



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 23, 2024 – 12:53 AM EDT

PDB ID : 6F84
Title : AKR1B1 at 2.55 MGy radiation dose.
Authors : Castellvi, A.; Juanhuix, J.
Deposited on : 2017-12-12
Resolution : 1.09 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 2.37.1
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) : 2.37.1

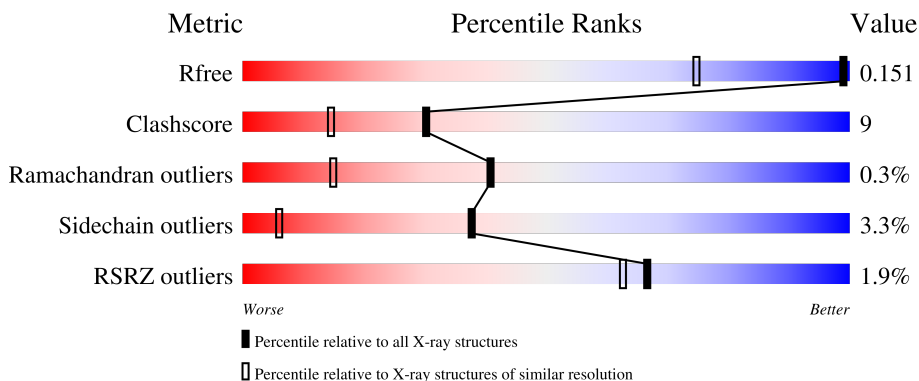
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

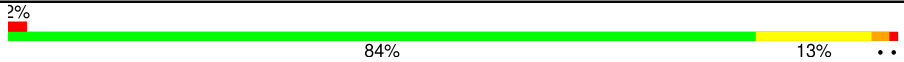
The reported resolution of this entry is 1.09 Å.

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	1619 (1.14-1.06)
Clashscore	141614	1671 (1.14-1.06)
Ramachandran outliers	138981	1615 (1.14-1.06)
Sidechain outliers	138945	1613 (1.14-1.06)
RSRZ outliers	127900	1588 (1.14-1.06)

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	316	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3036 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 Aldose reductase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	316	2635	1691	446	485	13	0	17	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	4	ILE	LEU	conflict	UNP P15121

- 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
			Total	C	N	O	P		
2	A	1	48	21	7	17	3	0	0

- Molecule 3 is CITRIC ACID (three-letter code: CIT) (formula: $C_6H_8O_7$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 13 6 7	0	0
3	A	1	Total C O 13 6 7	0	0

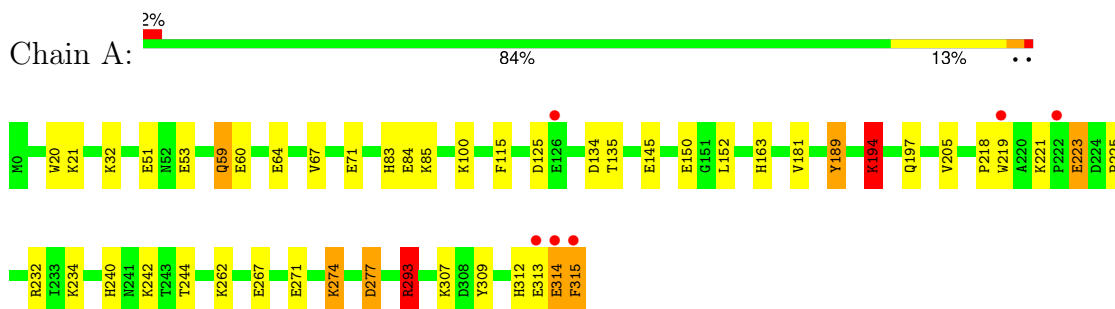
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	326	Total O 327 327	0	1

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: Aldose reductase



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	47.38Å 66.73Å 49.54Å 90.00° 92.00° 90.00°	Depositor
Resolution (Å)	10.00 – 1.09 49.51 – 1.09	Depositor EDS
% Data completeness (in resolution range)	99.3 (10.00-1.09) 99.4 (49.51-1.09)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.47 (at 1.09Å)	Xtrriage
Refinement program	SHELXL	Depositor
R, R_{free}	0.120 , 0.152 0.122 , 0.151	Depositor DCC
R_{free} test set	6275 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	8.5	Xtrriage
Anisotropy	0.080	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 55.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.009 for l,k,-h 0.028 for h,-k,-l 0.022 for l,-k,h	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	3036	wwPDB-VP
Average B, all atoms (Å ²)	16.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.75% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NAP, CIT

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	0.74	0/2698	1.16	15/3667 (0.4%)

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 (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	271	GLU	OE1-CD-OE2	9.67	134.90	123.30
1	A	312	HIS	C-N-CA	6.62	138.26	121.70
1	A	134	ASP	CB-CG-OD2	-6.13	112.78	118.30
1	A	115	PHE	CB-CG-CD2	-6.08	116.54	120.80
1	A	293	ARG	CD-NE-CZ	5.95	131.93	123.60
1	A	194	LYS	CB-CG-CD	5.66	126.31	111.60
1	A	315	PHE	CA-C-O	-5.64	108.26	120.10
1	A	232	ARG	NE-CZ-NH1	-5.46	117.57	120.30
1	A	189	TYR	CB-CG-CD2	-5.39	117.76	121.00
1	A	64	GLU	OE1-CD-OE2	-5.31	116.93	123.30
1	A	277	ASP	CB-CG-OD2	-5.29	113.54	118.30
1	A	309	TYR	CB-CG-CD2	5.12	124.07	121.00
1	A	242	LYS	CD-CE-NZ	5.05	123.33	111.70
1	A	115	PHE	CB-CG-CD1	5.05	124.33	120.80
1	A	125	ASP	CB-CG-OD2	5.01	122.81	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	293	ARG	Sidechain

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	2635	0	2620	47	2
2	A	48	0	25	1	0
3	A	26	0	10	4	0
4	A	327	0	0	9	2
All	All	3036	0	2655	50	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 9.

All (50) 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:83[B]:HIS:O	1:A:135[B]:THR:HG21	1.21	1.27
1:A:194:LYS:HG3	1:A:315:PHE:CE2	1.86	1.08
1:A:83[B]:HIS:O	1:A:135[B]:THR:CG2	2.05	1.04
1:A:194:LYS:HA	1:A:194:LYS:HE2	1.39	1.00
1:A:313:GLU:HG3	1:A:315:PHE:OXT	1.67	0.94
1:A:194:LYS:HG2	1:A:315:PHE:CE1	2.02	0.94
1:A:194:LYS:CG	1:A:315:PHE:CZ	2.51	0.94
1:A:194:LYS:HE2	1:A:194:LYS:CA	2.06	0.83
1:A:313:GLU:O	4:A:1101:HOH:O	1.99	0.80
1:A:194:LYS:CG	1:A:315:PHE:CE2	2.67	0.78
1:A:194:LYS:HG3	1:A:315:PHE:CZ	2.16	0.77
1:A:274:LYS:HZ2	1:A:274:LYS:HB3	1.47	0.76
1:A:194:LYS:HG2	1:A:315:PHE:CZ	2.19	0.76
3:A:1002:CIT:O3	3:A:1002:CIT:O7	2.00	0.73
1:A:51:GLU:HG3	4:A:1238[B]:HOH:O	1.89	0.72
1:A:274:LYS:HB3	1:A:274:LYS:NZ	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LYS:HG3	1:A:315:PHE:CD2	2.27	0.69
1:A:197[A]:GLN:NE2	4:A:1105:HOH:O	2.25	0.68
3:A:1003:CIT:O2	3:A:1003:CIT:O7	2.15	0.64
1:A:145:GLU:OE1	4:A:1102:HOH:O	2.16	0.63
3:A:1003:CIT:C6	3:A:1003:CIT:O4	2.47	0.62
1:A:20:TRP:CE3	1:A:21:LYS:HE3	2.38	0.58
1:A:194:LYS:CD	1:A:315:PHE:CZ	2.87	0.58
1:A:307:LYS:HD3	4:A:1108:HOH:O	2.04	0.58
1:A:194:LYS:HD3	1:A:315:PHE:CZ	2.40	0.56
1:A:293:ARG:HD2	4:A:1319:HOH:O	2.04	0.56
1:A:53:GLU:OE1	3:A:1003:CIT:O3	2.24	0.55
1:A:189:TYR:CE2	1:A:225:PRO:HB2	2.41	0.55
1:A:194:LYS:HG2	1:A:315:PHE:CD1	2.42	0.54
1:A:234:LYS:HA	1:A:244[B]:THR:HG22	1.92	0.52
1:A:277:ASP:OD1	1:A:277:ASP:N	2.42	0.50
1:A:314:GLU:O	1:A:315:PHE:HB3	2.11	0.50
1:A:218:PRO:HG2	1:A:219:TRP:CE3	2.47	0.49
1:A:59:GLN:HA	1:A:59:GLN:HE21	1.77	0.49
1:A:218:PRO:HG2	1:A:219:TRP:CZ3	2.49	0.47
1:A:262:LYS:O	2:A:1001:NAP:H8A	2.14	0.47
1:A:181:VAL:HA	1:A:205:VAL:O	2.15	0.47
1:A:150:GLU:HB2	1:A:152:LEU:HD13	1.98	0.46
1:A:152:LEU:HD12	1:A:152:LEU:N	2.31	0.46
1:A:234:LYS:HG2	1:A:244[B]:THR:HG21	1.99	0.45
1:A:293:ARG:CD	4:A:1319:HOH:O	2.63	0.45
1:A:240:HIS:O	4:A:1103:HOH:O	2.21	0.45
1:A:32:LYS:HE2	1:A:60[B]:GLU:CD	2.38	0.44
1:A:274:LYS:NZ	1:A:274:LYS:CB	2.74	0.42
1:A:60[A]:GLU:HG2	4:A:1254:HOH:O	2.19	0.42
1:A:225:PRO:HB3	1:A:293:ARG:HH21	1.85	0.41
1:A:67[B]:VAL:HG12	1:A:71:GLU:HB2	2.03	0.41
1:A:84:GLU:CD	1:A:135[B]:THR:CG2	2.89	0.41
1:A:197[A]:GLN:NE2	1:A:197[A]:GLN:HA	2.36	0.40
1:A:221:LYS:CB	1:A:223:GLU:OE2	2.69	0.40

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)
1:A:194:LYS:CE	4:A:1111:HOH:O[2_645]	1.85	0.35
1:A:194:LYS:CD	4:A:1111:HOH:O[2_645]	2.03	0.17

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	331/316 (105%)	325 (98%)	5 (2%)	1 (0%)	41 15

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	314	GLU

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	291/281 (104%)	282 (97%)	9 (3%)	40 7

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	59	GLN
1	A	85	LYS
1	A	100	LYS
1	A	163	HIS
1	A	194	LYS
1	A	223	GLU
1	A	267	GLU
1	A	274	LYS
1	A	293	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	GLN
1	A	65	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

3 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	CIT	A	1003	-	12,12,12	1.65	4 (33%)	17,17,17	2.48	4 (23%)
2	NAP	A	1001	-	46,52,52	1.05	2 (4%)	61,80,80	1.12	5 (8%)
3	CIT	A	1002	-	12,12,12	1.21	2 (16%)	17,17,17	2.10	4 (23%)

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	CIT	A	1003	-	-	7/16/16/16	-
2	NAP	A	1001	-	-	4/31/67/67	0/5/5/5
3	CIT	A	1002	-	-	8/16/16/16	-

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1003	CIT	O5-C6	3.33	1.32	1.22
3	A	1002	CIT	O5-C6	3.05	1.31	1.22
3	A	1003	CIT	O1-C1	2.65	1.30	1.22
3	A	1003	CIT	O6-C6	-2.58	1.21	1.30
3	A	1002	CIT	O6-C6	-2.56	1.21	1.30
3	A	1003	CIT	O2-C1	-2.46	1.22	1.30
2	A	1001	NAP	PA-O3	2.43	1.62	1.59
2	A	1001	NAP	O4D-C1D	2.12	1.43	1.40

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1003	CIT	O6-C6-C3	6.73	126.06	113.14
3	A	1002	CIT	O5-C6-C3	-4.88	112.64	122.09
3	A	1002	CIT	O6-C6-C3	4.85	122.45	113.14
3	A	1003	CIT	O5-C6-C3	-4.84	112.72	122.09
3	A	1003	CIT	O1-C1-C2	-3.65	112.62	122.95
3	A	1002	CIT	C3-C4-C5	-3.37	104.71	113.92
3	A	1003	CIT	O2-C1-C2	2.51	122.28	114.35
2	A	1001	NAP	O4D-C4D-C3D	-2.21	100.77	105.15
2	A	1001	NAP	C4D-O4D-C1D	2.16	111.90	109.92
2	A	1001	NAP	C6N-C5N-C4N	-2.15	116.35	119.45
3	A	1002	CIT	O4-C5-O3	2.09	128.71	123.33
2	A	1001	NAP	O2A-PA-O1A	2.03	121.89	112.44
2	A	1001	NAP	C2N-C3N-C4N	2.01	120.59	118.26

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1002	CIT	C2-C3-C6-O5
3	A	1002	CIT	C2-C3-C6-O6
3	A	1002	CIT	O7-C3-C6-O5
3	A	1002	CIT	O7-C3-C6-O6

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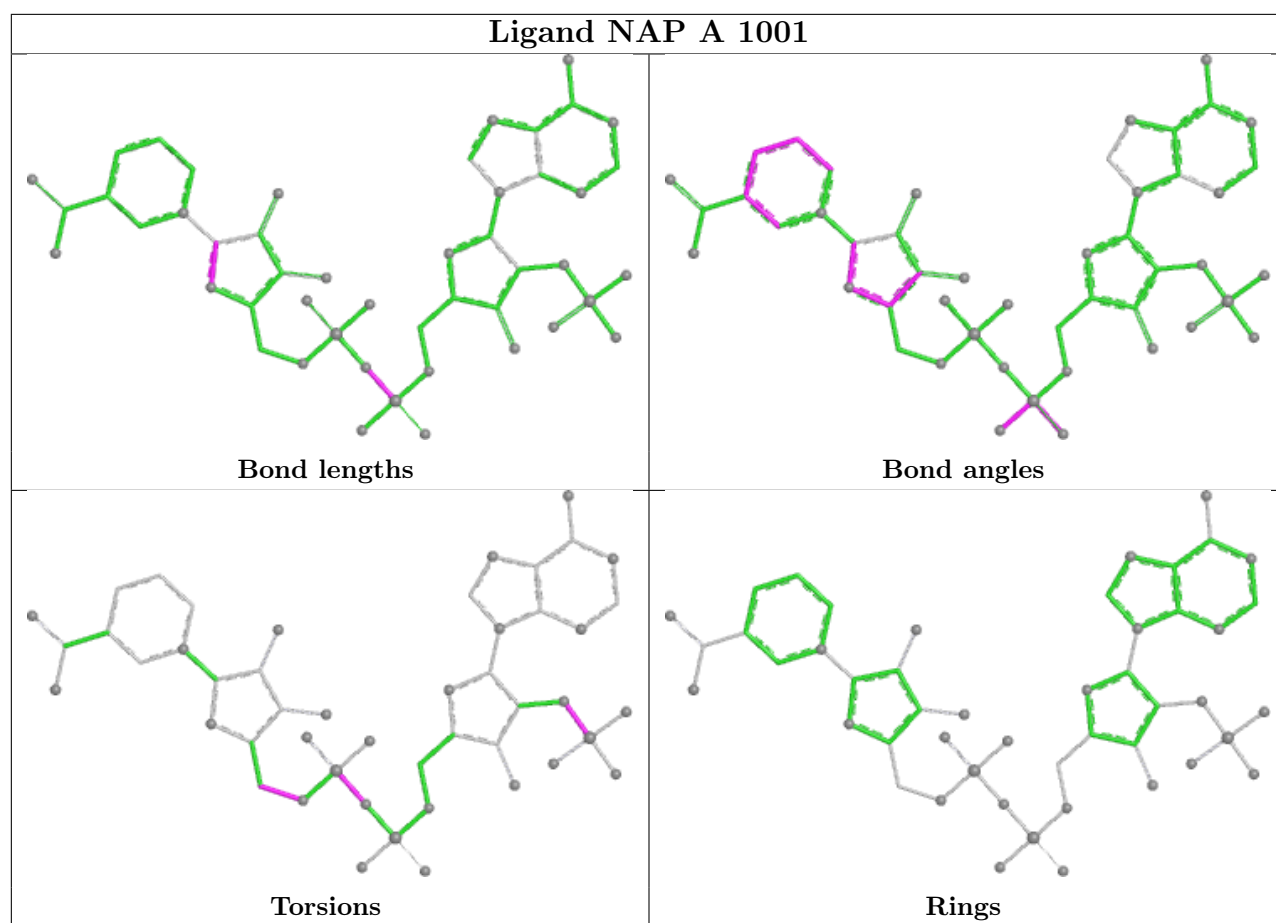
Mol	Chain	Res	Type	Atoms
3	A	1003	CIT	C1-C2-C3-O7
3	A	1003	CIT	C1-C2-C3-C6
3	A	1003	CIT	C1-C2-C3-C4
3	A	1002	CIT	O7-C3-C4-C5
2	A	1001	NAP	PA-O3-PN-O5D
3	A	1002	CIT	C2-C3-C4-C5
3	A	1003	CIT	O2-C1-C2-C3
3	A	1002	CIT	C6-C3-C4-C5
3	A	1002	CIT	C1-C2-C3-O7
2	A	1001	NAP	C4D-C5D-O5D-PN
3	A	1003	CIT	C2-C3-C6-O5
3	A	1003	CIT	C4-C3-C6-O5
3	A	1003	CIT	O1-C1-C2-C3
2	A	1001	NAP	C2B-O2B-P2B-O1X
2	A	1001	NAP	PA-O3-PN-O2N

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1003	CIT	3	0
2	A	1001	NAP	1	0
3	A	1002	CIT	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	316/316 (100%)	-0.35	6 (1%) 66 62	6, 11, 33, 64	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	315	PHE	5.6
1	A	313	GLU	4.6
1	A	222	PRO	4.2
1	A	219	TRP	3.0
1	A	314	GLU	2.7
1	A	126	GLU	2.2

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.

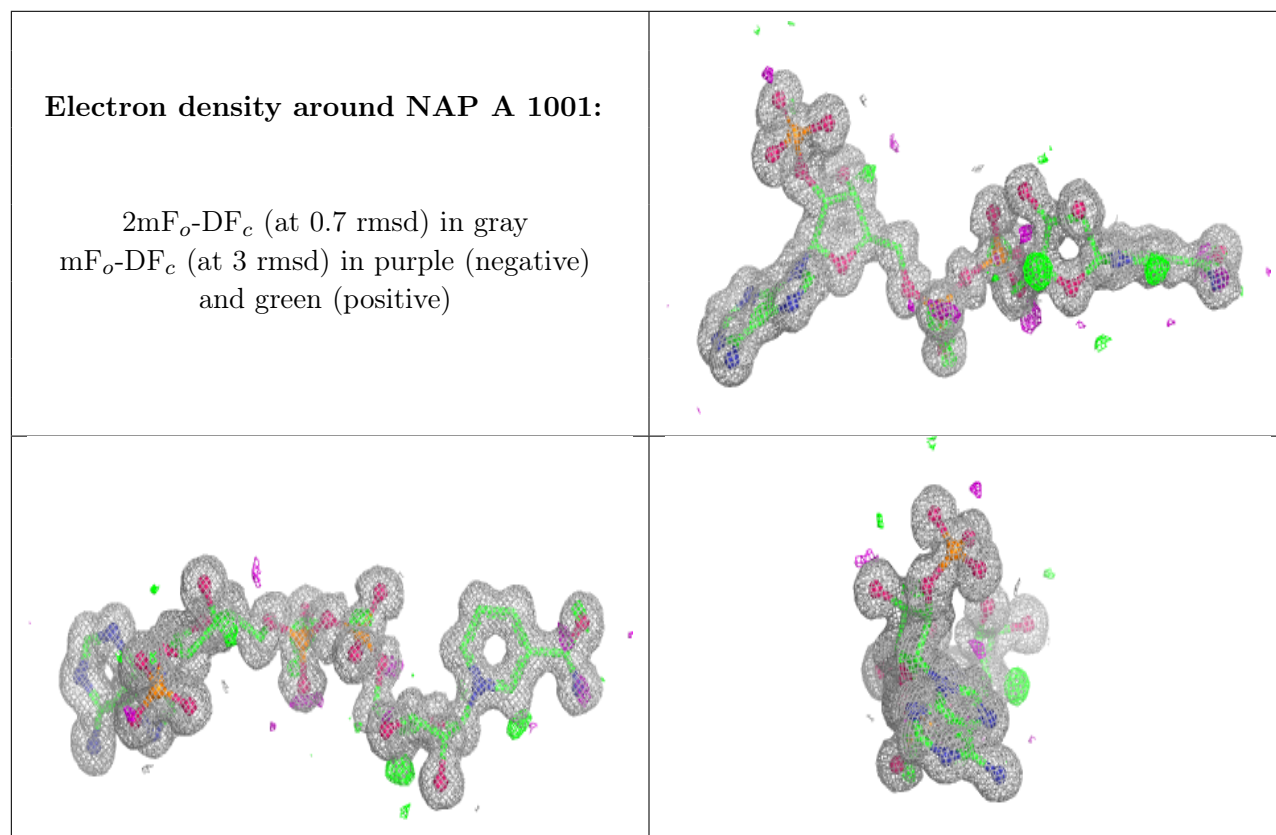
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	CIT	A	1003	13/13	0.88	0.36	19,53,80,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	CIT	A	1002	13/13	0.92	0.20	18,48,64,75	0
2	NAP	A	1001	48/48	0.99	0.05	5,7,10,13	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.