

Full wwPDB X-ray Structure Validation Report (i)

Aug 8, 2020 – 12:41 PM BST

PDB ID	:	7C49
Title	:	nicA2 with cofactor FAD and substrate nicotine
Authors	:	Xu, P.; Zhang, K.
Deposited on		
$\operatorname{Resolution}$:	2.25 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 following versions of software and data (see references (1)) were used in the production of this report:

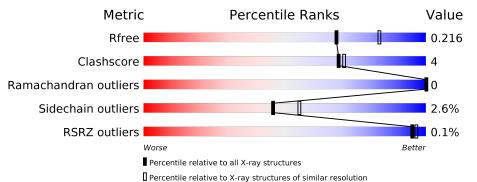
Ū.	:	4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.13.1
buster -report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13.1

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 2.25 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

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	А	470	86%	6%	8%
1	В	470	82%	8%	10%



7C49

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6988 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 Amine oxidase.

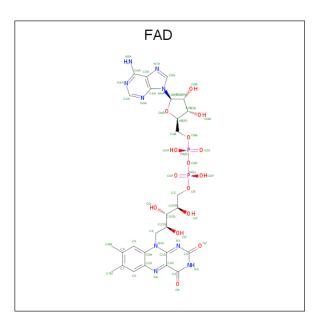
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	434	Total	С	Ν	Ο	\mathbf{S}	0	0	0
	л	404	3367	2134	586	635	12	0	0	0
1	В	424	Total	С	Ν	Ο	S	0	0	0
	D	424	3289	2086	571	620	12	0	U	0

Chain	Residue	Modelled	Actual	Comment	Reference
A	483	LEU	-	expression tag	UNP F8G0P2
A	484	GLU	-	expression tag	UNP F8G0P2
A	485	HIS	-	expression tag	UNP F8G0P2
A	486	HIS	-	expression tag	UNP F8G0P2
A	487	HIS	_	expression tag	UNP F8G0P2
A	488	HIS	-	expression tag	UNP F8G0P2
A	489	HIS	-	expression tag	UNP F8G0P2
A	490	HIS	-	expression tag	UNP F8G0P2
В	483	LEU	-	expression tag	UNP F8G0P2
В	484	GLU	-	expression tag	UNP F8G0P2
В	485	HIS	-	expression tag	UNP F8G0P2
В	486	HIS	-	expression tag	UNP F8G0P2
В	487	HIS	-	expression tag	UNP F8G0P2
В	488	HIS	-	expression tag	UNP F8G0P2
В	489	HIS	-	expression tag	UNP F8G0P2
В	490	HIS	_	expression tag	UNP F8G0P2

There are 16 discrepancies between the modelled and reference sequences:

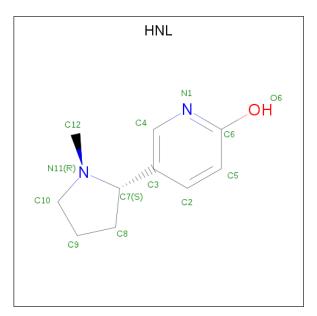
• Molecule 2 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula: $C_{27}H_{33}N_9O_{15}P_2$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
0	Δ	1	Total	С	Ν	Ο	Р	0	0
	А	T	53	27	9	15	2	0	0
0	р	1	Total	С	Ν	Ο	Р	0	0
	D		53	27	9	15	2	U	U

• Molecule 3 is 5-[(2S)-1-methylpyrrolidin-2-yl]pyridin-2-ol (three-letter code: HNL) (formula: $C_{10}H_{14}N_2O$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
3	А	1	Total 12	C 10	N 2	0	0

Continued on next page...



Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
3	В	1	Total 12	C 10	N 2	0	0

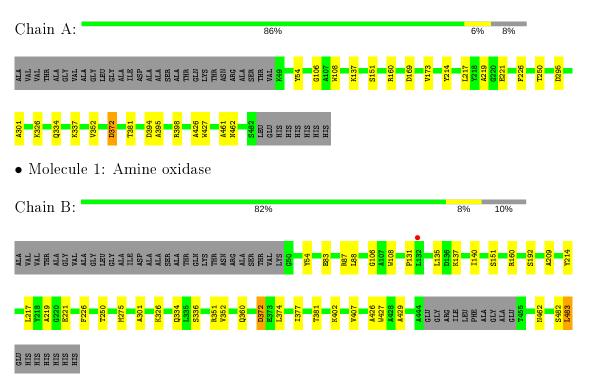
• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	97	Total O 97 97	0	0
4	В	105	Total O 105 105	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: Amine oxidase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41	Depositor
Cell constants	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Depositor
a, b, c, α , β , γ	$\frac{39.84 - 2.25}{39.84 - 2.25}$	Depositor
Resolution (Å)	39.84 - 2.25	EDS
% Data completeness	95.7 (39.84-2.25)	Depositor
(in resolution range)	96.5(39.84 - 2.25)	EDS
R _{merge}	0.08	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.53 (at 2.24 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
D D.	0.176 , 0.214	Depositor
R, R_{free}	0.184 , 0.216	DCC
R _{free} test set	2651 reflections $(5.35%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	41.7	Xtriage
Anisotropy	0.097	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32 , 24.6	EDS
L-test for twinning ²	$< L > = 0.50, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	0.317 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6988	wwPDB-VP
Average B, all atoms $(Å^2)$	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.29% 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: HNL, FAD

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	Bo	nd angles
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.49	0/3438	0.69	0/4655
1	В	0.48	0/3358	0.70	1/4547~(0.0%)
All	All	0.48	0/6796	0.70	1/9202~(0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	В	87	ARG	NE-CZ-NH2	-5.46	117.57	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	3367	0	3312	15	0
1	В	3289	0	3235	34	0
2	А	53	0	31	5	0
2	В	53	0	31	8	0
3	А	12	0	13	1	0
3	В	12	0	13	0	0
4	А	97	0	0	0	0
4	В	105	0	0	0	0

Continued on next page...



Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	6988	0	6635	50	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 4.

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:106:GLY:HA2	2:A:1001:FAD:C4X	1.97	0.94
1:B:106:GLY:HA2	2:B:1001:FAD:C4X	2.06	0.85
1:B:83:GLU:HB3	1:B:275:MET:HE2	1.60	0.84
1:B:483:LEU:HD13	1:B:483:LEU:H	1.43	0.84
1:B:483:LEU:N	1:B:483:LEU:HD22	2.07	0.69
1:B:483:LEU:HD13	1:B:483:LEU:N	2.07	0.68
1:B:334:GLN:HE21	1:B:429:ALA:H	1.40	0.67
1:B:483:LEU:HD22	1:B:483:LEU:H	1.58	0.67
1:B:426:ALA:HB1	2:B:1001:FAD:HM83	1.77	0.66
1:B:137:LYS:HB3	1:B:352:VAL:HG12	1.78	0.66
1:B:131:PRO:HB2	1:B:351:ARG:HD3	1.77	0.65
1:B:334:GLN:NE2	1:B:336:SER:H	1.95	0.64
1:A:137:LYS:HB3	1:A:352:VAL:HG12	1.81	0.63
1:B:483:LEU:CD2	1:B:483:LEU:H	2.11	0.63
1:A:106:GLY:HA2	2:A:1001:FAD:N5	2.14	0.62
1:B:334:GLN:HE22	1:B:336:SER:H	1.48	0.61
1:B:140:ILE:HD11	1:B:209:ALA:HB3	1.82	0.61
1:B:135:LEU:HD23	1:B:351:ARG:HG2	1.82	0.61
1:B:334:GLN:HE21	1:B:429:ALA:N	2.01	0.59
1:B:140:ILE:HD11	1:B:209:ALA:CB	2.33	0.58
1:B:106:GLY:HA2	2:B:1001:FAD:N5	2.18	0.58
1:A:426:ALA:HB1	2:A:1001:FAD:HM83	1.87	0.55
1:A:221:GLU:OE2	1:A:337:LYS:NZ	2.38	0.55
1:B:108:TRP:HE3	2:B:1001:FAD:O4	1.91	0.53
1:B:374:LEU:HD11	1:B:377:ILE:HG13	1.95	0.49
1:A:108:TRP:CE3	1:A:250:THR:HG22	2.48	0.49
1:A:462:ASN:HA	2:A:1001:FAD:N1	2.28	0.48
1:B:334:GLN:NE2	1:B:429:ALA:H	2.11	0.47
1:B:462:ASN:HA	2:B:1001:FAD:N1	2.29	0.46
1:B:108:TRP:CE3	1:B:250:THR:HG22	2.49	0.46
1:B:88:LEU:HD21	1:B:275:MET:HE1	1.97	0.46
1:A:219:ALA:HB2	1:A:226:PHE:CG	2.50	0.46
1:B:108:TRP:CE3	2:B:1001:FAD:O4	2.68	0.46

Continued on next page...



		Interatomic	Clash
Atom-1	Atom-2	${ m distance}~({ m \AA})$	overlap (Å)
1:B:219:ALA:HB2	1:B:226:PHE:CG	2.51	0.46
1:B:360:GLN:OE1	1:B:402:LYS:NZ	2.49	0.45
1:A:217:LEU:HD11	1:A:381:THR:CG2	2.47	0.45
1:A:461:ALA:HB1	3:A:1002:HNL:H10	1.98	0.44
1:B:217:LEU:HD11	1:B:381:THR:CG2	2.46	0.44
1:B:106:GLY:HA2	2:B:1001:FAD:C10	2.47	0.44
1:A:426:ALA:HB1	1:A:427:TRP:CE3	2.52	0.44
1:A:372:ASP:OD1	1:A:372:ASP:N	2.50	0.43
1:A:394:ASP:OD1	1:A:395:ALA:N	2.51	0.43
1:B:426:ALA:HB1	1:B:427:TRP:CE3	2.54	0.43
2:A:1001:FAD:H9	2:A:1001:FAD:H1'1	1.82	0.42
1:B:372:ASP:N	1:B:372:ASP:OD1	2.50	0.41
1:B:427:TRP:HE3	2:B:1001:FAD:C8	2.33	0.41
1:A:54:TYR:O	1:A:301:ALA:HA	2.21	0.41
1:B:217:LEU:HD11	1:B:381:THR:HG22	2.02	0.41
1:B:54:TYR:O	1:B:301:ALA:HA	2.20	0.41
1:A:169:ASP:O	1:A:173:VAL:HG23	2.21	0.40

Continued from previous page...

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	lowed Outliers		Percentiles		
1	А	432/470~(92%)	422 (98%)	10~(2%)	0	100	100		
1	В	420/470~(89%)	410 (98%)	10~(2%)	0	100	100		
All	All	852/940~(91%)	832 (98%)	20 (2%)	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	Rotameric	Outliers	Percentiles		
1	А	348/373~(93%)	340~(98%)	8 (2%)	50 59		
1	В	341/373~(91%)	331~(97%)	10 (3%)	42 51		
All	All	689/746~(92%)	$671 \ (97\%)$	18 (3%)	46 55		

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	151	SER
1	А	160	ARG
1	А	214	TYR
1	А	295	ASP
1	А	326	LYS
1	А	334	GLN
1	А	372	ASP
1	А	398	ARG
1	В	151	SER
1	В	160	ARG
1	В	192	SER
1	В	214	TYR
1	В	221	GLU
1	В	326	LYS
1	В	372	ASP
1	В	407	VAL
1	В	482	SER
1	В	483	LEU

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

Mol	Chain	Res	Type
1	А	263	ASN
1	В	334	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)

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	Tune	Chain	Res	Link	Bo	ond leng	Bond angles			
	Type	Cham	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	FAD	А	1001	-	51, 58, 58	1.14	2 (3%)	$60,\!89,\!89$	1.76	8 (13%)
3	HNL	А	1002	-	13, 13, 14	0.38	0	17,17,19	1.19	2 (11%)
2	FAD	В	1001	-	51, 58, 58	1.14	2 (3%)	60,89,89	1.77	7 (11%)
3	HNL	В	1002	-	13, 13, 14	0.35	0	17,17,19	1.13	2 (11%)

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	\mathbf{Res}	Link	Chirals	Torsions	Rings
2	FAD	А	1001	-	-	5/30/50/50	0/6/6/6
3	HNL	А	1002	-	-	0/4/14/14	0/2/2/2
2	FAD	В	1001	-	-	2/30/50/50	0/6/6/6
3	HNL	В	1002	-	-	0/4/14/14	0/2/2/2



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	В	1001	FAD	C4X-C10	5.45	1.44	1.38
2	А	1001	FAD	C4X-C10	5.40	1.44	1.38
2	А	1001	FAD	C4-N3	2.43	1.37	1.33
2	В	1001	FAD	C4-N3	2.37	1.37	1.33

All (4) bond length outliers are listed below:

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	1001	FAD	C4-N3-C2	8.27	122.13	115.14
2	А	1001	FAD	C4-N3-C2	8.16	122.03	115.14
2	А	1001	FAD	C4-C4X-C10	-5.37	116.40	119.95
2	В	1001	FAD	C4-C4X-C10	-5.18	116.52	119.95
2	В	1001	FAD	C10-C4X-N5	5.10	124.79	121.26
2	А	1001	FAD	C10-C4X-N5	4.91	124.65	121.26
2	В	1001	FAD	C4X-C4-N3	-4.26	117.61	123.43
2	А	1001	FAD	C4X-C4-N3	-4.21	117.67	123.43
2	В	1001	FAD	C4X-C10-N10	-3.73	116.46	120.30
3	А	1002	HNL	C12-N11-C7	3.58	123.72	112.83
2	А	1001	FAD	C4X-C10-N10	-3.56	116.64	120.30
3	В	1002	HNL	C12-N11-C7	3.23	122.64	112.83
2	В	1001	FAD	O4B-C1B-C2B	-2.73	102.94	106.93
2	А	1001	FAD	O4B-C1B-C2B	-2.57	103.17	106.93
2	А	1001	FAD	C5A-C6A-N6A	2.47	124.11	120.35
2	В	1001	FAD	C5A-C6A-N6A	2.40	123.99	120.35
3	В	1002	HNL	C10-N11-C7	2.36	111.50	104.37
3	А	1002	HNL	C10-N11-C7	2.25	111.19	104.37
2	А	1001	FAD	C1'-N10-C9A	2.23	120.05	118.29

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	1001	FAD	C2'-C3'-C4'-O4'
2	А	1001	FAD	O3'-C3'-C4'-O4'
2	А	1001	FAD	O3'-C3'-C4'-C5'
2	А	1001	FAD	C2'-C3'-C4'-C5'
2	В	1001	FAD	PA-O3P-P-O5'
2	А	1001	FAD	O4B-C4B-C5B-O5B
2	В	1001	FAD	O4B-C4B-C5B-O5B

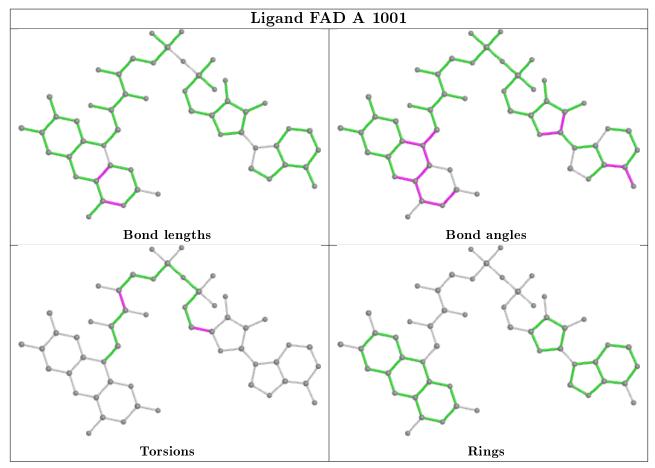
There are no ring outliers.



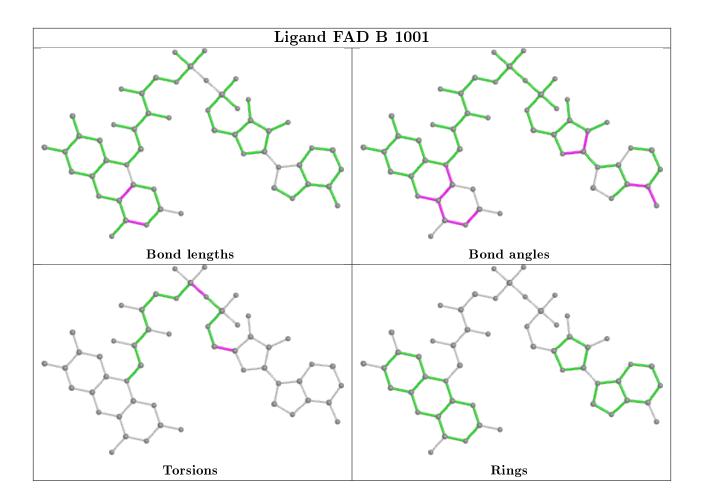
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	1001	FAD	5	0
3	А	1002	HNL	1	0
2	В	1001	FAD	8	0

3 monomers are involved in 14 short contacts:

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 sufficient 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	А	434/470~(92%)	-0.33	0 100 100	23, 50, 77, 101	4 (0%)
1	В	424/470~(90%)	-0.35	1 (0%) 95 96	35, 51, 71, 90	2(0%)
All	All	858/940~(91%)	-0.34	1 (0%) 95 96	23, 51, 74, 101	6 (0%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	132	LEU	2.6

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.

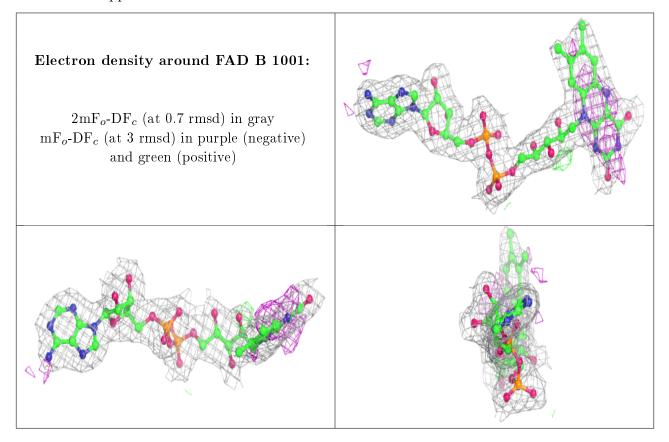
6.4 Ligands (i)

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.

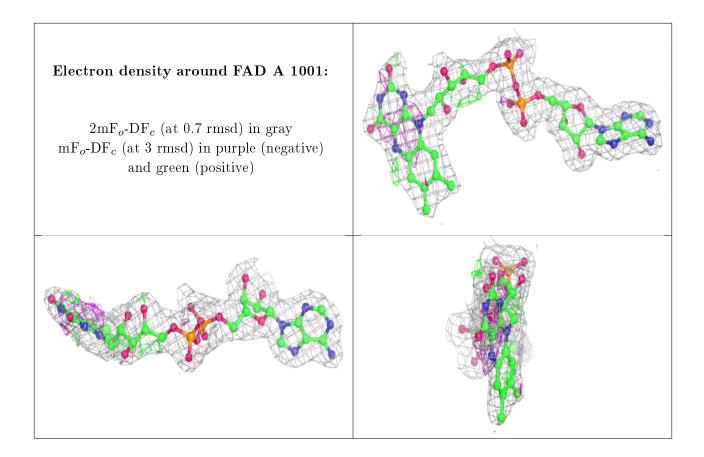
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} extsf{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
3	HNL	А	1002	12/13	0.93	0.26	$64,\!68,\!70,\!71$	0
2	FAD	В	1001	53/53	0.96	0.13	$30,\!42,\!60,\!61$	0
3	HNL	В	1002	12/13	0.96	0.19	$60,\!63,\!69,\!71$	0
2	FAD	А	1001	53/53	0.97	0.11	33,41,75,81	0



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.

