

Full wwPDB X-ray Structure Validation Report (i)

Nov 30, 2023 – 10:03 AM EST

PDB ID : 8V2N

Title: Human SIRT3 co-crystallized with ligands, including p53-AMC peptide and

Carba-NAD

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Deposited on : 2023-11-23

Resolution : 1.74 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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

MolProbity: 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

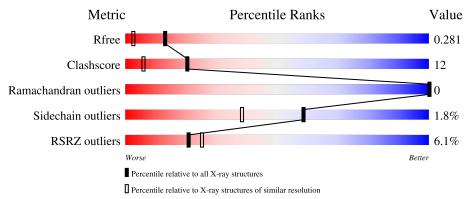
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.74 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	Similar resolution $(\# \text{Entries, resolution range}(\text{\AA}))$
R_{free}	130704	3764 (1.76-1.72)
Clashscore	141614	3923 (1.76-1.72)
Ramachandran outliers	138981	3878 (1.76-1.72)
Sidechain outliers	138945	3878 (1.76-1.72)
RSRZ outliers	127900	3705 (1.76-1.72)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain		
1	A	282	5% 74%	18%	8%
2	В	4	50%		



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 2199 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.

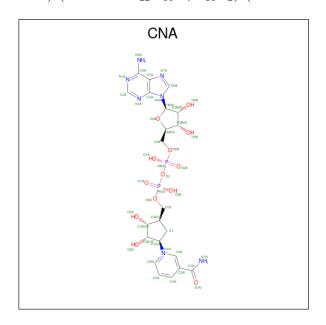
• Molecule 1 is a protein called NAD-dependent protein deacetylase sirtuin-3, mitochondrial.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	260	Total 2028	C 1313	N 348	O 358	S 9	0	2	0

• Molecule 2 is a protein called GLN-PRO-LYS-FDL.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
9	B	4	Total	С	N	О	0	9	0
2	Ъ	4	66	44	11	11		2	U

• Molecule 3 is CARBA-NICOTINAMIDE-ADENINE-DINUCLEOTIDE (three-letter code: CNA) (formula: C₂₂H₃₀N₇O₁₃P₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
9	Λ	1	Total	С	N	О	Р	0	0
3	A	1	44	22	7	13	2	U	U

• Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Zn 1 1	0	0

• Molecule 5 is water.

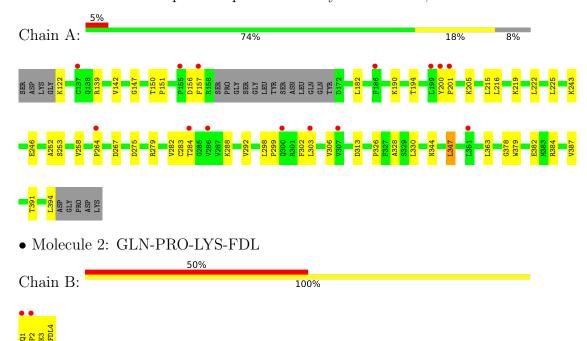
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	59	Total O 59 59	0	0
5	В	1	Total O 1 1	0	0



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: NAD-dependent protein deacetylase sirtuin-3, mitochondrial





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	34.34\AA 53.18\AA 68.54\AA	Donositon
a, b, c, α , β , γ	90.00° 91.75° 90.00°	Depositor
Resolution (Å)	42.04 - 1.74	Depositor
Resolution (A)	42.01 - 1.73	EDS
% Data completeness	99.1 (42.04-1.74)	Depositor
(in resolution range)	90.7 (42.01-1.73)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.94 (at 1.74Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
D.D.	0.242 , 0.282	Depositor
R, R_{free}	0.240 , 0.281	DCC
R_{free} test set	1259 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	22.9	Xtriage
Anisotropy	0.096	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.37 , 27.8	EDS
L-test for twinning ²	$< L >=0.43, < L^2>=0.26$	Xtriage
Estimated twinning fraction	0.138 for h,-k,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2199	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.83% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: CNA, ZN, FDL

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.44	0/2085	0.48	0/2844	
2	В	0.49	0/42	0.53	0/56	
All	All	0.44	0/2127	0.48	0/2900	

There are no bond length outliers.

There are no bond angle outliers.

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	2028	0	2042	48	0
2	В	66	0	67	10	0
3	A	44	0	29	3	0
4	A	1	0	0	0	0
5	A	59	0	0	14	0
5	В	1	0	0	0	0
All	All	2199	0	2138	53	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 12.

All (53) 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	${\rm distance}({\rm \AA})$	overlap (Å)
1:A:201:PRO:HD3	5:A:526:HOH:O	1.72	0.89
1:A:288:LYS:HE3	5:A:551:HOH:O	1.80	0.80
1:A:253:SER:HB3	5:A:501:HOH:O	1.81	0.80
1:A:347:LEU:CD2	1:A:363:LEU:HD11	2.14	0.78
1:A:347:LEU:HD23	1:A:363:LEU:HD11	1.67	0.77
1:A:122:LYS:HE2	5:A:518:HOH:O	1.87	0.74
1:A:378:GLY:HA2	5:A:556:HOH:O	1.86	0.74
2:B:1[A]:GLN:N	2:B:2[A]:PRO:HD3	2.03	0.72
1:A:205:LYS:HD3	1:A:394:LEU:HD13	1.72	0.71
1:A:303:LEU:HD21	2:B:2[B]:PRO:HG3	1.73	0.70
1:A:219:LYS:HD2	1:A:379:TRP:CZ2	2.27	0.70
1:A:190:LYS:O	1:A:194:THR:HG23	1.94	0.68
1:A:219:LYS:HE3	1:A:379:TRP:CE2	2.29	0.67
1:A:156:ASP:OD2	3:A:401:CNA:H10	1.98	0.63
1:A:150:THR:N	1:A:151:PRO:CD	2.62	0.62
1:A:387:VAL:O	1:A:391:THR:HG23	2.00	0.61
2:B:1[A]:GLN:N	2:B:2[A]:PRO:CD	2.67	0.58
1:A:258:VAL:HB	1:A:283:CYS:SG	2.43	0.58
1:A:216[A]:LEU:HD23	1:A:222:LEU:HD13	1.85	0.57
2:B:1[A]:GLN:H3	2:B:2[A]:PRO:HD3	1.67	0.57
1:A:264:PRO:O	1:A:267:ASP:HB2	2.05	0.56
1:A:219:LYS:HE3	1:A:379:TRP:NE1	2.21	0.56
1:A:246:GLU:HB3	5:A:519:HOH:O	2.05	0.56
1:A:142:VAL:HB	1:A:225:LEU:HD13	1.87	0.55
1:A:252:ALA:C	5:A:501:HOH:O	2.46	0.54
2:B:1[B]:GLN:O	2:B:3:LYS:HG3	2.07	0.54
1:A:279:ARG:HD3	1:A:284:THR:O	2.09	0.53
1:A:215:LEU:HD11	1:A:382:GLU:HG2	1.92	0.52
1:A:157:PHE:CD1	3:A:401:CNA:H30	2.46	0.51
1:A:347:LEU:HD22	1:A:363:LEU:HD11	1.90	0.50
1:A:282:VAL:HG11	5:A:550:HOH:O	2.11	0.50
1:A:326:PRO:CB	2:B:1[A]:GLN:HG2	2.41	0.50
1:A:292:VAL:HG21	1:A:299:PRO:HD3	1.94	0.49
1:A:299:PRO:HB2	5:A:554:HOH:O	2.13	0.48
1:A:328:ALA:O	1:A:330:LEU:N	2.46	0.48
1:A:303:LEU:O	1:A:306:VAL:HG22	2.14	0.48
1:A:283:CYS:C	1:A:284:THR:HG23	2.36	0.46
1:A:243:LYS:NZ	5:A:508:HOH:O	2.48	0.46
1:A:326:PRO:HB2	2:B:1[A]:GLN:HG2	1.97	0.46
1:A:139:ARG:NH2	1:A:313:ASP:OD2	2.49	0.46
1:A:344:ASN:O	1:A:363:LEU:HA	2.15	0.46

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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:A:182:LEU:HD21	5:A:551:HOH:O	2.15	0.45
1:A:347:LEU:HD22	1:A:363:LEU:HD21	1.99	0.45
1:A:299:PRO:HD2	5:A:554:HOH:O	2.17	0.44
1:A:219:LYS:CD	1:A:379:TRP:CZ2	2.99	0.44
1:A:298:LEU:HD11	1:A:326:PRO:CG	2.47	0.44
2:B:1[A]:GLN:H2	2:B:2[A]:PRO:HD3	1.79	0.43
1:A:303:LEU:CD2	2:B:2[B]:PRO:HG3	2.47	0.42
1:A:302:PHE:HB2	5:A:554:HOH:O	2.19	0.42
1:A:253:SER:CB	5:A:501:HOH:O	2.54	0.41
1:A:147:GLY:HA2	3:A:401:CNA:C8A	2.51	0.41
1:A:326:PRO:HB3	2:B:1[A]:GLN:HG2	2.02	0.41
1:A:298:LEU:HD11	1:A:326:PRO:HG2	2.03	0.40

There are no symmetry-related clashes.

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	ntiles
1	A	$258/282 \ (92\%)$	248 (96%)	10 (4%)	0	100	100
2	В	3/4 (75%)	3 (100%)	0	0	100	100
All	All	261/286 (91%)	251 (96%)	10 (4%)	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 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	Analysed Rotameric Our		Percentil	es
1	A	222/244 (91%)	218 (98%)	4 (2%)	59 38	
2	В	5/3 (167%)	5 (100%)	0	100 10	0
All	All	227/247 (92%)	223 (98%)	4 (2%)	59 38	

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	200	TYR
1	A	275	ASP
1	A	347	LEU
1	A	384	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is 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	ype Chain Res	Pos	Link	Bo	ond leng	ths	В	ond ang	les
WIOI	туре		Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	FDL	В	4	2	26,26,26	1.98	4 (15%)	34,35,35	1.42	7 (20%)

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



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	FDL	В	4	2	-	4/16/16/16	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
2	В	4	FDL	OAK-CAB	7.34	1.36	1.21
2	В	4	FDL	CAC-CAD	4.59	1.41	1.35
2	В	4	FDL	CAJ-NAM	-2.60	1.36	1.41
2	В	4	FDL	CAE-CAD	-2.35	1.41	1.45

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$Ideal(^{o})$
2	В	4	FDL	CAB-CAC-CAD	-3.78	119.83	123.12
2	В	4	FDL	CAJ-NAM-C	-3.12	119.93	127.40
2	В	4	FDL	OAK-CAB-CAC	-2.66	120.41	125.84
2	В	4	FDL	OAA-CAF-CAG	2.50	119.55	115.79
2	В	4	FDL	OAA-CAB-CAC	2.38	120.24	117.17
2	В	4	FDL	OAA-CAB-OAK	2.28	119.35	116.44
2	В	4	FDL	CAH-CAE-CAD	-2.25	121.10	124.27

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	4	FDL	CAG-CAJ-NAM-C
2	В	4	FDL	CAI-CAJ-NAM-C
2	В	4	FDL	O-C-NAM-CAJ
2	В	4	FDL	CA-C-NAM-CAJ

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.



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	Pog	Link	Bo	ond leng	$ ag{ths}$	В	ond ang	cles
MIOI	ol Type Cha	Chain	Chain Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	CNA	A	401	-	42,48,48	0.90	1 (2%)	49,73,73	0.83	2 (4%)

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	CNA	A	401	-	-	7/24/62/62	0/5/5/5

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
3	A	401	CNA	C2N-N1N	3.56	1.39	1.35

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	A	401	CNA	C6N-N1N-C2N	-2.65	119.56	121.97
3	A	401	CNA	C5A-C6A-N6A	2.20	123.69	120.35

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	401	CNA	C5D-O5D-PN-O1N
3	A	401	CNA	C2D-C1D-N1N-C2N
3	A	401	CNA	C2D-C1D-N1N-C6N
3	A	401	CNA	C5D-O5D-PN-O2N
3	A	401	CNA	C5D-O5D-PN-O3
3	A	401	CNA	C4D-C5D-O5D-PN
3	A	401	CNA	O4B-C4B-C5B-O5B



There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	401	CNA	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	$\langle { m RSRZ} \rangle$	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	260/282 (92%)	0.69	14 (5%) 25 30	12, 25, 41, 54	0
2	В	3/4 (75%)	2.20	2 (66%) 0 0	32, 32, 33, 35	0
All	All	263/286 (91%)	0.70	16 (6%) 21 25	12, 25, 41, 54	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	186	PHE	4.2
1	A	303	LEU	4.1
1	A	200	TYR	3.5
2	В	2[A]	PRO	3.5
1	A	284	THR	3.3
1	A	157	PHE	3.0
1	A	201	PRO	2.8
2	В	1[A]	GLN	2.7
1	A	137	CYS	2.7
1	A	351	LEU	2.6
1	A	155	PRO	2.3
1	A	300	GLN	2.3
1	A	199	LEU	2.2
1	A	307	VAL	2.1
1	A	286	VAL	2.0
1	A	264	PRO	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	FDL	В	4	25/25	0.80	0.19	23,36,52,54	0

6.3 Carbohydrates (i)

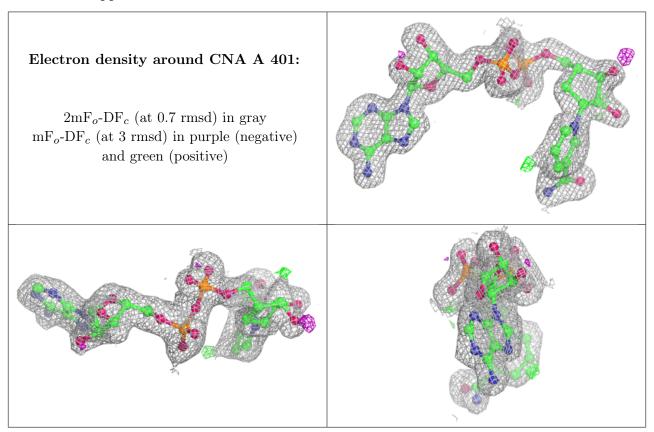
There are no monosaccharides in this entry.

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	CNA	A	401	44/44	0.94	0.10	20,24,28,34	0
4	ZN	A	402	1/1	0.99	0.09	27,27,27,27	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.

