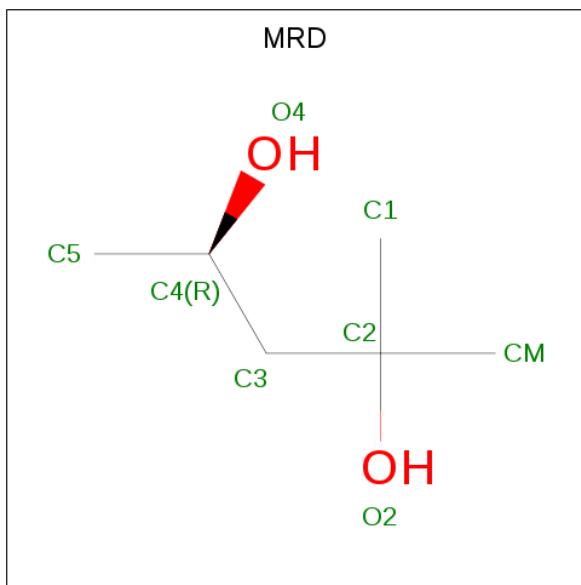
Chain	Residue	Modelled	Actual	Comment	Reference
G	-7	GLU	-	expression tag	UNP Q7A6D8
G	-6	ASN	-	expression tag	UNP Q7A6D8
G	-5	LEU	-	expression tag	UNP Q7A6D8
G	-4	TYR	-	expression tag	UNP Q7A6D8
G	-3	PHE	-	expression tag	UNP Q7A6D8
G	-2	GLN	-	expression tag	UNP Q7A6D8
G	-1	GLY	-	expression tag	UNP Q7A6D8
G	0	ALA	-	expression tag	UNP Q7A6D8
G	2	VAL	LEU	engineered mutation	UNP Q7A6D8
H	-25	MET	-	expression tag	UNP Q7A6D8
H	-24	LYS	-	expression tag	UNP Q7A6D8
H	-23	HIS	-	expression tag	UNP Q7A6D8
H	-22	HIS	-	expression tag	UNP Q7A6D8
H	-21	HIS	-	expression tag	UNP Q7A6D8
H	-20	HIS	-	expression tag	UNP Q7A6D8
H	-19	HIS	-	expression tag	UNP Q7A6D8
H	-18	HIS	-	expression tag	UNP Q7A6D8
H	-17	PRO	-	expression tag	UNP Q7A6D8
H	-16	MET	-	expression tag	UNP Q7A6D8
H	-15	SER	-	expression tag	UNP Q7A6D8
H	-14	ASP	-	expression tag	UNP Q7A6D8
H	-13	TYR	-	expression tag	UNP Q7A6D8
H	-12	ASP	-	expression tag	UNP Q7A6D8
H	-11	ILE	-	expression tag	UNP Q7A6D8
H	-10	PRO	-	expression tag	UNP Q7A6D8
H	-9	THR	-	expression tag	UNP Q7A6D8
H	-8	THR	-	expression tag	UNP Q7A6D8
H	-7	GLU	-	expression tag	UNP Q7A6D8
H	-6	ASN	-	expression tag	UNP Q7A6D8
H	-5	LEU	-	expression tag	UNP Q7A6D8
H	-4	TYR	-	expression tag	UNP Q7A6D8
H	-3	PHE	-	expression tag	UNP Q7A6D8
H	-2	GLN	-	expression tag	UNP Q7A6D8
H	-1	GLY	-	expression tag	UNP Q7A6D8
H	0	ALA	-	expression tag	UNP Q7A6D8
H	2	VAL	LEU	engineered mutation	UNP Q7A6D8

- Molecule 2 is GLUTAMIC ACID (three-letter code: GLU) (formula: C₅H₉NO₄).



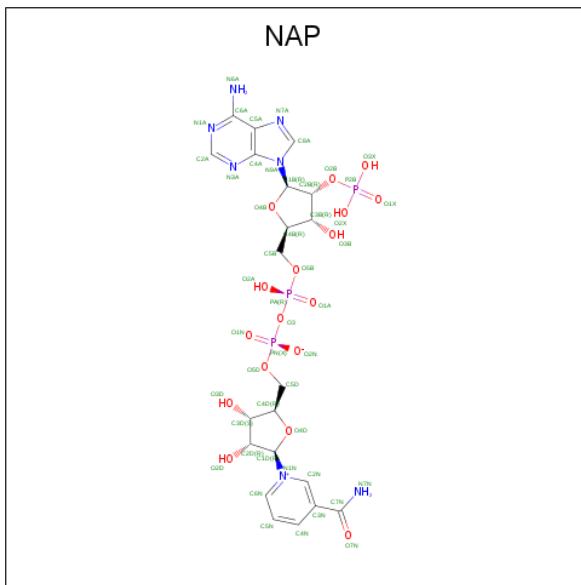
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			10	5	1	4		
2	B	1	Total	C	N	O	0	0
			10	5	1	4		
2	C	1	Total	C	N	O	0	0
			10	5	1	4		
2	E	1	Total	C	N	O	0	0
			10	5	1	4		
2	F	1	Total	C	N	O	0	0
			10	5	1	4		
2	G	1	Total	C	N	O	0	0
			10	5	1	4		

- Molecule 3 is (4R)-2-METHYLPENTANE-2,4-DIOL (three-letter code: MRD) (formula: C₆H₁₄O₂).



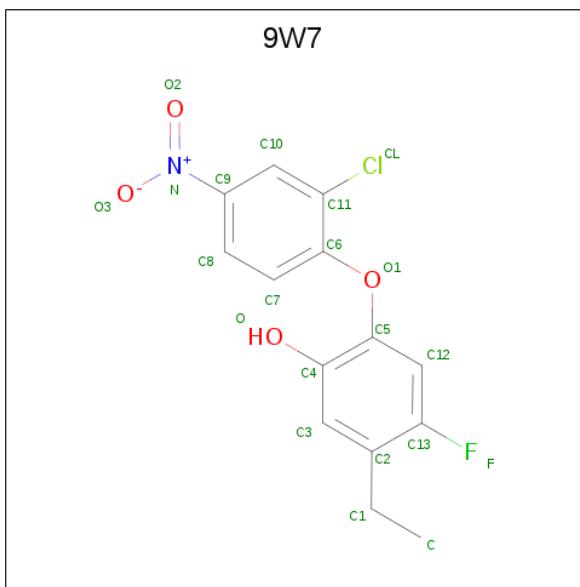
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 8 6 2	0	0
3	B	1	Total C O 8 6 2	0	0
3	C	1	Total C O 8 6 2	0	0
3	D	1	Total C O 8 6 2	0	0
3	E	1	Total C O 8 6 2	0	0
3	F	1	Total C O 8 6 2	0	0
3	G	1	Total C O 8 6 2	0	0
3	G	1	Total C O 8 6 2	0	0
3	H	1	Total C O 8 6 2	0	0

- Molecule 4 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: $C_{21}H_{28}N_7O_{17}P_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
4	A	1	48	21	7	17	3	0	0
4	B	1	48	21	7	17	3	0	0
4	C	1	48	21	7	17	3	0	0
4	D	1	48	21	7	17	3	0	0
4	E	1	48	21	7	17	3	0	0
4	F	1	48	21	7	17	3	0	0
4	G	1	48	21	7	17	3	0	0
4	H	1	48	21	7	17	3	0	0

- Molecule 5 is 2-(2-chloro-4-nitrophenoxy)-5-ethyl-4-fluorophenol (three-letter code: 9W7) (formula: C₁₄H₁₁ClFNO₄).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
5	A	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	B	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	C	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	D	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	E	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	F	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	G	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		
5	H	1	Total C Cl F N O						0	0
			21	14	1	1	1	4		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	191	Total O 191 191		0	0
6	B	233	Total O 233 233		0	0
6	C	220	Total O 220 220		0	0
6	D	140	Total O 140 140		0	0

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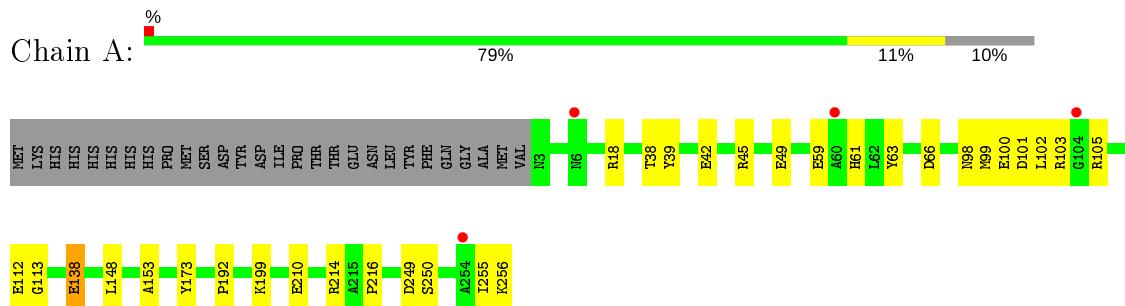
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	E	172	Total O 172 172	0	0
6	F	201	Total O 201 201	0	0
6	G	185	Total O 185 185	0	0
6	H	208	Total O 208 208	0	0

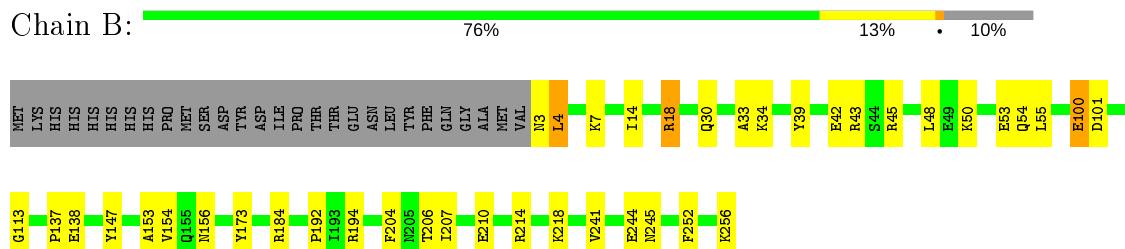
3 Residue-property plots [\(i\)](#)

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.

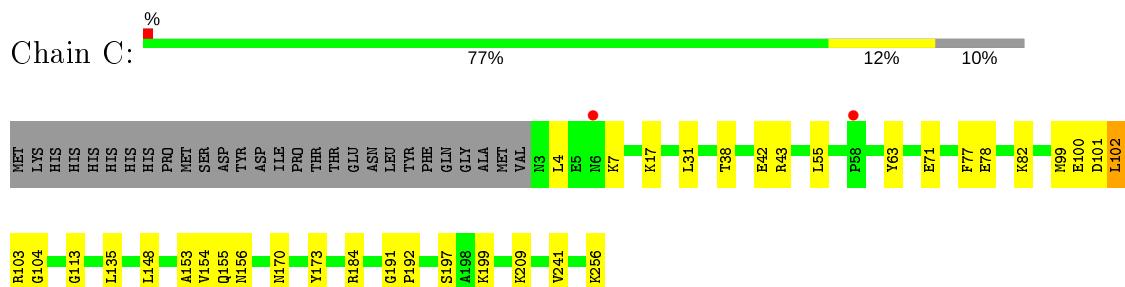
- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]



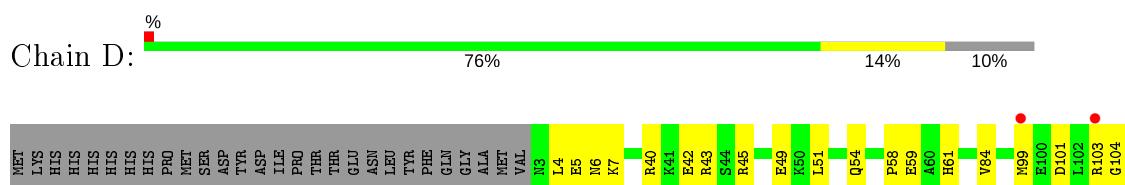
- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]



- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]

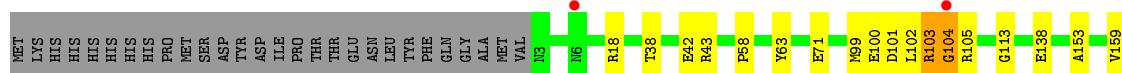
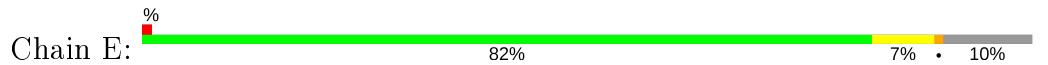


- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]





- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]



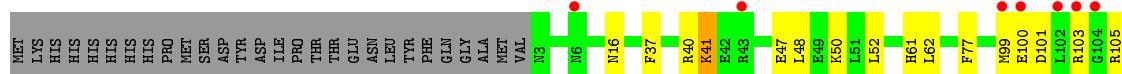
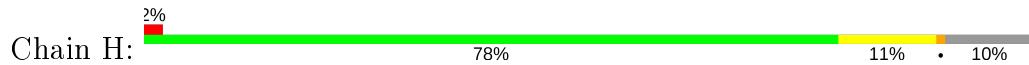
- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]



- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]



- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADPH]



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	89.18Å 94.88Å 94.90Å 98.45° 111.49° 97.30°	Depositor
Resolution (Å)	40.68 – 2.15 40.25 – 2.15	Depositor EDS
% Data completeness (in resolution range)	97.5 (40.68-2.15) 97.5 (40.25-2.15)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	2.14 (at 2.16Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R , R_{free}	0.170 , 0.230 0.189 , 0.244	Depositor DCC
R_{free} test set	7495 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	19.7	Xtriage
Anisotropy	0.121	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 34.9	EDS
L-test for twinning ²	$< L > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	18357	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ 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: 9W7, MRD, NAP

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	0.56	0/2081	0.76	0/2800
1	B	0.65	0/2023	0.86	2/2724 (0.1%)
1	C	0.61	0/2070	0.86	0/2786
1	D	0.56	0/2012	0.77	0/2710
1	E	0.58	0/2072	0.77	0/2788
1	F	0.61	0/2000	0.83	0/2694
1	G	0.59	0/2082	0.84	1/2801 (0.0%)
1	H	0.56	0/2062	0.74	0/2775
All	All	0.59	0/16402	0.80	3/22078 (0.0%)

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	C	0	1
1	E	0	1
All	All	0	2

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	G	148	LEU	CA-CB-CG	5.55	128.07	115.30
1	B	256	LYS	CD-CE-NZ	-5.07	100.05	111.70
1	B	18	ARG	NE-CZ-NH2	-5.01	117.80	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	102[A]	LEU	Peptide
1	E	104[A]	GLY	Peptide

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	2042	0	2064	32	0
1	B	1987	0	2007	34	0
1	C	2034	0	2051	45	0
1	D	1979	0	1994	26	0
1	E	2036	0	2058	23	1
1	F	1967	0	1987	38	0
1	G	2046	0	2065	40	0
1	H	2032	0	2046	24	0
2	A	10	0	5	1	0
2	B	10	0	5	1	0
2	C	10	0	5	0	0
2	E	10	0	5	3	0
2	F	10	0	5	2	0
2	G	10	0	5	0	0
3	A	8	0	14	1	0
3	B	8	0	14	3	0
3	C	8	0	14	0	0
3	D	8	0	14	5	0
3	E	8	0	14	0	0
3	F	8	0	14	0	0
3	G	16	0	28	4	0
3	H	8	0	14	0	0
4	A	48	0	25	1	0
4	B	48	0	25	1	0
4	C	48	0	25	1	0
4	D	48	0	25	1	0
4	E	48	0	25	0	0
4	F	48	0	25	1	0
4	G	48	0	25	1	0
4	H	48	0	25	0	0
5	A	21	0	10	2	0
5	B	21	0	10	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	21	0	10	1	0
5	D	21	0	10	1	0
5	E	21	0	10	0	0
5	F	21	0	10	0	0
5	G	21	0	10	3	0
5	H	21	0	10	0	0
6	A	191	0	0	9	1
6	B	233	0	0	16	1
6	C	220	0	0	10	0
6	D	140	0	0	4	0
6	E	172	0	0	5	0
6	F	201	0	0	12	0
6	G	185	0	0	10	1
6	H	208	0	0	2	0
All	All	18357	0	16708	245	2

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 7.

The worst 5 of 245 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:7:LYS:HD2	6:B:2021:HOH:O	1.44	1.16
1:A:42[B]:GLU:OE1	1:A:45:ARG:NH2	1.87	1.06
1:E:210:GLU:HG3	1:E:214[B]:ARG:HD2	1.40	1.01
1:F:256:LYS:CE	6:F:2199:HOH:O	2.08	0.99
3:B:1257:MRD:H1C3	6:B:2125:HOH:O	1.62	0.99

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:2196:HOH:O	6:G:2165:HOH:O[1_566]	1.87	0.33
1:E:43:ARG:NH1	6:A:2091:HOH:O[1_554]	1.94	0.26

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	263/282 (93%)	250 (95%)	13 (5%)	0	100 100
1	B	257/282 (91%)	246 (96%)	11 (4%)	0	100 100
1	C	262/282 (93%)	255 (97%)	7 (3%)	0	100 100
1	D	256/282 (91%)	243 (95%)	11 (4%)	2 (1%)	19 12
1	E	262/282 (93%)	252 (96%)	10 (4%)	0	100 100
1	F	254/282 (90%)	240 (94%)	14 (6%)	0	100 100
1	G	264/282 (94%)	254 (96%)	10 (4%)	0	100 100
1	H	262/282 (93%)	253 (97%)	8 (3%)	1 (0%)	34 29
All	All	2080/2256 (92%)	1993 (96%)	84 (4%)	3 (0%)	51 53

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	104	GLY
1	H	158	ASN
1	D	103	ARG

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	218/234 (93%)	217 (100%)	1 (0%)	88 92
1	B	212/234 (91%)	208 (98%)	4 (2%)	57 61

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	C	217/234 (93%)	216 (100%)	1 (0%)	88 92
1	D	211/234 (90%)	207 (98%)	4 (2%)	57 61
1	E	217/234 (93%)	210 (97%)	7 (3%)	39 38
1	F	210/234 (90%)	206 (98%)	4 (2%)	57 61
1	G	218/234 (93%)	210 (96%)	8 (4%)	34 32
1	H	216/234 (92%)	209 (97%)	7 (3%)	39 38
All	All	1719/1872 (92%)	1683 (98%)	36 (2%)	59 57

5 of 36 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	138	GLU
1	F	218[B]	LYS
1	H	210	GLU
1	F	4	LEU
1	G	55	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	253	HIS
1	D	253	HIS
1	F	3	ASN
1	G	156	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

31 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
4	NAP	F	1258	-	45,52,52	1.59	4 (8%)	56,80,80	1.84	9 (16%)
5	9W7	G	1260	-	21,22,22	0.35	0	28,31,31	0.65	0
5	9W7	H	1259	-	21,22,22	0.25	0	28,31,31	0.74	0
3	MRD	C	1257	-	7,7,7	0.41	0	9,10,10	0.35	0
4	NAP	A	1258	-	45,52,52	1.57	3 (6%)	56,80,80	1.48	6 (10%)
2	GLU	G	1261	-	2,9,9	0.23	0	2,11,11	1.79	1 (50%)
5	9W7	A	1259	-	21,22,22	0.35	0	28,31,31	0.62	0
3	MRD	A	1257	-	7,7,7	0.50	0	9,10,10	0.96	1 (11%)
4	NAP	D	1257	-	45,52,52	1.62	4 (8%)	56,80,80	1.78	7 (12%)
3	MRD	G	1257	-	7,7,7	0.38	0	9,10,10	0.28	0
5	9W7	C	1259	-	21,22,22	0.31	0	28,31,31	0.55	0
4	NAP	H	1257	-	45,52,52	1.62	4 (8%)	56,80,80	1.76	9 (16%)
2	GLU	F	1260	-	2,9,9	0.44	0	2,11,11	0.90	0
5	9W7	D	1258	-	21,22,22	0.25	0	28,31,31	0.67	0
4	NAP	E	1258	-	45,52,52	1.67	5 (11%)	56,80,80	1.43	4 (7%)
3	MRD	B	1257	-	7,7,7	0.58	0	9,10,10	0.81	0
5	9W7	B	1259	-	21,22,22	0.35	0	28,31,31	0.64	0
3	MRD	D	1259	-	7,7,7	0.41	0	9,10,10	0.49	0
2	GLU	B	1260	-	2,9,9	0.41	0	2,11,11	0.74	0
5	9W7	E	1259	-	21,22,22	0.25	0	28,31,31	0.66	0
4	NAP	C	1258	-	45,52,52	1.63	4 (8%)	56,80,80	1.45	8 (14%)
4	NAP	G	1259	-	45,52,52	1.55	4 (8%)	56,80,80	1.56	8 (14%)
2	GLU	C	1260	-	2,9,9	0.24	0	2,11,11	1.62	1 (50%)
3	MRD	F	1257	-	7,7,7	0.45	0	9,10,10	0.76	0
2	GLU	A	1260	-	2,9,9	0.28	0	2,11,11	1.40	0
2	GLU	E	1260	-	2,9,9	0.23	0	2,11,11	0.80	0
3	MRD	H	1258	-	7,7,7	0.45	0	9,10,10	0.72	0
3	MRD	E	1257	-	7,7,7	0.48	0	9,10,10	0.63	0
3	MRD	G	1258	-	7,7,7	0.52	0	9,10,10	0.87	0
5	9W7	F	1259	-	21,22,22	0.39	0	28,31,31	0.75	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	NAP	B	1258	-	45,52,52	1.48	3 (6%)	56,80,80	1.48	6 (10%)

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
4	NAP	F	1258	-	-	5/31/67/67	0/5/5/5
5	9W7	G	1260	-	-	0/8/10/10	0/2/2/2
5	9W7	H	1259	-	-	0/8/10/10	0/2/2/2
3	MRD	C	1257	-	-	1/5/5/5	-
4	NAP	A	1258	-	-	6/31/67/67	0/5/5/5
2	GLU	G	1261	-	-	0/3/9/9	-
5	9W7	A	1259	-	-	0/8/10/10	0/2/2/2
3	MRD	A	1257	-	-	0/5/5/5	-
4	NAP	D	1257	-	-	8/31/67/67	0/5/5/5
3	MRD	G	1257	-	-	2/5/5/5	-
5	9W7	C	1259	-	-	0/8/10/10	0/2/2/2
4	NAP	H	1257	-	-	7/31/67/67	0/5/5/5
2	GLU	F	1260	-	-	0/3/9/9	-
5	9W7	D	1258	-	-	0/8/10/10	0/2/2/2
4	NAP	E	1258	-	-	7/31/67/67	0/5/5/5
3	MRD	B	1257	-	-	0/5/5/5	-
5	9W7	B	1259	-	-	0/8/10/10	0/2/2/2
3	MRD	D	1259	-	-	0/5/5/5	-
2	GLU	B	1260	-	-	2/3/9/9	-
5	9W7	E	1259	-	-	0/8/10/10	0/2/2/2
4	NAP	C	1258	-	-	5/31/67/67	0/5/5/5
4	NAP	G	1259	-	-	6/31/67/67	0/5/5/5
2	GLU	C	1260	-	-	2/3/9/9	-
3	MRD	F	1257	-	-	4/5/5/5	-
2	GLU	A	1260	-	-	0/3/9/9	-
2	GLU	E	1260	-	-	1/3/9/9	-
3	MRD	H	1258	-	-	0/5/5/5	-
3	MRD	E	1257	-	-	0/5/5/5	-
3	MRD	G	1258	-	-	1/5/5/5	-
5	9W7	F	1259	-	-	0/8/10/10	0/2/2/2
4	NAP	B	1258	-	-	5/31/67/67	0/5/5/5

The worst 5 of 31 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	1258	NAP	O7N-C7N	8.41	1.40	1.24
4	H	1257	NAP	O7N-C7N	8.15	1.39	1.24
4	E	1258	NAP	O7N-C7N	8.00	1.39	1.24
4	G	1259	NAP	O7N-C7N	7.93	1.39	1.24
4	F	1258	NAP	O7N-C7N	7.88	1.39	1.24

The worst 5 of 60 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	1257	NAP	C3N-C7N-N7N	7.67	126.95	117.75
4	H	1257	NAP	N3A-C2A-N1A	-6.62	118.33	128.68
4	D	1257	NAP	N3A-C2A-N1A	-6.19	119.00	128.68
4	H	1257	NAP	O7N-C7N-C3N	-6.09	112.34	119.63
4	A	1258	NAP	N3A-C2A-N1A	-6.07	119.19	128.68

There are no chirality outliers.

5 of 62 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	F	1258	NAP	C5D-O5D-PN-O3
4	F	1258	NAP	C5D-O5D-PN-O1N
4	F	1258	NAP	O4D-C1D-N1N-C2N
4	A	1258	NAP	C5D-O5D-PN-O1N
4	A	1258	NAP	C5D-O5D-PN-O2N

There are no ring outliers.

19 monomers are involved in 33 short contacts:

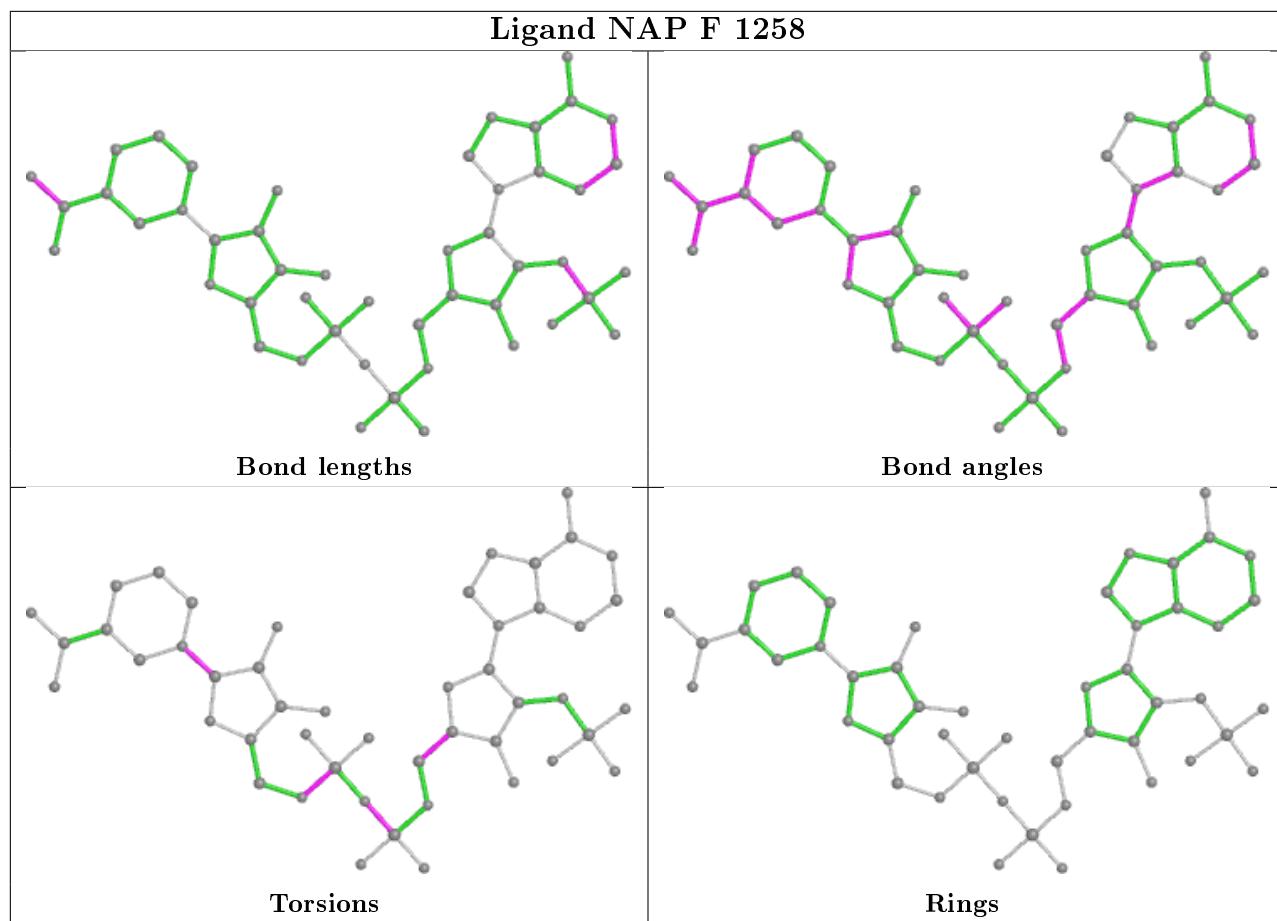
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	F	1258	NAP	1	0
5	G	1260	9W7	3	0
4	A	1258	NAP	1	0
5	A	1259	9W7	2	0
3	A	1257	MRD	1	0
4	D	1257	NAP	1	0
3	G	1257	MRD	2	0
5	C	1259	9W7	1	0
2	F	1260	GLU	2	0
5	D	1258	9W7	1	0
3	B	1257	MRD	3	0

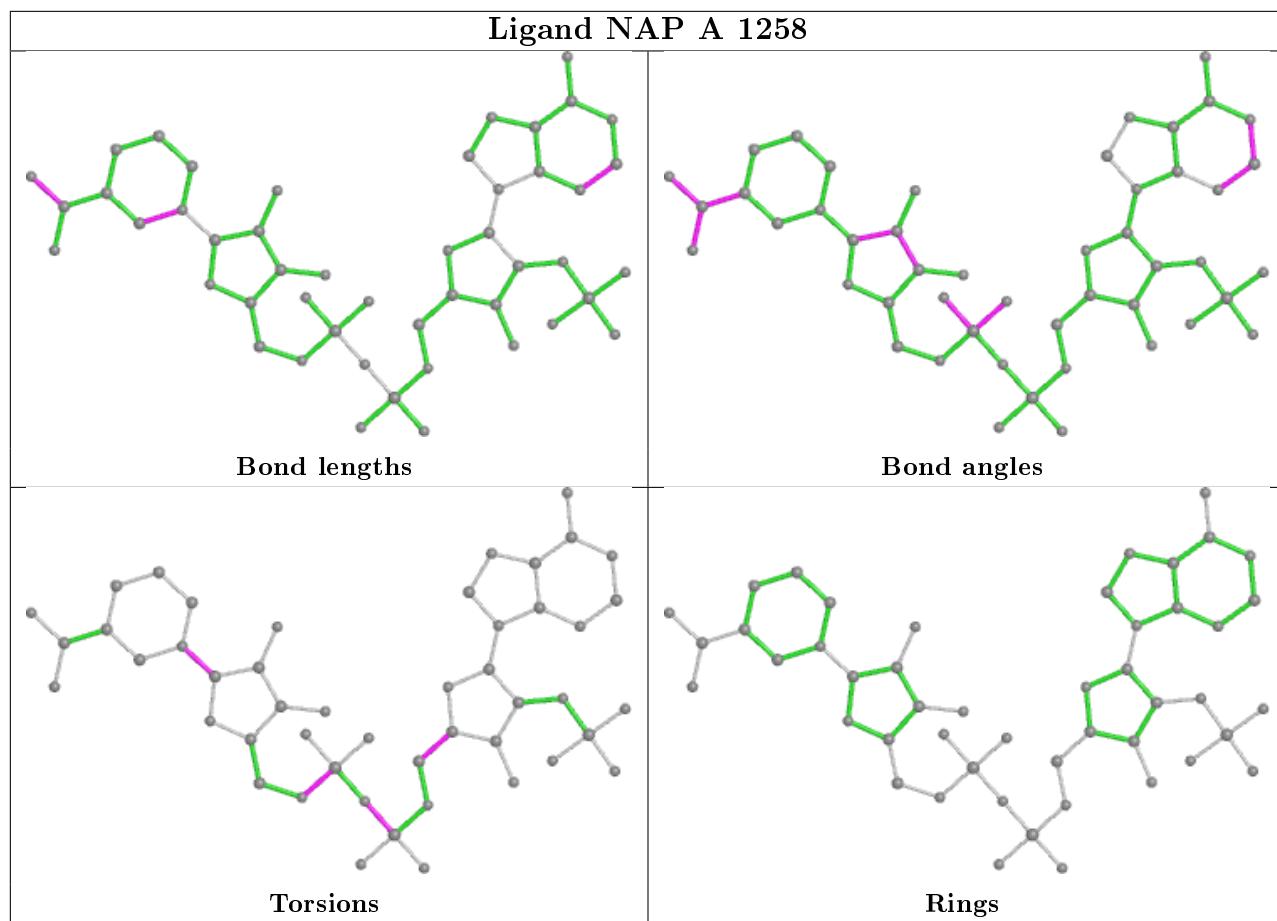
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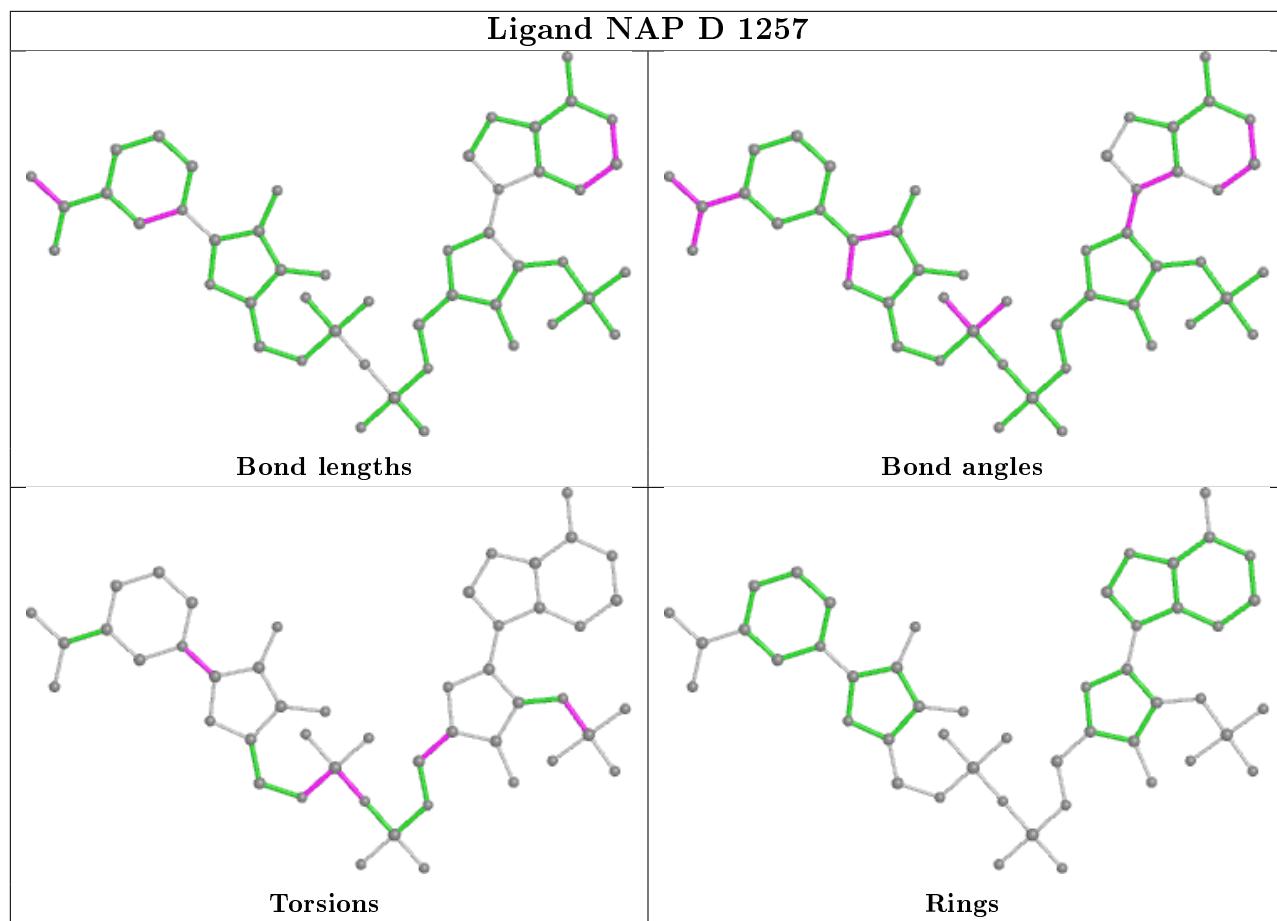
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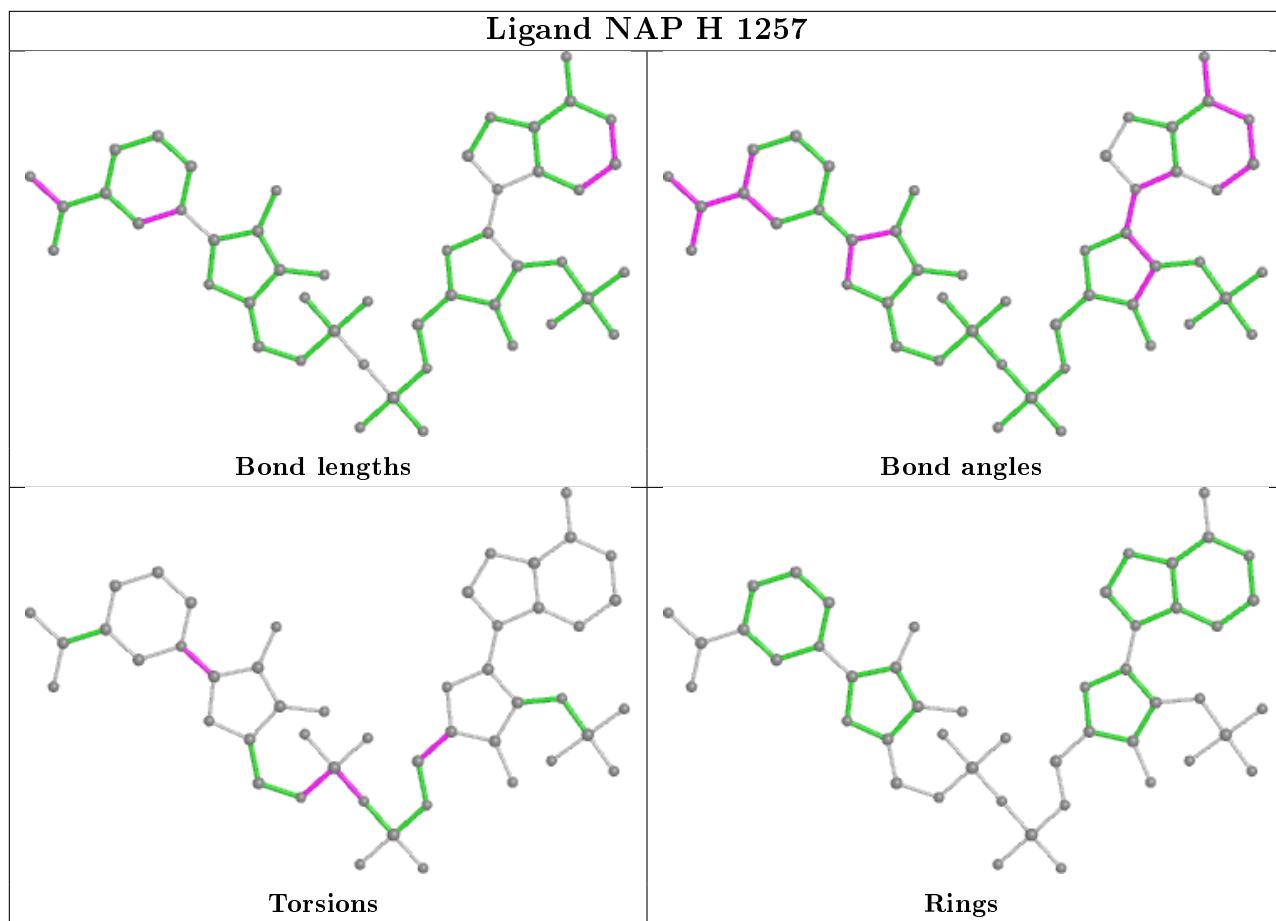
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	1259	MRD	5	0
2	B	1260	GLU	1	0
4	C	1258	NAP	1	0
4	G	1259	NAP	1	0
2	A	1260	GLU	1	0
2	E	1260	GLU	3	0
3	G	1258	MRD	2	0
4	B	1258	NAP	1	0

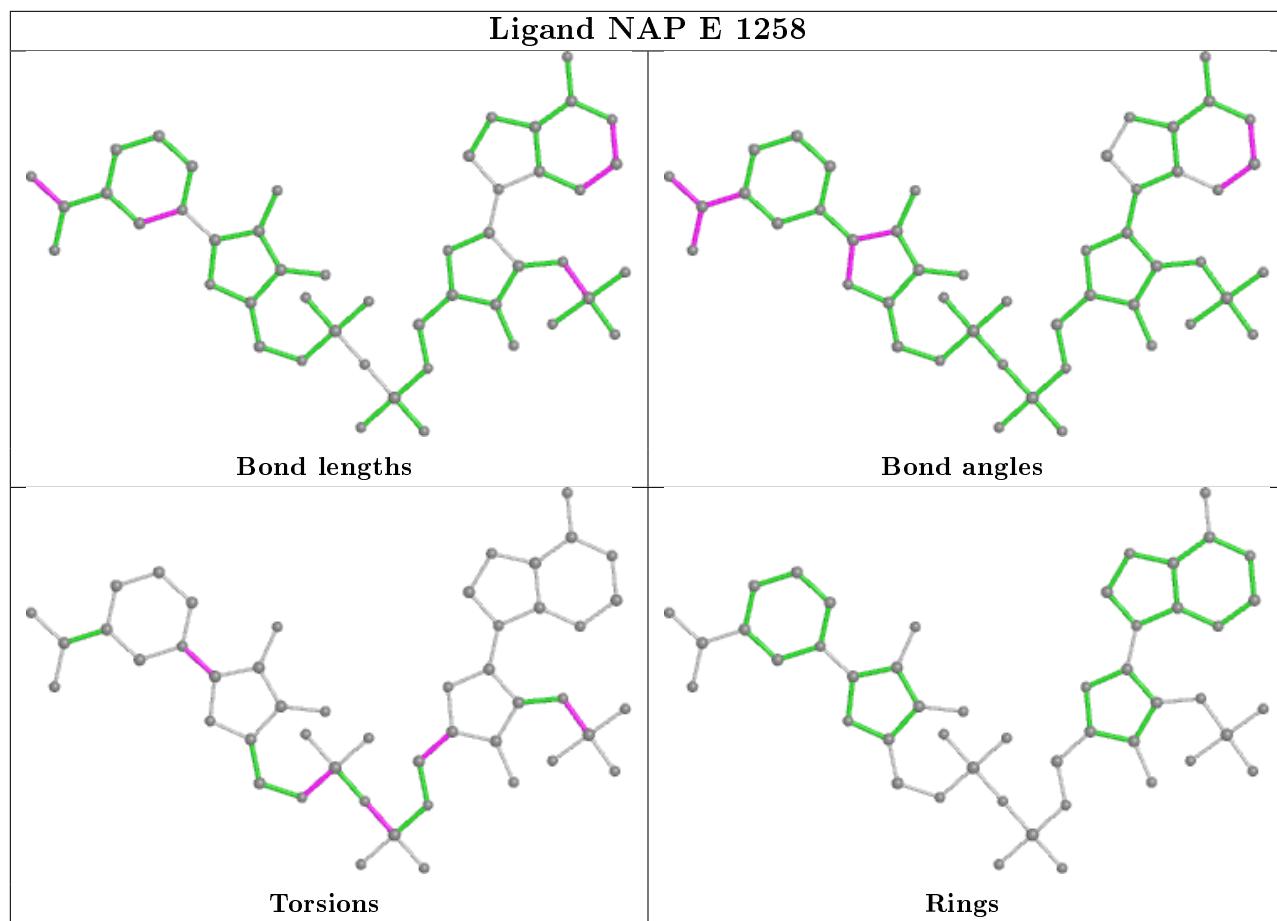
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

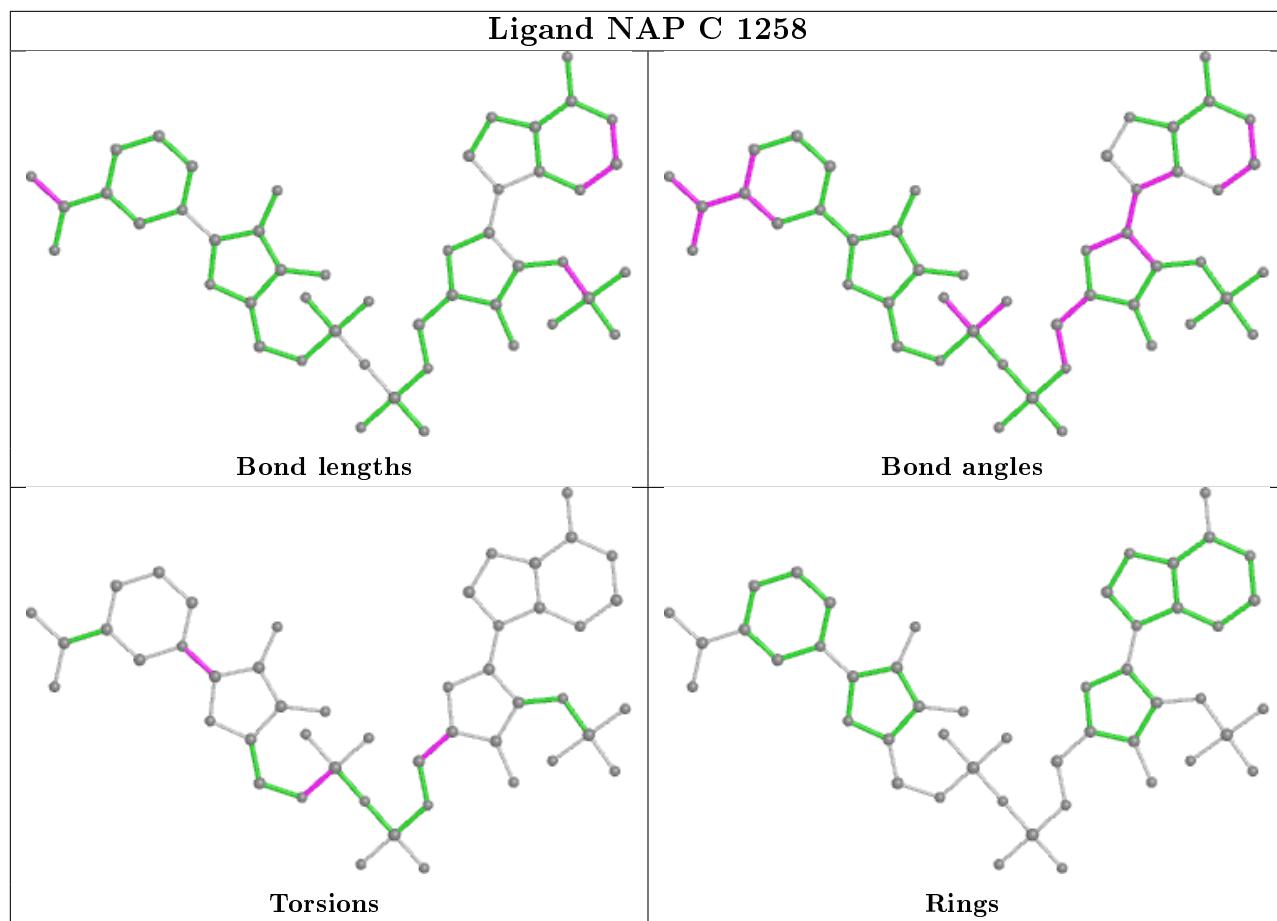


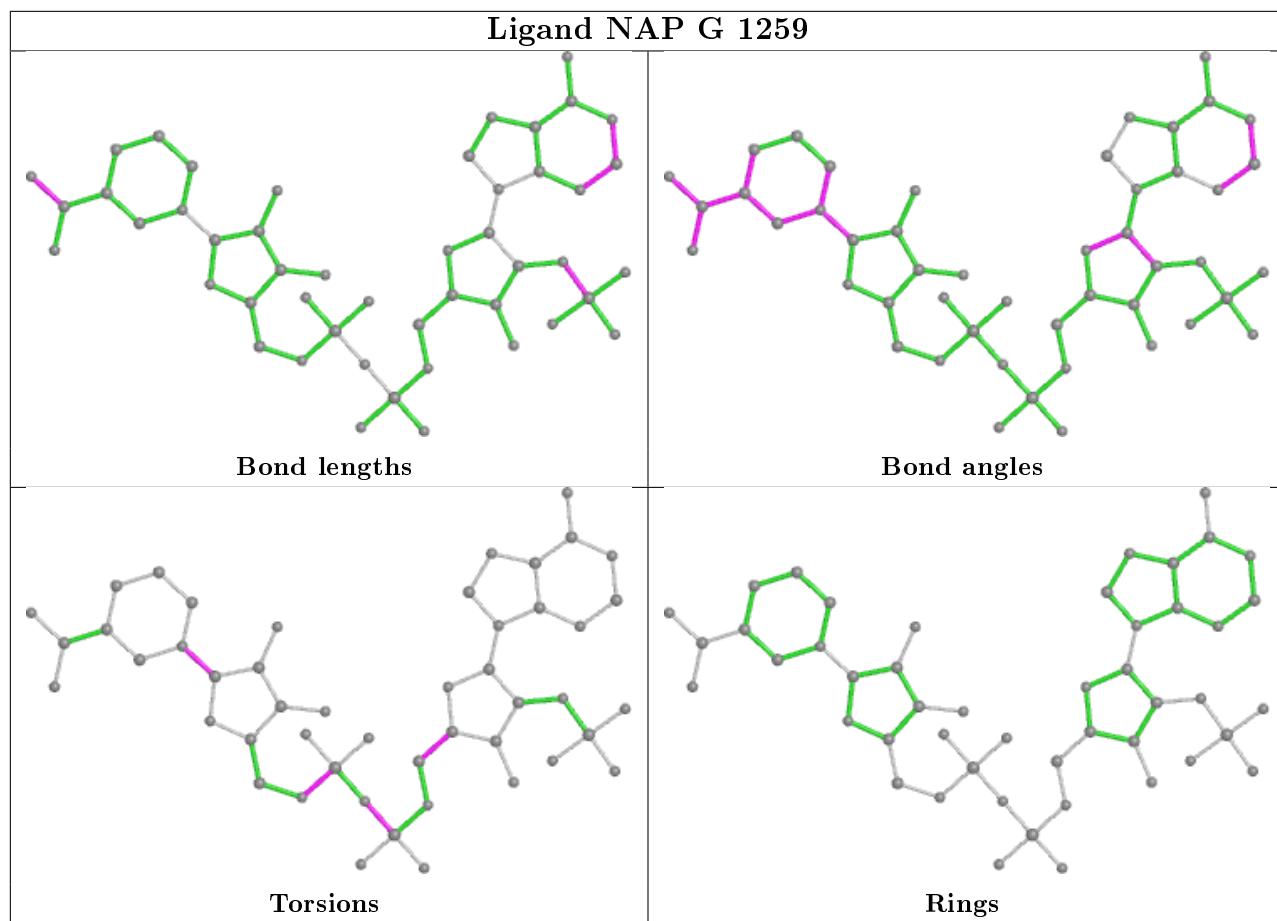


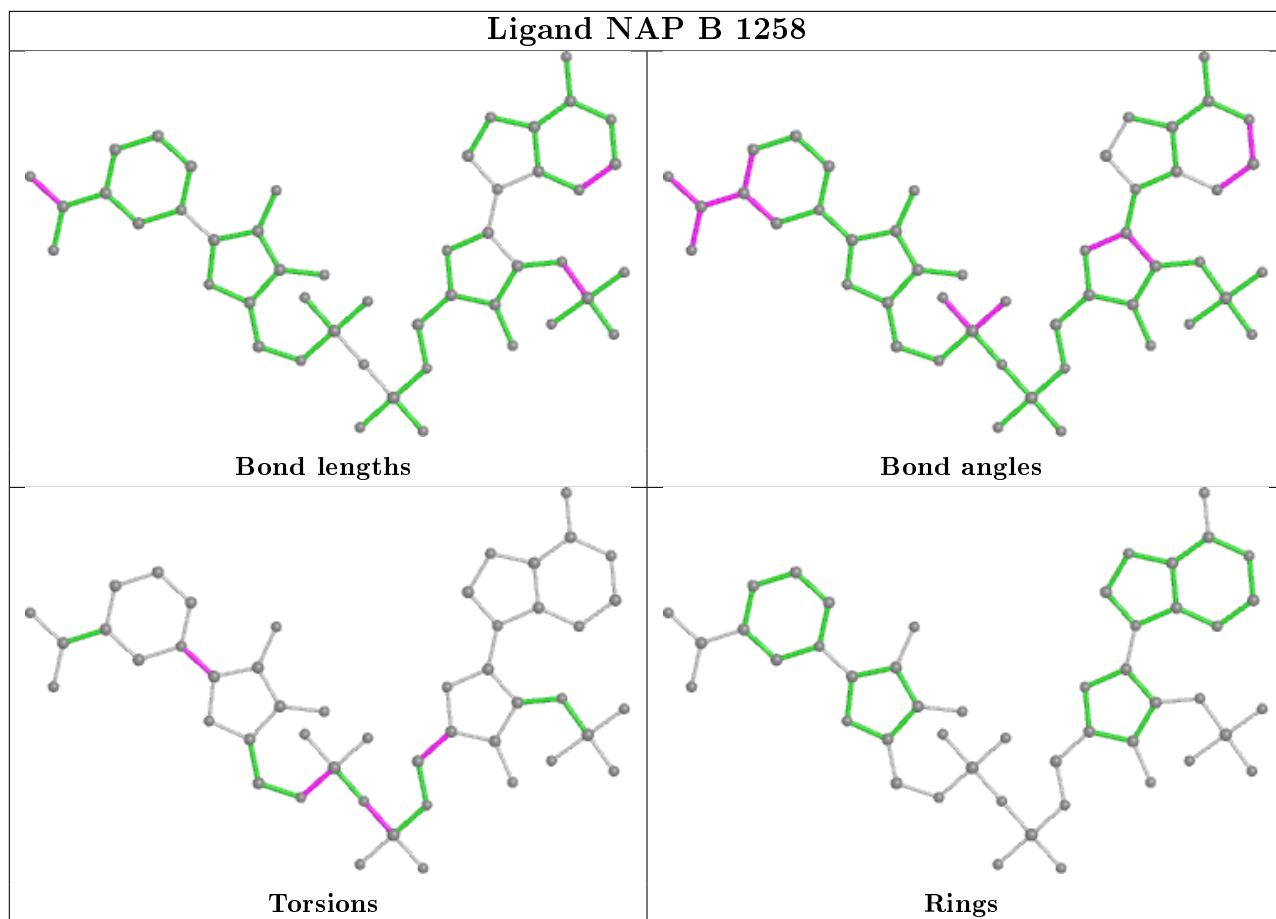












5.7 Other polymers (i)

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	254/282 (90%)	-0.28	4 (1%)	72	77	10, 19, 39, 53
1	B	254/282 (90%)	-0.34	0	100	100	9, 18, 37, 46
1	C	254/282 (90%)	-0.12	2 (0%)	86	89	10, 21, 39, 50
1	D	254/282 (90%)	-0.28	2 (0%)	86	89	12, 21, 46, 63
1	E	254/282 (90%)	-0.35	2 (0%)	86	89	11, 19, 37, 52
1	F	254/282 (90%)	-0.22	1 (0%)	92	94	10, 20, 39, 53
1	G	254/282 (90%)	-0.11	3 (1%)	79	83	12, 22, 41, 52
1	H	254/282 (90%)	-0.08	7 (2%)	53	62	11, 22, 46, 57
All	All	2032/2256 (90%)	-0.22	21 (1%)	82	86	9, 20, 41, 63

The worst 5 of 21 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	103[A]	ARG	5.0
1	H	99[A]	MET	3.6
1	H	100[A]	GLU	3.2
1	H	104[A]	GLY	2.8
1	E	104[A]	GLY	2.8

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 [\(i\)](#)

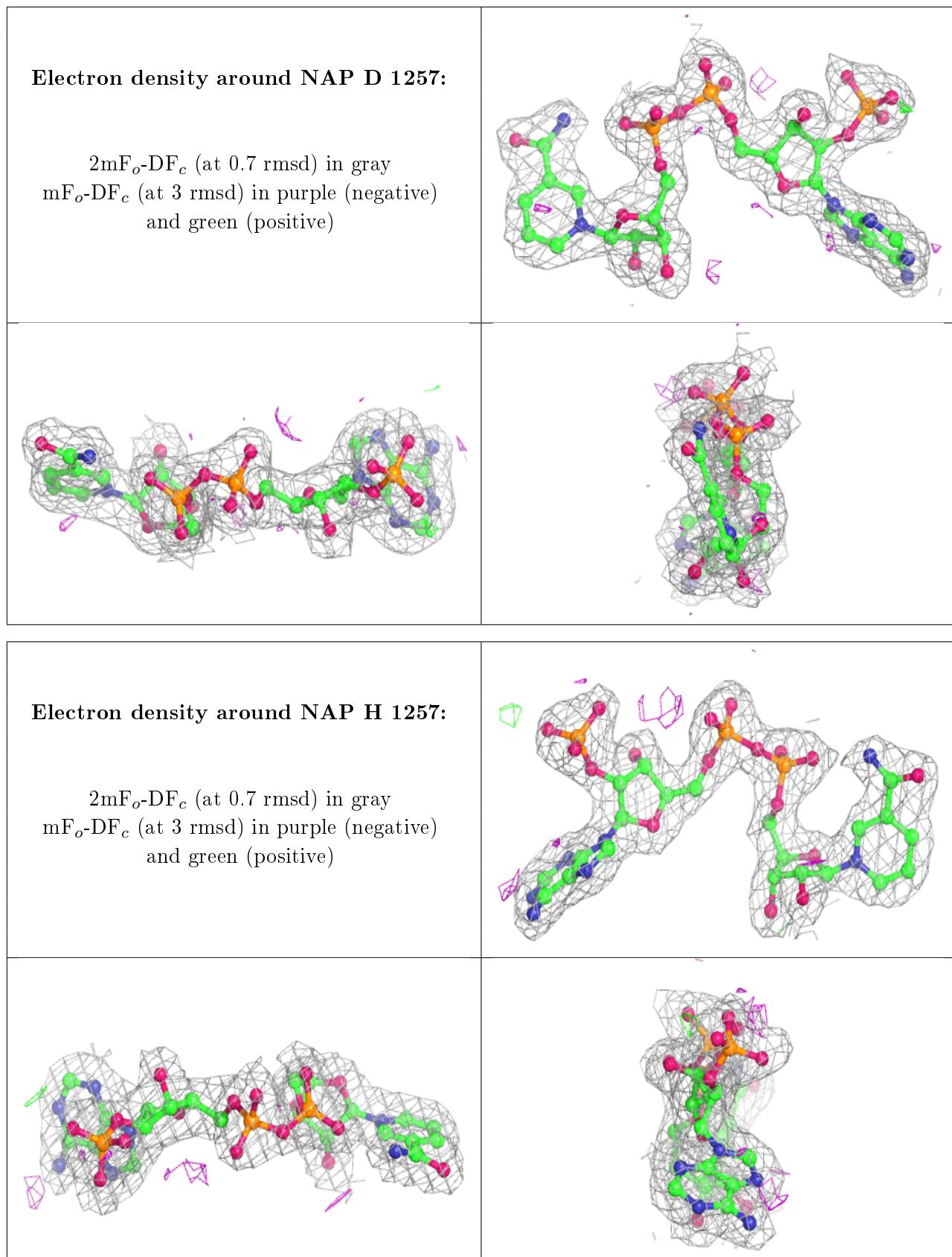
There are no monosaccharides in this entry.

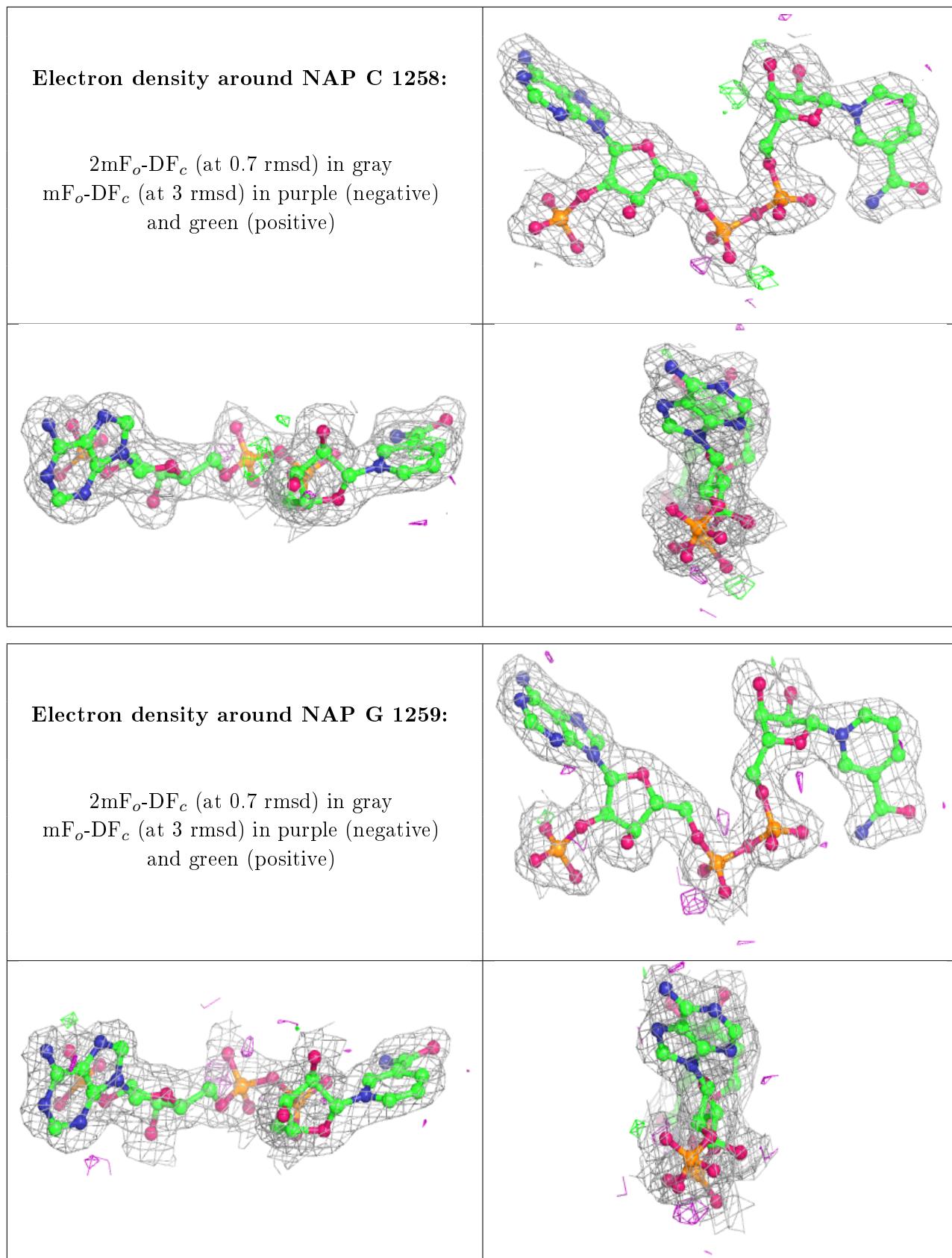
6.4 Ligands (i)

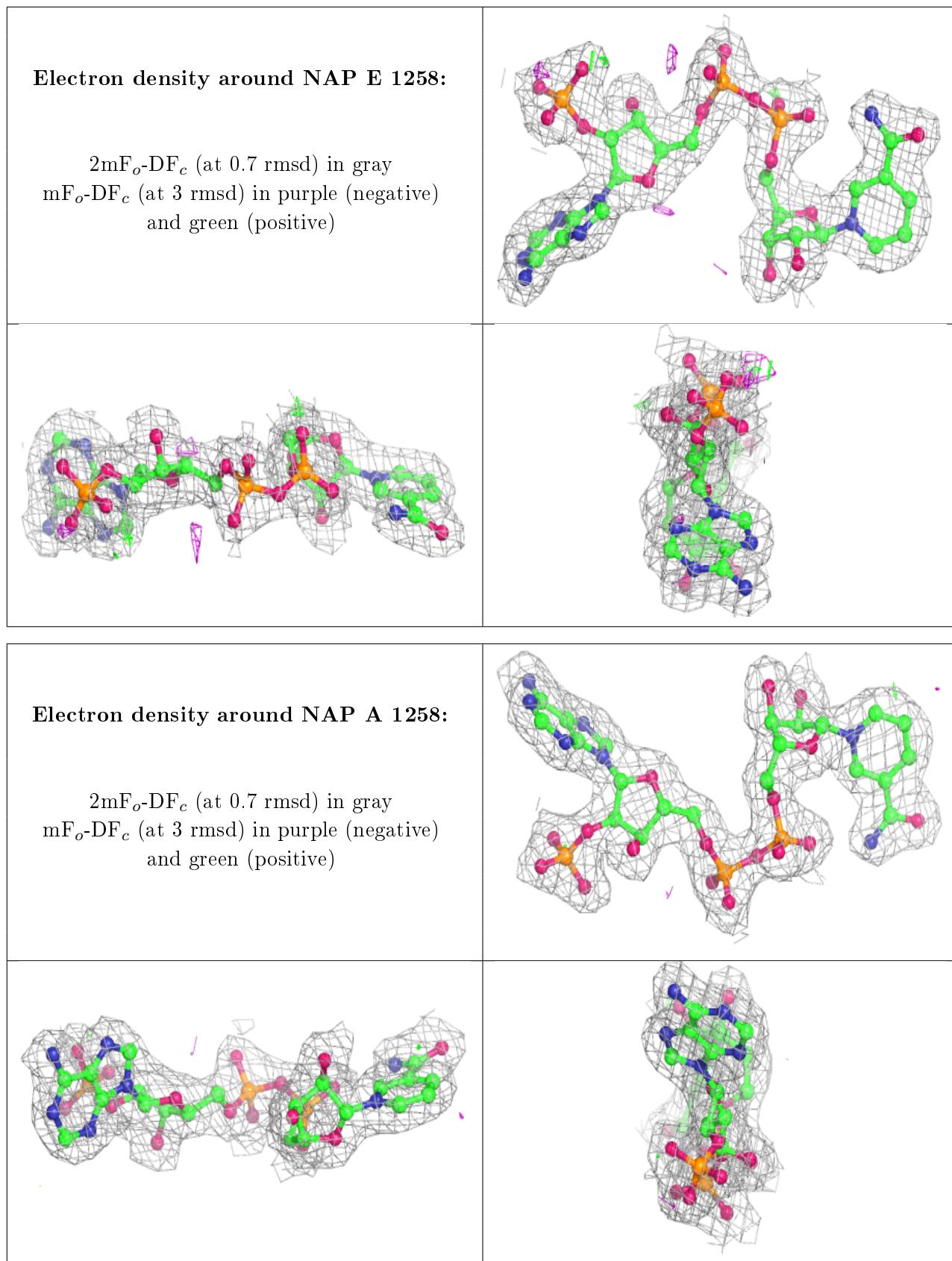
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

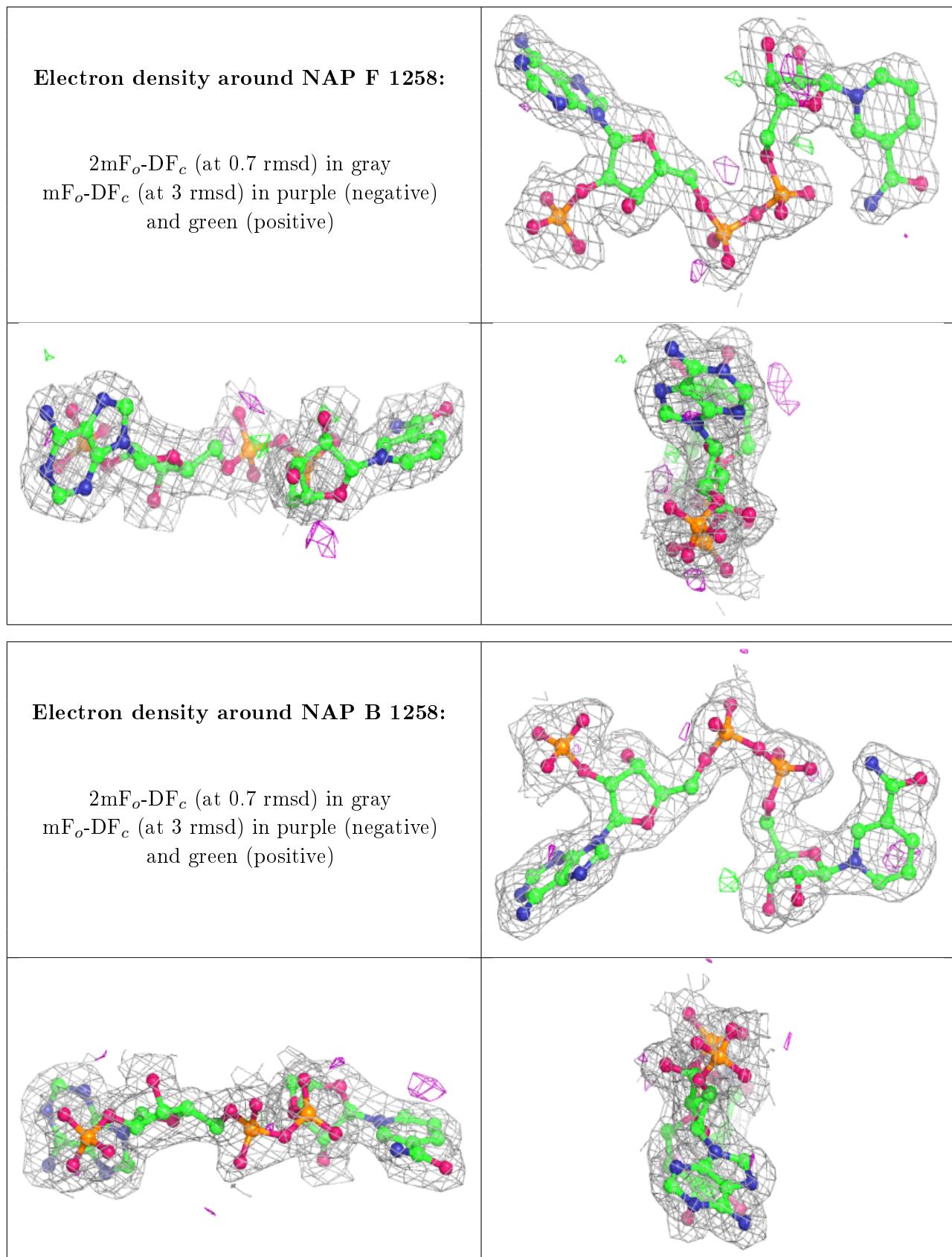
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GLU	C	1260	10/10	0.54	0.34	75,78,80,80	0
2	GLU	B	1260	10/10	0.55	0.35	80,83,88,88	0
2	GLU	F	1260	10/10	0.56	0.32	67,71,75,76	0
3	MRD	G	1258	8/8	0.58	0.32	48,53,55,55	0
2	GLU	E	1260	10/10	0.59	0.29	72,74,78,79	0
3	MRD	F	1257	8/8	0.62	0.32	39,55,62,62	0
2	GLU	G	1261	10/10	0.63	0.30	75,79,81,81	0
3	MRD	E	1257	8/8	0.68	0.24	50,57,58,59	0
2	GLU	A	1260	10/10	0.69	0.34	73,75,78,79	0
3	MRD	B	1257	8/8	0.76	0.25	29,41,44,45	0
3	MRD	D	1259	8/8	0.79	0.23	40,45,50,52	0
3	MRD	G	1257	8/8	0.80	0.21	38,55,60,60	0
3	MRD	C	1257	8/8	0.83	0.20	33,49,55,55	0
3	MRD	A	1257	8/8	0.85	0.19	38,50,53,54	0
3	MRD	H	1258	8/8	0.86	0.16	34,45,48,48	0
5	9W7	H	1259	21/21	0.94	0.12	19,23,33,40	0
5	9W7	D	1258	21/21	0.94	0.10	15,21,33,36	0
5	9W7	A	1259	21/21	0.95	0.12	12,18,27,32	0
5	9W7	C	1259	21/21	0.95	0.11	12,20,33,37	0
5	9W7	B	1259	21/21	0.96	0.10	15,21,28,33	0
5	9W7	E	1259	21/21	0.96	0.09	15,19,30,36	0
5	9W7	G	1260	21/21	0.96	0.09	18,26,32,37	0
4	NAP	D	1257	48/48	0.97	0.09	14,22,38,41	0
4	NAP	H	1257	48/48	0.97	0.09	13,22,39,47	0
5	9W7	F	1259	21/21	0.97	0.10	13,23,28,34	0
4	NAP	C	1258	48/48	0.98	0.09	13,20,25,28	0
4	NAP	G	1259	48/48	0.98	0.09	11,22,26,29	0
4	NAP	E	1258	48/48	0.98	0.08	12,20,25,27	0
4	NAP	A	1258	48/48	0.98	0.12	11,19,25,26	0
4	NAP	F	1258	48/48	0.98	0.10	11,19,25,26	0
4	NAP	B	1258	48/48	0.98	0.09	13,19,25,26	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.









6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.