



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 04:53 AM GMT

PDB ID : 2OLN
Title : NikD, an unusual amino acid oxidase essential for nikkomycin biosynthesis:
closed form at 1.15 Å resolution
Authors : Carrell, C.J.; Bruckner, R.C.; Venci, D.; Zhao, G.; Jorns, M.S.; Mathews, F.S.
Deposited on : 2007-01-19
Resolution : 1.15 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

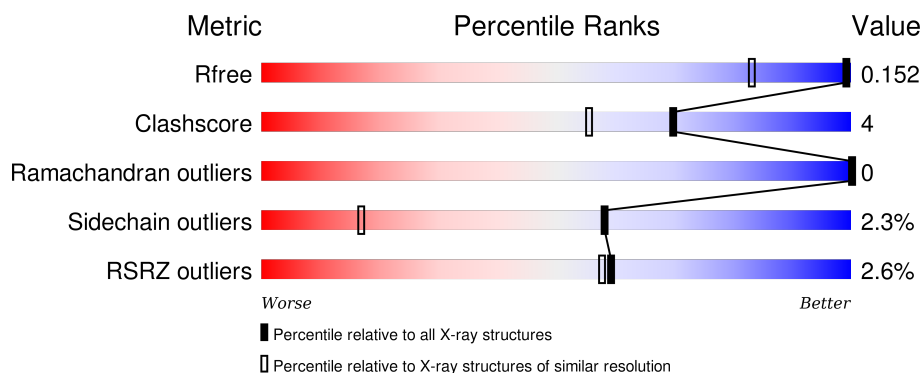
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


The reported resolution of this entry is 1.15 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}	91344	1495 (1.20-1.08)
Clashscore	102246	1593 (1.20-1.08)
Ramachandran outliers	100387	1521 (1.20-1.08)
Sidechain outliers	100360	1518 (1.20-1.08)
RSRZ outliers	91569	1498 (1.20-1.08)

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. 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	397	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3595 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 nikD protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	385	Total	C	N	O	S	0	2	0
			3024	1918	530	566	10			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	390	LEU	-	EXPRESSION TAG	UNP Q9X9P9
A	391	GLU	-	EXPRESSION TAG	UNP Q9X9P9
A	392	HIS	-	EXPRESSION TAG	UNP Q9X9P9
A	393	HIS	-	EXPRESSION TAG	UNP Q9X9P9
A	394	HIS	-	EXPRESSION TAG	UNP Q9X9P9
A	395	HIS	-	EXPRESSION TAG	UNP Q9X9P9
A	396	HIS	-	EXPRESSION TAG	UNP Q9X9P9
A	397	HIS	-	EXPRESSION TAG	UNP Q9X9P9

- Molecule 2 is SODIUM ION (three-letter code: NA) (formula: Na).

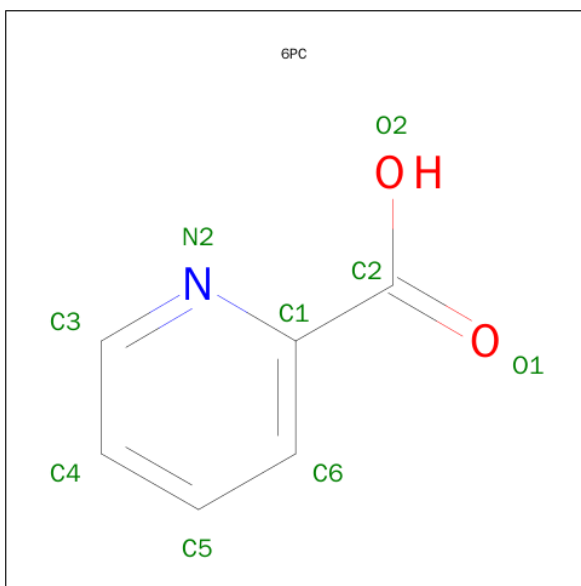
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Na	0	0
			1	1		

- Molecule 3 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula: C₂₇H₃₃N₉O₁₅P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			53	27	9	15	2		

- Molecule 4 is PYRIDINE-2-CARBOXYLIC ACID (three-letter code: 6PC) (formula: $C_6H_5NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			9	6	1	2		

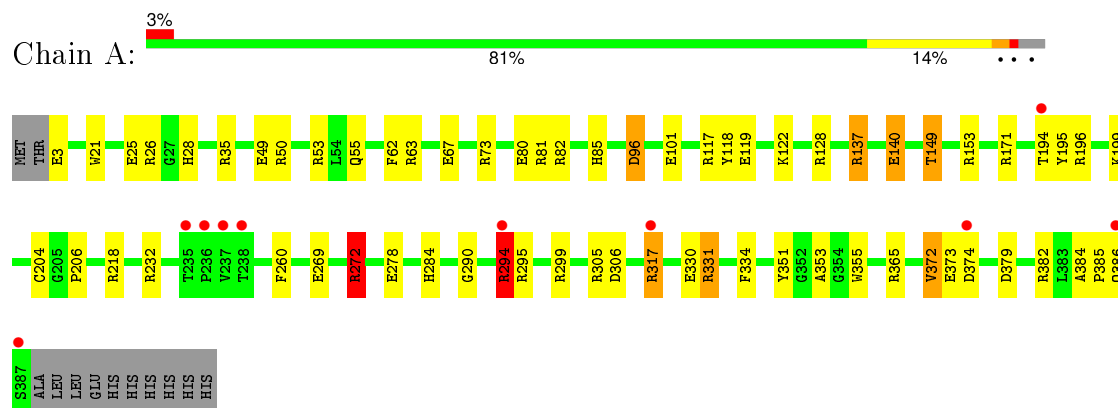
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	508	Total 508	O 508	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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 ($\text{RSRZ} > 2$). 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: nikD protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	78.24Å 95.60Å 77.90Å 90.00° 118.30° 90.00°	Depositor
Resolution (Å)	50.00 – 1.15 47.80 – 1.15	Depositor EDS
% Data completeness (in resolution range)	90.1 (50.00-1.15) 87.2 (47.80-1.15)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.27 (at 1.15Å)	Xtriage
Refinement program	SHELXL-97	Depositor
R, R_{free}	0.124 , 0.149 0.129 , 0.152	Depositor DCC
R_{free} test set	8055 reflections (5.45%)	DCC
Wilson B-factor (Å ²)	13.6	Xtriage
Anisotropy	0.328	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 76.4	EDS
Estimated twinning fraction	0.011 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 160538 reflections	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	3595	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.99% 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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NA, FAD, 6PC

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	0.89	4/3112 (0.1%)	1.64	66/4243 (1.6%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	353	ALA	N-CA	7.03	1.60	1.46
1	A	101	GLU	CD-OE1	6.37	1.32	1.25
1	A	204	CYS	CB-SG	-6.31	1.71	1.82
1	A	80	GLU	CD-OE1	-5.60	1.19	1.25

All (66) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	272	ARG	CD-NE-CZ	32.76	169.47	123.60
1	A	137	ARG	NE-CZ-NH1	16.39	128.50	120.30
1	A	96	ASP	CB-CG-OD2	-15.68	104.19	118.30
1	A	35	ARG	NE-CZ-NH1	14.24	127.42	120.30
1	A	294	ARG	CD-NE-CZ	13.91	143.08	123.60
1	A	299	ARG	NE-CZ-NH1	-12.80	113.90	120.30
1	A	82	ARG	NE-CZ-NH1	12.44	126.52	120.30
1	A	305	ARG	NE-CZ-NH1	-12.25	114.17	120.30
1	A	295	ARG	NE-CZ-NH2	-11.91	114.34	120.30
1	A	96	ASP	CB-CG-OD1	11.72	128.85	118.30
1	A	171	ARG	NE-CZ-NH2	11.18	125.89	120.30
1	A	299	ARG	NE-CZ-NH2	10.68	125.64	120.30
1	A	128	ARG	NE-CZ-NH2	-10.55	115.03	120.30
1	A	272	ARG	CB-CG-CD	10.52	138.95	111.60
1	A	272	ARG	NE-CZ-NH2	10.12	125.36	120.30
1	A	35	ARG	NE-CZ-NH2	-9.74	115.43	120.30
1	A	137	ARG	CD-NE-CZ	9.55	136.97	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	317	ARG	CD-NE-CZ	9.03	136.24	123.60
1	A	73	ARG	NE-CZ-NH2	-7.93	116.33	120.30
1	A	128	ARG	NE-CZ-NH1	7.59	124.09	120.30
1	A	26	ARG	NE-CZ-NH2	7.51	124.05	120.30
1	A	63	ARG	NE-CZ-NH1	-7.42	116.59	120.30
1	A	317	ARG	NE-CZ-NH1	7.39	123.99	120.30
1	A	82	ARG	NE-CZ-NH2	-7.38	116.61	120.30
1	A	272	ARG	NH1-CZ-NH2	-7.31	111.36	119.40
1	A	305	ARG	NE-CZ-NH2	7.23	123.92	120.30
1	A	334	PHE	CB-CG-CD2	6.89	125.62	120.80
1	A	372	VAL	CG1-CB-CG2	6.88	121.91	110.90
1	A	196	ARG	NE-CZ-NH2	6.86	123.73	120.30
1	A	195	TYR	CG-CD2-CE2	6.83	126.76	121.30
1	A	3	GLU	OE1-CD-OE2	-6.75	115.20	123.30
1	A	379	ASP	CB-CG-OD2	6.75	124.37	118.30
1	A	351	TYR	CA-CB-CG	-6.70	100.67	113.40
1	A	351	TYR	CB-CG-CD2	6.65	124.99	121.00
1	A	372	VAL	CA-CB-CG2	-6.44	101.24	110.90
1	A	331	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	A	117	ARG	NE-CZ-NH1	-6.17	117.21	120.30
1	A	306	ASP	CB-CG-OD2	-6.09	112.82	118.30
1	A	26	ARG	NH1-CZ-NH2	-6.05	112.74	119.40
1	A	218	ARG	NE-CZ-NH1	6.04	123.32	120.30
1	A	195	TYR	CB-CG-CD2	6.00	124.60	121.00
1	A	73	ARG	CD-NE-CZ	5.96	131.94	123.60
1	A	81	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	A	272	ARG	NE-CZ-NH1	5.92	123.26	120.30
1	A	26	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	A	149	THR	CA-CB-CG2	-5.78	104.31	112.40
1	A	290	GLY	C-N-CA	5.76	136.09	121.70
1	A	351	TYR	CB-CG-CD1	-5.63	117.62	121.00
1	A	382	ARG	NE-CZ-NH2	5.59	123.10	120.30
1	A	317	ARG	NE-CZ-NH2	-5.58	117.51	120.30
1	A	53	ARG	NE-CZ-NH2	-5.51	117.54	120.30
1	A	153	ARG	NE-CZ-NH2	5.51	123.05	120.30
1	A	137	ARG	NH1-CZ-NH2	-5.47	113.39	119.40
1	A	195	TYR	CZ-CE2-CD2	-5.45	114.90	119.80
1	A	365	ARG	NE-CZ-NH1	-5.44	117.58	120.30
1	A	232[A]	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	A	232[B]	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	A	194	THR	CA-CB-CG2	-5.35	104.91	112.40
1	A	140	GLU	CG-CD-OE1	-5.34	107.62	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	284	HIS	CG-ND1-CE1	5.19	115.47	108.20
1	A	118	TYR	CG-CD2-CE2	-5.15	117.18	121.30
1	A	278	GLU	OE1-CD-OE2	-5.12	117.16	123.30
1	A	372	VAL	CA-CB-CG1	-5.09	103.27	110.90
1	A	382	ARG	NE-CZ-NH1	-5.07	117.76	120.30
1	A	385	PRO	CA-C-O	5.06	132.34	120.20
1	A	290	GLY	O-C-N	-5.00	114.69	122.70

There are no chirality outliers.

There are no planarity outliers.

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	3024	0	2913	27	0
2	A	1	0	0	0	0
3	A	53	0	30	1	0
4	A	9	0	4	1	0
5	A	508	0	0	15	0
All	All	3595	0	2947	27	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 (27) 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:122:LYS:HD2	5:A:9407:HOH:O	1.87	0.74
1:A:49[B]:GLU:OE1	1:A:272:ARG:HG3	1.89	0.73
1:A:149:THR:HG21	5:A:9299:HOH:O	1.93	0.68
1:A:331:ARG:HE	1:A:386:GLN:NE2	1.92	0.67
1:A:49[B]:GLU:HG2	1:A:260:PHE:CD1	2.35	0.62
1:A:85:HIS:HD2	5:A:9311:HOH:O	1.85	0.57
1:A:330:GLU:HG3	1:A:330:GLU:O	2.04	0.57
1:A:119:GLU:HG3	5:A:9454:HOH:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:GLU:HG2	5:A:9313:HOH:O	2.06	0.53
1:A:28:HIS:HD2	5:A:9326:HOH:O	1.93	0.52
1:A:28:HIS:HE1	5:A:9350:HOH:O	1.90	0.51
1:A:85:HIS:HE1	5:A:9051:HOH:O	1.93	0.50
1:A:96:ASP:HB2	5:A:9314:HOH:O	2.13	0.47
1:A:294:ARG:NE	5:A:9379:HOH:O	2.48	0.47
1:A:355:TRP:CG	4:A:5001:6PC:H6	2.51	0.45
1:A:317:ARG:NE	5:A:9409:HOH:O	2.50	0.45
1:A:331:ARG:HH11	1:A:386:GLN:CD	2.21	0.44
1:A:374:ASP:OD1	1:A:374:ASP:N	2.49	0.44
1:A:331:ARG:NH1	1:A:384:ALA:O	2.49	0.43
1:A:199:LYS:NZ	1:A:374:ASP:OD1	2.49	0.43
1:A:28:HIS:CE1	1:A:372:VAL:HG11	2.54	0.43
1:A:317:ARG:NH2	5:A:9460:HOH:O	2.49	0.43
1:A:50:ARG:HD2	3:A:1001:FAD:C4X	2.48	0.43
1:A:206:PRO:HD2	5:A:9087:HOH:O	2.20	0.42
1:A:21:TRP:CD1	1:A:25:GLU:HG3	2.55	0.42
1:A:140:GLU:HG2	5:A:9407:HOH:O	2.20	0.41
1:A:317:ARG:NH1	5:A:9415:HOH:O	2.53	0.41

There are no symmetry-related clashes.

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	385/397 (97%)	379 (98%)	6 (2%)	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	313/322 (97%)	306 (98%)	7 (2%)	60 18

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	55	GLN
1	A	62	PHE
1	A	137	ARG
1	A	269	GLU
1	A	272	ARG
1	A	294	ARG
1	A	373	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	HIS
1	A	55	GLN
1	A	85	HIS
1	A	103	GLN
1	A	248	GLN
1	A	255	ASN
1	A	296	GLN
1	A	386	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 1 is monoatomic - leaving 2 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	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	FAD	A	1001	1	48,58,58	1.39	5 (10%)	54,89,89	2.08	10 (18%)
4	6PC	A	5001	-	6,9,9	1.56	1 (16%)	7,11,11	0.89	0

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	FAD	A	1001	1	-	0/30/50/50	0/6/6/6
4	6PC	A	5001	-	-	0/0/4/4	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1001	FAD	C10-N1	-4.06	1.28	1.35
3	A	1001	FAD	C10-N10	-3.57	1.35	1.39
3	A	1001	FAD	C8M-C8	2.83	1.56	1.51
4	A	5001	6PC	C3-N2	2.93	1.41	1.34
3	A	1001	FAD	C4X-N5	3.05	1.38	1.33
3	A	1001	FAD	O4B-C1B	3.29	1.45	1.41

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1001	FAD	C4X-C4-N3	-5.97	115.43	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1001	FAD	C4X-C10-N10	-4.44	117.91	120.52
3	A	1001	FAD	C4B-O4B-C1B	-3.23	106.17	109.72
3	A	1001	FAD	C4-C4X-C10	-2.69	118.22	119.94
3	A	1001	FAD	C9-C8-C7	-2.15	115.94	120.04
3	A	1001	FAD	C5X-C9A-N10	2.18	119.27	117.62
3	A	1001	FAD	C8M-C8-C7	2.67	126.60	120.73
3	A	1001	FAD	C1'-N10-C9A	2.79	121.99	118.86
3	A	1001	FAD	O4'-C4'-C5'	3.57	117.97	110.19
3	A	1001	FAD	C4-N3-C2	9.30	123.29	115.25

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1001	FAD	1	0
4	A	5001	6PC	1	0

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	385/397 (96%)	0.32	10 (2%) 59 58	11, 18, 36, 56	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	238	THR	7.6
1	A	386	GLN	4.9
1	A	294	ARG	3.2
1	A	236	PRO	3.1
1	A	194	THR	3.1
1	A	374	ASP	2.6
1	A	387	SER	2.6
1	A	235	THR	2.2
1	A	317	ARG	2.2
1	A	237	VAL	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
2	NA	A	9001	1/1	0.99	0.14	1.44	21,21,21,21	0
3	FAD	A	1001	53/53	0.99	0.06	-1.00	11,14,18,24	0
4	6PC	A	5001	9/9	0.98	0.07	-1.10	11,13,14,15	0

6.5 Other polymers [i](#)

There are no such residues in this entry.