Full wwPDB X-ray Structure Validation Report (i)

Jan 7, 2024 – 01:57 am GMT

PDB ID	:	6H3F
Title	:	Staphylopine dehydrogenase in complex with staphylopine and NADP+
Authors	:	Hajjar, C.; Arnoux, P.
Deposited on	:	2018-07-18
Resolution	:	2.21 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 (i) 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 (i)) were used in the production of this report:

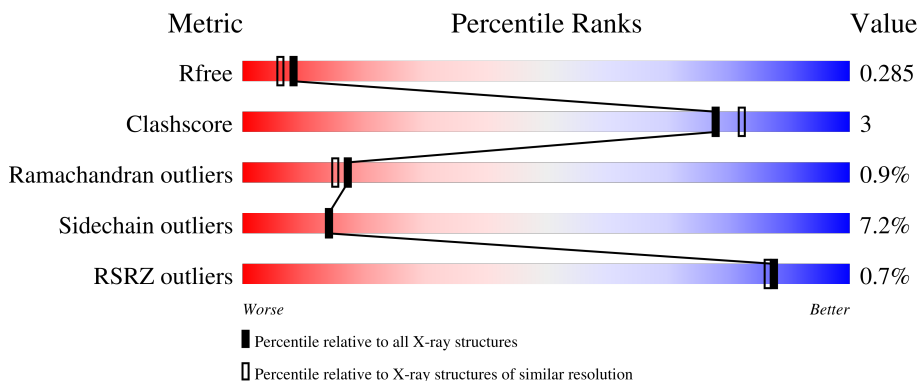|		
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.21 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	Percentile Ranks	Value
Rfree		0.285
Clashscore		3
Ramachandran outliers		0.9%
Sidechain outliers		7.2%
RSRZ outliers		0.7%

Worse						*Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	5912 (2.24-2.20)
Clashscore	141614	6646 (2.24-2.20)
Ramachandran outliers	138981	6543 (2.24-2.20)
Sidechain outliers	138945	6544 (2.24-2.20)
RSRZ outliers	127900	5797 (2.24-2.20)

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 <=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	441	85% 10% · ·

2 Entry composition ⓘ

There are 6 unique types of molecules in this entry. The entry contains 3733 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 Staphylopine dehydrogenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	428	Total 3484	C 2236	N 569	O 656	S 23	0	1	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	439	LEU	-	expression tag	UNP A0A0H3JNH9
A	440	GLU	-	expression tag	UNP A0A0H3JNH9
A	441	HIS	-	expression tag	UNP A0A0H3JNH9
A	442	HIS	-	expression tag	UNP A0A0H3JNH9
A	443	HIS	-	expression tag	UNP A0A0H3JNH9
A	444	HIS	-	expression tag	UNP A0A0H3JNH9
A	445	HIS	-	expression tag	UNP A0A0H3JNH9
A	446	HIS	-	expression tag	UNP A0A0H3JNH9

- Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: $C_{21}H_{28}N_7O_{17}P_3$).
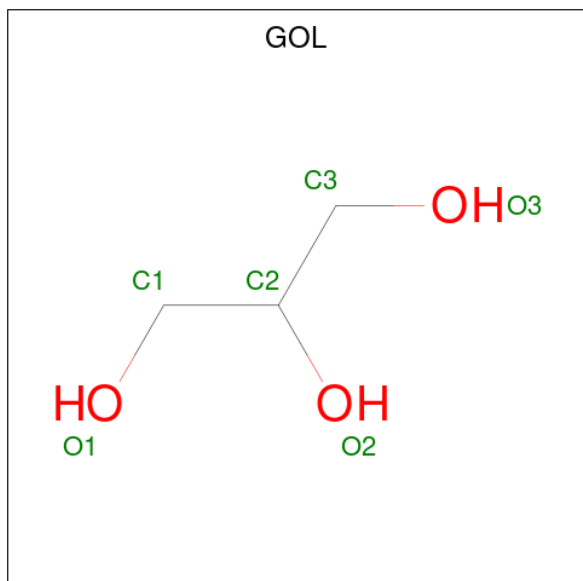
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	1
			96	42	14	34	6		

- Molecule 3 is (2 {S})-4-[[(2 {R})-3-(1 {H}-imidazol-4-yl)-1-oxidanyl-1-oxidanylidene-propan-2-yl]amino]-2-[[(2 {S})-1-oxidanyl-1-oxidanylidene-propan-2-yl]amino]butanoic acid (three-letter code: 8UX) (formula: $C_{13}H_{20}N_4O_6$).
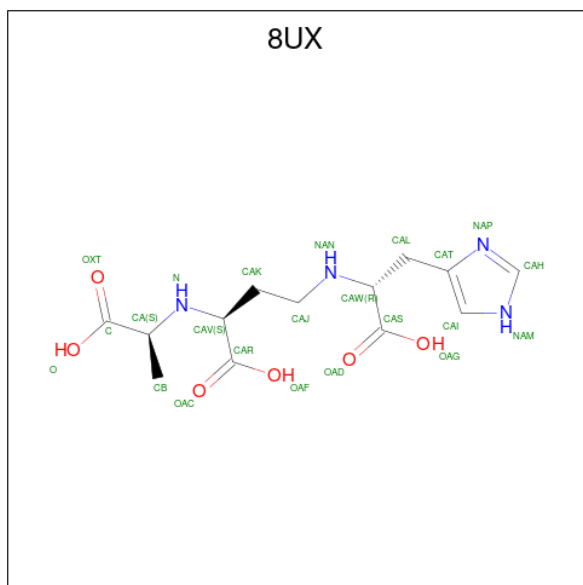
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			23	13	4	6		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).

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

• Molecule 5 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: $C_8H_{18}O_5$).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total 13	C 8	O 5	0	0

• Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	111	Total 111	O 111	0	0

3 Residue-property plots ⓘ

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

• Molecule 1: Staphylopine dehydrogenase
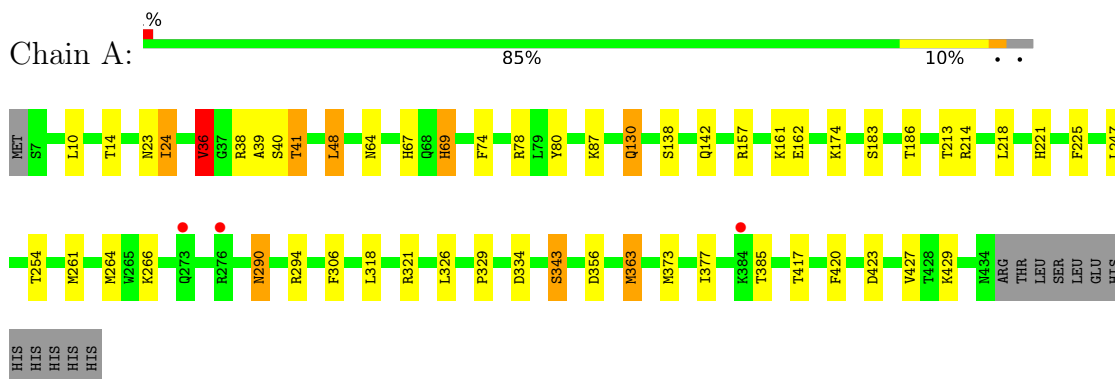
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	187.18Å　49.14Å　58.71Å 90.00°　　90.00°　　90.00°	Depositor
Resolution (Å)	93.59　–　2.21 47.53　–　2.21	Depositor EDS
% Data completeness (in resolution range)	99.4 (93.59-2.21) 99.4 (47.53-2.21)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.82 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.218　,　0.288 0.220　,　0.285	Depositor DCC
R_{free} test set	1438 reflections (5.16%)	wwPDB-VP
Wilson B-factor (Å^2)	46.6	Xtriage
Anisotropy	0.648	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.31 , 32.4	EDS
L-test for twinning[2]	$< |L| > = 0.49, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	3733	wwPDB-VP
Average B, all atoms (Å^2)	59.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.56% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical 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.

WORLDWIDE
wwPDB
PROTEIN DATA BANK

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, PG4, NAP, 8UX

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	0.68	0/3562	0.84	2/4814 (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	A	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	36	VAL	CB-CA-C	-5.58	100.79	111.40
1	A	334	ASP	CB-CG-OD1	5.38	123.14	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	417	THR	Peptide

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	3484	0	3481	21	0
2	A	96	0	50	0	0
3	A	23	0	0	0	0
4	A	6	0	8	0	0
5	A	13	0	18	0	0
6	A	111	0	0	4	0
All	All	3733	0	3557	21	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 3.

All (21) 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:A:14:THR:HB	1:A:48:LEU:HD22	1.63	0.80
1:A:261:MET:CE	1:A:318:LEU:HD22	2.31	0.60
1:A:261:MET:HE2	1:A:318:LEU:HD22	1.90	0.54
1:A:39:ALA:HB2	6:A:707:HOH:O	2.10	0.51
1:A:130:GLN:NE2	6:A:705:HOH:O	2.44	0.50
1:A:39:ALA:N	6:A:707:HOH:O	2.46	0.47
1:A:10:LEU:HD11	1:A:36:VAL:HG22	1.97	0.47
1:A:174:LYS:NZ	6:A:708:HOH:O	2.47	0.46
1:A:78:ARG:HD3	1:A:80:TYR:CE1	2.51	0.46
1:A:64:ASN:HB3	1:A:67:HIS:CE1	2.50	0.45
1:A:36:VAL:HG13	1:A:80:TYR:HB2	1.99	0.45
1:A:290:ASN:OD1	1:A:290:ASN:N	2.50	0.45
1:A:294:ARG:NH1	1:A:329:PRO:O	2.50	0.45
1:A:326:LEU:HA	1:A:343:SER:OG	2.17	0.45
1:A:213:THR:OG1	1:A:214:ARG:NH1	2.51	0.43
1:A:373:MET:O	1:A:377:ILE:HG12	2.18	0.42
1:A:38:ARG:HD2	1:A:41:THR:HB	2.01	0.42
1:A:23:ASN:HB2	1:A:74:PHE:CE1	2.54	0.42
1:A:377:ILE:HD13	1:A:427:VAL:HG11	2.01	0.42
1:A:225:PHE:CE2	1:A:363:MET:HG2	2.54	0.42
1:A:24:ILE:N	1:A:24:ILE:HD13	2.35	0.41

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	427/441 (97%)	407 (95%)	16 (4%)	4 (1%)	17	15

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	69	HIS
1	A	40	SER
1	A	306	PHE
1	A	41	THR

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	392/404 (97%)	363 (93%)	29 (7%)	13	13

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	24	ILE
1	A	36	VAL
1	A	48	LEU
1	A	69	HIS
1	A	87	LYS
1	A	130	GLN
1	A	138	SER

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Mol	Chain	Res	Type
1	A	142	GLN
1	A	157	ARG
1	A	161	LYS
1	A	162	GLU
1	A	183	SER
1	A	186	THR
1	A	218	LEU
1	A	221	HIS
1	A	247	LEU
1	A	254	THR
1	A	264	MET
1	A	266	LYS
1	A	290	ASN
1	A	321[A]	ARG
1	A	321[B]	ARG
1	A	343	SER
1	A	356	ASP
1	A	363	MET
1	A	385	THR
1	A	420	PHE
1	A	423	ASP
1	A	429	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	20	GLN
1	A	63	GLN
1	A	67	HIS
1	A	130	GLN
1	A	182	HIS
1	A	210	HIS
1	A	434	ASN

5.3.3 RNA (i)

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 monosaccharides in this entry.

5.6   Ligand geometry ⓘ

5 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#|Z| > 2$	Counts	RMSZ	$\#|Z| > 2$
2	NAP	A	600[A]	-	45,52,52	0.98	3 (6%)	56,80,80	1.15	2 (3%)
5	PG4	A	603	-	12,12,12	0.83	0	11,11,11	0.66	0
4	GOL	A	602	-	5,5,5	0.46	0	5,5,5	0.80	0
3	8UX	A	601	-	19,23,23	1.59	4 (21%)	18,30,30	2.09	7 (38%)
2	NAP	A	600[B]	-	45,52,52	0.97	4 (8%)	56,80,80	1.28	4 (7%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAP	A	600[A]	-	-	11/31/67/67	0/5/5/5
5	PG4	A	603	-	-	5/10/10/10	-
4	GOL	A	602	-	-	2/4/4/4	-
3	8UX	A	601	-	-	14/26/26/26	0/1/1/1
2	NAP	A	600[B]	-	-	9/31/67/67	0/5/5/5

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	601	8UX	OAD-CAS	3.54	1.32	1.22
3	A	601	8UX	O-C	-3.04	1.20	1.30
2	A	600[A]	NAP	O4B-C1B	2.98	1.45	1.41
2	A	600[A]	NAP	C5A-C4A	2.93	1.48	1.40
3	A	601	8UX	OXT-C	2.92	1.31	1.22
2	A	600[B]	NAP	O4D-C1D	2.72	1.44	1.41
2	A	600[B]	NAP	O4B-C1B	2.67	1.44	1.41
2	A	600[A]	NAP	O4D-C1D	2.62	1.44	1.41
3	A	601	8UX	OAG-CAS	-2.31	1.23	1.30
2	A	600[B]	NAP	C5A-C4A	2.27	1.46	1.40
2	A	600[B]	NAP	C2A-N3A	2.09	1.35	1.32

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	601	8UX	O-C-OXT	-4.51	113.84	124.09
2	A	600[B]	NAP	N3A-C2A-N1A	-4.10	122.28	128.68
2	A	600[B]	NAP	O7N-C7N-C3N	3.79	124.17	119.63
2	A	600[A]	NAP	N3A-C2A-N1A	-3.76	122.81	128.68
3	A	601	8UX	O-C-CA	3.41	125.82	114.13
3	A	601	8UX	CAL-CAW-CAS	3.39	118.57	110.42
3	A	601	8UX	OAF-CAR-OAC	-2.83	117.66	124.09
2	A	600[A]	NAP	C2A-N1A-C6A	2.73	123.43	118.75
2	A	600[B]	NAP	C4A-C5A-N7A	-2.50	106.80	109.40
2	A	600[B]	NAP	O7N-C7N-N7N	-2.42	119.14	122.58
3	A	601	8UX	CB-CA-N	2.23	113.56	108.85
3	A	601	8UX	OAF-CAR-CAV	2.16	120.59	113.40
3	A	601	8UX	OAG-CAS-CAW	2.07	120.29	113.40

There are no chirality outliers.

All (41) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	600[A]	NAP	C5B-O5B-PA-O2A
2	A	600[A]	NAP	O4D-C1D-N1N-C2N
2	A	600[A]	NAP	O4D-C1D-N1N-C6N
2	A	600[B]	NAP	C5B-O5B-PA-O1A
2	A	600[B]	NAP	C5B-O5B-PA-O2A
2	A	600[B]	NAP	O4D-C1D-N1N-C2N
3	A	601	8UX	O-C-CA-CB
3	A	601	8UX	OXT-C-CA-CB
3	A	601	8UX	CAW-CAL-CAT-CAI

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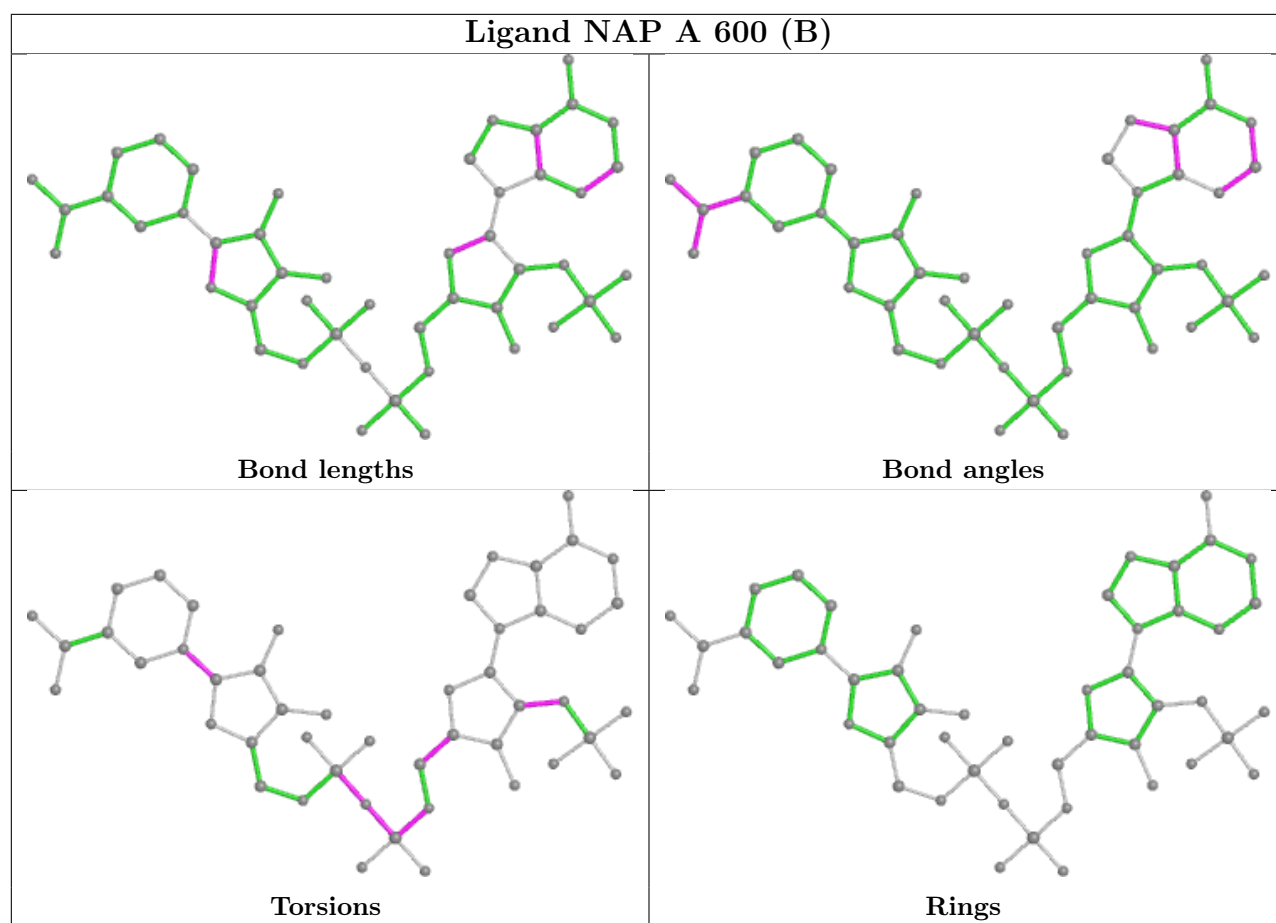| Mol	Chain	Res	Type	Atoms
3	A	601	8UX	CAW-CAL-CAT-NAP
4	A	602	GOL	O1-C1-C2-O2
4	A	602	GOL	O1-C1-C2-C3
5	A	603	PG4	O2-C3-C4-O3
5	A	603	PG4	O3-C5-C6-O4
5	A	603	PG4	O4-C7-C8-O5
2	A	600[B]	NAP	C1B-C2B-O2B-P2B
2	A	600[A]	NAP	C3B-C2B-O2B-P2B
2	A	600[B]	NAP	C3B-C2B-O2B-P2B
3	A	601	8UX	CAJ-CAK-CAV-N
2	A	600[A]	NAP	C1B-C2B-O2B-P2B
3	A	601	8UX	CAJ-CAK-CAV-CAR
3	A	601	8UX	CAK-CAJ-NAN-CAW
3	A	601	8UX	OAG-CAS-CAW-NAN
3	A	601	8UX	OAD-CAS-CAW-NAN
2	A	600[B]	NAP	PN-O3-PA-O5B
2	A	600[A]	NAP	C5B-O5B-PA-O3
2	A	600[B]	NAP	C5B-O5B-PA-O3
2	A	600[A]	NAP	C5B-O5B-PA-O1A
3	A	601	8UX	CAT-CAL-CAW-CAS
2	A	600[B]	NAP	PA-O3-PN-O2N
3	A	601	8UX	OXT-C-CA-N
5	A	603	PG4	C3-C4-O3-C5
2	A	600[B]	NAP	O4B-C4B-C5B-O5B
2	A	600[A]	NAP	PA-O3-PN-O2N
3	A	601	8UX	CAT-CAL-CAW-NAN
3	A	601	8UX	O-C-CA-N
3	A	601	8UX	CB-CA-N-CAV
2	A	600[A]	NAP	C2D-C1D-N1N-C2N
2	A	600[A]	NAP	C2D-C1D-N1N-C6N
5	A	603	PG4	C1-C2-O2-C3
2	A	600[A]	NAP	O4B-C4B-C5B-O5B

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 then 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 NAP A 600 (A)

Bond lengths

Bond angles

Torsions

Rings

Ligand 8UX A 601

Bond lengths

Bond angles

Torsions

Rings

Ligand NAP A 600 (B)

Bond lengths

Bond angles

Torsions

Rings
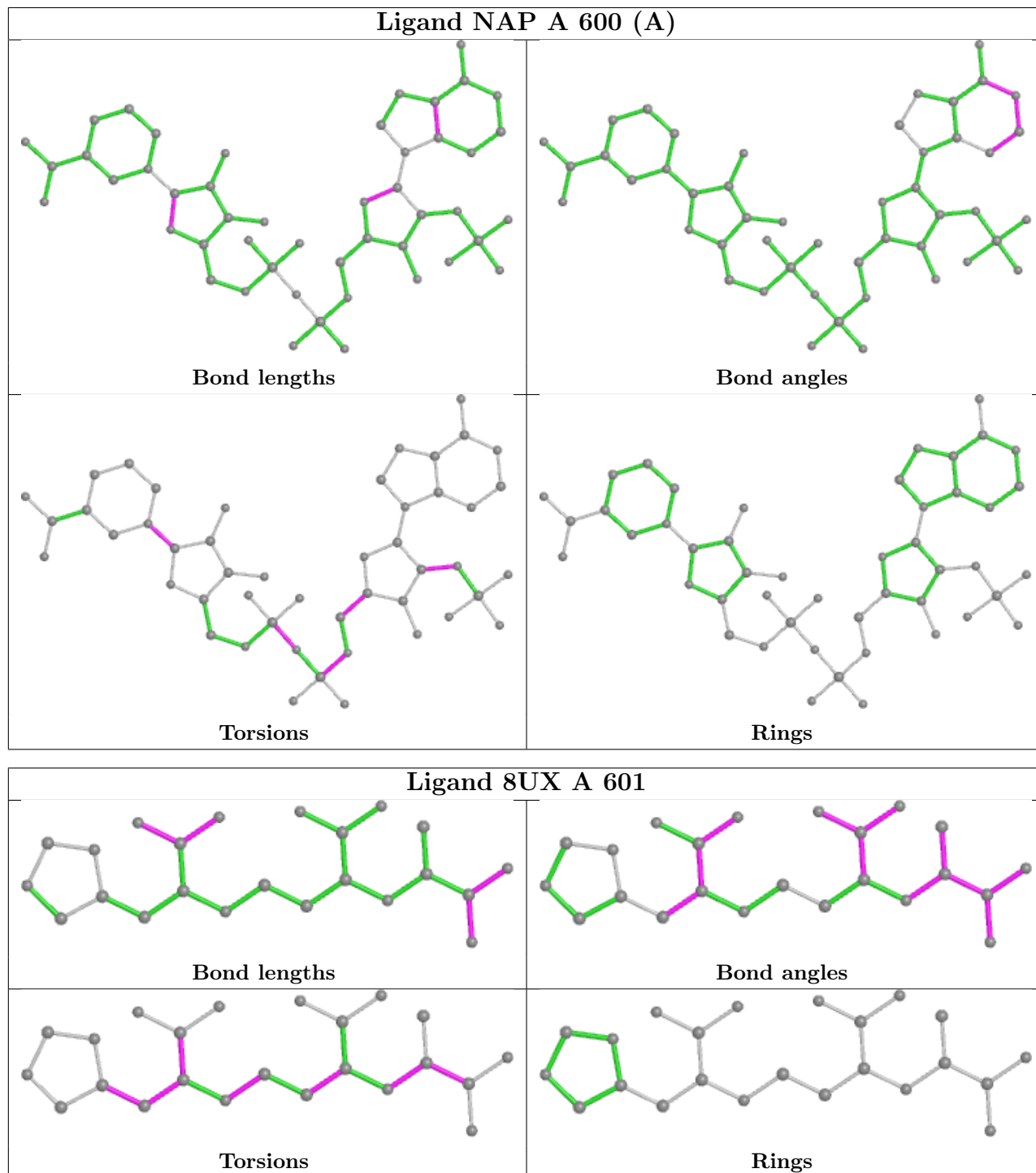
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB($Å^2$)	Q<0.9
1	A	428/441 (97%)	-0.28	3 (0%)	87	86	33, 56, 86, 108	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	276	ARG	2.6
1	A	384	LYS	2.2
1	A	273	GLN	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 monosaccharides 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	8UX	A	601	23/23	0.67	0.30	68,104,136,142	0
5	PG4	A	603	13/13	0.73	0.37	70,90,105,108	0
4	GOL	A	602	6/6	0.90	0.29	53,57,61,62	0
2	NAP	A	600[B]	48/48	0.94	0.12	45,58,72,78	48
2	NAP	A	600[A]	48/48	0.94	0.12	44,54,62,64	48

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.
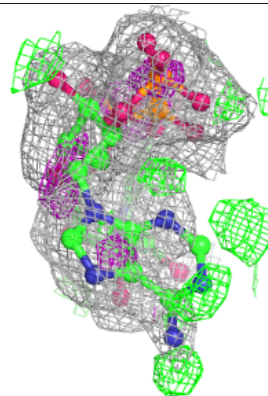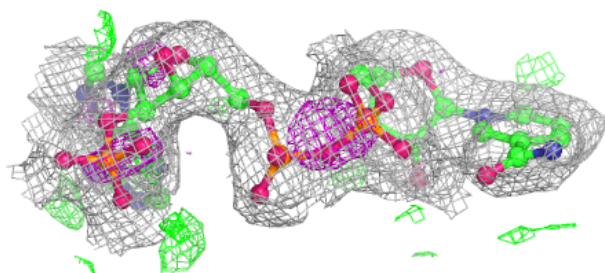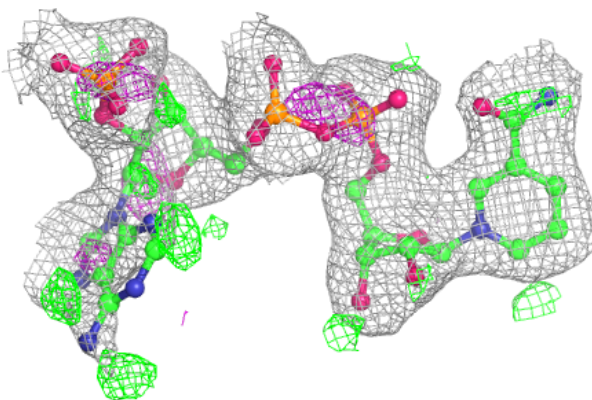
Electron density around 8UX A 601:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
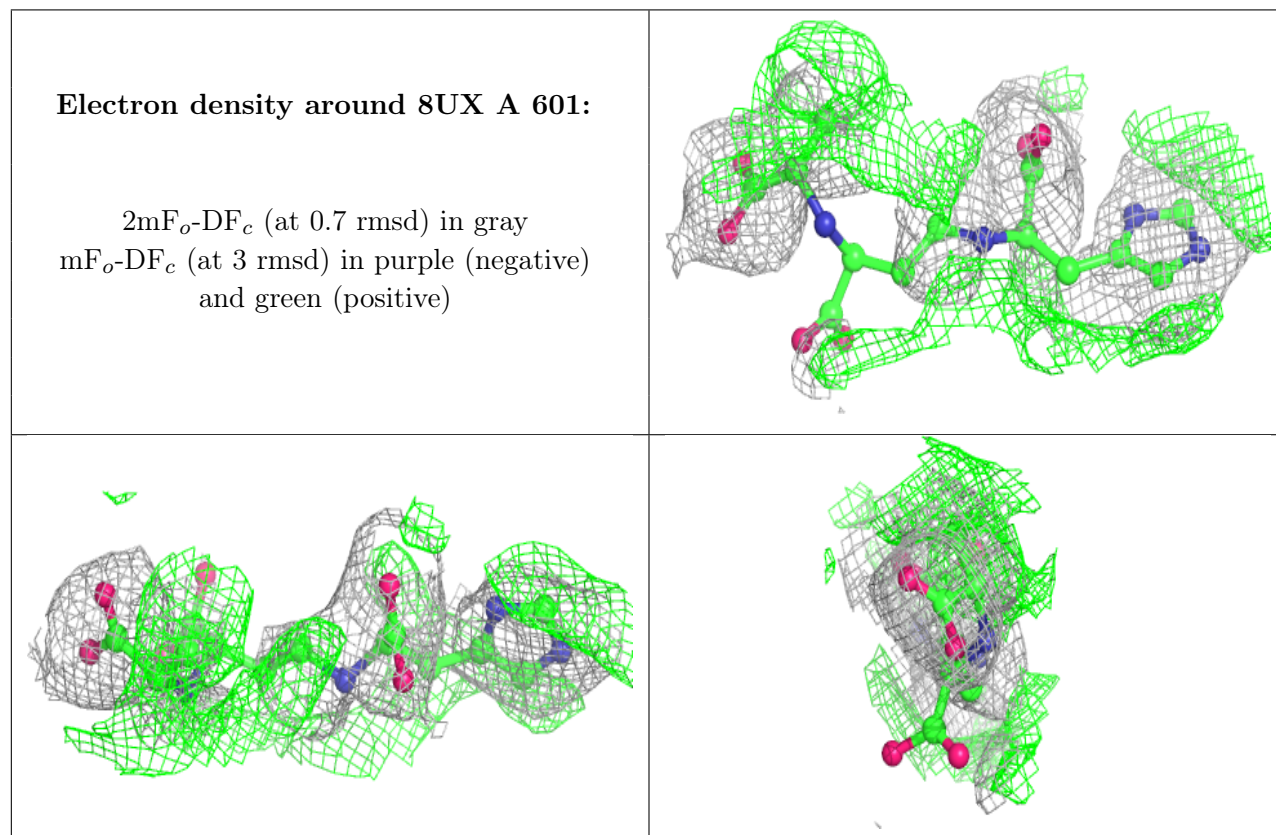
Electron density around NAP A 600 (B):

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
and green (positive)
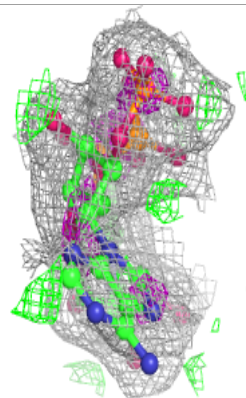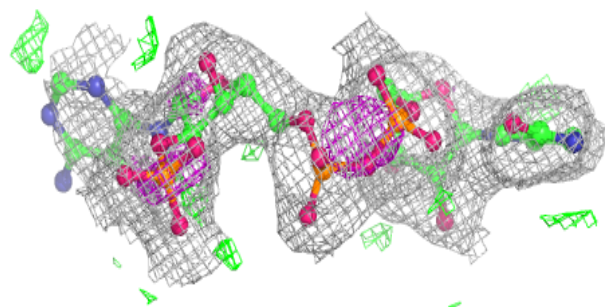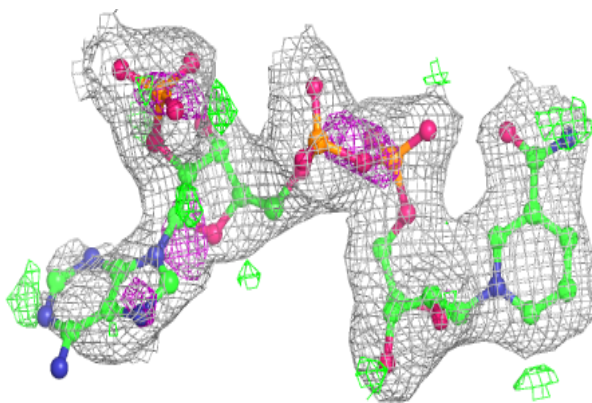
Electron density around NAP A 600 (A):

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.