



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 8, 2026 – 12:33 PM UTC

PDB ID : 2VZ0 / pdb_00002vz0
Title : Pteridine Reductase 1 (PTR1) from Trypanosoma Brucei in complex with NADP and DDD00066641
Authors : Robinson, D.A.; Thompson, S.; Sienkiewicz, N.; Fairlamb, A.H.
Deposited on : 2008-07-29
Resolution : 1.90 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

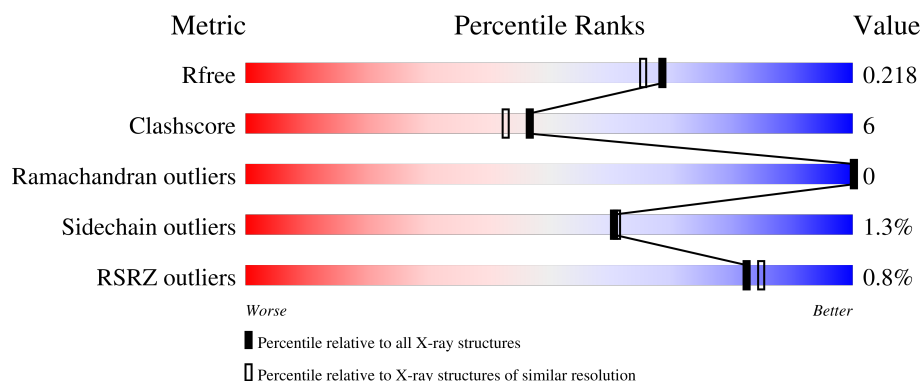
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

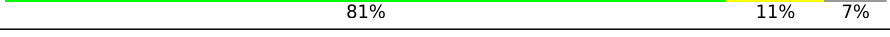
The reported resolution of this entry is 1.90 Å.

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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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.

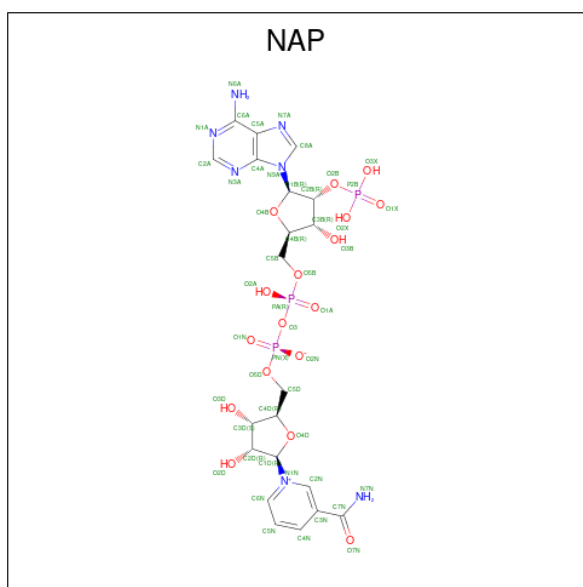
Mol	Chain	Length	Quality of chain
1	A	268	
1	B	268	
1	C	268	
1	D	268	

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 PTERIDINE REDUCTASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	249	Total 1860	C 1169	N 327	O 353	S 11	0	1	0
1	B	248	Total 1848	C 1162	N 326	O 349	S 11	0	0	0
1	C	249	Total 1854	C 1165	N 327	O 351	S 11	0	0	0
1	D	249	Total 1854	C 1165	N 327	O 351	S 11	0	0	0

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



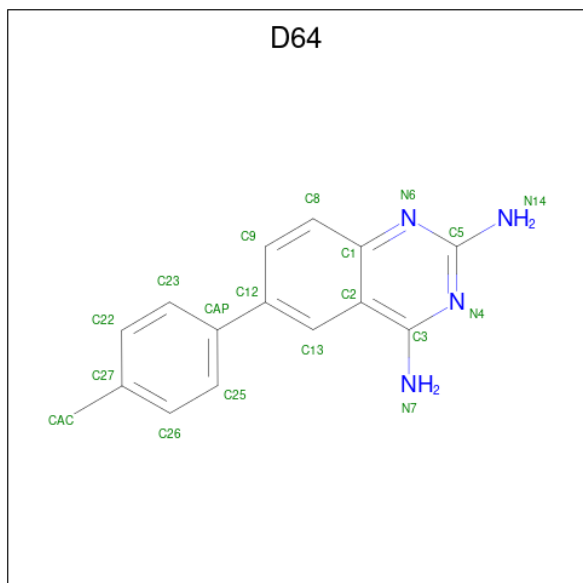
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total 48	C 21	N 7	O 17	P 3	0	0
2	B	1	Total 48	C 21	N 7	O 17	P 3	0	0

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

- Molecule 3 is 6-(4-methylphenyl)quinazoline-2,4-diamine (CCD ID: D64) (formula: $C_{15}H_{14}N_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			19	15	4		
3	B	1	Total	C	N	0	0
			19	15	4		
3	C	1	Total	C	N	0	0
			19	15	4		
3	D	1	Total	C	N	0	0
			19	15	4		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	306	Total	O	0	0
			306	306		
4	B	292	Total	O	0	0
			292	292		
4	C	264	Total	O	0	0
			264	264		

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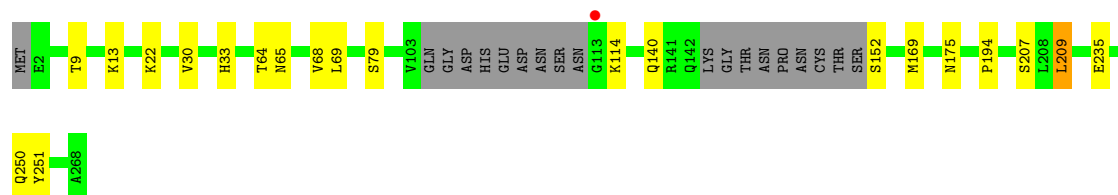
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	284	Total 284	O 284	0	0

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.

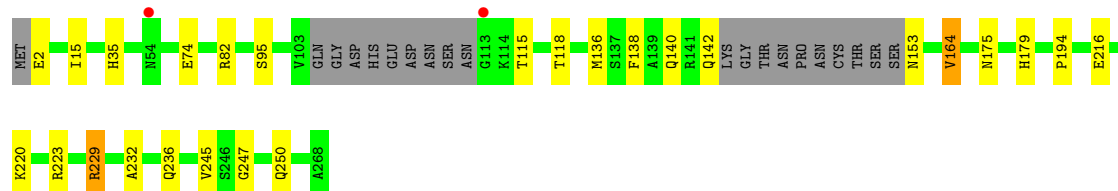
• Molecule 1: PTERIDINE REDUCTASE

Chain A: 



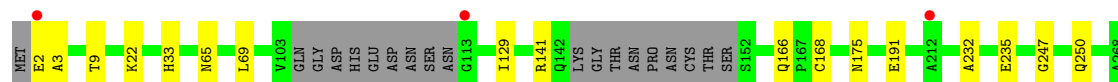
• Molecule 1: PTERIDINE REDUCTASE

Chain B: 



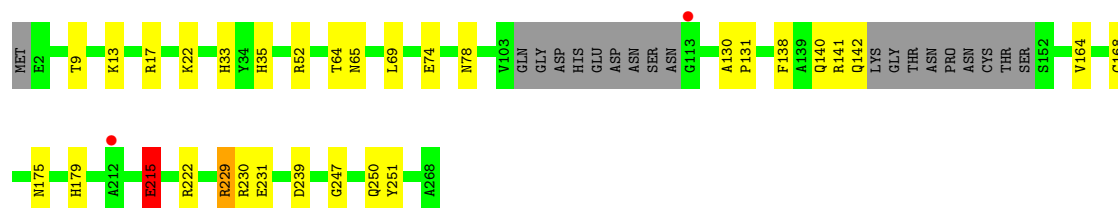
• Molecule 1: PTERIDINE REDUCTASE

Chain C: 



• Molecule 1: PTERIDINE REDUCTASE

Chain D: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	74.48Å 90.82Å 82.62Å 90.00° 115.60° 90.00°	Depositor
Resolution (Å)	20.00 – 1.90 20.00 – 1.90	Depositor EDS
% Data completeness (in resolution range)	93.1 (20.00-1.90) 93.0 (20.00-1.90)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.64 (at 1.90Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.154 , 0.203 0.170 , 0.218	Depositor DCC
R_{free} test set	3654 reflections (4.72%)	wwPDB-VP
Wilson B-factor (Å ²)	17.4	Xtriage
Anisotropy	0.797	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 45.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.019 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8830	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 22.47 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.6600e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: NAP, D64

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	0.84	0/1890	0.88	1/2564 (0.0%)
1	B	0.86	0/1875	0.89	0/2544
1	C	0.82	0/1881	0.90	0/2552
1	D	0.79	0/1881	0.90	1/2552 (0.0%)
All	All	0.83	0/7527	0.89	2/10212 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	215	GLU	N-CA-C	7.68	119.73	111.36
1	A	30	VAL	N-CA-C	5.11	116.07	108.46

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1860	0	1883	19	0
1	B	1848	0	1872	28	0
1	C	1854	0	1877	17	0
1	D	1854	0	1877	24	0
2	A	48	0	25	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	48	0	25	2	0
2	C	48	0	25	1	0
2	D	48	0	25	3	0
3	A	19	0	14	2	0
3	B	19	0	14	1	0
3	C	19	0	14	1	0
3	D	19	0	14	2	0
4	A	306	0	0	7	1
4	B	292	0	0	14	1
4	C	264	0	0	11	1
4	D	284	0	0	12	0
All	All	8830	0	7665	87	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 6.

The worst 5 of 87 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:129:ILE:CG1	4:C:2165:HOH:O	1.77	1.26
1:C:129:ILE:HG12	4:C:2165:HOH:O	1.37	1.13
1:B:118:THR:HB	4:B:2168:HOH:O	0.74	0.92
1:B:74:GLU:HG3	4:B:2130:HOH:O	1.73	0.89
1:B:136:MET:O	1:B:140:GLN:HG2	1.74	0.87

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)
4:B:2060:HOH:O	4:C:2068:HOH:O[1_454]	1.94	0.26
4:A:2136:HOH:O	4:A:2230:HOH:O[2_555]	2.14	0.06

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	244/268 (91%)	234 (96%)	10 (4%)	0	100	100
1	B	242/268 (90%)	235 (97%)	7 (3%)	0	100	100
1	C	243/268 (91%)	232 (96%)	11 (4%)	0	100	100
1	D	243/268 (91%)	235 (97%)	8 (3%)	0	100	100
All	All	972/1072 (91%)	936 (96%)	36 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	198/214 (92%)	195 (98%)	3 (2%)	57	56
1	B	196/214 (92%)	193 (98%)	3 (2%)	57	56
1	C	197/214 (92%)	196 (100%)	1 (0%)	81	84
1	D	197/214 (92%)	194 (98%)	3 (2%)	57	56
All	All	788/856 (92%)	778 (99%)	10 (1%)	61	61

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	215	GLU
1	D	229	ARG
1	D	230	ARG
1	B	164	VAL
1	B	216	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 18 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	186	GLN
1	D	236	GLN
1	D	140	GLN
1	B	179	HIS
1	C	140	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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	D64	C	500	-	21,21,21	1.16	2 (9%)	29,30,30	1.91	7 (24%)
2	NAP	A	269	-	50,52,52	1.66	6 (12%)	71,80,80	1.69	13 (18%)
3	D64	A	500	-	21,21,21	1.23	1 (4%)	29,30,30	1.76	5 (17%)
3	D64	D	500	-	21,21,21	1.17	1 (4%)	29,30,30	1.85	6 (20%)
2	NAP	C	269	-	50,52,52	1.53	6 (12%)	71,80,80	1.70	12 (16%)
3	D64	B	500	-	21,21,21	1.12	1 (4%)	29,30,30	2.03	7 (24%)
2	NAP	D	269	-	50,52,52	1.76	6 (12%)	71,80,80	1.72	11 (15%)
2	NAP	B	269	-	50,52,52	1.58	5 (10%)	71,80,80	1.88	14 (19%)

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	D64	C	500	-	-	4/4/4/4	0/3/3/3
2	NAP	A	269	-	-	0/35/67/67	0/5/5/5
3	D64	A	500	-	-	4/4/4/4	0/3/3/3
3	D64	D	500	-	-	4/4/4/4	0/3/3/3
2	NAP	C	269	-	-	1/35/67/67	0/5/5/5
3	D64	B	500	-	-	4/4/4/4	0/3/3/3
2	NAP	D	269	-	-	0/35/67/67	0/5/5/5
2	NAP	B	269	-	-	0/35/67/67	0/5/5/5

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	269	NAP	O7N-C7N	9.38	1.41	1.24
2	A	269	NAP	O7N-C7N	8.39	1.39	1.24
2	B	269	NAP	O7N-C7N	7.83	1.38	1.24
2	C	269	NAP	O7N-C7N	7.64	1.38	1.24
3	A	500	D64	C3-C2	-3.99	1.41	1.45

The worst 5 of 75 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	269	NAP	N3A-C2A-N1A	-6.59	118.60	128.58
2	B	269	NAP	N3A-C2A-N1A	-6.54	118.69	128.58
2	C	269	NAP	N3A-C2A-N1A	-5.93	119.60	128.58
2	C	269	NAP	C2B-C1B-N9A	-5.63	104.48	113.75
2	A	269	NAP	N3A-C2A-N1A	-5.49	120.28	128.58

There are no chirality outliers.

5 of 17 torsion outliers are listed below:

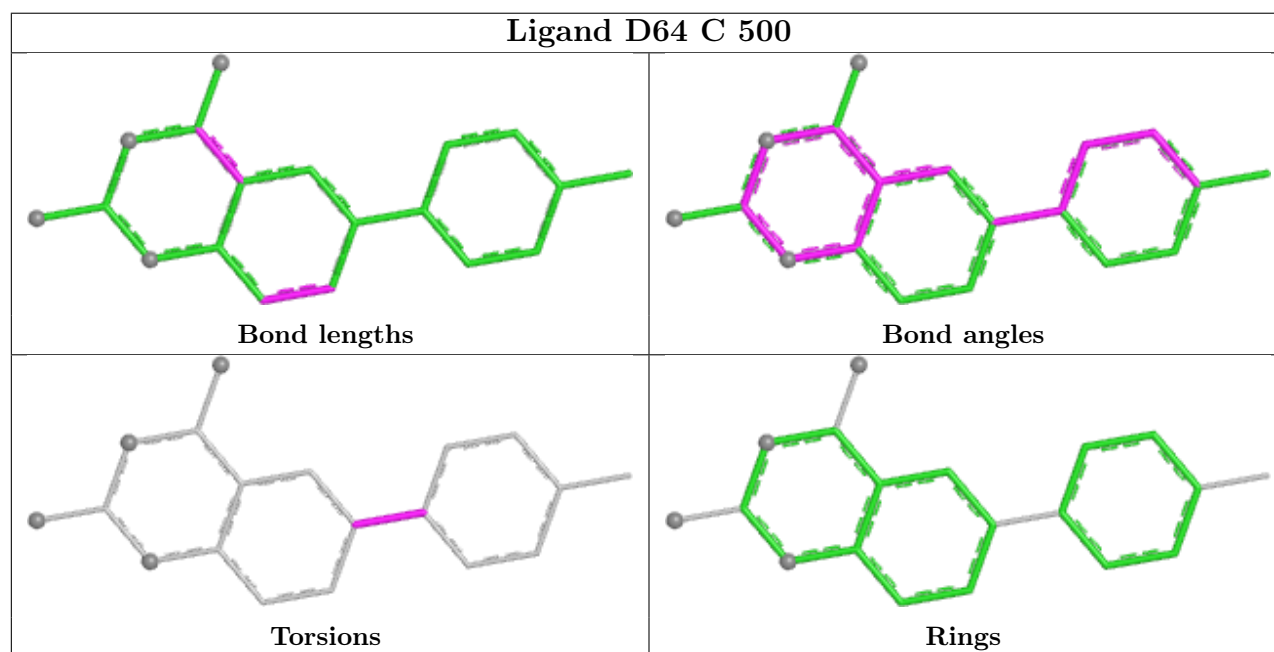
Mol	Chain	Res	Type	Atoms
2	C	269	NAP	C5B-O5B-PA-O1A
3	A	500	D64	C9-C12-CAP-C23
3	A	500	D64	C9-C12-CAP-C25
3	A	500	D64	C13-C12-CAP-C23
3	D	500	D64	C13-C12-CAP-C23

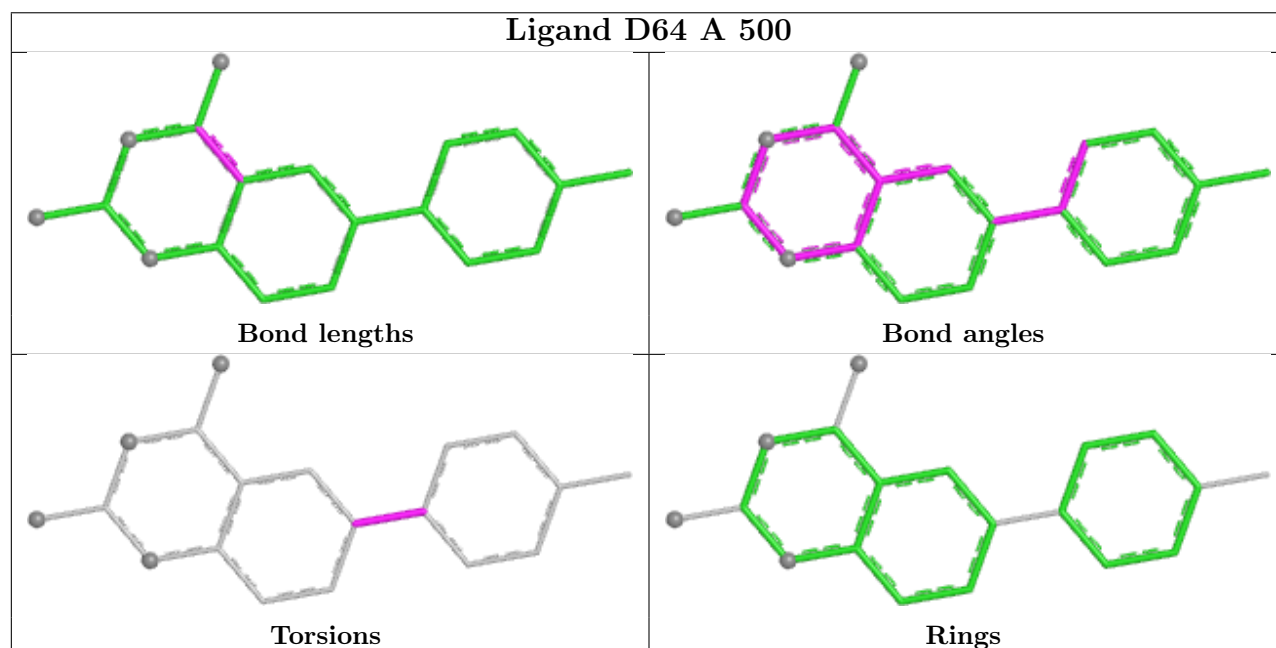
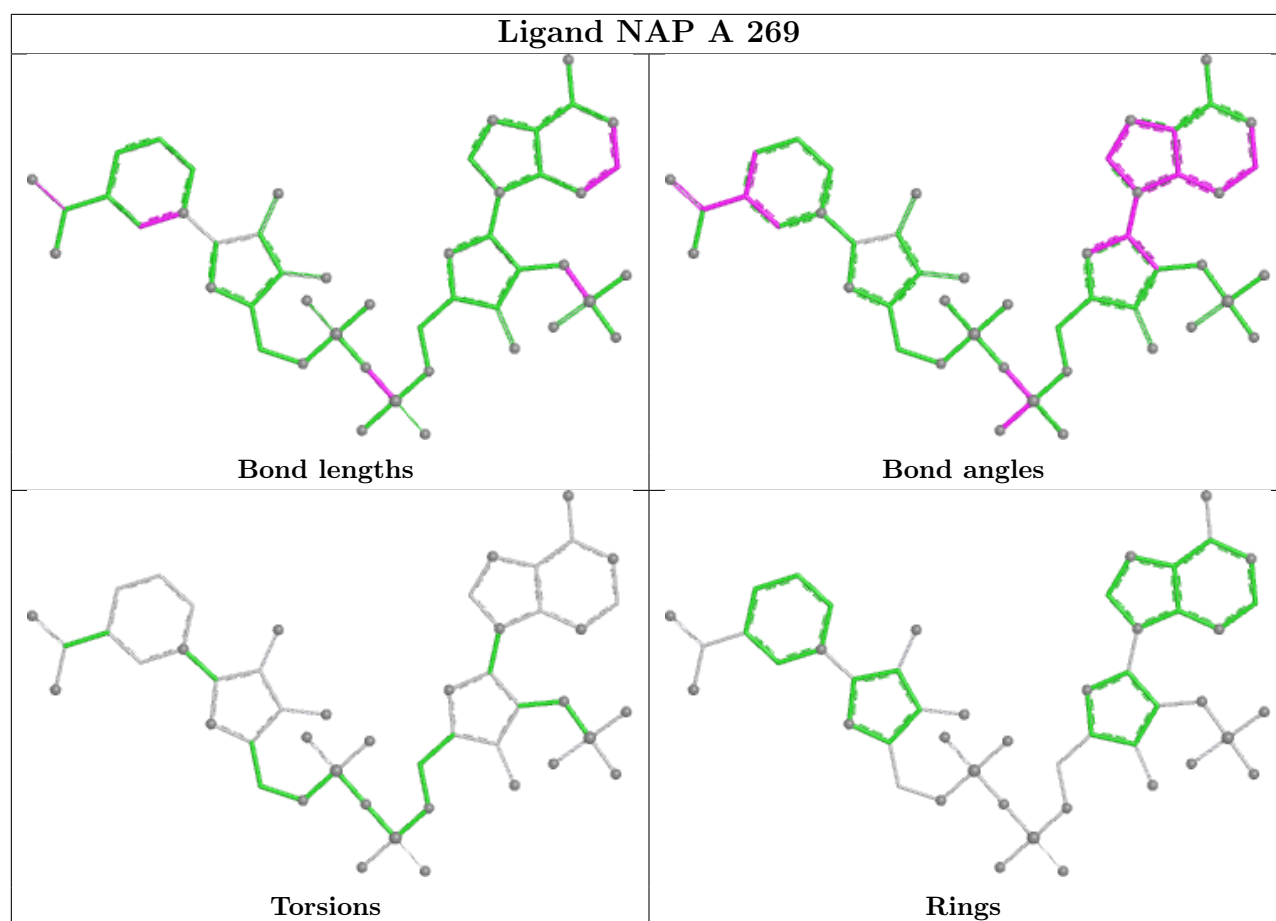
There are no ring outliers.

7 monomers are involved in 9 short contacts:

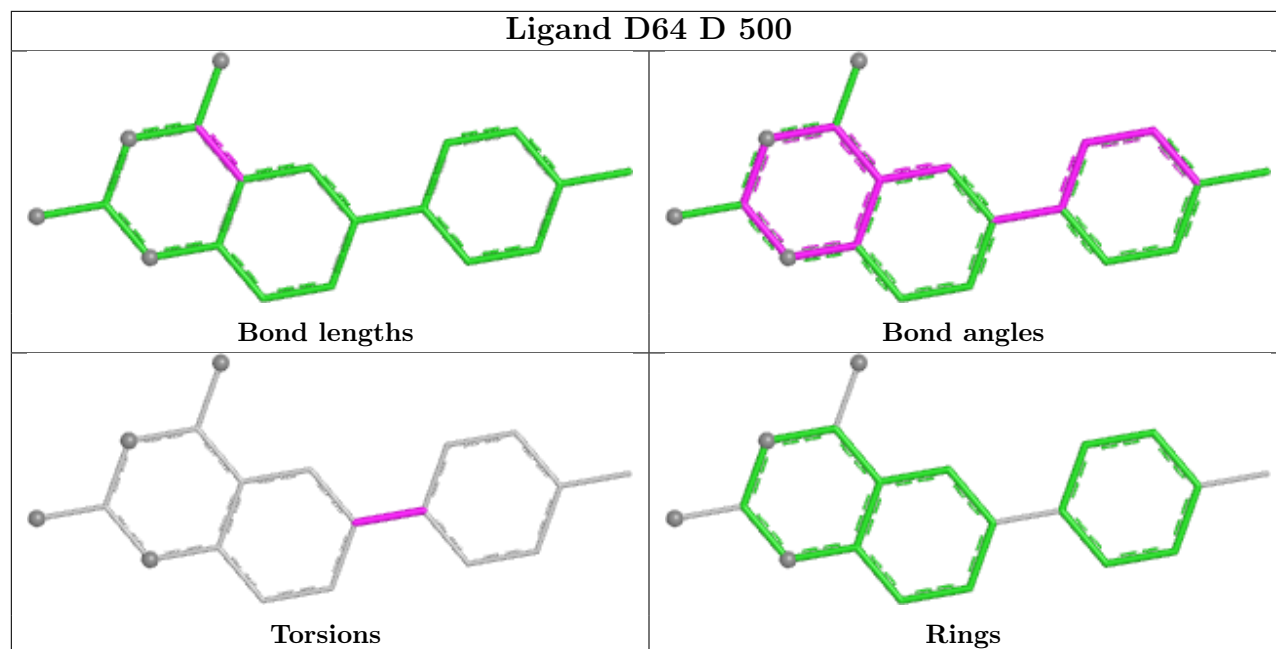
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	500	D64	1	0
3	A	500	D64	2	0
3	D	500	D64	2	0
2	C	269	NAP	1	0
3	B	500	D64	1	0
2	D	269	NAP	3	0
2	B	269	NAP	2	0

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

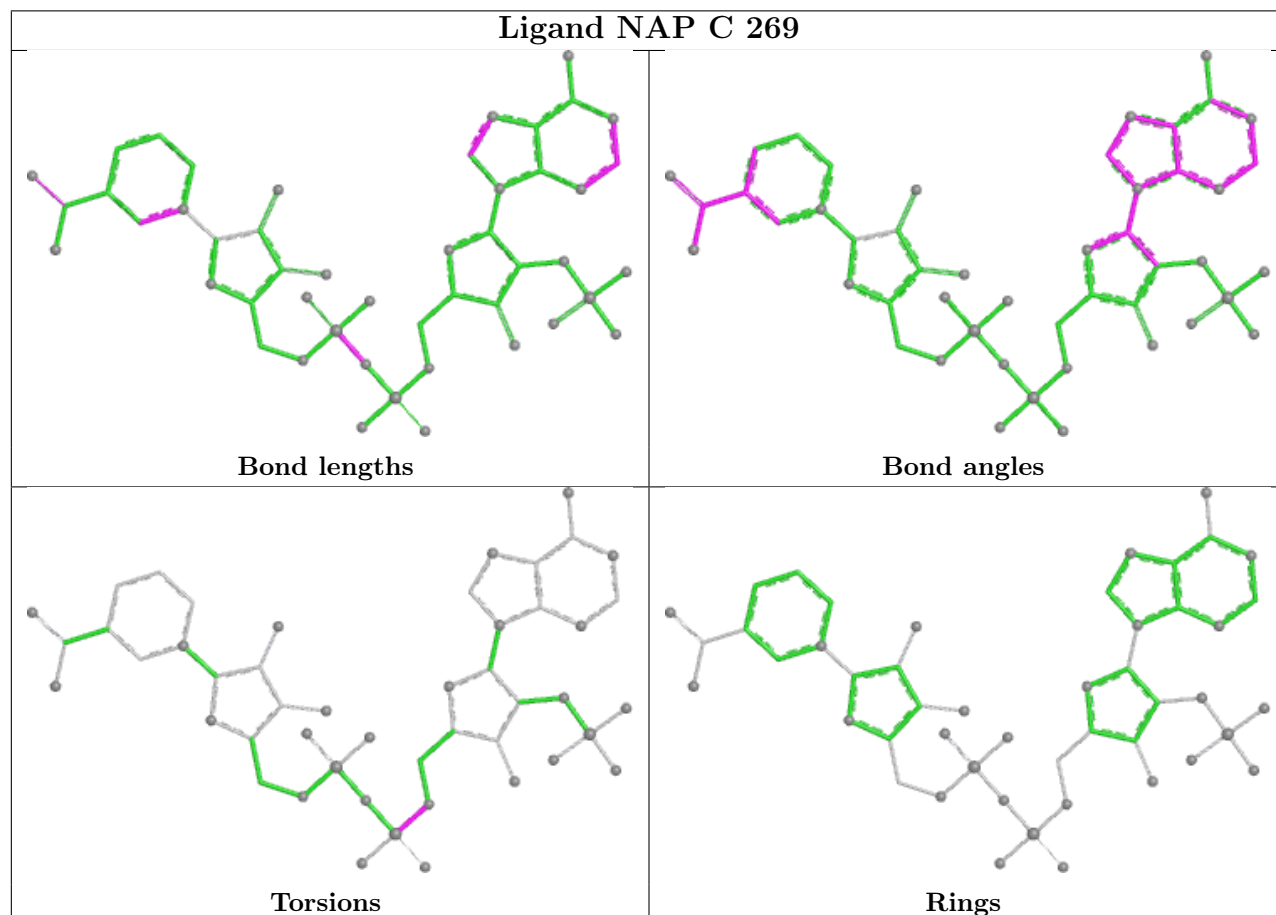




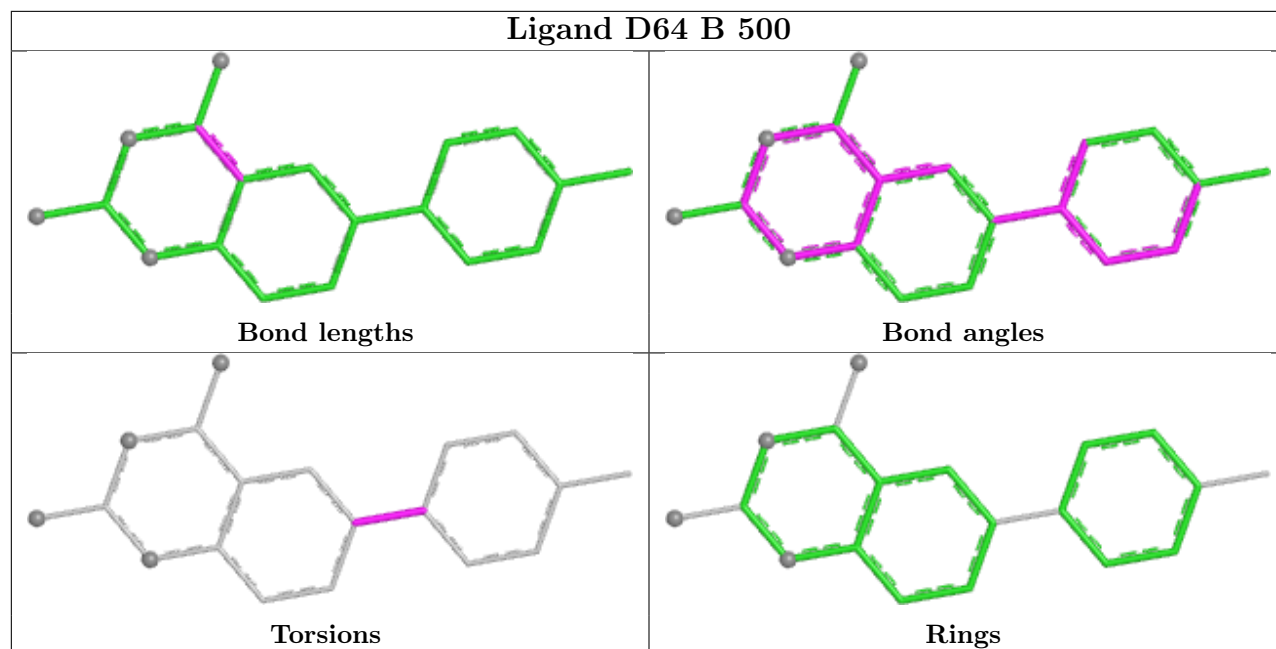
Ligand D64 D 500



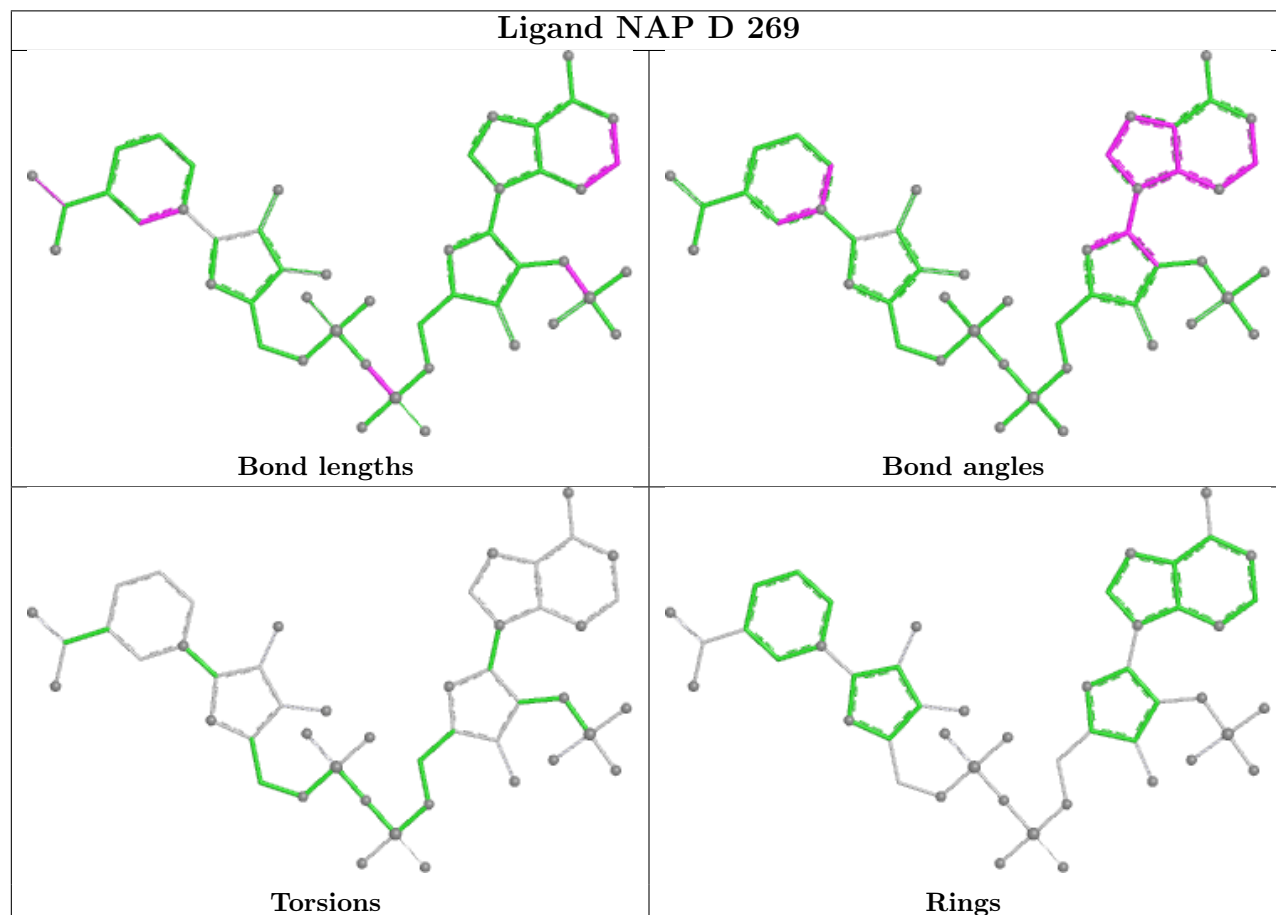
Ligand NAP C 269

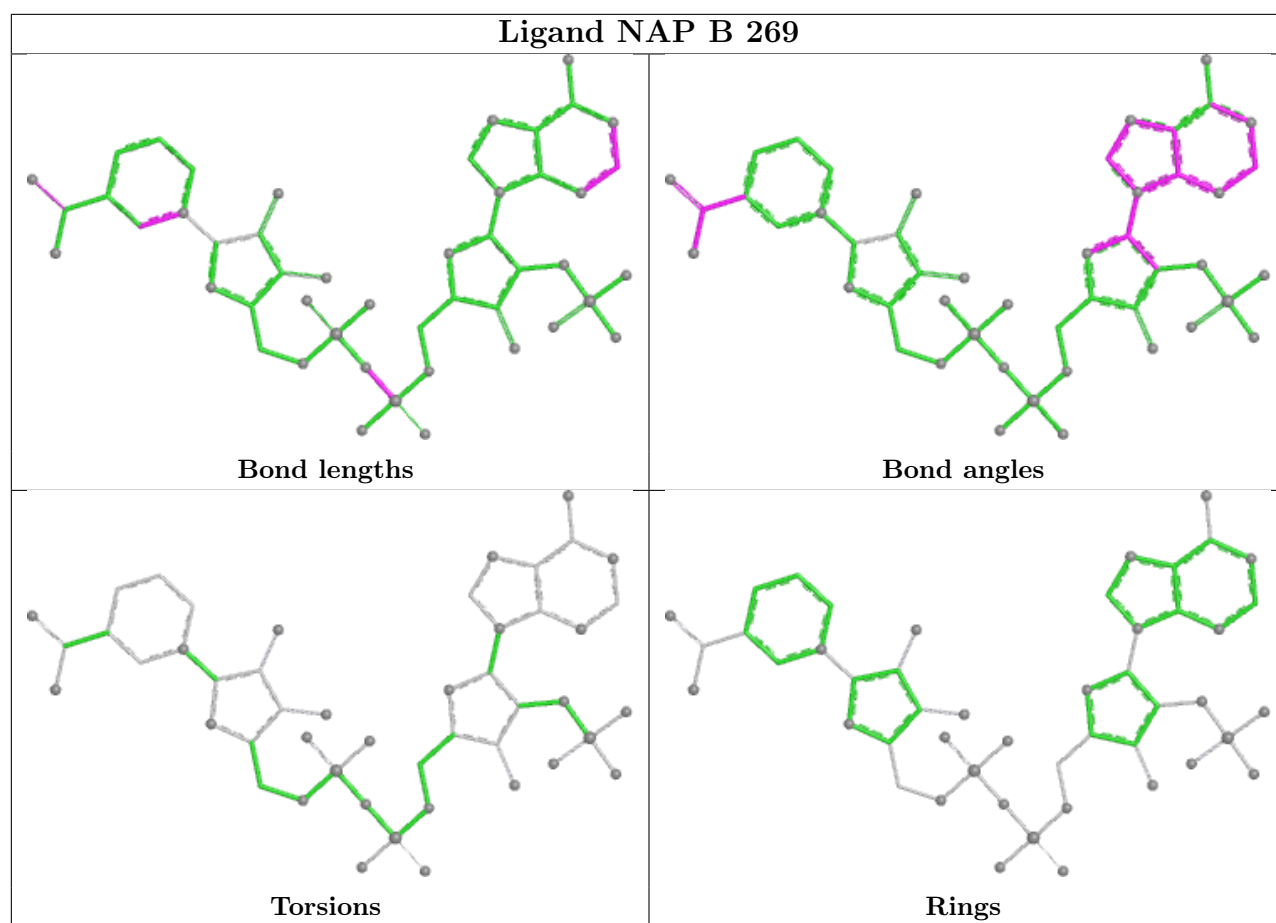


Ligand D64 B 500



Ligand NAP D 269





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	249/268 (92%)	-0.19	1 (0%) 88 90	12, 20, 27, 31	5 (2%)
1	B	248/268 (92%)	-0.18	2 (0%) 82 85	10, 20, 26, 36	1 (0%)
1	C	249/268 (92%)	-0.02	3 (1%) 76 79	16, 20, 30, 38	0
1	D	249/268 (92%)	0.09	2 (0%) 82 85	16, 20, 31, 39	1 (0%)
All	All	995/1072 (92%)	-0.07	8 (0%) 82 85	10, 20, 29, 39	7 (0%)

The worst 5 of 8 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	113	GLY	3.7
1	B	113	GLY	3.6
1	D	113	GLY	3.6
1	C	212	ALA	3.2
1	B	54	ASN	2.7

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

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

6.3 Carbohydrates [i](#)

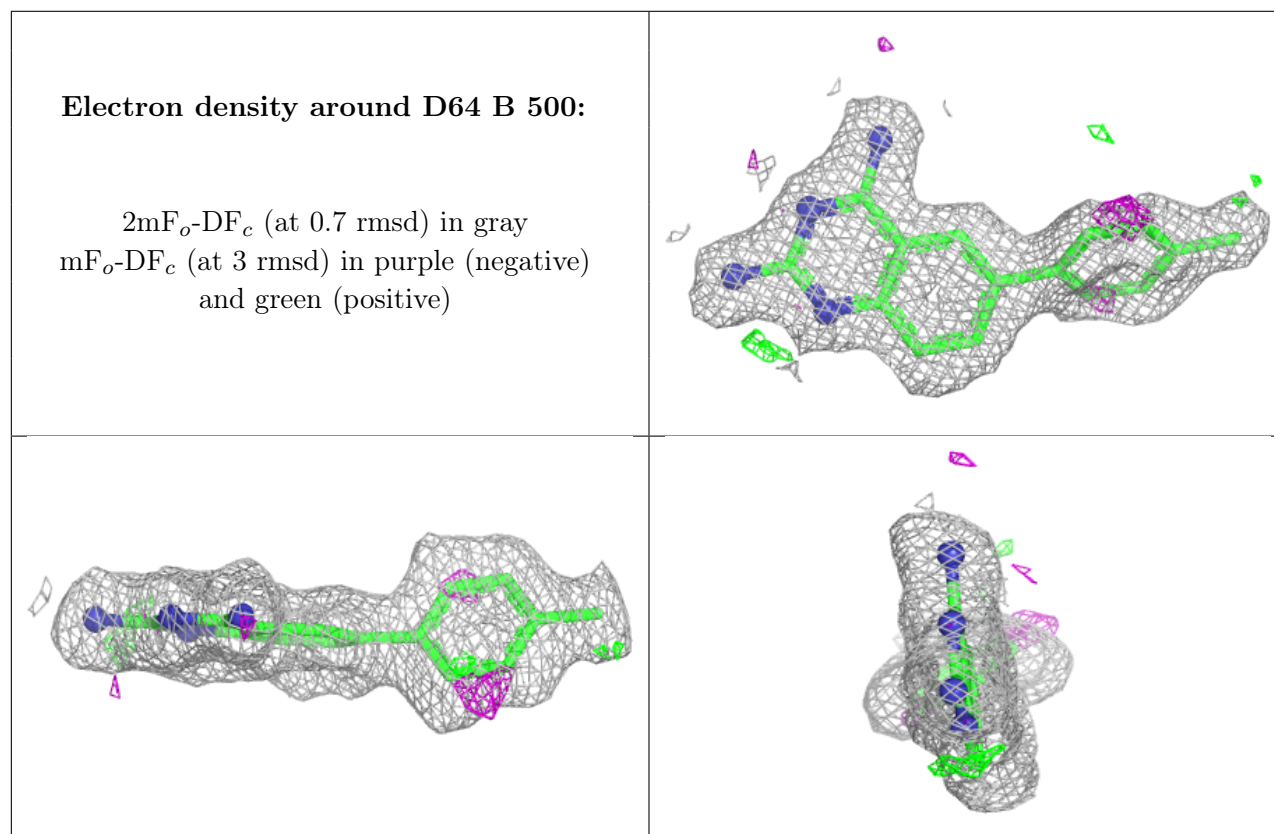
There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

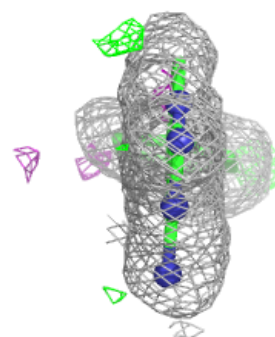
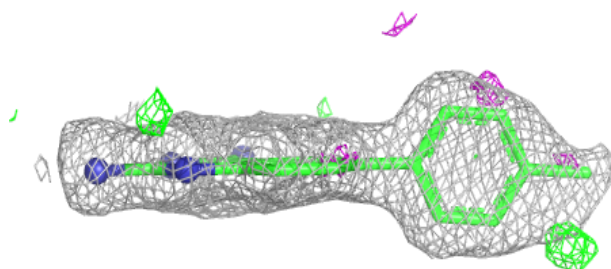
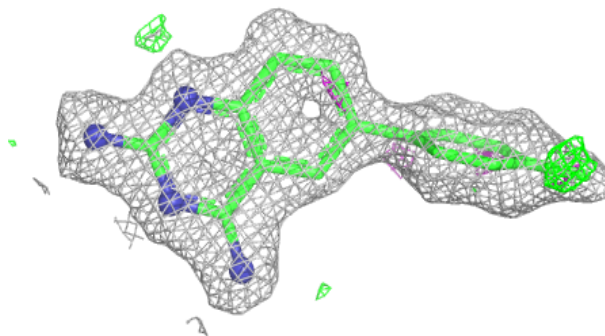
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	D64	B	500	19/19	0.94	0.07	12,14,19,19	0
3	D64	C	500	19/19	0.94	0.07	15,16,24,25	0
3	D64	D	500	19/19	0.94	0.07	16,18,23,23	0
3	D64	A	500	19/19	0.95	0.06	11,14,21,21	0
2	NAP	A	269	48/48	0.97	0.06	11,15,17,19	0
2	NAP	D	269	48/48	0.97	0.06	13,16,18,20	0
2	NAP	C	269	48/48	0.98	0.06	10,14,16,18	0
2	NAP	B	269	48/48	0.98	0.07	8,12,15,16	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.

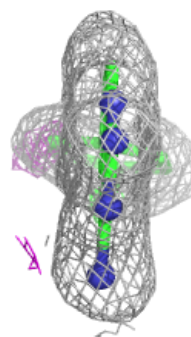
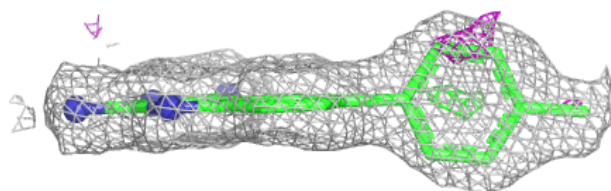
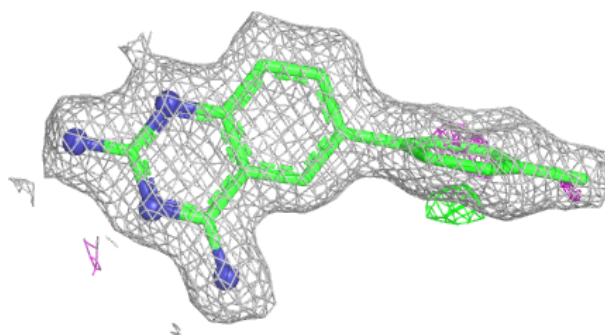


Electron density around D64 C 500:

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

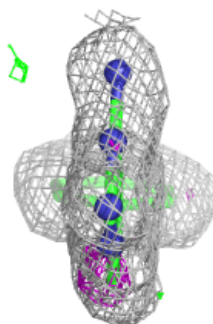
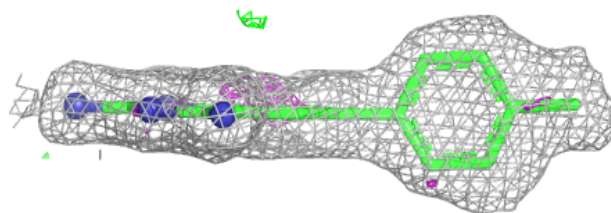
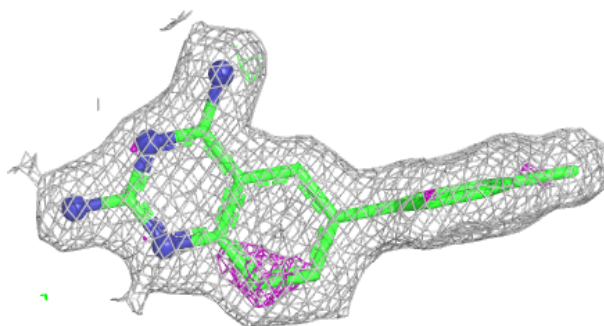
**Electron density around D64 D 500:**

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

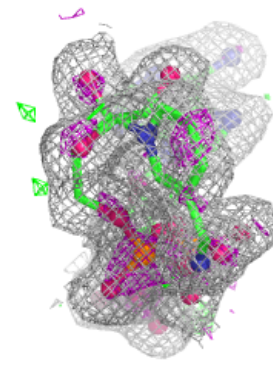
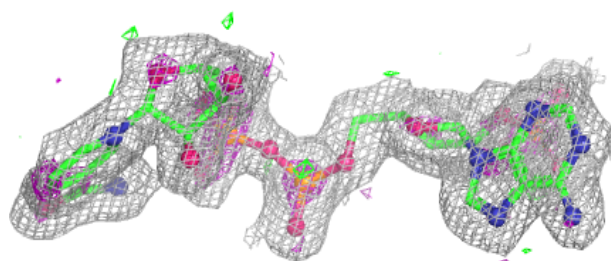
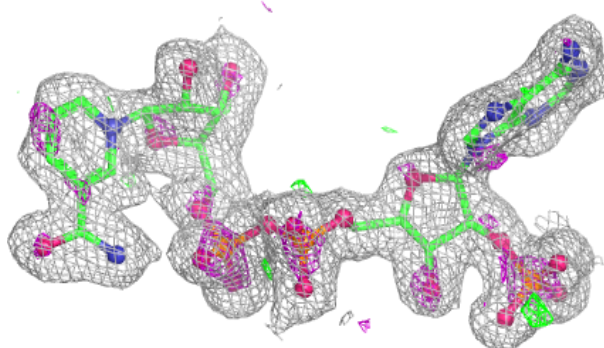


Electron density around D64 A 500:

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

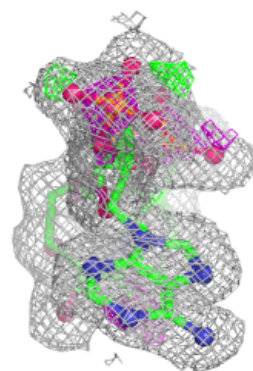
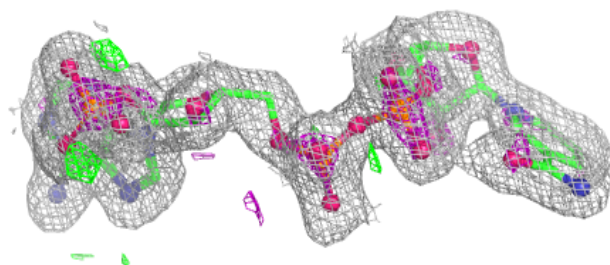
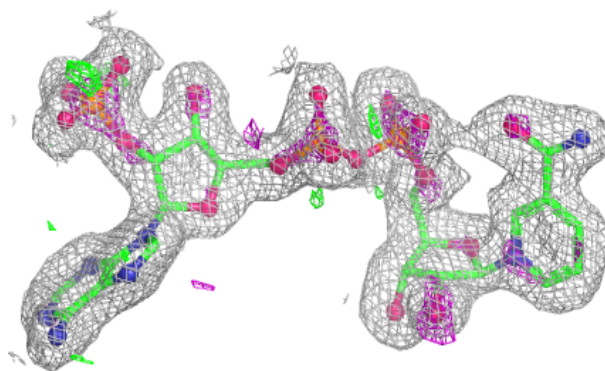
**Electron density around NAP A 269:**

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

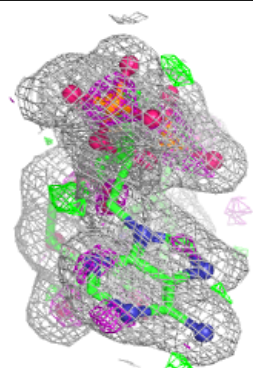
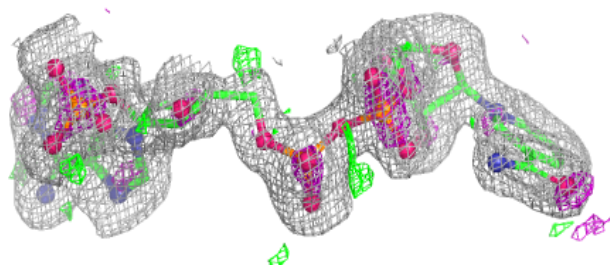
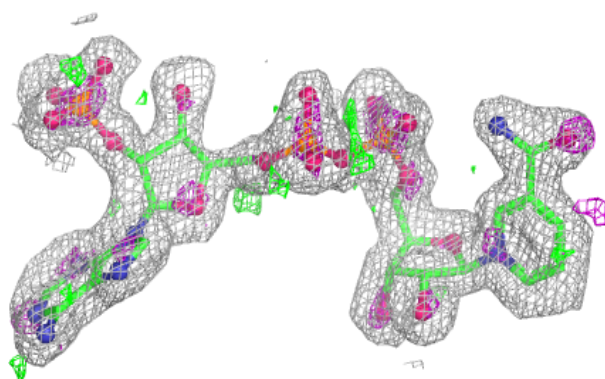


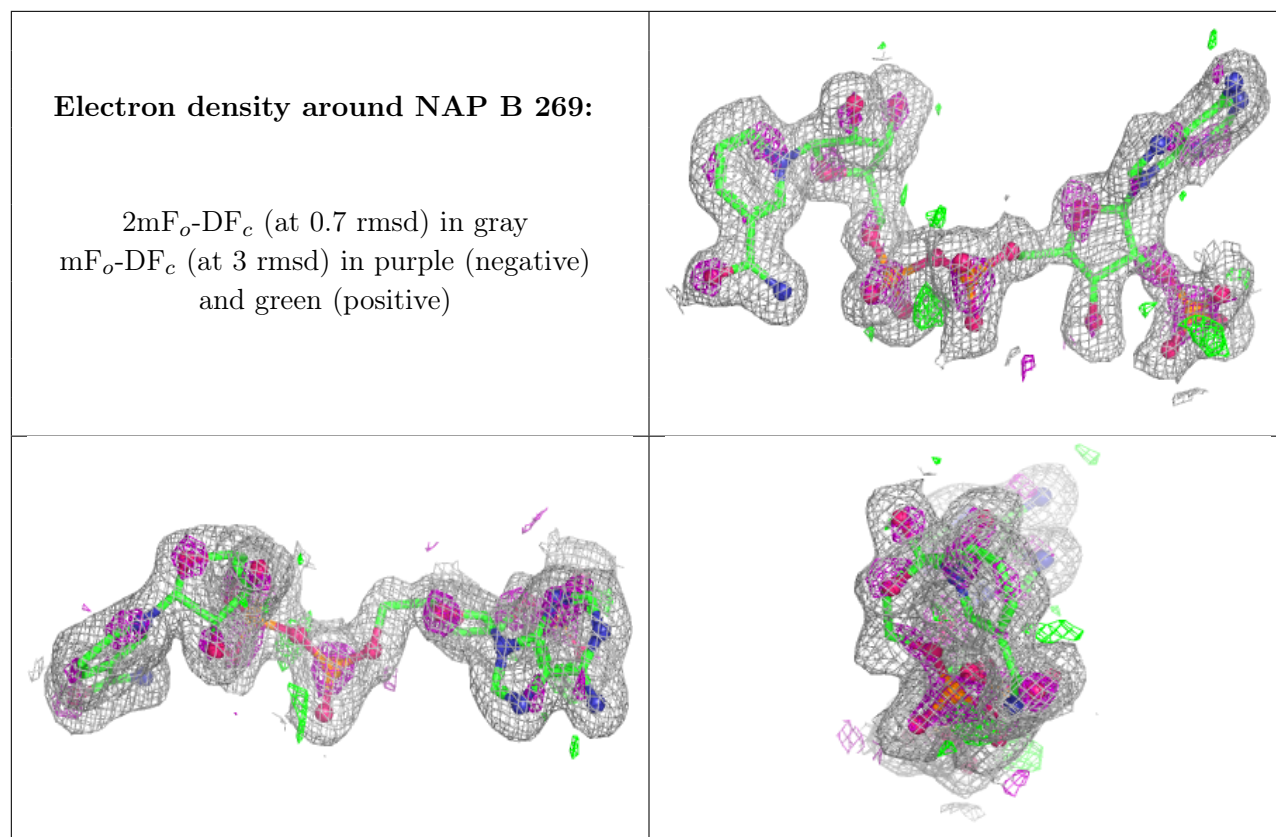
Electron density around NAP D 269:

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

**Electron density around NAP C 269:**

$2mF_o-DF_c$ (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.