



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2018 – 01:03 am GMT

PDB ID : 3FNE
Title : Crystal structure of InhA bound to triclosan derivative 17
Authors : Wang, F.
Deposited on : 2008-12-24
Resolution : 1.98 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 ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

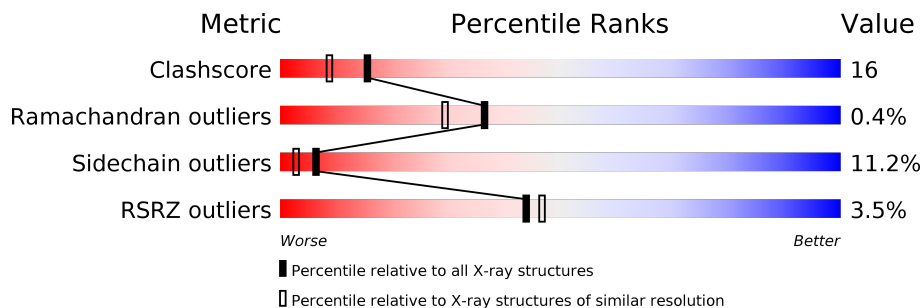
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.98 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))
Clashscore	122126	11405 (2.00-1.96)
Ramachandran outliers	120053	11281 (2.00-1.96)
Sidechain outliers	120020	11280 (2.00-1.96)
RSRZ outliers	108989	9953 (2.00-1.96)

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	 71% 23% 6% 2%
1	B	269	 70% 19% 6% 6%
1	C	269	 71% 23% 6% 2%
1	D	269	 70% 23% 6% 4%

2 Entry composition i

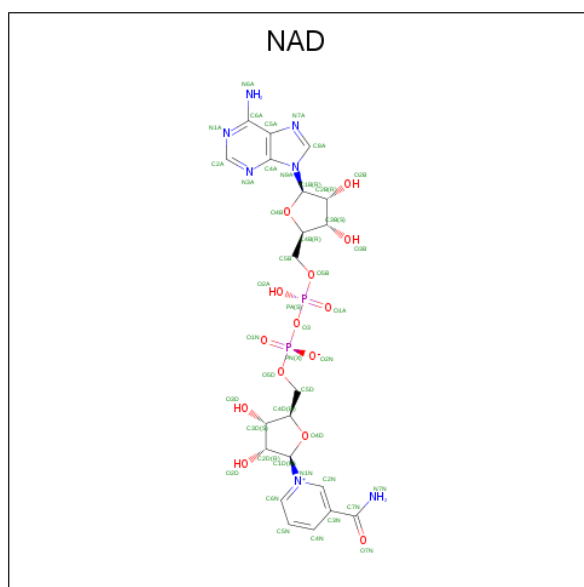
There are 4 unique types of molecules in this entry. The entry contains 8797 atoms, of which 0 are hydrogens and 0 are deuteriums.

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
			Total	C	N	O	S			
1	A	268	Total 1994	C 1263	N 348	O 373	S 10	0	0	0
1	B	254	Total 1908	C 1211	N 334	O 354	S 9	0	0	0
1	C	265	Total 1977	C 1252	N 345	O 370	S 10	0	0	0
1	D	260	Total 1947	C 1233	N 340	O 364	S 10	0	0	0

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



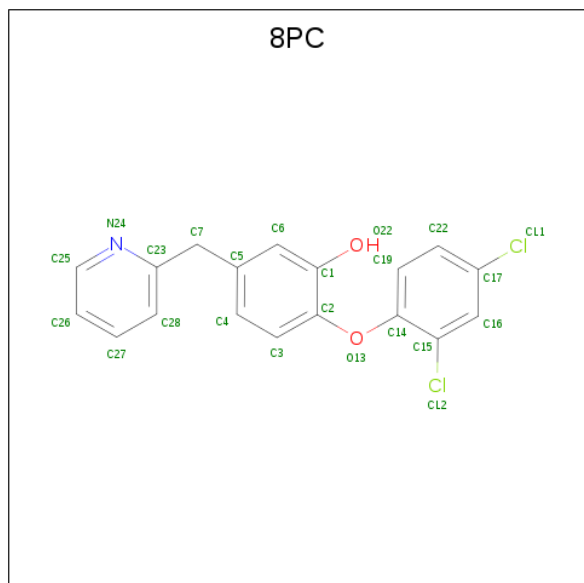
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	N	O			P
2	A	1	Total 44	C 21	N 7	O 14	P 2	0	0
2	B	1	Total 44	C 21	N 7	O 14	P 2	0	0

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

- Molecule 3 is 2-(2,4-DICHLOROPHENOXY)-5-(PYRIDIN-2-YLMETHYL)PHENOL (three-letter code: 8PC) (formula: C₁₈H₁₃Cl₂NO₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	0	0
			23	18	2	1	2		
3	B	1	Total	C	Cl	N	O	0	0
			23	18	2	1	2		
3	C	1	Total	C	Cl	N	O	0	0
			23	18	2	1	2		
3	D	1	Total	C	Cl	N	O	0	0
			23	18	2	1	2		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	201	Total	O	0	0
			201	201		
4	B	180	Total	O	0	0
			180	180		
4	C	178	Total	O	0	0
			178	178		

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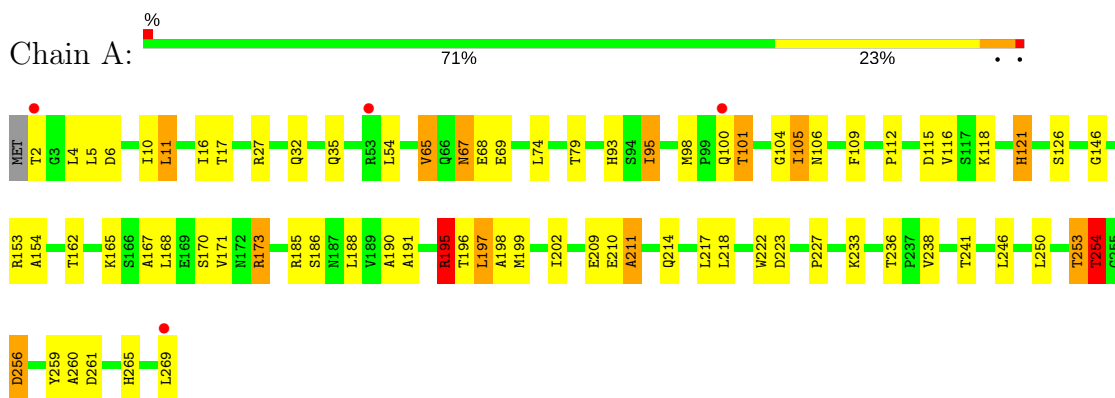
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	144	Total 144	O 144	0	0

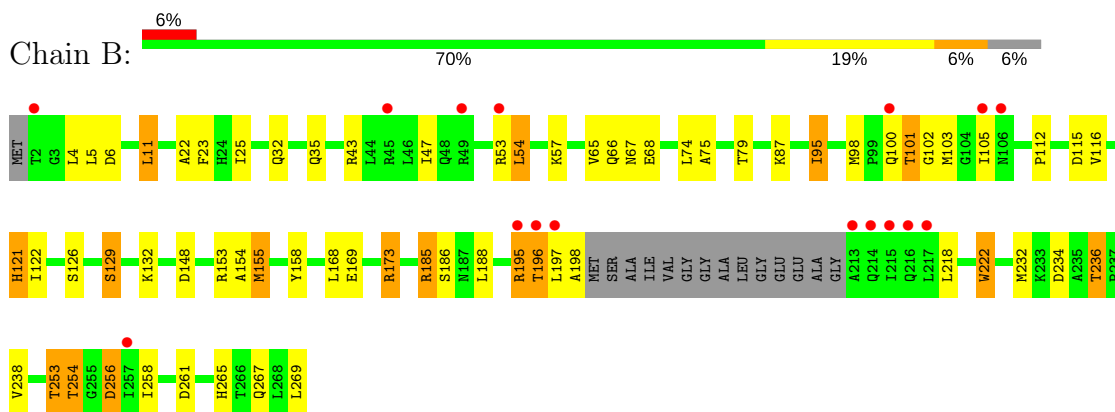
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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.

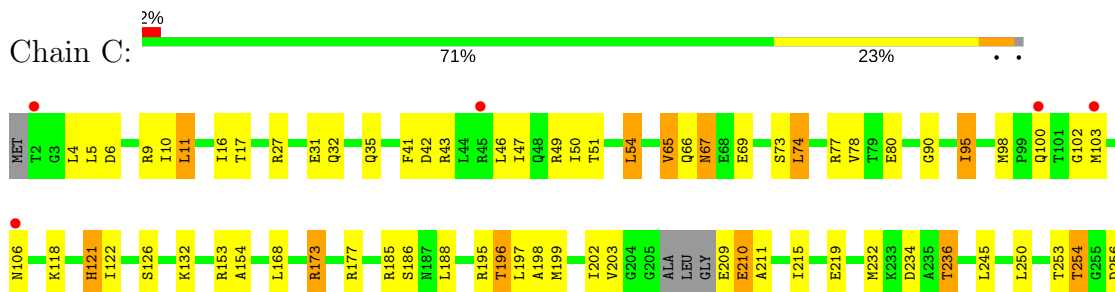
- Molecule 1: Enoyl-[acyl-carrier-protein] reductase [NADH]



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4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	125.59Å 92.34Å 103.02Å 90.00° 106.40° 90.00°	Depositor
Resolution (Å)	19.96 – 1.98 44.93 – 1.85	Depositor EDS
% Data completeness (in resolution range)	92.4 (19.96-1.98) 73.5 (44.93-1.85)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.71 (at 1.84Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.201 , 0.253 0.201 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	25.2	Xtrriage
Anisotropy	0.529	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 41.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8797	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.15% 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, 0.333 respectively for untwinned datasets, and 0.375, 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: 8PC, NAD

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	0.60	0/2032	0.83	4/2758 (0.1%)
1	B	0.61	0/1945	0.83	5/2640 (0.2%)
1	C	0.56	0/2014	0.77	2/2732 (0.1%)
1	D	0.55	0/1984	0.72	1/2691 (0.0%)
All	All	0.58	0/7975	0.79	12/10821 (0.1%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	173	ARG	NE-CZ-NH2	-13.28	113.66	120.30
1	B	173	ARG	NE-CZ-NH2	-12.13	114.24	120.30
1	B	173	ARG	NE-CZ-NH1	8.61	124.60	120.30
1	A	173	ARG	NE-CZ-NH1	7.87	124.24	120.30
1	D	11	LEU	CA-CB-CG	7.44	132.41	115.30
1	C	173	ARG	NE-CZ-NH2	-7.02	116.79	120.30
1	B	11	LEU	CA-CB-CG	6.85	131.04	115.30
1	C	11	LEU	CA-CB-CG	6.79	130.93	115.30
1	B	185	ARG	NE-CZ-NH2	-6.28	117.16	120.30
1	B	185	ARG	NE-CZ-NH1	5.60	123.10	120.30
1	A	254	THR	CB-CA-C	-5.51	96.73	111.60
1	A	11	LEU	CA-CB-CG	5.13	127.09	115.30

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	1994	0	2008	77	0
1	B	1908	0	1923	67	0
1	C	1977	0	1988	67	0
1	D	1947	0	1955	70	0
2	A	44	0	26	2	0
2	B	44	0	26	1	0
2	C	44	0	26	1	0
2	D	44	0	26	1	0
3	A	23	0	12	1	0
3	B	23	0	12	3	0
3	C	23	0	12	1	0
3	D	23	0	12	2	0
4	A	201	0	0	21	0
4	B	180	0	0	16	0
4	C	178	0	0	13	0
4	D	144	0	0	8	0
All	All	8797	0	8026	255	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 16.

All (255) 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:B:65:VAL:HG21	1:B:126:SER:HB2	1.29	1.11
1:A:27:ARG:HH22	1:A:236:THR:HG22	1.16	1.05
1:B:87:LYS:HD3	4:B:306:HOH:O	1.61	0.98
1:D:106:ASN:HB2	4:D:279:HOH:O	1.64	0.97
1:C:254:THR:HG21	4:C:271:HOH:O	1.64	0.95
1:C:219:GLU:HG3	4:C:661:HOH:O	1.69	0.92
1:A:211:ALA:HA	1:A:214:GLN:HB2	1.51	0.92
1:A:196:THR:HB	4:A:668:HOH:O	1.73	0.89
1:A:101:THR:HG21	1:A:115:ASP:OD2	1.73	0.88
1:A:186:SER:H	1:A:254:THR:HG22	1.39	0.88
1:D:186:SER:H	1:D:254:THR:HG22	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:THR:HG21	2:A:300:NAD:O1N	1.72	0.88
1:A:79:THR:HG22	4:A:669:HOH:O	1.74	0.88
1:A:106:ASN:HB2	4:A:340:HOH:O	1.70	0.88
1:B:53:ARG:HG3	4:B:667:HOH:O	1.75	0.86
1:D:199:MET:HG3	3:D:430:8PC:H4	1.56	0.86
1:B:254:THR:HG21	4:B:273:HOH:O	1.76	0.86
1:A:265:HIS:O	1:C:153:ARG:NH1	2.08	0.86
1:C:4:LEU:H	1:C:32:GLN:HE21	1.21	0.85
1:C:186:SER:H	1:C:254:THR:HG22	1.41	0.85
4:A:270:HOH:O	1:D:253:THR:HG23	1.77	0.84
1:B:65:VAL:CG2	1:B:126:SER:HB2	2.08	0.83
1:A:4:LEU:H	1:A:32:GLN:HE21	1.25	0.81
1:C:196:THR:HG21	2:C:320:NAD:O1N	1.80	0.81
1:B:57:LYS:HD2	4:B:286:HOH:O	1.78	0.81
1:B:234:ASP:OD1	1:B:236:THR:HG23	1.80	0.81
1:A:195:ARG:CG	1:A:195:ARG:HH11	1.93	0.80
1:A:27:ARG:NH2	1:A:236:THR:HG22	1.95	0.80
1:A:196:THR:HG23	1:A:198:ALA:H	1.46	0.80
1:A:27:ARG:HH22	1:A:236:THR:CG2	1.93	0.80
1:B:4:LEU:H	1:B:32:GLN:HE21	1.31	0.79
1:D:49:ARG:HD3	4:D:288:HOH:O	1.83	0.79
1:A:254:THR:HG21	4:A:302:HOH:O	1.83	0.77
1:C:209:GLU:O	1:C:210:GLU:HB2	1.85	0.76
1:D:103:MET:O	1:D:157:ALA:O	2.04	0.75
1:C:186:SER:H	1:C:254:THR:CG2	1.98	0.75
1:D:185:ARG:HD2	4:D:322:HOH:O	1.86	0.74
1:A:256:ASP:OD2	1:D:265:HIS:HE1	1.71	0.74
1:A:185:ARG:HG2	1:A:254:THR:HG23	1.70	0.74
1:B:68:GLU:HG3	4:B:281:HOH:O	1.87	0.74
1:A:259:TYR:O	1:D:253:THR:HG22	1.89	0.73
1:C:195:ARG:HA	1:C:199:MET:HE2	1.71	0.72
1:A:196:THR:HG22	4:A:283:HOH:O	1.90	0.71
1:A:173:ARG:HB3	1:B:154:ALA:HB2	1.73	0.71
1:C:106:ASN:HB2	4:C:297:HOH:O	1.90	0.71
1:C:103:MET:HE2	1:C:202:ILE:HG12	1.71	0.71
1:B:79:THR:HG22	4:B:312:HOH:O	1.90	0.70
1:C:215:ILE:HG23	1:C:232:MET:HE1	1.72	0.70
1:B:195:ARG:HE	1:B:232:MET:HE2	1.56	0.70
1:C:195:ARG:HA	1:C:199:MET:CE	2.23	0.69
1:C:234:ASP:OD1	1:C:236:THR:HG23	1.91	0.69
1:D:254:THR:HG21	4:D:271:HOH:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4:LEU:H	1:C:32:GLN:NE2	1.92	0.68
1:B:265:HIS:O	1:D:153:ARG:NH1	2.27	0.68
1:C:65:VAL:HG11	1:C:126:SER:CB	2.24	0.68
1:C:195:ARG:NH2	4:C:490:HOH:O	2.27	0.68
1:A:65:VAL:HG11	1:A:95:ILE:HD11	1.76	0.67
1:B:153:ARG:HD2	4:B:487:HOH:O	1.94	0.67
1:D:195:ARG:HG2	1:D:232:MET:HG2	1.75	0.66
1:B:155:MET:CE	1:D:268:LEU:HD22	2.26	0.66
1:C:103:MET:CE	1:C:202:ILE:HG12	2.26	0.65
1:C:245:LEU:HD11	1:C:258:ILE:HD13	1.77	0.65
1:A:185:ARG:CG	1:A:254:THR:HG23	2.26	0.65
1:D:74:LEU:HD13	1:D:134:LEU:HD21	1.78	0.65
1:C:198:ALA:HB1	3:C:420:8PC:C15	2.27	0.65
1:A:210:GLU:O	1:A:211:ALA:HB3	1.97	0.64
1:B:218:LEU:HA	1:D:269:LEU:HD21	1.78	0.64
1:D:4:LEU:H	1:D:32:GLN:HG3	1.62	0.64
1:B:57:LYS:CD	4:B:286:HOH:O	2.40	0.64
1:A:118:LYS:HE3	4:A:364:HOH:O	1.98	0.64
1:D:121:HIS:HD2	4:D:440:HOH:O	1.78	0.63
1:A:253:THR:HG22	4:D:275:HOH:O	1.98	0.63
1:B:101:THR:HG21	1:B:115:ASP:OD2	1.99	0.63
1:A:195:ARG:HG3	1:A:195:ARG:HH11	1.63	0.63
1:C:195:ARG:HG2	1:C:199:MET:HE1	1.80	0.63
1:A:153:ARG:NH2	1:C:153:ARG:HE	1.96	0.63
1:C:69:GLU:HG3	4:C:583:HOH:O	1.98	0.63
1:D:4:LEU:N	1:D:32:GLN:HG3	2.14	0.62
1:D:196:THR:HG21	2:D:330:NAD:O1N	1.99	0.62
1:D:79:THR:HG22	4:D:324:HOH:O	1.99	0.62
1:A:195:ARG:HH11	1:A:195:ARG:HG2	1.64	0.62
1:C:80:GLU:HB3	4:C:630:HOH:O	1.98	0.62
1:B:196:THR:HG23	1:B:198:ALA:H	1.65	0.61
1:D:101:THR:HG21	1:D:115:ASP:OD2	2.01	0.60
1:D:168:LEU:HD13	1:D:188:LEU:HD21	1.83	0.60
1:A:35:GLN:HB2	4:A:672:HOH:O	2.00	0.60
1:A:79:THR:CG2	4:A:669:HOH:O	2.42	0.60
1:C:65:VAL:CG1	1:C:126:SER:HB2	2.32	0.60
1:B:256:ASP:OD2	1:C:265:HIS:HE1	1.85	0.60
1:C:65:VAL:CG1	1:C:126:SER:CB	2.79	0.60
1:B:173:ARG:NH2	4:B:455:HOH:O	2.07	0.60
1:B:186:SER:H	1:B:254:THR:CG2	2.15	0.59
1:B:153:ARG:CZ	1:D:153:ARG:HE	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:ARG:HE	1:B:232:MET:CE	2.15	0.59
1:B:155:MET:HE2	1:D:268:LEU:HD22	1.85	0.59
1:C:209:GLU:N	4:C:660:HOH:O	2.34	0.59
1:B:265:HIS:HE1	1:C:256:ASP:OD2	1.85	0.58
1:A:154:ALA:HB2	1:B:173:ARG:HB3	1.84	0.58
1:A:105:ILE:CD1	1:A:211:ALA:HB3	2.34	0.58
1:A:79:THR:HB	4:A:688:HOH:O	2.02	0.58
1:D:95:ILE:HD12	1:D:122:ILE:HG23	1.86	0.58
1:D:196:THR:HG23	1:D:198:ALA:H	1.67	0.57
1:A:109:PHE:HB3	1:B:132:LYS:HG3	1.87	0.57
1:A:223:ASP:HB3	4:A:408:HOH:O	2.03	0.57
1:B:185:ARG:HD2	4:B:352:HOH:O	2.05	0.57
1:B:121:HIS:HD2	4:B:337:HOH:O	1.88	0.57
1:D:83:GLY:O	1:D:86:ASN:HB2	2.04	0.57
1:B:158:TYR:HB2	3:B:410:8PC:H27	1.87	0.57
1:A:199:MET:CE	1:A:199:MET:HA	2.35	0.56
1:B:196:THR:HG21	2:B:310:NAD:O1N	2.04	0.56
1:A:210:GLU:O	1:A:211:ALA:CB	2.53	0.56
1:C:43:ARG:HB3	1:C:46:LEU:HG	1.86	0.56
1:C:196:THR:HG22	1:C:199:MET:H	1.69	0.56
1:B:79:THR:CG2	4:B:312:HOH:O	2.52	0.55
1:B:153:ARG:CZ	1:D:153:ARG:HH21	2.19	0.55
1:A:185:ARG:HA	1:A:254:THR:CG2	2.37	0.55
1:C:173:ARG:NH2	4:C:310:HOH:O	2.15	0.55
1:C:16:ILE:HG23	1:C:17:THR:HG23	1.88	0.54
1:B:66:GLN:HE21	1:B:121:HIS:CD2	2.25	0.54
1:B:98:MET:HE2	1:B:102:GLY:HA3	1.88	0.54
1:D:185:ARG:HA	1:D:254:THR:CG2	2.38	0.54
1:A:4:LEU:H	1:A:32:GLN:NE2	2.02	0.54
1:A:98:MET:CE	1:A:116:VAL:HA	2.38	0.54
1:B:222:TRP:HE1	1:B:261:ASP:HB2	1.72	0.54
1:C:65:VAL:HG11	1:C:126:SER:HB2	1.90	0.54
1:D:66:GLN:HE21	1:D:121:HIS:CD2	2.26	0.53
1:B:186:SER:H	1:B:254:THR:HG23	1.73	0.53
1:B:22:ALA:HA	1:B:25:ILE:HD12	1.89	0.53
1:C:27:ARG:O	1:C:31:GLU:HG3	2.09	0.53
1:C:185:ARG:HA	1:C:254:THR:HG23	1.90	0.53
1:B:258:ILE:HD12	1:B:258:ILE:N	2.24	0.52
1:B:155:MET:HE2	1:D:268:LEU:CD2	2.40	0.52
1:A:67:ASN:HD21	1:A:69:GLU:HB3	1.74	0.52
1:C:46:LEU:O	1:C:50:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:95:ILE:CD1	1:D:122:ILE:HG23	2.40	0.52
1:B:148:ASP:OD2	1:B:169:GLU:OE2	2.28	0.51
1:C:65:VAL:CG1	1:C:126:SER:HB3	2.40	0.51
1:C:66:GLN:HE21	1:C:121:HIS:CD2	2.27	0.51
1:C:185:ARG:CD	4:C:311:HOH:O	2.58	0.51
1:A:167:ALA:O	1:A:171:VAL:HG23	2.11	0.51
1:A:105:ILE:HD11	1:A:210:GLU:O	2.11	0.51
1:B:4:LEU:H	1:B:32:GLN:NE2	2.06	0.50
1:A:227:PRO:O	1:D:180:GLY:HA3	2.11	0.50
1:B:153:ARG:NH2	1:D:153:ARG:HE	2.09	0.50
1:D:225:ARG:HD2	1:D:267:GLN:O	2.12	0.50
1:A:118:LYS:CE	4:A:364:HOH:O	2.56	0.50
1:A:121:HIS:HD2	4:A:339:HOH:O	1.94	0.50
1:A:185:ARG:HD3	4:A:350:HOH:O	2.12	0.50
1:C:10:ILE:HG12	1:C:90:GLY:HA3	1.92	0.50
1:D:63:LEU:HD13	1:D:74:LEU:HG	1.92	0.50
1:D:98:MET:HE3	1:D:116:VAL:HA	1.94	0.49
1:B:95:ILE:HD12	1:B:122:ILE:HG23	1.94	0.49
1:B:185:ARG:HA	1:B:254:THR:HG23	1.95	0.49
1:B:198:ALA:HB1	3:B:410:8PC:C15	2.43	0.49
1:D:4:LEU:H	1:D:32:GLN:HE21	1.60	0.48
1:D:148:ASP:OD2	1:D:169:GLU:OE2	2.31	0.48
1:A:265:HIS:HD2	4:A:285:HOH:O	1.96	0.48
1:A:253:THR:HB	1:D:259:TYR:O	2.14	0.48
1:B:267:GLN:OE1	1:C:177:ARG:HD2	2.14	0.48
1:C:65:VAL:HG11	1:C:126:SER:HB3	1.95	0.48
1:D:105:ILE:HB	1:D:211:ALA:HB2	1.96	0.48
1:A:222:TRP:HE1	1:A:261:ASP:HB2	1.79	0.48
1:B:75:ALA:O	1:B:79:THR:HG23	2.13	0.48
1:A:104:GLY:HA3	1:A:202:ILE:HD12	1.96	0.48
1:B:53:ARG:NH1	4:B:340:HOH:O	2.46	0.47
1:B:23:PHE:CE2	1:B:54:LEU:HD13	2.50	0.47
1:D:65:VAL:CG1	1:D:126:SER:HB2	2.44	0.47
1:A:153:ARG:HD2	4:A:369:HOH:O	2.14	0.47
1:C:154:ALA:HB2	1:D:173:ARG:HB3	1.96	0.47
1:B:129:SER:HB3	4:B:577:HOH:O	2.13	0.47
1:C:100:GLN:HB2	4:C:315:HOH:O	2.15	0.47
1:C:185:ARG:HA	1:C:254:THR:CG2	2.44	0.47
1:A:65:VAL:HG21	1:A:126:SER:HB2	1.96	0.47
1:A:233:LYS:HD2	4:A:388:HOH:O	2.14	0.46
1:B:101:THR:HG21	1:B:112:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:195:ARG:HG3	1:C:232:MET:HE3	1.96	0.46
1:B:103:MET:SD	3:B:410:8PC:H22	2.55	0.46
1:B:195:ARG:HA	1:B:195:ARG:HD3	1.73	0.46
1:D:68:GLU:CG	1:D:69:GLU:N	2.78	0.46
1:A:10:ILE:HD13	1:A:246:LEU:HD13	1.97	0.46
1:B:153:ARG:NE	1:D:153:ARG:HH21	2.13	0.46
1:D:65:VAL:HG11	1:D:126:SER:CB	2.46	0.46
1:C:67:ASN:C	1:C:67:ASN:HD22	2.19	0.45
1:A:105:ILE:HD12	1:A:211:ALA:HB3	1.98	0.45
1:D:258:ILE:N	1:D:258:ILE:HD12	2.31	0.45
1:D:185:ARG:HB3	1:D:254:THR:HG23	1.99	0.45
1:C:9:ARG:NH1	1:C:35:GLN:OE1	2.50	0.45
1:A:196:THR:CB	4:A:668:HOH:O	2.47	0.45
1:A:199:MET:HA	1:A:199:MET:HE3	1.99	0.45
1:D:4:LEU:HB3	1:D:32:GLN:CG	2.47	0.45
1:A:223:ASP:CB	4:A:408:HOH:O	2.64	0.45
1:C:66:GLN:OE1	1:C:118:LYS:NZ	2.50	0.45
1:D:196:THR:HG22	1:D:199:MET:HB2	1.99	0.45
1:D:65:VAL:CG1	1:D:126:SER:CB	2.94	0.45
1:A:105:ILE:HD11	1:A:211:ALA:HB3	1.98	0.44
1:D:4:LEU:HB3	1:D:32:GLN:HG2	1.98	0.44
1:A:101:THR:HG21	1:A:112:PRO:HD2	1.99	0.44
1:A:98:MET:HE1	1:A:116:VAL:HA	1.98	0.44
1:D:126:SER:HA	1:D:129:SER:OG	2.18	0.44
1:A:165:LYS:HE2	4:A:683:HOH:O	2.17	0.44
1:C:47:ILE:O	1:C:51:THR:HG23	2.17	0.44
1:C:51:THR:O	1:C:54:LEU:HB2	2.17	0.44
1:A:191:ALA:HB3	2:A:300:NAD:C5N	2.48	0.44
1:C:132:LYS:HG3	1:D:109:PHE:HB3	2.00	0.44
1:D:67:ASN:HD22	1:D:67:ASN:C	2.21	0.43
1:A:202:ILE:HD13	1:A:202:ILE:HA	1.94	0.43
1:C:185:ARG:HD3	4:C:311:HOH:O	2.17	0.43
1:C:41:PHE:C	1:C:41:PHE:CD1	2.90	0.43
1:B:98:MET:CE	1:B:116:VAL:HA	2.49	0.43
1:A:65:VAL:HG11	1:A:95:ILE:CD1	2.46	0.43
1:C:203:VAL:HG12	1:C:211:ALA:HA	2.00	0.43
1:D:220:GLU:O	1:D:224:GLN:HG3	2.18	0.43
3:D:430:8PC:H25	4:D:673:HOH:O	2.18	0.43
1:C:95:ILE:HD12	1:C:122:ILE:HG23	2.01	0.43
1:C:185:ARG:CA	1:C:254:THR:HG23	2.48	0.43
1:D:185:ARG:CB	1:D:254:THR:HG23	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:75:ALA:O	1:D:79:THR:HG23	2.18	0.43
1:A:190:ALA:HB3	1:A:259:TYR:CD2	2.54	0.42
1:B:155:MET:HG3	1:B:218:LEU:HD11	2.00	0.42
1:C:74:LEU:O	1:C:78:VAL:HG23	2.19	0.42
1:D:78:VAL:O	1:D:82:ILE:HG12	2.19	0.42
1:D:196:THR:HG22	1:D:199:MET:H	1.83	0.42
1:B:265:HIS:O	1:D:153:ARG:HD3	2.19	0.42
1:D:68:GLU:HG2	1:D:69:GLU:N	2.34	0.42
1:C:98:MET:HE2	1:C:102:GLY:HA3	2.00	0.42
1:D:74:LEU:O	1:D:78:VAL:HG23	2.19	0.42
1:A:16:ILE:HG23	1:A:17:THR:HG23	2.01	0.42
1:A:17:THR:HG21	1:A:197:LEU:HD23	2.01	0.42
1:D:232:MET:HB2	1:D:232:MET:HE2	1.96	0.42
1:B:153:ARG:NH1	4:B:329:HOH:O	2.52	0.42
1:A:101:THR:CG2	1:A:115:ASP:OD2	2.58	0.41
1:A:27:ARG:NH2	1:A:236:THR:CG2	2.71	0.41
1:A:93:HIS:O	1:A:146:GLY:HA2	2.20	0.41
1:A:199:MET:HE1	3:A:400:8PC:H22	2.02	0.41
1:A:68:GLU:HB3	4:A:355:HOH:O	2.19	0.41
1:B:65:VAL:HG11	1:B:95:ILE:HD11	2.03	0.41
1:C:121:HIS:HD2	4:C:410:HOH:O	2.03	0.41
1:C:65:VAL:HG13	1:C:126:SER:CB	2.50	0.41
1:B:43:ARG:O	1:B:47:ILE:HG13	2.20	0.41
1:B:153:ARG:NH2	1:D:153:ARG:NE	2.68	0.41
1:D:219:GLU:OE2	1:D:232:MET:SD	2.78	0.41
1:B:186:SER:H	1:B:254:THR:HG22	1.86	0.41
1:B:253:THR:HB	1:C:259:TYR:O	2.21	0.41
1:C:210:GLU:N	4:C:670:HOH:O	2.54	0.41
1:D:196:THR:HG23	1:D:198:ALA:N	2.36	0.41
1:A:186:SER:N	1:A:254:THR:HG22	2.20	0.40
1:A:2:THR:O	1:A:6:ASP:OD2	2.40	0.40
1:A:241:THR:HG21	1:A:260:ALA:HB2	2.03	0.40
1:C:73:SER:O	1:C:77:ARG:HG3	2.21	0.40
1:D:101:THR:HG21	1:D:112:PRO:HD2	2.03	0.40
1:B:236:THR:HG21	4:B:563:HOH:O	2.21	0.40
1:C:16:ILE:HD11	1:C:43:ARG:HD3	2.02	0.40
1:D:44:LEU:HD21	1:D:62:GLU:HB2	2.02	0.40
1:B:218:LEU:HA	1:D:269:LEU:CD2	2.50	0.40
1:C:65:VAL:HG13	1:C:126:SER:HB2	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	Percentiles	
1	A	266/269 (99%)	252 (95%)	12 (4%)	2 (1%)	21	13
1	B	250/269 (93%)	237 (95%)	12 (5%)	1 (0%)	36	29
1	C	261/269 (97%)	246 (94%)	14 (5%)	1 (0%)	36	29
1	D	256/269 (95%)	238 (93%)	18 (7%)	0	100	100
All	All	1033/1076 (96%)	973 (94%)	56 (5%)	4 (0%)	36	29

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	210	GLU
1	B	195	ARG
1	A	211	ALA
1	A	195	ARG

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	203/205 (99%)	177 (87%)	26 (13%)	5	2
1	B	196/205 (96%)	171 (87%)	25 (13%)	5	2
1	C	202/205 (98%)	182 (90%)	20 (10%)	8	4
1	D	199/205 (97%)	180 (90%)	19 (10%)	9	4
All	All	800/820 (98%)	710 (89%)	90 (11%)	6	3

All (90) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LEU
1	A	11	LEU
1	A	54	LEU
1	A	65	VAL
1	A	67	ASN
1	A	74	LEU
1	A	95	ILE
1	A	100	GLN
1	A	101	THR
1	A	105	ILE
1	A	121	HIS
1	A	162	THR
1	A	168	LEU
1	A	170	SER
1	A	188	LEU
1	A	195	ARG
1	A	197	LEU
1	A	209	GLU
1	A	217	LEU
1	A	218	LEU
1	A	238	VAL
1	A	250	LEU
1	A	253	THR
1	A	254	THR
1	A	256	ASP
1	A	269	LEU
1	B	5	LEU
1	B	6	ASP
1	B	11	LEU
1	B	35	GLN
1	B	54	LEU
1	B	67	ASN
1	B	74	LEU
1	B	95	ILE
1	B	100	GLN
1	B	101	THR
1	B	105	ILE
1	B	121	HIS
1	B	129	SER
1	B	155	MET
1	B	168	LEU
1	B	188	LEU

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Mol	Chain	Res	Type
1	B	196	THR
1	B	197	LEU
1	B	222	TRP
1	B	236	THR
1	B	238	VAL
1	B	253	THR
1	B	254	THR
1	B	256	ASP
1	B	269	LEU
1	C	5	LEU
1	C	6	ASP
1	C	11	LEU
1	C	42	ASP
1	C	49	ARG
1	C	54	LEU
1	C	65	VAL
1	C	67	ASN
1	C	74	LEU
1	C	95	ILE
1	C	121	HIS
1	C	168	LEU
1	C	188	LEU
1	C	196	THR
1	C	197	LEU
1	C	236	THR
1	C	250	LEU
1	C	253	THR
1	C	254	THR
1	C	269	LEU
1	D	5	LEU
1	D	11	LEU
1	D	54	LEU
1	D	65	VAL
1	D	67	ASN
1	D	74	LEU
1	D	95	ILE
1	D	100	GLN
1	D	118	LYS
1	D	123	SER
1	D	168	LEU
1	D	188	LEU
1	D	196	THR

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Mol	Chain	Res	Type
1	D	197	LEU
1	D	222	TRP
1	D	232	MET
1	D	236	THR
1	D	250	LEU
1	D	254	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (28) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	GLN
1	A	67	ASN
1	A	86	ASN
1	A	100	GLN
1	A	121	HIS
1	A	187	ASN
1	A	216	GLN
1	A	265	HIS
1	B	32	GLN
1	B	35	GLN
1	B	67	ASN
1	B	86	ASN
1	B	121	HIS
1	B	187	ASN
1	B	224	GLN
1	B	265	HIS
1	C	32	GLN
1	C	67	ASN
1	C	86	ASN
1	C	121	HIS
1	C	187	ASN
1	C	265	HIS
1	D	32	GLN
1	D	66	GLN
1	D	67	ASN
1	D	86	ASN
1	D	187	ASN
1	D	265	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

8 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	300	-	40,48,48	1.51	3 (7%)	44,73,73	1.90	4 (9%)
3	8PC	A	400	-	25,25,25	0.70	0	33,34,34	1.10	3 (9%)
2	NAD	B	310	-	40,48,48	1.63	3 (7%)	44,73,73	1.97	3 (6%)
3	8PC	B	410	-	25,25,25	0.80	2 (8%)	33,34,34	0.99	2 (6%)
2	NAD	C	320	-	40,48,48	1.57	3 (7%)	44,73,73	2.03	5 (11%)
3	8PC	C	420	-	25,25,25	0.88	2 (8%)	33,34,34	1.03	2 (6%)
2	NAD	D	330	-	40,48,48	1.64	3 (7%)	44,73,73	2.05	6 (13%)
3	8PC	D	430	-	25,25,25	0.68	0	33,34,34	1.29	5 (15%)

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	300	-	-	0/22/62/62	0/5/5/5
3	8PC	A	400	-	-	0/8/8/8	0/3/3/3
2	NAD	B	310	-	-	0/22/62/62	0/5/5/5
3	8PC	B	410	-	-	0/8/8/8	0/3/3/3
2	NAD	C	320	-	-	0/22/62/62	0/5/5/5
3	8PC	C	420	-	-	0/8/8/8	0/3/3/3
2	NAD	D	330	-	-	0/22/62/62	0/5/5/5
3	8PC	D	430	-	-	0/8/8/8	0/3/3/3

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	420	8PC	C17-CL1	2.06	1.79	1.74
3	B	410	8PC	C17-CL1	2.06	1.79	1.74
2	B	310	NAD	C2A-N1A	2.21	1.38	1.33
3	B	410	8PC	C15-CL2	2.34	1.79	1.73
3	C	420	8PC	C15-CL2	2.40	1.79	1.73
2	D	330	NAD	C2A-N1A	2.57	1.38	1.33
2	C	320	NAD	C2A-N1A	2.61	1.38	1.33
2	A	300	NAD	C2A-N1A	2.77	1.39	1.33
2	B	310	NAD	C2A-N3A	3.86	1.38	1.32
2	A	300	NAD	C2A-N3A	3.87	1.38	1.32
2	C	320	NAD	C2A-N3A	3.92	1.38	1.32
2	D	330	NAD	C2A-N3A	4.16	1.38	1.32
2	A	300	NAD	O7N-C7N	7.28	1.38	1.24
2	C	320	NAD	O7N-C7N	7.51	1.39	1.24
2	D	330	NAD	O7N-C7N	7.82	1.40	1.24
2	B	310	NAD	O7N-C7N	8.21	1.40	1.24

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	310	NAD	N3A-C2A-N1A	-11.43	119.08	128.86
2	D	330	NAD	N3A-C2A-N1A	-10.60	119.79	128.86
2	A	300	NAD	N3A-C2A-N1A	-10.25	120.09	128.86
2	C	320	NAD	N3A-C2A-N1A	-9.77	120.50	128.86
2	C	320	NAD	C4B-O4B-C1B	-4.07	105.59	109.83
3	D	430	8PC	C16-C17-CL1	-3.28	114.96	119.15
2	D	330	NAD	C4B-O4B-C1B	-3.24	106.45	109.83
2	A	300	NAD	PN-O3-PA	-3.04	122.40	132.63
2	D	330	NAD	O7N-C7N-C3N	-2.97	115.90	119.62
2	A	300	NAD	C4B-O4B-C1B	-2.78	106.92	109.83
2	C	320	NAD	O7N-C7N-N7N	-2.66	118.74	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	310	NAD	PN-O3-PA	-2.50	124.22	132.63
2	C	320	NAD	C4A-C5A-N7A	-2.47	107.02	109.41
2	D	330	NAD	C1B-N9A-C4A	-2.17	122.89	126.64
3	D	430	8PC	C16-C15-CL2	-2.12	115.12	118.48
3	B	410	8PC	C2-O13-C14	2.03	123.03	118.04
3	D	430	8PC	C25-N24-C23	2.13	120.24	117.40
3	C	420	8PC	C7-C23-N24	2.26	120.27	117.46
2	B	310	NAD	C3N-C7N-N7N	2.40	120.55	117.76
3	A	400	8PC	C25-N24-C23	2.51	120.76	117.40
3	C	420	8PC	C25-N24-C23	2.58	120.85	117.40
3	A	400	8PC	C14-C15-CL2	2.60	122.47	119.42
3	A	400	8PC	C2-O13-C14	2.63	124.48	118.04
2	D	330	NAD	C4D-O4D-C1D	2.69	112.64	109.83
3	D	430	8PC	C22-C17-CL1	2.80	123.98	119.35
3	D	430	8PC	C14-C15-CL2	2.90	122.83	119.42
2	A	300	NAD	C3N-C7N-N7N	2.97	121.21	117.76
3	B	410	8PC	C25-N24-C23	3.09	121.53	117.40
2	D	330	NAD	C3N-C7N-N7N	4.21	122.65	117.76
2	C	320	NAD	C3N-C7N-N7N	4.85	123.39	117.76

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

8 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	300	NAD	2	0
3	A	400	8PC	1	0
2	B	310	NAD	1	0
3	B	410	8PC	3	0
2	C	320	NAD	1	0
3	C	420	8PC	1	0
2	D	330	NAD	1	0
3	D	430	8PC	2	0

5.7 Other polymers [\(i\)](#)

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	268/269 (99%)	-0.15	4 (1%) 73 75	22, 31, 41, 52	0
1	B	254/269 (94%)	0.06	16 (6%) 20 22	20, 30, 51, 72	0
1	C	265/269 (98%)	-0.07	5 (1%) 66 68	23, 33, 46, 54	0
1	D	260/269 (96%)	0.08	12 (4%) 32 35	24, 35, 54, 77	0
All	All	1047/1076 (97%)	-0.02	37 (3%) 44 47	20, 32, 48, 77	0

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	2	THR	6.3
1	D	208	GLY	5.5
1	B	197	LEU	5.5
1	B	2	THR	5.1
1	B	105	ILE	4.7
1	D	105	ILE	4.6
1	D	211	ALA	4.6
1	B	213	ALA	4.3
1	B	214	GLN	4.3
1	D	210	GLU	3.7
1	B	215	ILE	3.6
1	D	199	MET	3.6
1	B	45	ARG	3.1
1	B	217	LEU	3.0
1	B	257	ILE	3.0
1	C	106	ASN	2.9
1	D	2	THR	2.8
1	A	2	THR	2.8
1	D	209	GLU	2.8
1	D	197	LEU	2.7
1	A	269	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	100	GLN	2.7
1	B	196	THR	2.6
1	B	49	ARG	2.4
1	B	195	ARG	2.3
1	C	103	MET	2.3
1	B	216	GLN	2.2
1	D	45	ARG	2.2
1	D	269	LEU	2.2
1	C	45	ARG	2.1
1	C	100	GLN	2.1
1	B	106	ASN	2.1
1	D	198	ALA	2.1
1	D	257	ILE	2.1
1	B	53	ARG	2.1
1	B	100	GLN	2.0
1	A	53	ARG	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. 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	B-factors(Å ²)	Q<0.9
3	8PC	B	410	23/23	0.85	0.18	59,60,61,62	0
3	8PC	D	430	23/23	0.91	0.12	44,47,48,48	0
2	NAD	B	310	44/44	0.93	0.10	34,45,49,49	0
3	8PC	C	420	23/23	0.94	0.08	36,37,38,38	0
2	NAD	D	330	44/44	0.95	0.08	33,36,40,41	0
3	8PC	A	400	23/23	0.95	0.09	28,34,36,37	0
2	NAD	A	300	44/44	0.97	0.07	22,29,32,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	NAD	C	320	44/44	0.97	0.07	22,30,34,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.