



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 03:06 PM GMT

PDB ID : 4BII
Title : How nature bridges the gap: Crystallographic elucidation of pyridomycin binding to InhA
Authors : Read, J.A.; Gingell, H.
Deposited on : 2013-04-10
Resolution : 1.95 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

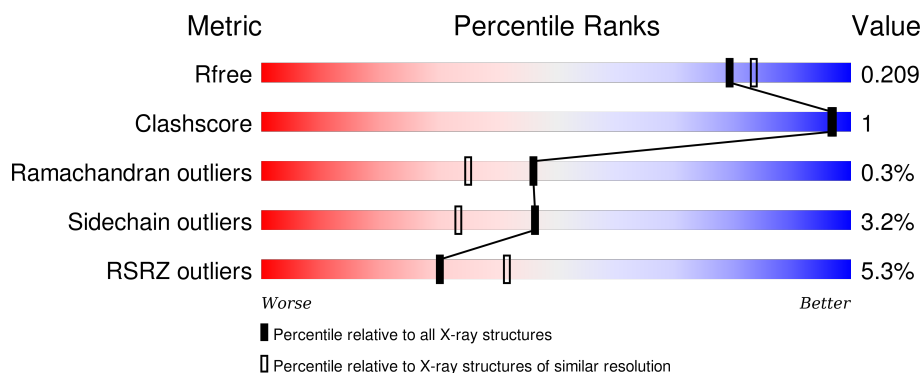
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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	1833 (1.96-1.96)
Clashscore	102246	1953 (1.96-1.96)
Ramachandran outliers	100387	1936 (1.96-1.96)
Sidechain outliers	100360	1936 (1.96-1.96)
RSRZ outliers	91569	1835 (1.96-1.96)

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	269	<div> <div>4%</div> <div>92%</div> <div>• •</div> </div>
1	B	269	<div> <div>6%</div> <div>90%</div> <div>5% 5%</div> </div>
1	C	269	<div> <div>5%</div> <div>86%</div> <div>6% 7%</div> </div>
1	D	269	<div> <div>6%</div> <div>94%</div> <div>• •</div> </div>

2 Entry composition [i](#)

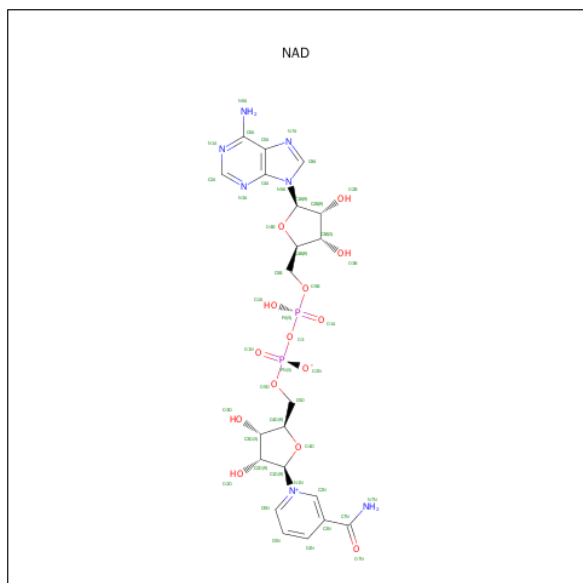
There are 4 unique types of molecules in this entry. The entry contains 8164 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH].

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	260	Total	C	N	O	S	0	2	0
			1900	1214	323	354	9			
1	B	255	Total	C	N	O	S	0	3	0
			1879	1198	321	351	9			
1	C	249	Total	C	N	O	S	0	1	0
			1833	1167	315	342	9			
1	D	263	Total	C	N	O	S	0	1	0
			1893	1199	326	358	10			

- Molecule 2 is NICOTINAMIDE-ADENINE-DINUCLEOTIDE (three-letter code: NAD) (formula: $C_{21}H_{27}N_7O_{14}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	1
			44	21	7	14	2		

Continued on next page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	B	1	Total 44	C 21	N 7	O 14	P 2	0	1
2	C	1	Total 44	C 21	N 7	O 14	P 2	0	0

-
- The chemical structure of the pyranone (PYW) molecule is a complex polycyclic system. It features a central pyranone ring (a six-membered ring with one oxygen atom and a carbonyl group) fused to several other rings. The structure includes various functional groups, including hydroxyl groups (HO), carbonyl groups (C=O), and amine groups (NH). Stereochemistry is indicated with wedged and dashed bonds. The molecule is labeled with numerous abbreviations for its components, such as CAK, CAM, CAQ, CBF, CAO, NAT, OAI, CBG, CAP, CAL, CAN, CBH, NAU, CBB, NAV, OAF, C, CA(S), CB(R), CG2, OAE, CBA, CBE, CAZ, CAB, CAA, CAR, OAH, CBD, OAX, OG1, CBK(S), CBK(R), CAD, OAJ, CAS, CBL(S), and CBL(R). The overall structure is highly branched and contains multiple chiral centers.

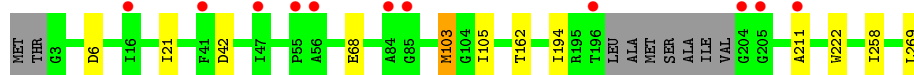
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total 39	C 27	N 4	O 8	0	1
3	B	1	Total 39	C 27	N 4	O 8	0	1
3	D	1	Total 39	C 27	N 4	O 8	0	0

- | Mol | Chain | Residues | Atoms | ZeroOcc | AltConf |
|-----|-------|----------|--------------------|---------|---------|
| 4 | A | 117 | Total O
117 117 | 0 | 0 |
| 4 | B | 100 | Total O
100 100 | 0 | 0 |
| 4 | C | 105 | Total O
105 105 | 0 | 0 |
| 4 | D | 88 | Total O
88 88 | 0 | 0 |

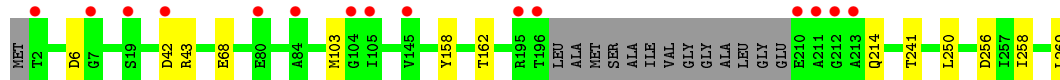
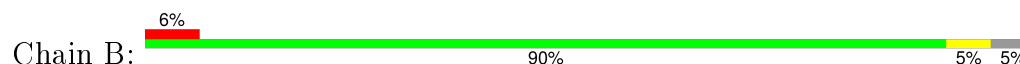
3 Residue-property plots [i](#)

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 ($RSRZ > 2$). 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.

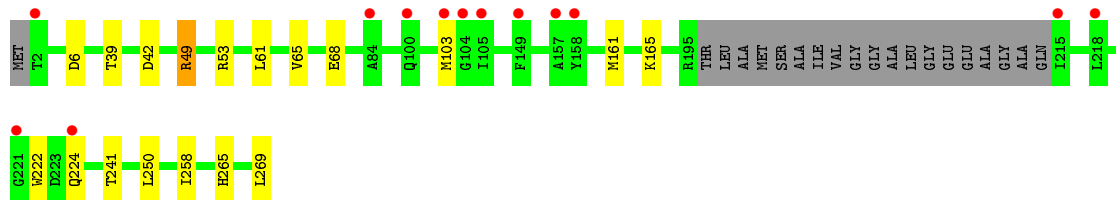
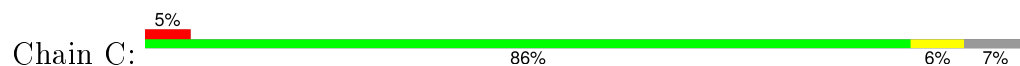
- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH]



- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH]



- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH]



- Molecule 1: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH]



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	64.85Å 110.28Å 67.52Å 90.00° 98.21° 90.00°	Depositor
Resolution (Å)	28.55 – 1.95 28.03 – 1.95	Depositor EDS
% Data completeness (in resolution range)	87.8 (28.55-1.95) 87.8 (28.03-1.95)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.43 (at 1.95Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.178 , 0.205 0.184 , 0.209	Depositor DCC
R_{free} test set	3014 reflections (5.28%)	DCC
Wilson B-factor (Å ²)	21.5	Xtriage
Anisotropy	0.376	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 54.1	EDS
Estimated twinning fraction	0.030 for l,-k,h	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 60060 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8164	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 4.29% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.52	1/1939 (0.1%)	0.64	0/2639
1	B	0.51	0/1921	0.65	0/2615
1	C	0.52	0/1871	0.64	0/2546
1	D	0.53	0/1930	0.63	0/2627
All	All	0.52	1/7661 (0.0%)	0.64	0/10427

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	103	MET	SD-CE	-5.46	1.47	1.77

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	1900	0	1861	4	0
1	B	1879	0	1831	5	0
1	C	1833	0	1791	11	0
1	D	1893	0	1838	5	0
2	A	44	0	26	0	0
2	B	44	0	26	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	44	0	26	1	0
3	A	39	0	31	1	0
3	B	39	0	31	0	0
3	D	39	0	32	1	0
4	A	117	0	0	0	0
4	B	100	0	0	0	0
4	C	105	0	0	0	0
4	D	88	0	0	0	0
All	All	8164	0	7493	20	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 1.

All (20) 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:C:49:ARG:HH12	1:C:53:ARG:HH21	1.15	0.93
1:C:49:ARG:NH1	1:C:53:ARG:HH21	1.88	0.71
1:C:49:ARG:HH12	1:C:53:ARG:NH2	1.90	0.66
1:B:158[B]:TYR:HD2	1:B:162:THR:HG1	1.56	0.52
1:B:256:ASP:OD2	1:C:265:HIS:HE1	1.94	0.51
1:A:105:ILE:HG22	1:A:211:ALA:HB2	1.93	0.50
1:D:21:ILE:HD13	1:D:235:ALA:HB1	1.93	0.50
1:B:258:ILE:HD12	1:C:258:ILE:HD12	1.93	0.49
1:D:103:MET:HE1	3:D:1270:PYW:HG22	1.95	0.48
1:A:21:ILE:HD11	1:A:194:ILE:HG13	1.96	0.47
1:A:258:ILE:HD12	1:D:258:ILE:HD12	1.98	0.46
1:C:49:ARG:CZ	1:C:49:ARG:HB3	2.46	0.45
1:B:241:THR:HG23	1:C:250:LEU:HD23	1.99	0.45
1:C:39:THR:HA	1:C:61:LEU:O	2.17	0.44
1:A:103:MET:HE1	3:A:1271[B]:PYW:HG22	2.00	0.43
1:D:224:GLN:HB3	1:D:224:GLN:HE21	1.74	0.43
1:B:250:LEU:HD23	1:C:241:THR:HG23	2.00	0.42
1:D:194:ILE:HG22	1:D:196:THR:HG23	2.00	0.42
1:C:65:VAL:HG22	2:C:1270:NAD:N1A	2.35	0.42
1:C:161:MET:HE2	1:C:165:LYS:HE2	2.02	0.41

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	Percentiles	
1	A	258/269 (96%)	249 (96%)	8 (3%)	1 (0%)	39	27
1	B	254/269 (94%)	244 (96%)	9 (4%)	1 (0%)	39	27
1	C	246/269 (91%)	237 (96%)	8 (3%)	1 (0%)	39	27
1	D	260/269 (97%)	250 (96%)	10 (4%)	0	100	100
All	All	1018/1076 (95%)	980 (96%)	35 (3%)	3 (0%)	46	35

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	42	ASP
1	C	42	ASP
1	B	42	ASP

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	185/205 (90%)	180 (97%)	5 (3%)	52	41
1	B	184/205 (90%)	178 (97%)	6 (3%)	45	32
1	C	181/205 (88%)	174 (96%)	7 (4%)	39	24
1	D	183/205 (89%)	178 (97%)	5 (3%)	52	41
All	All	733/820 (89%)	710 (97%)	23 (3%)	46	34

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	ASP
1	A	68	GLU
1	A	162	THR
1	A	222	TRP
1	A	269	LEU
1	B	6	ASP
1	B	43	ARG
1	B	68	GLU
1	B	103	MET
1	B	214	GLN
1	B	269	LEU
1	C	6	ASP
1	C	49	ARG
1	C	68	GLU
1	C	103	MET
1	C	222	TRP
1	C	224	GLN
1	C	269	LEU
1	D	6	ASP
1	D	68	GLU
1	D	162	THR
1	D	224	GLN
1	D	269	LEU

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

Mol	Chain	Res	Type
1	C	224	GLN
1	C	265	HIS
1	D	224	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](#)

6 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
2	NAD	A	1270[A]	-	38,48,48	0.58	0	47,73,73	0.91	2 (4%)
3	PYW	A	1271[B]	-	39,41,41	0.39	0	47,57,57	0.99	3 (6%)
2	NAD	B	1270[A]	-	38,48,48	0.58	0	47,73,73	0.89	1 (2%)
3	PYW	B	1271[B]	-	39,41,41	0.32	0	47,57,57	1.00	3 (6%)
2	NAD	C	1270	-	38,48,48	0.57	0	47,73,73	0.82	1 (2%)
3	PYW	D	1270	-	39,41,41	0.37	0	47,57,57	0.93	3 (6%)

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	NAD	A	1270[A]	-	-	0/22/62/62	0/5/5/5
3	PYW	A	1271[B]	-	-	0/52/54/54	0/2/3/3
2	NAD	B	1270[A]	-	-	0/22/62/62	0/5/5/5
3	PYW	B	1271[B]	-	-	2/52/54/54	0/2/3/3
2	NAD	C	1270	-	-	0/22/62/62	0/5/5/5
3	PYW	D	1270	-	-	2/52/54/54	0/2/3/3

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1270[A]	NAD	C4B-O4B-C1B	-3.80	105.55	109.72
2	A	1270[A]	NAD	C4B-O4B-C1B	-3.49	105.89	109.72
2	C	1270	NAD	C4B-O4B-C1B	-2.80	106.64	109.72
3	A	1271[B]	PYW	C-CA-N	-2.74	103.14	110.59
3	B	1271[B]	PYW	C-CA-N	-2.47	103.87	110.59
3	D	1270	PYW	CB-CA-C	2.09	114.76	110.44
2	A	1270[A]	NAD	O3-PA-O5B	2.24	108.89	102.94
3	D	1270	PYW	CAZ-CBE-CBA	2.47	126.40	124.25
3	A	1271[B]	PYW	OAI-CBG-CBH	2.52	125.71	121.46
3	D	1270	PYW	OAI-CBG-CBH	2.74	126.07	121.46
3	B	1271[B]	PYW	OAI-CBG-CBH	3.01	126.53	121.46
3	A	1271[B]	PYW	CAZ-CBE-CBA	3.47	127.26	124.25
3	B	1271[B]	PYW	CAZ-CBE-CBA	3.79	127.54	124.25

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	1271[B]	PYW	OAF-CBB-CBH-CBG
3	D	1270	PYW	OAF-CBB-CBH-CBG
3	B	1271[B]	PYW	CBG-CBH-CBB-N
3	D	1270	PYW	CBG-CBH-CBB-N

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1271[B]	PYW	1	0
2	C	1270	NAD	1	0
3	D	1270	PYW	1	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	260/269 (96%)	0.13	11 (4%)	40 51	13, 24, 47, 72	0
1	B	255/269 (94%)	0.30	15 (5%)	26 36	13, 24, 49, 89	0
1	C	249/269 (92%)	0.07	13 (5%)	31 42	12, 24, 44, 54	0
1	D	263/269 (97%)	0.14	15 (5%)	27 37	12, 23, 50, 69	0
All	All	1027/1076 (95%)	0.16	54 (5%)	30 41	12, 24, 48, 89	0

All (54) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	105	ILE	7.7
1	A	204	GLY	7.2
1	D	204	GLY	6.3
1	B	196	THR	5.7
1	B	104	GLY	5.3
1	B	2	THR	4.9
1	D	197	LEU	4.7
1	D	203	VAL	4.5
1	D	200	SER	4.3
1	A	84	ALA	4.0
1	B	211	ALA	3.7
1	D	211	ALA	3.3
1	D	41	PHE	3.1
1	D	199	MET	3.0
1	A	196	THR	3.0
1	B	213	ALA	3.0
1	C	2	THR	3.0
1	C	104	GLY	2.9
1	B	84	ALA	2.9
1	D	213	ALA	2.8
1	B	195	ARG	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	D	201	ALA	2.8
1	A	205	GLY	2.8
1	D	16	ILE	2.7
1	A	41	PHE	2.7
1	B	212	GLY	2.7
1	C	158	TYR	2.6
1	A	211	ALA	2.6
1	C	215	ILE	2.6
1	A	85	GLY	2.5
1	B	19	SER	2.4
1	A	16	ILE	2.4
1	C	103	MET	2.4
1	C	149[A]	PHE	2.4
1	B	145	VAL	2.4
1	A	47	ILE	2.3
1	C	84	ALA	2.3
1	D	47	ILE	2.3
1	C	157	ALA	2.3
1	B	42	ASP	2.2
1	C	100	GLN	2.2
1	A	55	PRO	2.2
1	C	105	ILE	2.2
1	D	195	ARG	2.1
1	D	196	THR	2.1
1	D	232	MET	2.1
1	C	218	LEU	2.1
1	B	7	GLY	2.1
1	B	210	GLU	2.1
1	A	56	ALA	2.0
1	C	221	GLY	2.0
1	D	92	VAL	2.0
1	C	224	GLN	2.0
1	B	80	GLU	2.0

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

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

6.3 Carbohydrates ⓘ

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(Å ²)	Q<0.9
2	NAD	A	1270[A]	44/44	0.86	0.18	1.11	13,21,25,27	44
2	NAD	B	1270[A]	44/44	0.89	0.17	0.59	14,19,25,30	44
3	PYW	A	1271[B]	39/39	0.91	0.14	0.28	17,23,30,31	39
3	PYW	B	1271[B]	39/39	0.91	0.13	-0.17	18,22,27,30	39
2	NAD	C	1270	44/44	0.95	0.09	-0.66	16,25,30,32	0
3	PYW	D	1270	39/39	0.95	0.10	-0.69	16,22,35,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.