

Full wwPDB X-ray Structure Validation Report (i)

Jun 17, 2024 – 01:35 AM EDT

PDB ID	:	5HNT
Title	:	Crystal Structure of AKR1C3 complexed with CAPE
Authors	:	Li, C.; Zhao, Y.; Zhang, H.; Hu, X.
Deposited on		
Resolution	:	2.00 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 (1)) were used in the production of this report:

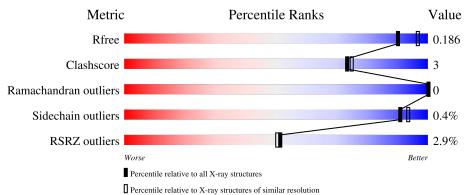
Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4 Ideal geometry (proteins) Ideal geometry (DNA, RNA)	: : : : :	20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.37.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 2.00 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	А	315	^{2%} 92%	8%					
1	С	315	3% 90%	6% •					



$5 \mathrm{HNT}$

2 Entry composition (i)

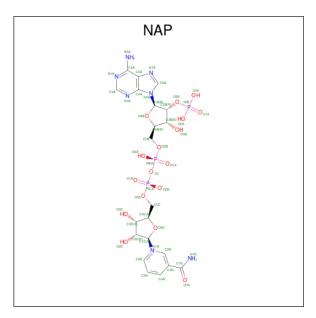
There are 4 unique types of molecules in this entry. The entry contains 5552 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Aldo-keto reductase family 1 member C3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	315	Total	С	Ν	0	\mathbf{S}	0	0	0
		515	2524	1609	440	463	12	0		0
1	C	303	Total	С	Ν	0	S	0	0	0
		505	2436	1558	426	440	12	0		0

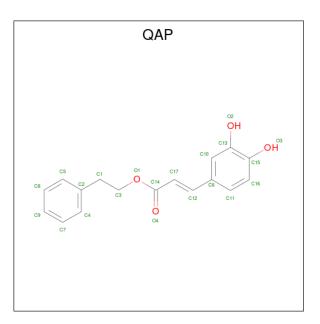
• Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C₂₁H₂₈N₇O₁₇P₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
0	2 A	1	Total	С	Ν	Ο	Р	0	0
		1	48	21	7	17	3	0	
0	С	1	Total	С	Ν	Ο	Р	0	0
	2 C	1	48	21	7	17	3	U	

• Molecule 3 is 2-phenylethyl (2E)-3-(3,4-dihydroxyphenyl) prop-2-enoate (three-letter code: QAP) (formula: $C_{17}H_{16}O_4$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C O 21 17 4	0	0
3	С	1	Total C O 21 17 4	0	0

• Molecule 4 is water.

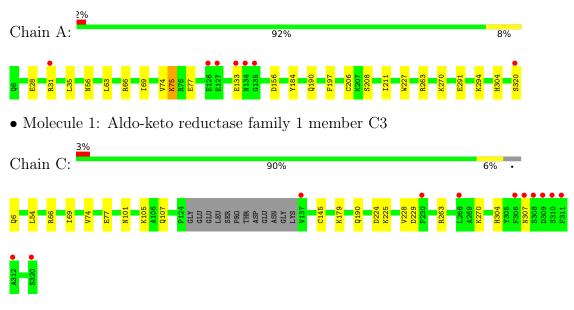
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	221	Total O 221 221	0	0
4	С	233	Total O 233 233	0	0



3 Residue-property plots (i)

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

• Molecule 1: Aldo-keto reductase family 1 member C3





4 Data and refinement statistics (i)

Property	Value	Source	
Space group	P 1 21 1	Depositor	
Cell constants	48.76Å 82.16Å 76.07Å	Depositor	
a, b, c, α , β , γ	90.00° 102.08° 90.00°	Depositor	
Resolution (Å)	74.39 - 2.00	Depositor	
Resolution (A)	25.65 - 2.00	EDS	
% Data completeness	99.8 (74.39-2.00)	Depositor	
(in resolution range)	99.9 (25.65 - 2.00)	EDS	
R _{merge}	(Not available)	Depositor	
R _{sym}	0.19	Depositor	
$< I/\sigma(I) > 1$	$2.14 (at 1.99 \text{\AA})$	Xtriage	
Refinement program	REFMAC 5.8.0073	Depositor	
D D.	0.182 , 0.228	Depositor	
R, R_{free}	0.192 , 0.186	DCC	
R_{free} test set	1911 reflections (4.82%)	wwPDB-VP	
Wilson B-factor $(Å^2)$	15.7	Xtriage	
Anisotropy	0.580	Xtriage	
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39, 53.7	EDS	
L-test for twinning ²	$ < L >=0.48, < L^2>=0.31$	Xtriage	
Estimated twinning fraction	No twinning to report.	Xtriage	
F_o, F_c correlation	0.94	EDS	
Total number of atoms	5552	wwPDB-VP	
Average B, all atoms $(Å^2)$	19.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.36% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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, QAP

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 Chair		Bond	lengths	Bond angles		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.75	0/2582	0.79	2/3494~(0.1%)	
1	С	0.75	0/2492	0.79	1/3371~(0.0%)	
All	All	0.75	0/5074	0.79	3/6865~(0.0%)	

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
1	А	263	ARG	NE-CZ-NH2	7.73	124.17	120.30
1	С	263	ARG	NE-CZ-NH2	6.53	123.56	120.30
1	А	263	ARG	NE-CZ-NH1	-5.62	117.49	120.30

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	А	2524	0	2531	18	2
1	С	2436	0	2453	12	1
2	А	48	0	25	3	0
2	С	48	0	25	3	0
3	А	21	0	15	3	0
3	С	21	0	16	1	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	А	221	0	0	4	0
4	С	233	0	0	1	0
All	All	5552	0	5065	33	2

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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 (33) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:C:229:ASP:OD1	1:C:307:ASN:ND2	2.09	0.85
1:A:75:LYS:HZ2	1:A:77:GLU:HG2	1.68	0.58
1:C:66:ARG:NE	1:C:107:GLN:HB2	2.20	0.57
1:C:6:GLN:N	4:C:503:HOH:O	2.37	0.57
1:C:270:LYS:O	2:C:401:NAP:H8A	2.07	0.55
1:A:291:GLU:OE1	1:A:294:LYS:HE2	2.08	0.53
1:A:31:ARG:CZ	1:A:56:ASN:HD21	2.23	0.52
1:C:190:GLN:OE1	2:C:401:NAP:H2N	2.10	0.51
1:A:35:LEU:HD13	1:A:63:LEU:HB3	1.92	0.51
1:A:75:LYS:NZ	4:A:501:HOH:O	2.29	0.50
2:A:401:NAP:O1N	2:A:401:NAP:H3D	2.11	0.50
1:A:156:ASP:OD1	1:A:184:TYR:OH	2.22	0.50
1:A:227:TRP:CZ3	3:A:402:QAP:H1A	2.50	0.47
1:A:197:PHE:CE2	1:A:304:HIS:HB3	2.51	0.45
1:C:69:ILE:HA	1:C:74:VAL:O	2.16	0.45
1:A:66:ARG:NH1	4:A:514:HOH:O	2.50	0.45
1:A:69:ILE:HA	1:A:74:VAL:O	2.17	0.44
1:A:227:TRP:CE3	3:A:402:QAP:H1A	2.52	0.44
1:A:190:GLN:OE1	2:A:401:NAP:H2N	2.17	0.44
1:A:75:LYS:CE	4:A:501:HOH:O	2.66	0.44
2:C:401:NAP:H3D	2:C:401:NAP:O1N	2.18	0.44
1:C:145:CYS:HB3	1:C:179:LYS:HD2	2.01	0.43
1:A:270:LYS:O	2:A:401:NAP:H8A	2.18	0.43
3:A:402:QAP:H4	3:A:402:QAP:H3A	1.74	0.43
1:C:304:HIS:CD2	1:C:304:HIS:N	2.87	0.42
1:A:28:GLU:H	1:A:28:GLU:CD	2.23	0.42
1:C:224:ASP:O	1:C:228:VAL:HG12	2.19	0.41
1:A:206:CYS:HB3	1:A:211:ILE:O	2.20	0.41
1:C:77:GLU:CD	1:C:77:GLU:H	2.23	0.41
1:C:54:LEU:HD11	3:C:402:QAP:H5	2.03	0.41
1:A:75:LYS:HE2	4:A:501:HOH:O	2.21	0.41



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:101:ASN:OD1	1:C:105:LYS:HE2	2.20	0.40
1:A:31:ARG:NH2	1:A:56:ASN:HD21	2.19	0.40

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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:31:ARG:NH2	1:A:208:SER:O[2_555]	2.08	0.12
1:A:320:SER:O	1:C:225:LYS:NZ[2_546]	2.09	0.11

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	Perce	entiles
1	А	313/315~(99%)	309~(99%)	4 (1%)	0	100	100
1	С	299/315~(95%)	296 (99%)	3 (1%)	0	100	100
All	All	612/630~(97%)	605~(99%)	7 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	А	279/279~(100%)	277~(99%)	2(1%)	84 88	



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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	С	269/279~(96%)	269 (100%)	0	100 100
All	All	548/558~(98%)	546 (100%)	2(0%)	91 93

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	75	LYS
1	А	133	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	56	ASN
1	А	101	ASN
1	С	304	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

4 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	ol Type Chain Res		Link	Bo	ond leng	ths	B	ond ang	gles	
10101	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	QAP	С	402	-	22,22,22	0.53	0	28,28,28	0.75	1 (3%)
3	QAP	А	402	-	22,22,22	0.38	0	28,28,28	1.02	2 (7%)
2	NAP	А	401	-	45,52,52	1.22	3 (6%)	56,80,80	2.01	20 (35%)
2	NAP	С	401	-	45,52,52	1.19	6 (13%)	56,80,80	1.33	7 (12%)

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	QAP	С	402	-	-	6/11/11/11	0/2/2/2
3	QAP	А	402	-	-	6/11/11/11	0/2/2/2
2	NAP	А	401	-	-	4/31/67/67	0/5/5/5
2	NAP	С	401	-	-	2/31/67/67	0/5/5/5

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	С	401	NAP	C2A-N3A	3.94	1.38	1.32
2	А	401	NAP	O5B-C5B	-3.69	1.30	1.44
2	А	401	NAP	O4B-C1B	3.54	1.46	1.41
2	С	401	NAP	C5A-C4A	2.55	1.47	1.40
2	С	401	NAP	O4D-C1D	2.35	1.44	1.41
2	С	401	NAP	P2B-O2B	2.27	1.63	1.59
2	С	401	NAP	C7N-N7N	-2.18	1.28	1.33
2	А	401	NAP	PN-O2N	-2.17	1.45	1.55
2	С	401	NAP	P2B-O3X	-2.10	1.46	1.54

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
2	А	401	NAP	C5B-C4B-C3B	-5.86	93.21	115.18
2	А	401	NAP	N3A-C2A-N1A	-4.20	122.11	128.68
2	С	401	NAP	N3A-C2A-N1A	-4.16	122.17	128.68
2	А	401	NAP	N6A-C6A-N1A	3.64	126.12	118.57
3	А	402	QAP	O1-C14-O4	3.59	130.81	122.93
2	А	401	NAP	O3B-C3B-C2B	3.58	121.32	111.17
2	А	401	NAP	O2A-PA-O5B	-3.19	92.91	107.75
3	А	402	QAP	O1-C14-C17	-3.06	103.43	111.55



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	401	NAP	C2D-C3D-C4D	-3.03	96.75	102.64
2	С	401	NAP	O3X-P2B-O2X	3.03	119.20	107.64
2	А	401	NAP	C1B-N9A-C4A	-2.98	121.40	126.64
2	А	401	NAP	O4B-C4B-C3B	2.96	110.97	105.11
2	А	401	NAP	C6N-N1N-C2N	-2.87	119.36	121.97
2	А	401	NAP	O5B-C5B-C4B	-2.75	99.52	108.99
2	А	401	NAP	C5N-C4N-C3N	-2.73	117.11	120.34
2	А	401	NAP	O3D-C3D-C4D	2.69	118.83	111.05
2	А	401	NAP	C5A-C6A-N6A	-2.59	116.41	120.35
2	С	401	NAP	C6N-N1N-C2N	-2.54	119.66	121.97
2	С	401	NAP	O7N-C7N-C3N	2.48	122.60	119.63
3	С	402	QAP	C3-C1-C2	2.47	118.94	113.00
2	А	401	NAP	O4B-C1B-C2B	2.43	110.81	106.59
2	А	401	NAP	O3X-P2B-O1X	2.38	120.01	110.68
2	А	401	NAP	C2A-N1A-C6A	2.31	122.71	118.75
2	А	401	NAP	C3N-C7N-N7N	2.30	120.51	117.75
2	А	401	NAP	C3D-C2D-C1D	2.26	104.38	100.98
2	С	401	NAP	C3D-C2D-C1D	2.21	104.30	100.98
2	С	401	NAP	C5N-C4N-C3N	-2.19	117.75	120.34
2	А	401	NAP	O2A-PA-O1A	2.13	122.77	112.24
2	А	401	NAP	O2B-P2B-O1X	-2.05	101.48	109.39
2	С	401	NAP	C2D-C3D-C4D	-2.02	98.72	102.64

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There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	С	401	NAP	PA-O3-PN-O5D
3	А	402	QAP	C2-C1-C3-O1
3	А	402	QAP	O4-C14-O1-C3
3	А	402	QAP	C17-C14-O1-C3
3	С	402	QAP	C17-C14-O1-C3
3	А	402	QAP	C6-C12-C17-C14
3	С	402	QAP	O4-C14-O1-C3
2	А	401	NAP	C3B-C4B-C5B-O5B
3	С	402	QAP	C1-C3-O1-C14
3	С	402	QAP	C2-C1-C3-O1
2	А	401	NAP	O4B-C4B-C5B-O5B
3	А	402	QAP	C3-C1-C2-C4
3	С	402	QAP	C3-C1-C2-C4
2	А	401	NAP	C4D-C5D-O5D-PN
2	А	401	NAP	PA-O3-PN-O5D



Mol	Chain	Res	Type	Atoms
3	С	402	QAP	C3-C1-C2-C5
3	А	402	QAP	C3-C1-C2-C5
2	С	401	NAP	C4D-C5D-O5D-PN

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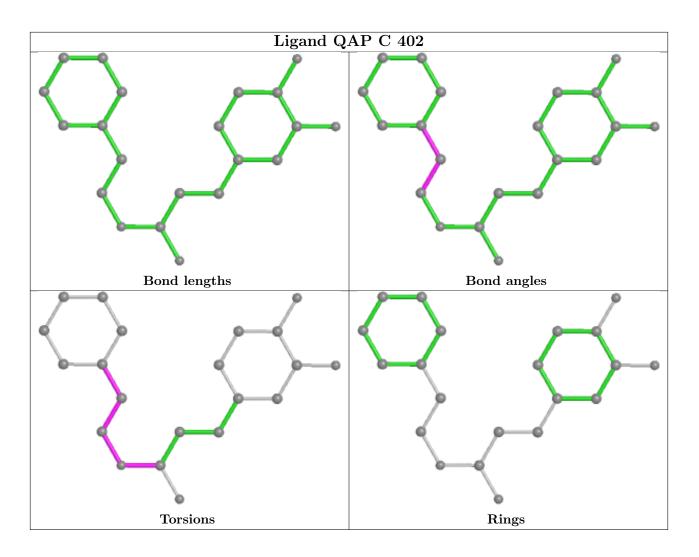
There are no ring outliers.

4 monomers are involved in 10 short contacts:

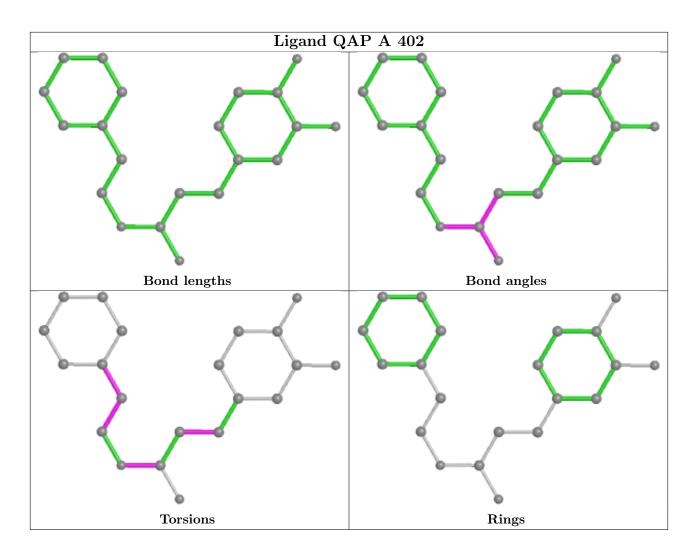
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	С	402	QAP	1	0
3	А	402	QAP	3	0
2	А	401	NAP	3	0
2	С	401	NAP	3	0

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.

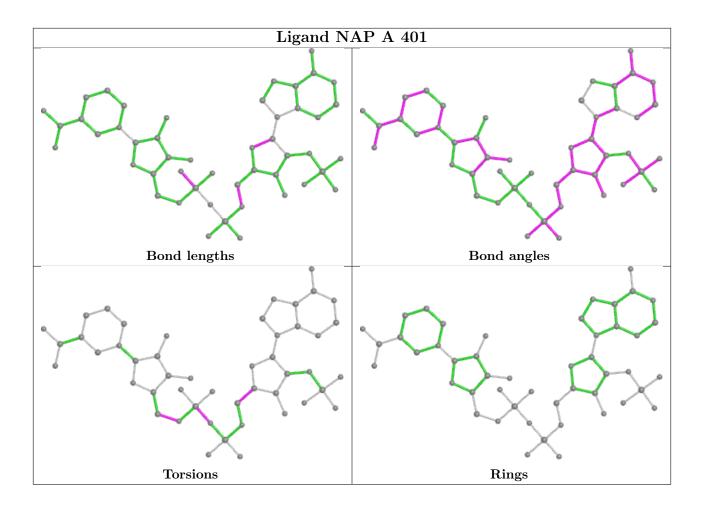




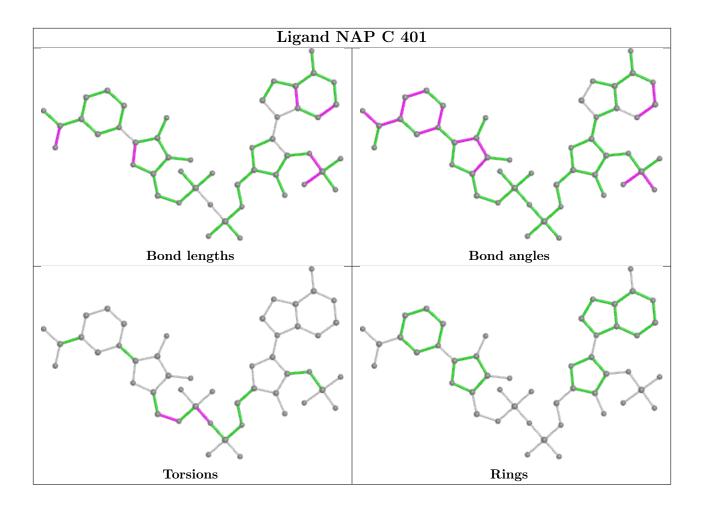












5.7 Other polymers (i)

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, 95^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	315/315~(100%)	-0.14	7 (2%) 62 60	9, 17, 34, 60	0
1	С	303/315~(96%)	-0.07	11 (3%) 42 42	10, 15, 35, 71	0
All	All	618/630~(98%)	-0.11	18 (2%) 51 50	9, 16, 35, 71	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	308	SER	6.3
1	С	307	ASN	5.1
1	А	133	GLU	4.7
1	С	309	ASP	4.3
1	С	320	SER	4.2
1	А	31	ARG	4.0
1	А	135	GLY	3.8
1	А	134	ASN	3.2
1	А	126	GLU	2.9
1	С	306	PHE	2.6
1	С	310	SER	2.5
1	С	312	ALA	2.5
1	С	230	PRO	2.5
1	А	320	SER	2.5
1	С	311	PHE	2.4
1	А	127	GLU	2.2
1	С	137	VAL	2.1
1	С	268	LEU	2.0

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)

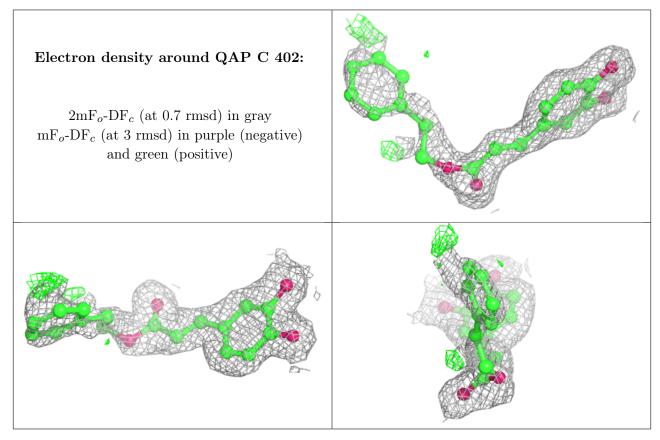
There are no monosaccharides in this entry.

6.4 Ligands (i)

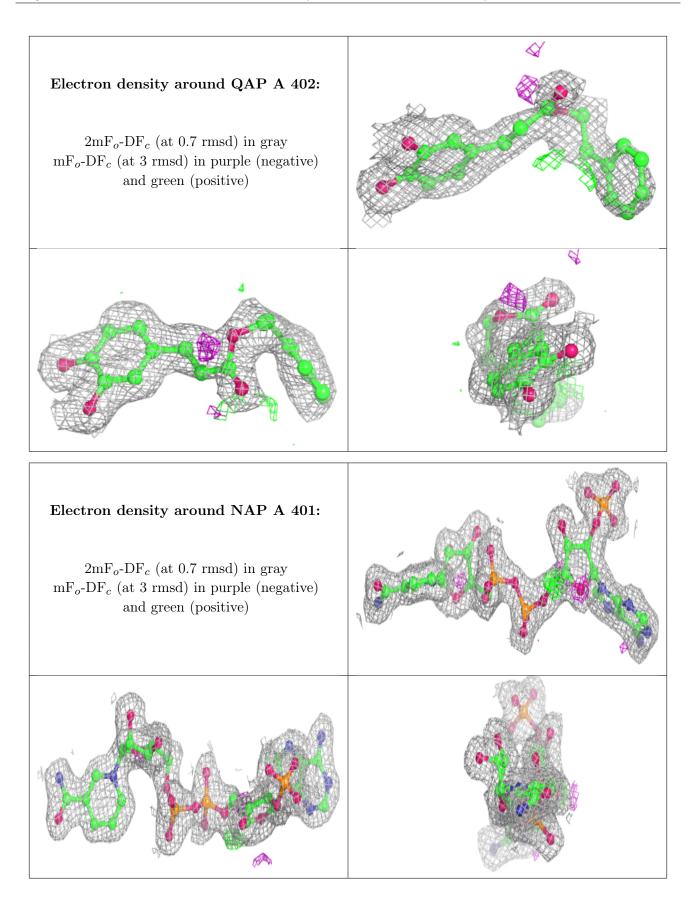
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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	QAP	С	402	21/21	0.89	0.18	$13,\!32,\!61,\!63$	0
3	QAP	А	402	21/21	0.90	0.17	12,31,44,47	0
2	NAP	А	401	48/48	0.96	0.10	7,12,14,15	0
2	NAP	С	401	48/48	0.98	0.08	8,10,12,13	0

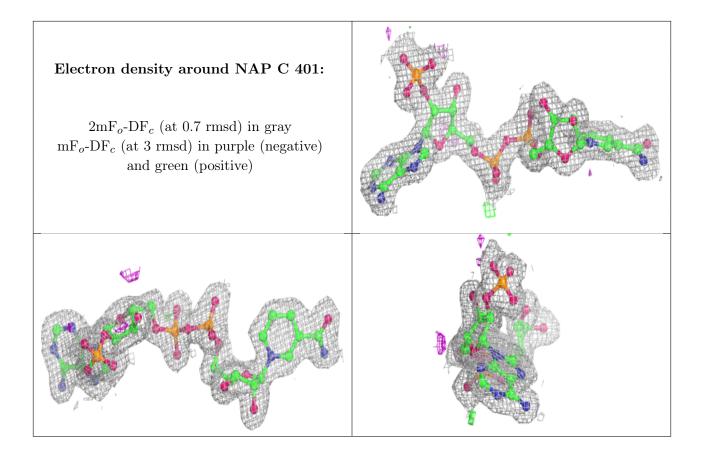
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.











6.5 Other polymers (i)

There are no such residues in this entry.

