wwPDB X-ray Structure Validation Summary Report ⓘ

May 13, 2020 – 01:39 pm BST

PDB ID	:	3G49
Title	:	N-(Pyridin-2-yl) Arylsulfonamide Inhibitors of 11b-Hydroxysteroid Dehydrogenase Type 1: Discovery of PF-915275
Authors	:	Pauly, T.A.
Deposited on	:	2009-02-03
Resolution	:	2.50 Å(reported)

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

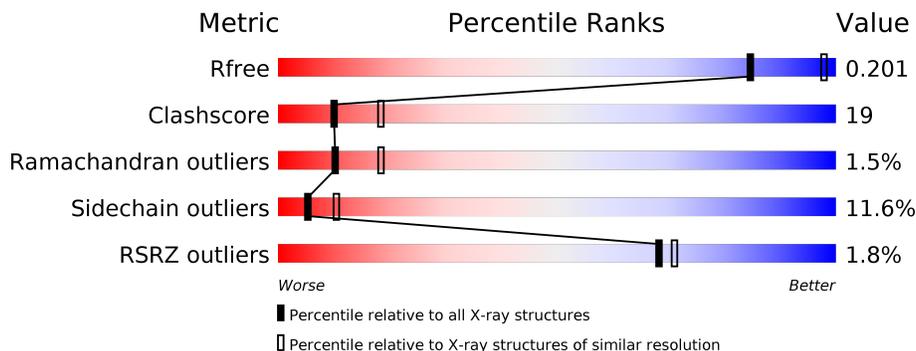|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 2.50 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		0.201
Clashscore		19
Ramachandran outliers		1.5%
Sidechain outliers		11.6%
RSRZ outliers		1.8%

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	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments 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.

Mol	Chain	Length	Quality of chain
1	A	277	60% 25% 10% 5%
1	B	277	3% 56% 34% 5% 5%
1	C	277	2% 56% 30% 6% • 5%
1	D	277	2% 55% 31% 9% • 5%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

| Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	3G4	A	2004	-	-	X	-
3	3G4	D	2007	-	-	X	-

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 8480 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 11-beta-hydroxysteroid dehydrogenase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	263	Total 2017	C 1296	N 337	O 369	S 15	0	0	0
1	B	263	Total 2017	C 1296	N 337	O 369	S 15	0	0	0
1	C	263	Total 2017	C 1296	N 337	O 369	S 15	0	0	0
1	D	263	Total 2017	C 1296	N 337	O 369	S 15	0	0	0

- Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: $C_{21}H_{28}N_7O_{17}P_3$).
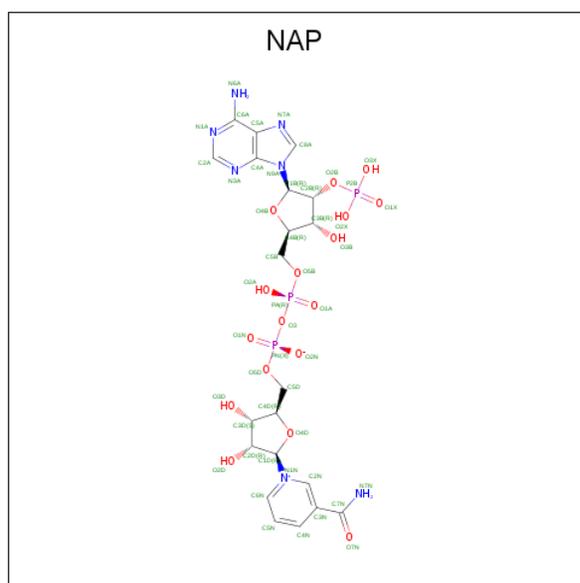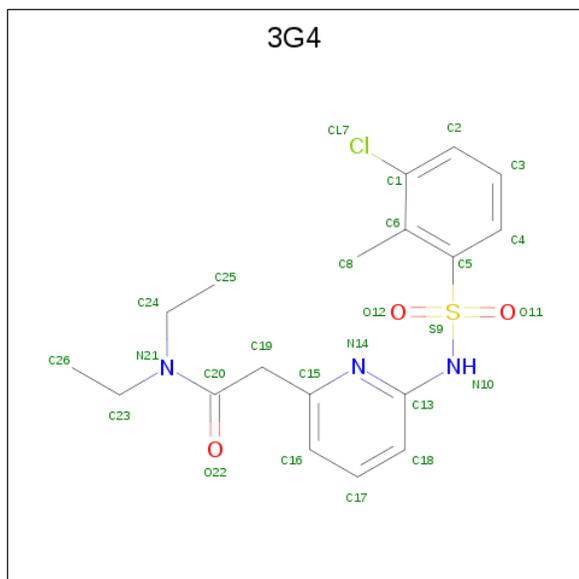

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total 48	C 21	N 7	O 17	P 3	0	0
2	B	1	Total 48	C 21	N 7	O 17	P 3	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	C	1	Total	C	N	O	P	0	0
			48	21	7	17	3		
2	D	1	Total	C	N	O	P	0	0
			48	21	7	17	3		

- Molecule 3 is 2-(6-{[(3-chloro-2-methylphenyl)sulfonyl]amino}pyridin-2-yl)-N,N-diethylacet amide (three-letter code: 3G4) (formula: $C_{18}H_{22}ClN_3O_3S$).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	S	0	0
			26	18	1	3	3	1		
3	D	1	Total	C	Cl	N	O	S	0	0
			26	18	1	3	3	1		

- Molecule 4 is water.

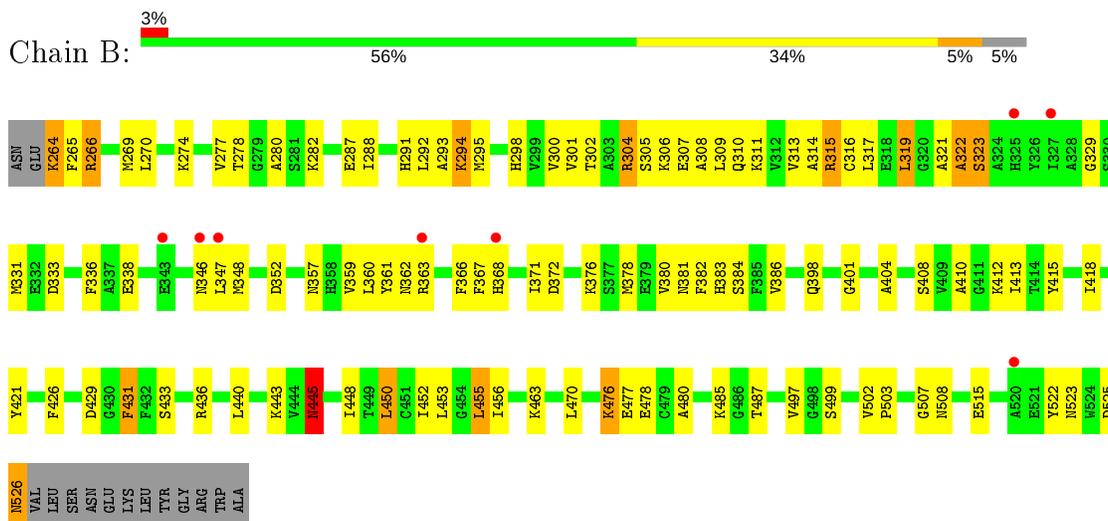| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	46	Total	O	0	0
			46	46		
4	B	28	Total	O	0	0
			28	28		
4	C	48	Total	O	0	0
			48	48		
4	D	46	Total	O	0	0
			46	46		

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA and DNA 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.
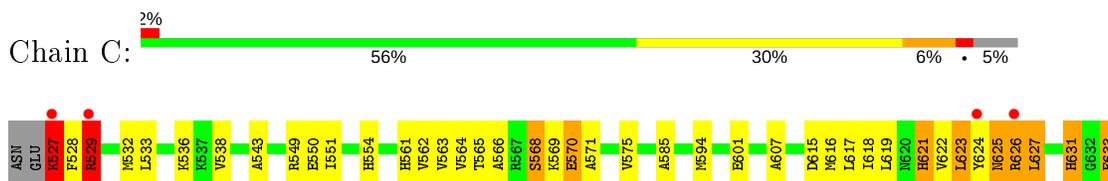
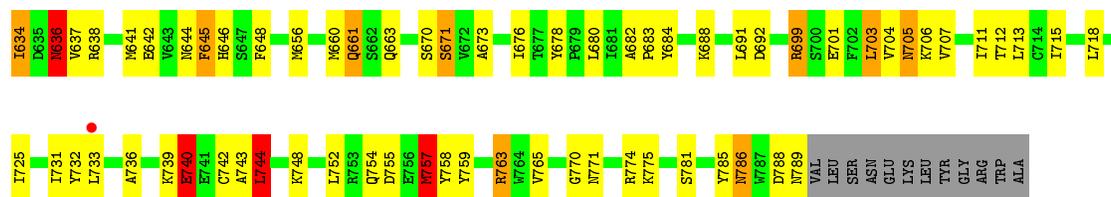- Molecule 1: 11-beta-hydroxysteroid dehydrogenase 1

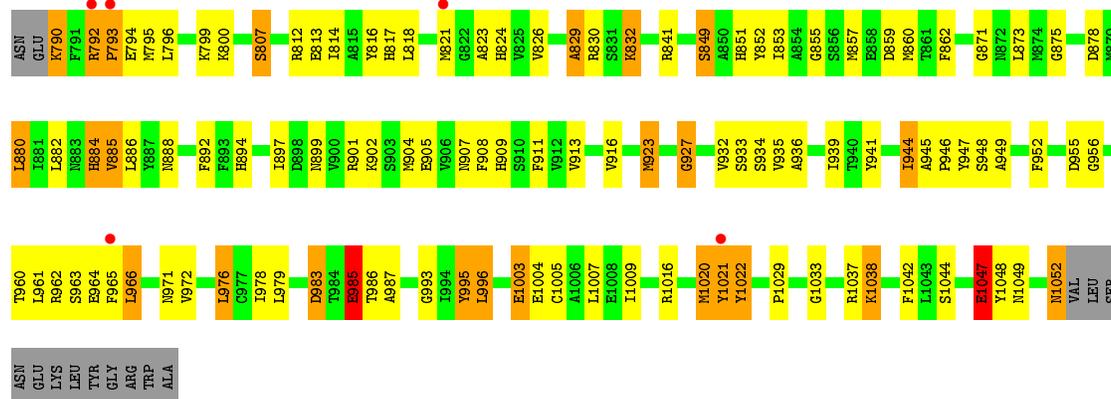- Molecule 1: 11-beta-hydroxysteroid dehydrogenase 1

- Molecule 1: 11-beta-hydroxysteroid dehydrogenase 1

I634 D635 M636 V637 R638 M641 E642 V643 N644 F645 H646 S647 F648 M656 M660 Q661 S662 Q663 S670 S671 V672 A673 I676 T677 Y678 P679 L680 I681 A682 P683 Y684 K688 L691 D692 R699 S700 E701 F702 L703 V704 N705 K706 V707 I711 T712 L713 C714 I715 L718

I725 I731 Y732 L733 A736 K739 E740 E741 C742 A743 L744 K748 L752 R753 Q754 D755 E756 M757 Y758 Y759 S781 Y785 N786 W787 D788 N789 VAL LEU SER ASN GLU LYS LEU TYR GLY ARG TRP ALA R763 W764 V765 G770 N771 R774 K775

• Molecule 1: 11-beta-hydroxysteroid dehydrogenase 1

Chain D:

2%
55% 31% 9% • 5%

ASN GLU K790 F791 R792 P793 E794 M795 L796 K799 K800 S807 R812 E813 I814 A815 Y816 B817 L818 N821 G822 A823 H824 V825 V826 A829 R830 S831 K832 R841 S849 A850 H851 Y852 I853 A854 G855 S856 M857 E858 D859 M860 T861 F862 G871 N872 L873 M874 G875 D878 M879

L880 I881 L882 N883 H884 V885 L886 Y887 N888 F892 F893 H894 I897 D898 N899 V900 R901 K902 S903 M904 E905 V906 N907 F908 H909 S910 F911 V912 V913 V916 M923 G927 V932 S933 S934 V935 A936 I939 T940 Y941 I944 A945 P946 Y947 S948 A949 F952 D955 G956

T960 L961 R962 S963 E964 F965 L966 N971 V972 L976 C977 I978 L979 D983 T984 E985 T986 A987 G993 I994 Y995 L996 E1003 E1004 C1005 A1006 L1007 E1008 I1009 R1016 M1020 Y1021 Y1022 P1029 G1033 R1037 K1038 F1042 L1043 S1044 E1047 Y1048 N1049 M1052 VAL LEU SER

ASN GLU LYS LEU TYR GLY ARG TRP ALA

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	78.21Å 83.60Å 179.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.27 – 2.50 41.28 – 2.50	Depositor EDS
% Data completeness (in resolution range)	91.8 (41.27-2.50) 91.8 (41.28-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$<I/\sigma(I)>$ [1]	1.76 (at 2.51Å)	Xtriage
Refinement program	REFMAC 5.1.24, CNS	Depositor
R, R_{free}	0.189 , 0.225 0.212 , 0.201	Depositor DCC
R_{free} test set	1935 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å^2)	27.8	Xtriage
Anisotropy	0.408	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.39 , 50.1	EDS
L-test for twinning[2]	$<|L|> = 0.49$, $<L^2> = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	8480	wwPDB-VP
Average B, all atoms (Å^2)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.18% 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.

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: NAP, 3G4

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	1.58	12/2056 (0.6%)	1.46	20/2777 (0.7%)
1	B	1.55	12/2056 (0.6%)	1.38	13/2777 (0.5%)
1	C	1.57	17/2056 (0.8%)	1.41	18/2777 (0.6%)
1	D	1.58	11/2056 (0.5%)	1.45	25/2777 (0.9%)
All	All	1.57	52/8224 (0.6%)	1.43	76/11108 (0.7%)

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	B	0	1
1	D	0	1
All	All	0	2

The worst 5 of 52 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	733	LEU	C-O	8.51	1.39	1.23
1	A	158	TYR	CB-CG	-6.82	1.41	1.51
1	A	173	ARG	CD-NE	6.08	1.56	1.46
1	C	701	GLU	CD-OE2	5.96	1.32	1.25
1	D	885	VAL	CB-CG1	5.92	1.65	1.52

The worst 5 of 76 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	173	ARG	NE-CZ-NH2	16.72	128.66	120.30
1	D	962	ARG	NE-CZ-NH2	-12.70	113.95	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	173	ARG	NE-CZ-NH1	-12.68	113.96	120.30
1	D	962	ARG	NE-CZ-NH1	12.10	126.35	120.30
1	C	699	ARG	NE-CZ-NH2	9.37	124.99	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	507	GLY	Peptide
1	D	927	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	2017	0	2053	78	0
1	B	2017	0	2050	64	0
1	C	2017	0	2050	84	0
1	D	2017	0	2050	93	0
2	A	48	0	25	5	0
2	B	48	0	25	2	0
2	C	48	0	25	2	0
2	D	48	0	25	2	0
3	A	26	0	22	15	0
3	D	26	0	22	14	0
4	A	46	0	0	2	0
4	B	28	0	0	2	0
4	C	48	0	0	2	0
4	D	46	0	0	5	0
All	All	8480	0	8347	316	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 19.

The worst 5 of 316 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:134:MET:SD	1:A:134:MET:CE	2.07	1.41
1:D:985:GLU:HB3	4:D:2239:HOH:O	1.11	1.23
1:B:526:ASN:HD22	1:B:526:ASN:N	1.60	1.00
1:C:527:LYS:HD3	1:C:527:LYS:C	1.83	0.98
1:D:892:PHE:HB2	1:D:894:HIS:HE1	1.28	0.98

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	261/277 (94%)	233 (89%)	23 (9%)	5 (2%)	8	13
1	B	261/277 (94%)	228 (87%)	29 (11%)	4 (2%)	10	18
1	C	261/277 (94%)	238 (91%)	20 (8%)	3 (1%)	14	26
1	D	261/277 (94%)	244 (94%)	13 (5%)	4 (2%)	10	18
All	All	1044/1108 (94%)	943 (90%)	85 (8%)	16 (2%)	10	18

5 of 16 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	154	LEU
1	B	322	ALA
1	A	20	GLY
1	C	742	CYS
1	B	319	LEU

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.

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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	214/226 (95%)	193 (90%)	21 (10%)	8	15
1	B	214/226 (95%)	190 (89%)	24 (11%)	6	11
1	C	214/226 (95%)	185 (86%)	29 (14%)	3	7
1	D	214/226 (95%)	189 (88%)	25 (12%)	5	10
All	All	856/904 (95%)	757 (88%)	99 (12%)	5	10

5 of 99 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	526	ASN
1	C	631	HIS
1	D	985	GLU
1	C	529	ARG
1	C	621	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 29 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	526	ASN
1	C	609	ASN
1	D	909	HIS
1	C	554	HIS
1	C	631	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry (i)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#$|Z| > 2$	Counts	RMSZ	#$|Z| > 2$
3	3G4	D	2007	-	27,27,27	3.34	8 (29%)	36,38,38	2.04	7 (19%)
2	NAP	D	2001	-	45,52,52	1.45	7 (15%)	56,80,80	1.74	13 (23%)
3	3G4	A	2004	-	27,27,27	2.83	5 (18%)	36,38,38	2.23	7 (19%)
2	NAP	C	2000	-	45,52,52	1.81	8 (17%)	56,80,80	1.94	17 (30%)
2	NAP	B	2003	-	45,52,52	1.80	10 (22%)	56,80,80	1.89	12 (21%)
2	NAP	A	2002	-	45,52,52	1.56	8 (17%)	56,80,80	2.10	14 (25%)

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	3G4	D	2007	-	-	9/23/23/23	0/2/2/2
2	NAP	D	2001	-	-	6/31/67/67	0/5/5/5
3	3G4	A	2004	-	-	7/23/23/23	0/2/2/2
2	NAP	C	2000	-	-	7/31/67/67	0/5/5/5
2	NAP	B	2003	-	-	4/31/67/67	0/5/5/5
2	NAP	A	2002	-	-	4/31/67/67	0/5/5/5

The worst 5 of 46 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	2007	3G4	C19-C20	-9.94	1.40	1.52
3	D	2007	3G4	C5-S9	-8.72	1.65	1.77
3	A	2004	3G4	C19-C20	-8.68	1.42	1.52
2	C	2000	NAP	C4A-N3A	8.56	1.47	1.35
3	A	2004	3G4	C5-S9	-8.09	1.66	1.77

The worst 5 of 70 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	2004	3G4	O12-S9-O11	-8.33	109.31	119.55
3	D	2007	3G4	O12-S9-O11	-7.35	110.51	119.55
2	A	2002	NAP	N3A-C2A-N1A	-6.98	117.76	128.68
2	B	2003	NAP	N3A-C2A-N1A	-6.67	118.26	128.68
3	D	2007	3G4	C13-N14-C15	6.59	122.80	118.21

There are no chirality outliers.

5 of 37 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	2007	3G4	C6-C5-S9-O12
3	D	2007	3G4	C6-C5-S9-N10
2	D	2001	NAP	C5D-O5D-PN-O2N
3	A	2004	3G4	C6-C5-S9-O12
3	A	2004	3G4	C6-C5-S9-N10

There are no ring outliers.

6 monomers are involved in 39 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	2007	3G4	14	0
2	D	2001	NAP	2	0
3	A	2004	3G4	15	0
2	C	2000	NAP	2	0
2	B	2003	NAP	2	0
2	A	2002	NAP	5	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 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 3G4 D 2007

Bond lengths

Bond angles

Torsions

Rings

Ligand NAP D 2001

Bond lengths

Bond angles

Torsions

Rings

Ligand 3G4 A 2004	
Bond lengths	Bond angles
Torsions	Rings

Ligand NAP C 2000	
Bond lengths	Bond angles
Torsions	Rings

Ligand NAP B 2003

Bond lengths

Bond angles

Torsions

Rings

Ligand NAP A 2002

Bond lengths

Bond angles

Torsions

Rings
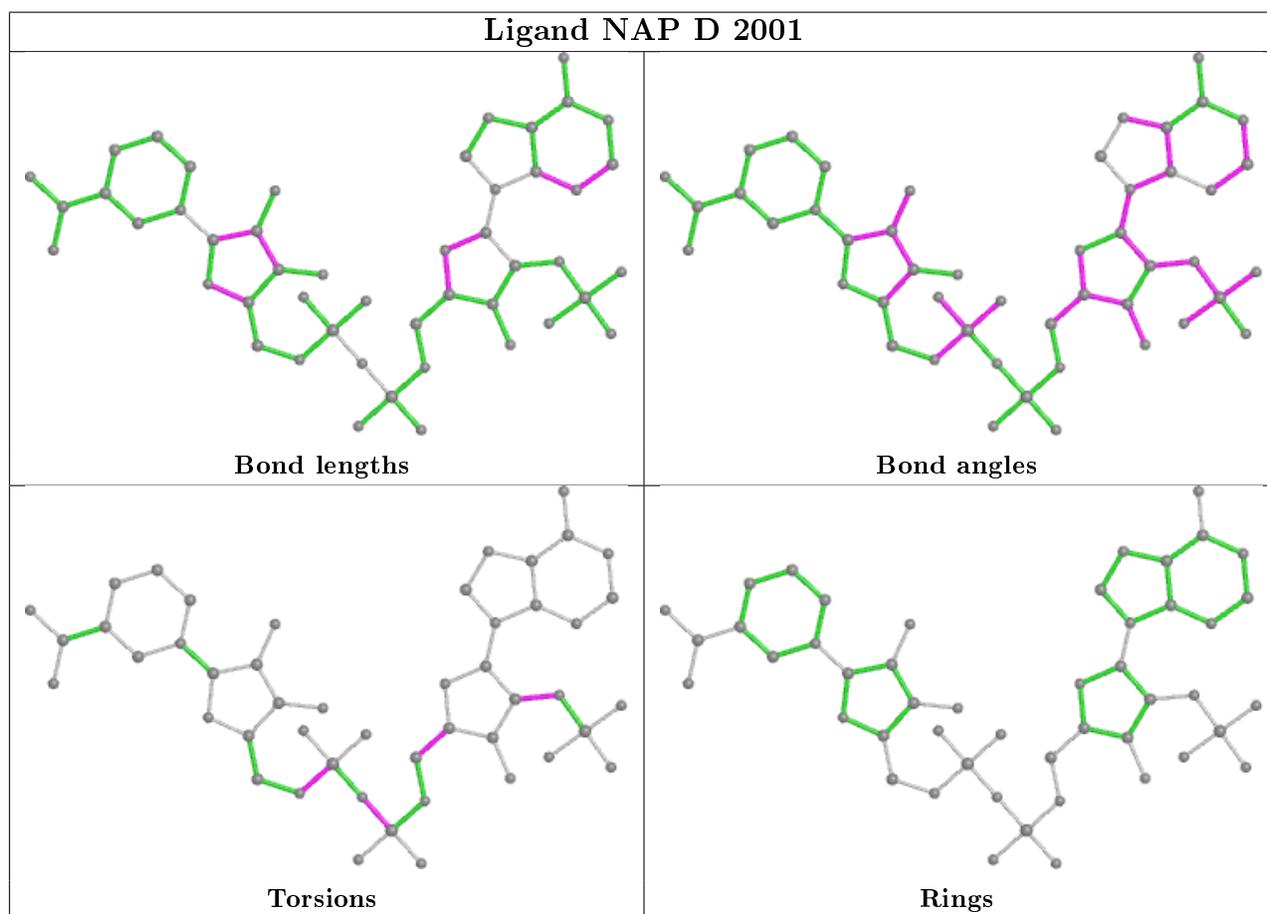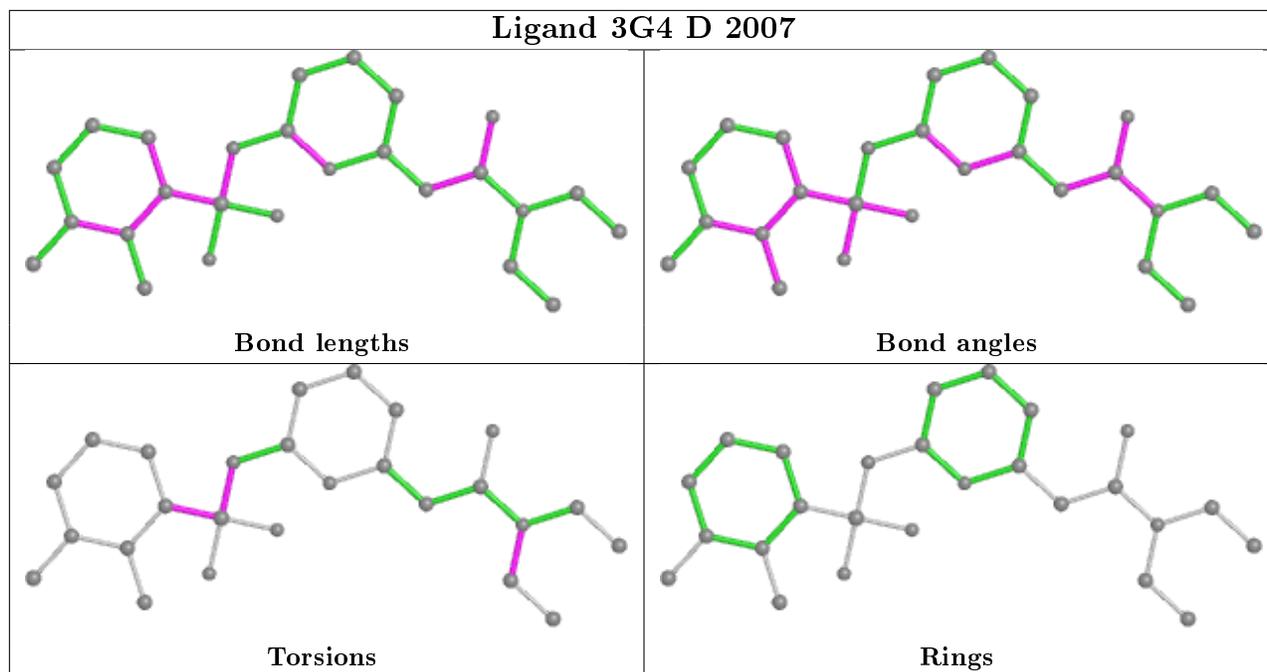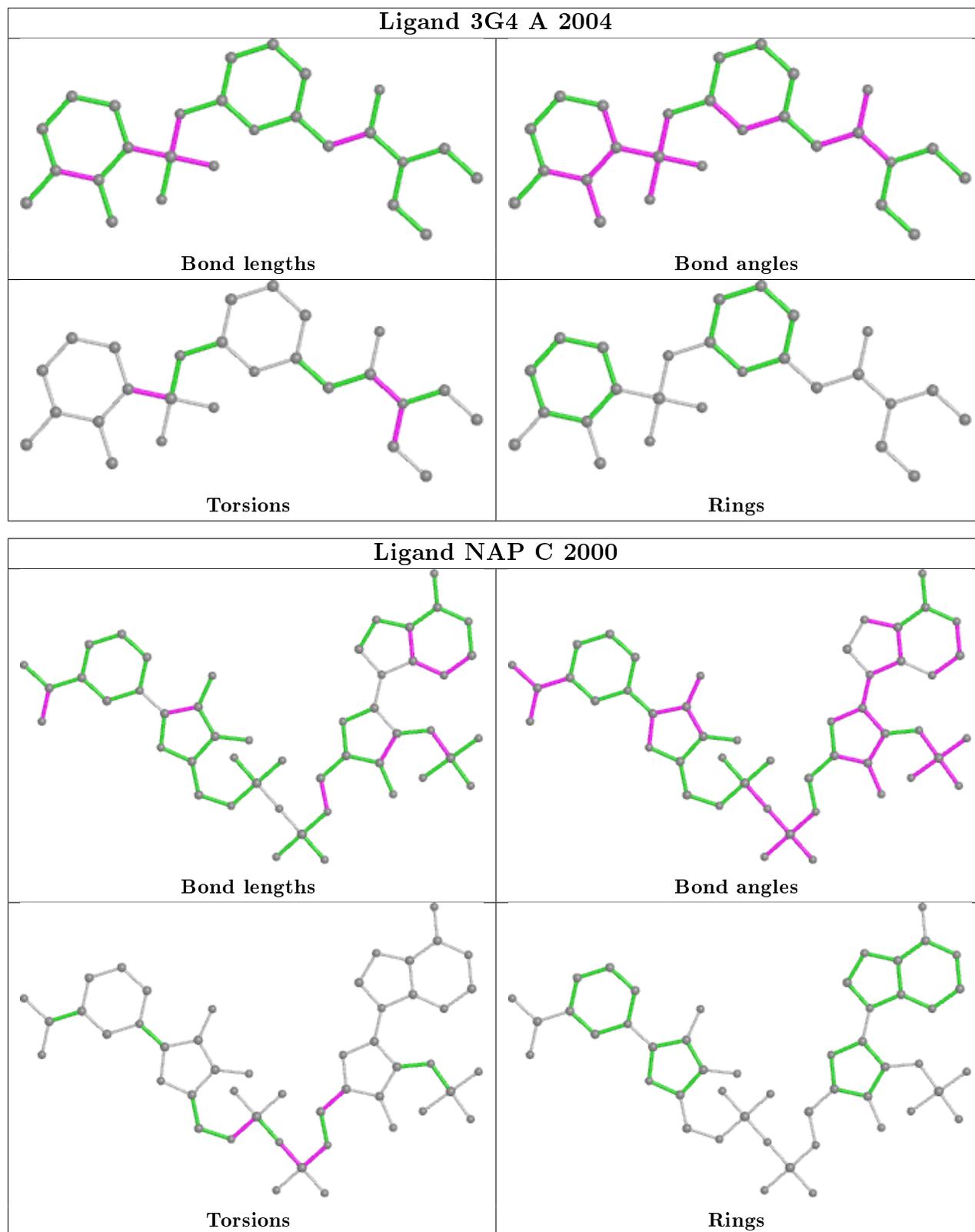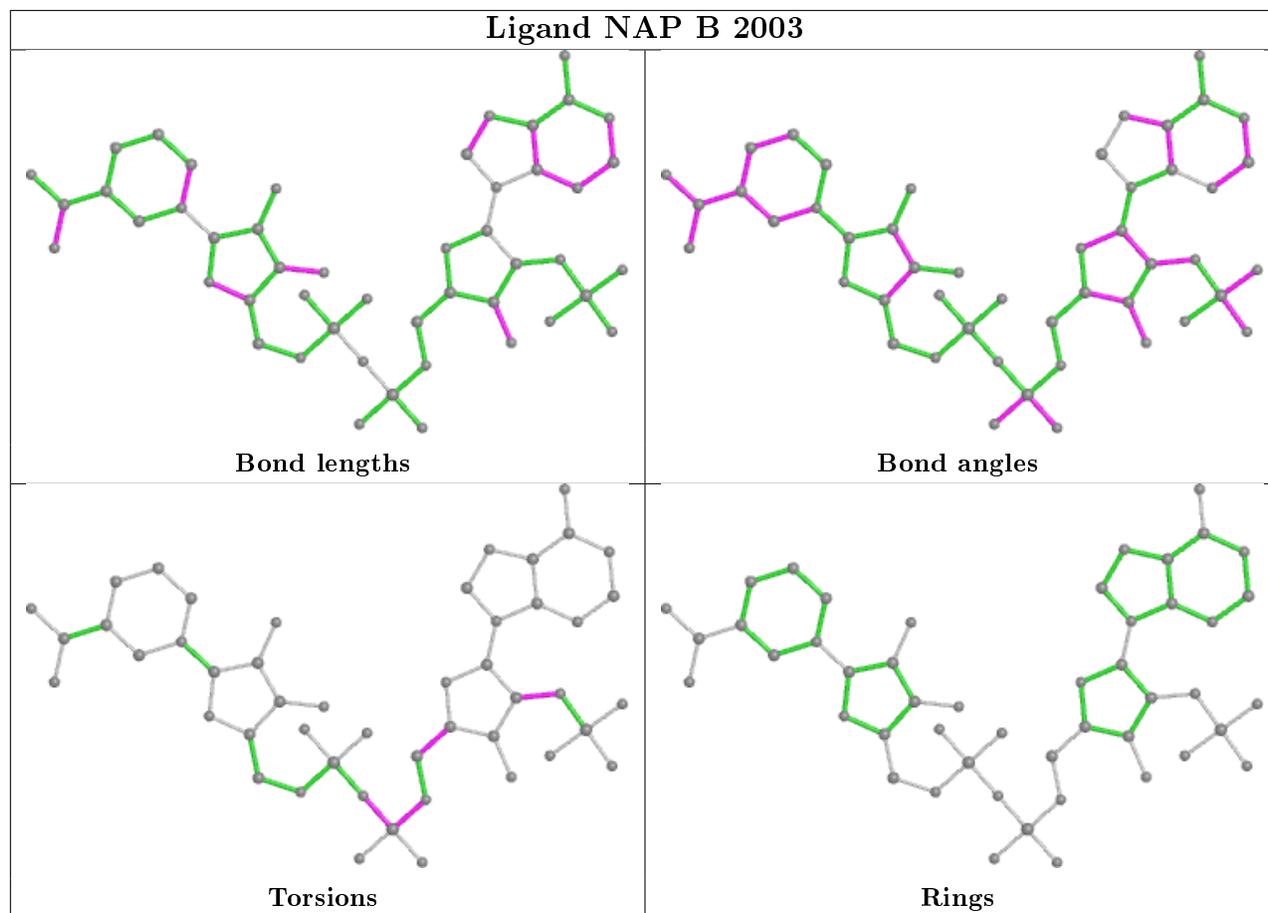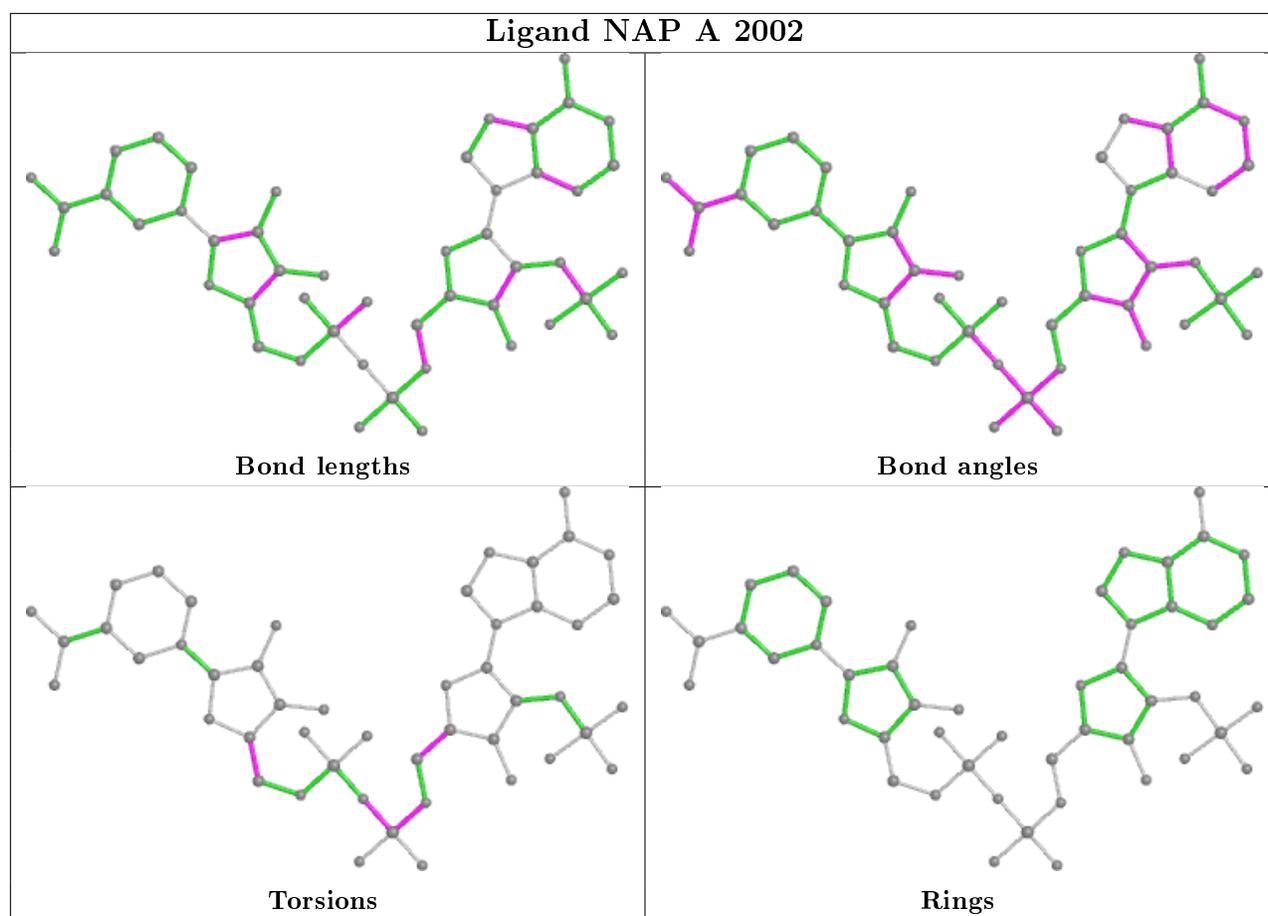
5.7 Other polymers (i)

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	263/277 (94%)	-0.13	1 (0%)	92	93	17, 29, 41, 56	0
1	B	263/277 (94%)	0.10	8 (3%)	50	53	16, 32, 45, 51	0
1	C	263/277 (94%)	0.08	5 (1%)	66	69	16, 31, 45, 61	0
1	D	263/277 (94%)	-0.02	5 (1%)	66	69	16, 28, 41, 56	0
All	All	1052/1108 (94%)	0.01	19 (1%)	68	71	16, 30, 44, 61	0

The worst 5 of 19 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	733	LEU	5.5
1	B	363	ARG	3.9
1	D	1021	TYR	3.7
1	D	792	ARG	3.0
1	B	325	HIS	2.8

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 carbohydrates 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	3G4	A	2004	26/26	0.88	0.20	41,48,60,67	0
3	3G4	D	2007	26/26	0.91	0.20	29,38,60,68	0
2	NAP	D	2001	48/48	0.97	0.13	11,22,28,30	0
2	NAP	C	2000	48/48	0.97	0.12	18,26,36,39	0
2	NAP	B	2003	48/48	0.97	0.13	15,27,33,42	0
2	NAP	A	2002	48/48	0.97	0.12	15,25,29,32	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 3G4 A 2004:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
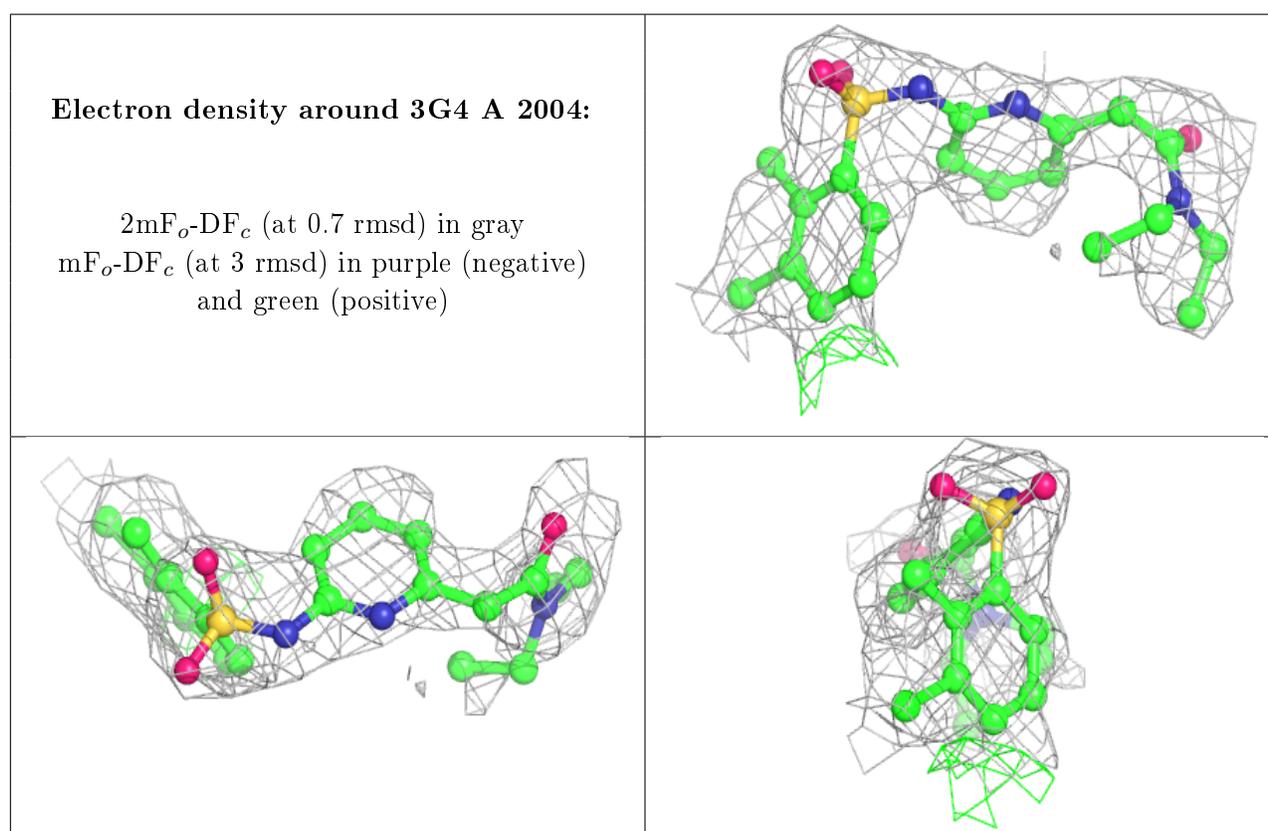
Electron density around 3G4 D 2007:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
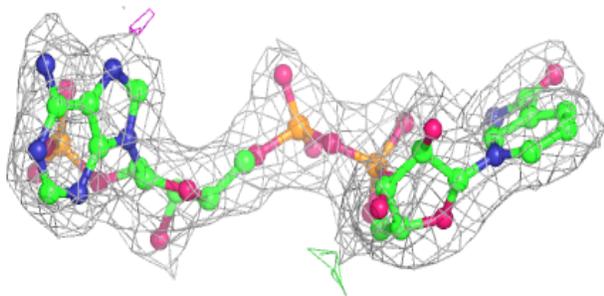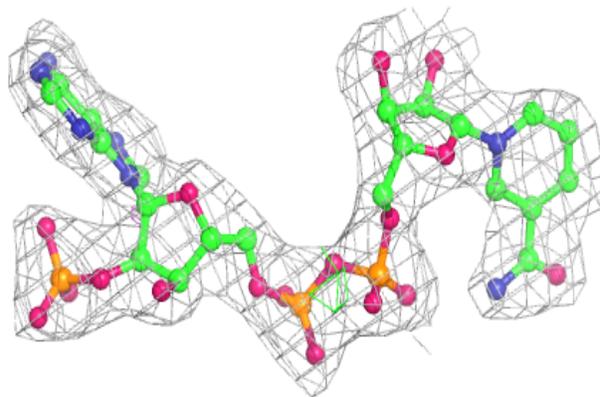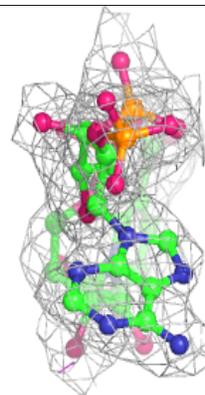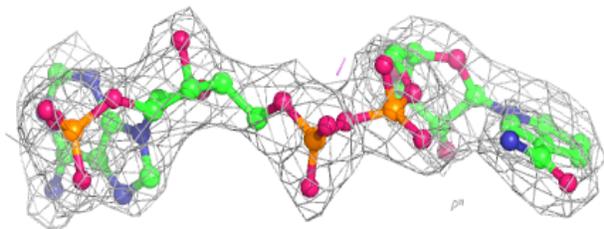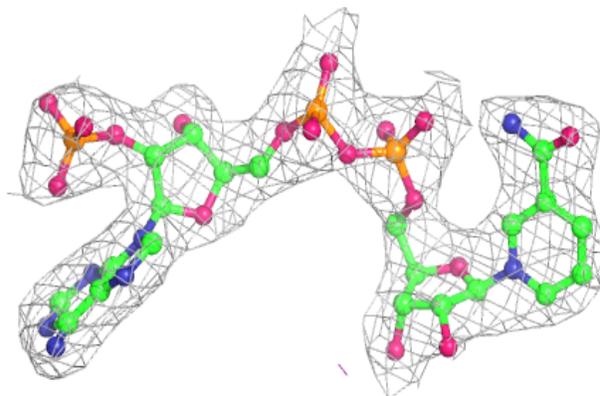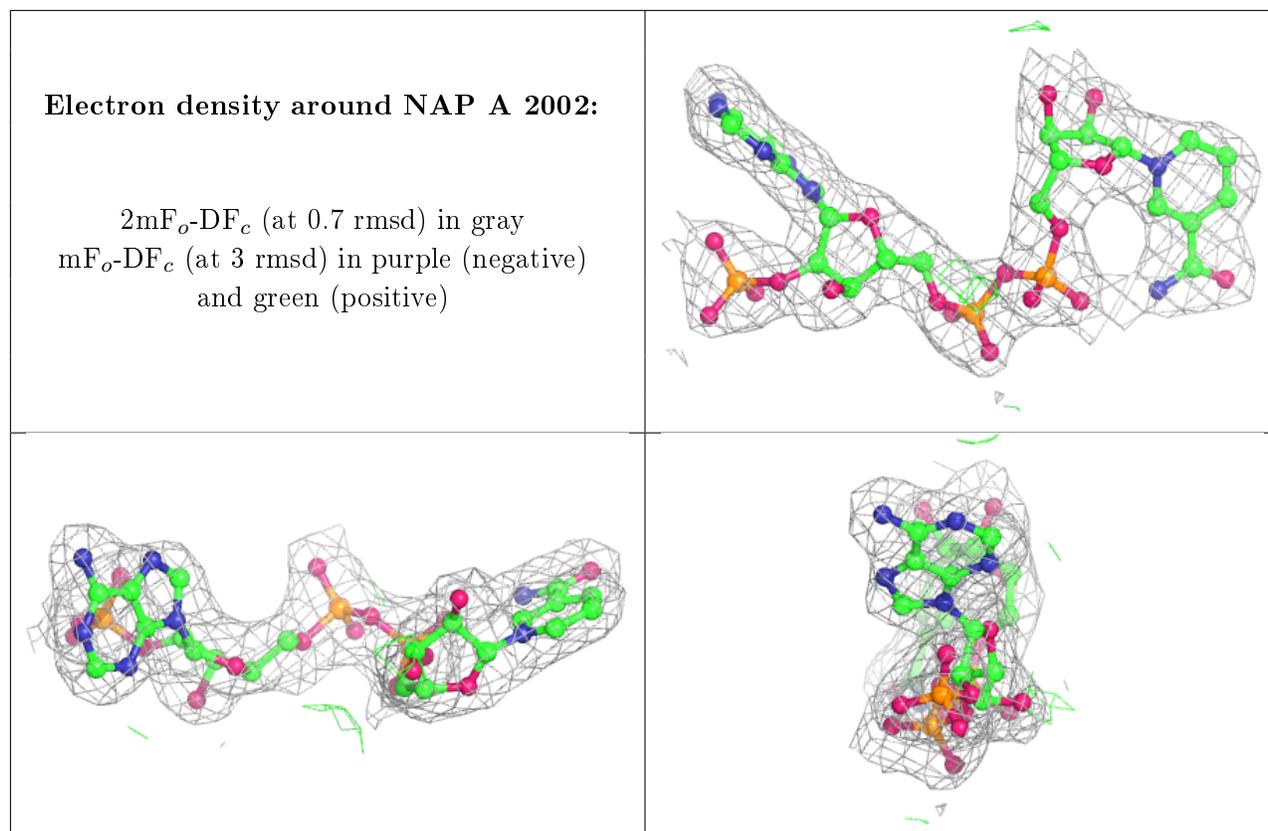and green (positive)
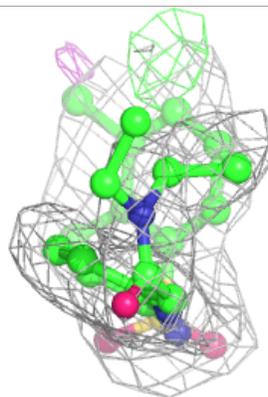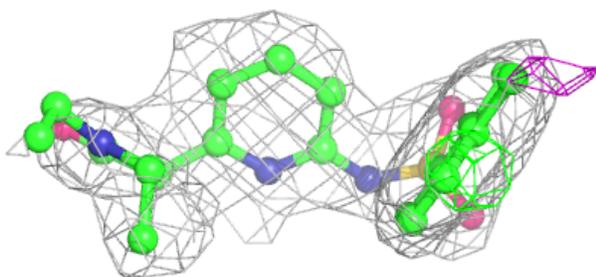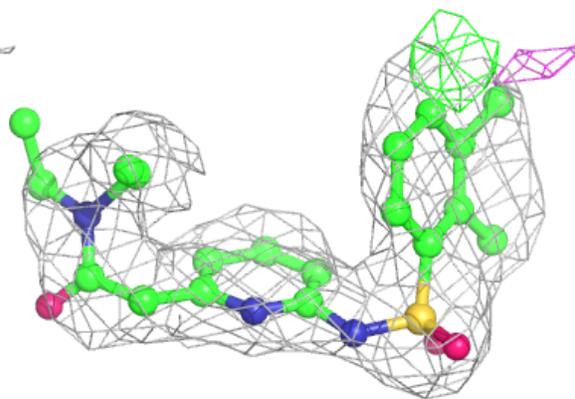
Electron density around NAP D 2001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
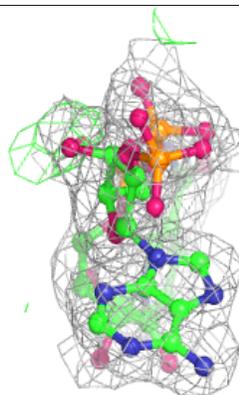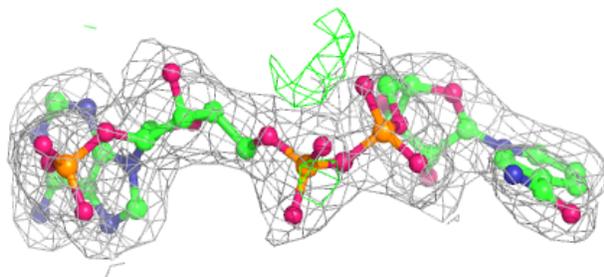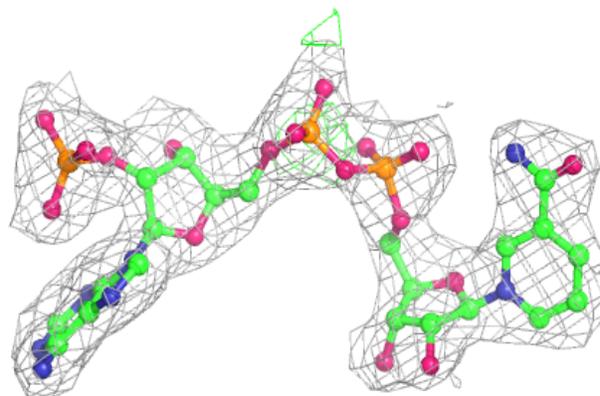
Electron density around NAP C 2000:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
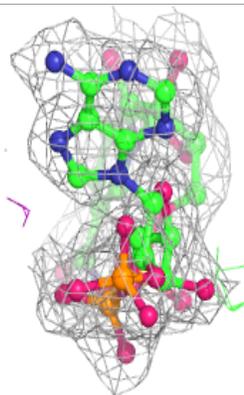
Electron density around NAP B 2003:

$2mF_o$-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 2002:

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

6.5   Other polymers ⓘ

There are no such residues in this entry.