



Full wwPDB X-ray Structure Validation Report i

Jan 31, 2016 – 09:26 PM GMT

PDB ID : 1OXU
Title : Crystal structure of GlcV, the ABC-ATPase of the glucose ABC transporter from *Sulfolobus solfataricus*
Authors : Verdon, G.; Albers, S.V.; Dijkstra, B.W.; Driessens, A.J.; Thunnissen, A.M.
Deposited on : 2003-04-03
Resolution : 2.10 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 i symbol.

The following versions of software and data (see [references](#) ①) 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

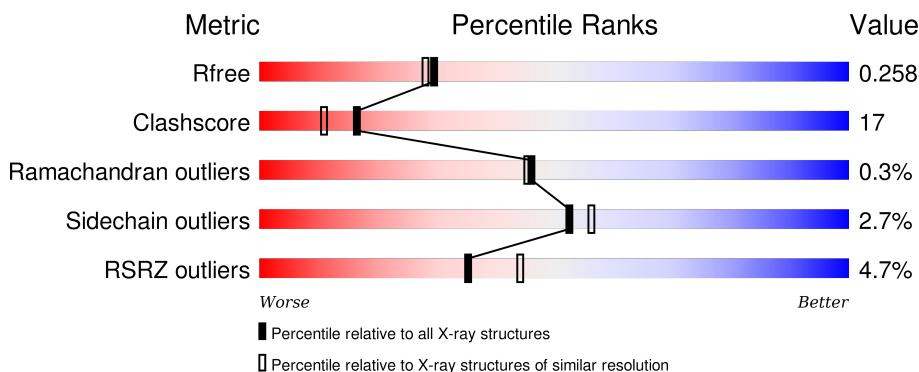
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

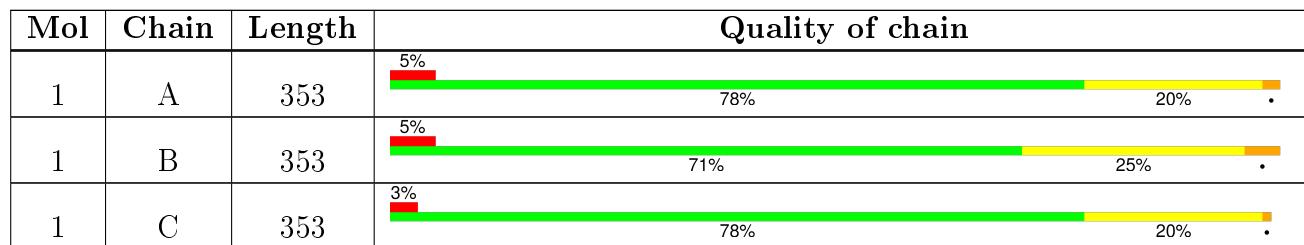
The reported resolution of this entry is 2.10 Å.

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	3939 (2.10-2.10)
Clashscore	102246	4460 (2.10-2.10)
Ramachandran outliers	100387	4413 (2.10-2.10)
Sidechain outliers	100360	4414 (2.10-2.10)
RSRZ outliers	91569	3948 (2.10-2.10)

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 <=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.



The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	IOD	A	2016	-	-	X	-
3	IOD	A	2022	-	-	-	X
3	IOD	A	2339	-	-	X	-
3	IOD	A	2387	-	-	X	-
3	IOD	B	2017	-	-	X	-
3	IOD	B	2019	-	-	X	-
3	IOD	B	2037	-	-	X	-
3	IOD	B	2218	-	-	X	-
3	IOD	C	2004	-	-	X	-
3	IOD	C	2020	-	-	X	-
3	IOD	C	2233	-	-	X	-
3	IOD	C	2237	-	-	X	-
3	IOD	C	2541	-	-	X	-

2 Entry composition [\(i\)](#)

There are 5 unique types of molecules in this entry. The entry contains 9045 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 ABC transporter, ATP binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	353	Total	C 2711	N 1737	O 468	S 500	6	0	0
1	B	353	Total	C 2697	N 1728	O 466	S 497	6	0	1
1	C	353	Total	C 2683	N 1715	O 462	S 500	6	0	2

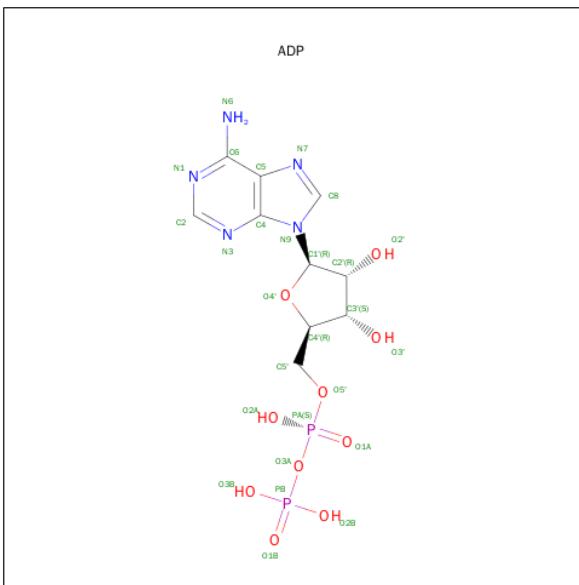
- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Mg 1 1	0	0
2	A	1	Total	Mg 1 1	0	0
2	C	1	Total	Mg 1 1	0	0

- Molecule 3 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	15	Total	I 15 15	0	0
3	A	24	Total	I 24 24	0	0
3	C	21	Total	I 21 21	0	0

- Molecule 4 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total C N O P					0	0
			27	10	5	10	2		
4	C	1	Total C N O P					0	0
			27	10	5	10	2		
4	B	1	Total C N O P					0	0
			27	10	5	10	2		

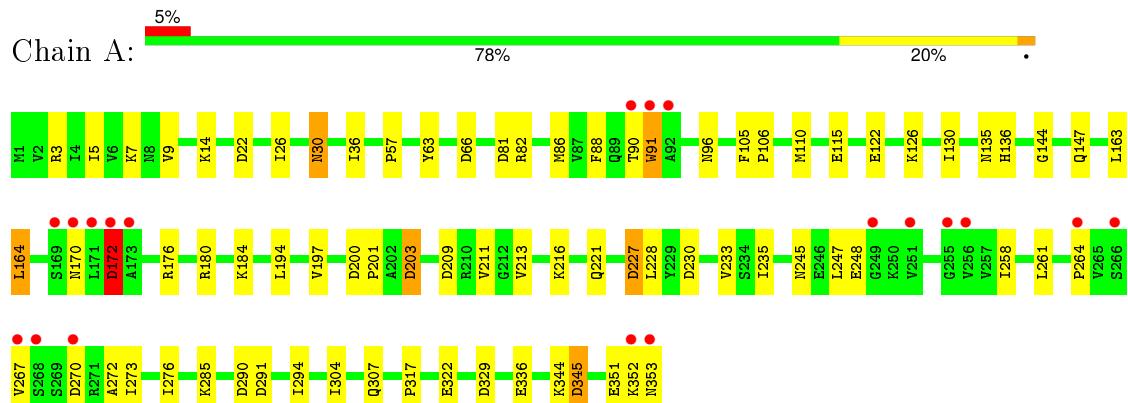
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	287	Total O		0	0
			287	287		
5	B	226	Total O		0	0
			226	226		
5	C	297	Total O		0	0
			297	297		

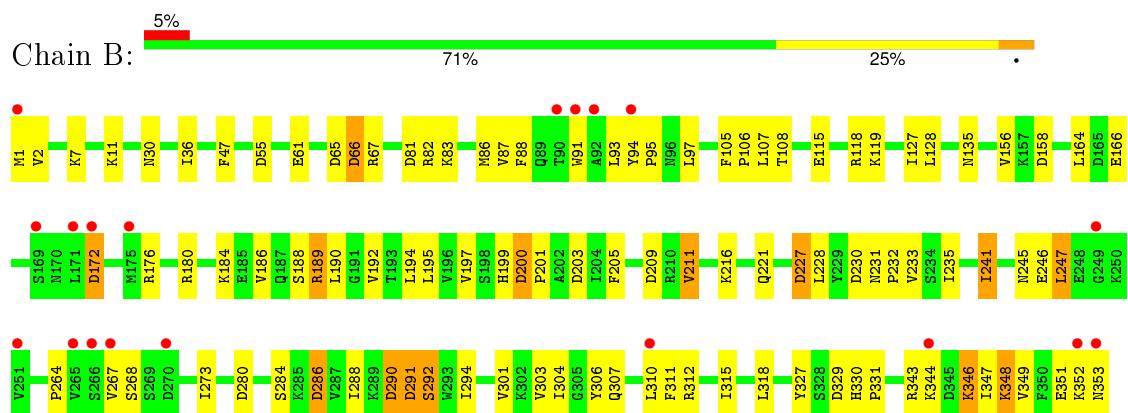
3 Residue-property plots

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 ($RSRZ > 2$). 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.

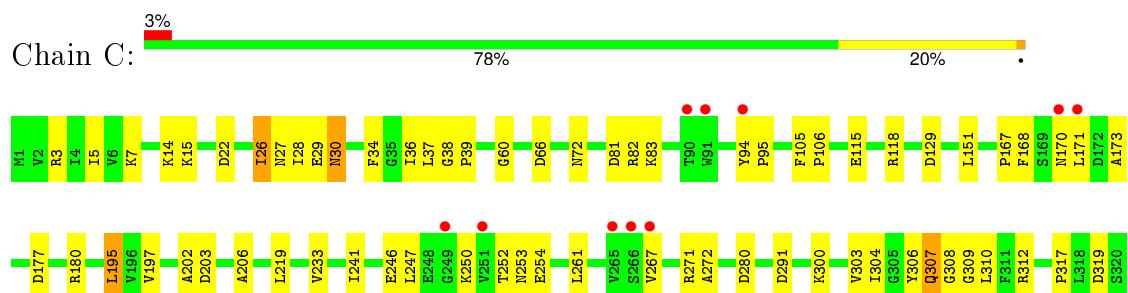
- Molecule 1: ABC transporter, ATP binding protein

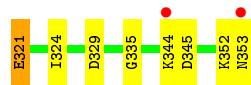


- Molecule 1: ABC transporter, ATP binding protein



- Molecule 1: ABC transporter, ATP binding protein





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	47.40 Å 149.04 Å 176.42 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	36.51 – 2.10 36.46 – 2.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (36.51-2.10) 99.0 (36.46-2.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) >$ ¹	4.05 (at 2.10 Å)	Xtriage
Refinement program	REFMAC 5	Depositor
R , R_{free}	0.191 , 0.256 0.198 , 0.258	Depositor DCC
R_{free} test set	3749 reflections (5.40%)	DCC
Wilson B-factor (Å ²)	23.6	Xtriage
Anisotropy	0.244	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 52.0	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$< L > = 0.49$, $< L^2 > = 0.33$	Xtriage
Outliers	4 of 73237 reflections (0.005%)	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9045	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 54.57 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 3.5829e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ 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: MG, IOD, ADP

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	0.33	0/2756	0.70	12/3727 (0.3%)
1	B	0.30	0/2743	0.71	14/3712 (0.4%)
1	C	0.32	0/2729	0.70	9/3696 (0.2%)
All	All	0.32	0/8228	0.70	35/11135 (0.3%)

There are no bond length outliers.

All (35) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	22	ASP	CB-CG-OD2	6.70	124.33	118.30
1	C	22	ASP	CB-CG-OD2	6.25	123.93	118.30
1	A	81	ASP	CB-CG-OD2	6.12	123.81	118.30
1	B	158	ASP	CB-CG-OD2	6.05	123.74	118.30
1	B	290	ASP	CB-CG-OD2	6.00	123.70	118.30
1	B	65	ASP	CB-CG-OD2	5.85	123.57	118.30
1	B	209	ASP	CB-CG-OD2	5.76	123.49	118.30
1	C	319	ASP	CB-CG-OD2	5.72	123.44	118.30
1	C	203	ASP	CB-CG-OD2	5.65	123.39	118.30
1	C	81	ASP	CB-CG-OD2	5.62	123.35	118.30
1	C	280	ASP	CB-CG-OD2	5.55	123.30	118.30
1	B	291	ASP	CB-CG-OD2	5.52	123.27	118.30
1	B	81	ASP	CB-CG-OD2	5.43	123.19	118.30
1	A	203	ASP	CB-CG-OD2	5.42	123.17	118.30
1	B	172	ASP	CB-CG-OD2	5.41	123.17	118.30
1	A	209	ASP	CB-CG-OD2	5.40	123.16	118.30
1	A	290	ASP	CB-CG-OD2	5.39	123.16	118.30
1	C	177	ASP	CB-CG-OD2	5.37	123.13	118.30
1	B	280	ASP	CB-CG-OD2	5.37	123.13	118.30
1	A	66	ASP	CB-CG-OD2	5.35	123.12	118.30
1	B	286	ASP	CB-CG-OD2	5.35	123.12	118.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	172	ASP	CB-CG-OD2	5.35	123.11	118.30
1	B	227	ASP	CB-CG-OD2	5.33	123.09	118.30
1	C	66	ASP	CB-CG-OD2	5.33	123.09	118.30
1	A	227	ASP	CB-CG-OD2	5.32	123.09	118.30
1	A	329	ASP	CB-CG-OD2	5.21	122.99	118.30
1	C	291	ASP	CB-CG-OD2	5.20	122.98	118.30
1	A	291	ASP	CB-CG-OD2	5.19	122.97	118.30
1	B	230	ASP	CB-CG-OD2	5.16	122.95	118.30
1	C	129	ASP	CB-CG-OD2	5.16	122.94	118.30
1	B	66	ASP	CB-CG-OD2	5.09	122.88	118.30
1	A	230	ASP	CB-CG-OD2	5.08	122.87	118.30
1	B	200	ASP	CB-CG-OD2	5.06	122.85	118.30
1	A	345	ASP	CB-CG-OD2	5.05	122.85	118.30
1	B	329	ASP	CB-CG-OD2	5.02	122.82	118.30

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	A	2711	0	2791	64	0
1	B	2697	0	2760	131	1
1	C	2683	0	2728	69	1
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
3	A	24	0	0	12	1
3	B	15	0	0	11	0
3	C	21	0	0	16	1
4	A	27	0	12	0	0
4	B	27	0	12	0	0
4	C	27	0	12	0	0
5	A	287	0	0	10	1
5	B	226	0	0	7	2
5	C	297	0	0	11	2

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	9045	0	8315	274	5

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 17.

All (274) 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:205:PHE:CE1	1:B:241:ILE:HD11	1.57	1.39
1:B:267:VAL:CG1	1:B:351:GLU:HG2	1.64	1.27
1:B:189:ARG:HB3	1:B:189:ARG:NH1	1.51	1.24
1:B:189:ARG:CB	1:B:189:ARG:HH11	1.52	1.22
1:B:246:GLU:C	1:B:247:LEU:HD13	1.64	1.17
3:C:2014:IOD:I	5:C:2929:HOH:O	2.35	1.12
1:B:273:ILE:HD11	1:B:352:LYS:CE	1.83	1.08
1:B:348:LYS:HE2	5:B:2932:HOH:O	1.51	1.07
1:C:252:THR:O	1:C:254:GLU:N	1.88	1.05
1:B:273:ILE:HD11	1:B:352:LYS:HE2	1.40	1.03
1:A:115:GLU:OE1	5:A:3251:HOH:O	1.74	1.03
1:B:221:GLN:OE1	1:B:233:VAL:HG23	1.58	1.03
1:B:135:ASN:OD1	5:B:3030:HOH:O	1.75	1.02
1:B:205:PHE:HE1	1:B:241:ILE:CD1	1.72	1.01
1:C:115:GLU:OE2	5:C:3071:HOH:O	1.77	0.99
1:C:306:TYR:C	1:C:307:GLN:HG3	1.77	0.99
1:B:205:PHE:CE1	1:B:241:ILE:CD1	2.46	0.98
1:C:14:LYS:NZ	3:C:2237:IOD:I	2.67	0.97
3:A:2339:IOD:I	5:A:3193:HOH:O	2.53	0.97
1:B:273:ILE:HD11	1:B:352:LYS:NZ	1.79	0.97
1:B:205:PHE:CZ	1:B:241:ILE:HD11	2.00	0.96
1:B:267:VAL:HG11	1:B:351:GLU:HG2	1.48	0.95
1:C:344:LYS:HD3	1:C:344:LYS:C	1.87	0.95
1:B:189:ARG:HB3	1:B:189:ARG:HH11	0.78	0.94
1:A:270:ASP:OD1	5:A:3265:HOH:O	1.83	0.94
3:A:2288:IOD:I	5:A:3116:HOH:O	2.55	0.93
1:B:247:LEU:HD13	1:B:247:LEU:N	1.80	0.93
1:A:184:LYS:NZ	3:A:2016:IOD:I	2.73	0.91
1:C:27[A]:ASN:ND2	1:C:27[A]:ASN:OD1	2.03	0.91
1:B:205:PHE:HE1	1:B:241:ILE:HD11	0.97	0.91
1:B:127:ILE:HG21	1:B:189:ARG:HH21	1.34	0.90
1:B:211:VAL:HG13	1:B:228:LEU:HD11	1.51	0.90
1:B:267:VAL:CG1	1:B:351:GLU:CG	2.50	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:2387:IOD:I	5:A:3151:HOH:O	2.61	0.87
1:B:267:VAL:HG13	1:B:351:GLU:HG2	1.55	0.86
1:C:344:LYS:O	1:C:344:LYS:HD3	1.75	0.86
1:B:221:GLN:CD	1:B:233:VAL:HG23	1.96	0.85
1:B:105:PHE:O	1:B:108:THR:HG23	1.77	0.85
1:B:246:GLU:C	1:B:247:LEU:CD1	2.46	0.84
1:A:91:TRP:CZ2	1:A:147:GLN:OE1	2.31	0.84
1:B:294:ILE:HD13	1:B:344:LYS:HB2	1.58	0.84
1:B:93:LEU:O	1:B:95:PRO:HD3	1.80	0.82
1:B:273:ILE:CD1	1:B:352:LYS:HE2	2.10	0.82
1:B:348:LYS:HD2	1:B:348:LYS:N	1.95	0.81
1:B:2:VAL:H	1:B:30[B]:ASN:ND2	1.80	0.79
3:C:2239:IOD:I	5:C:2927:HOH:O	2.71	0.78
1:A:30:ASN:HD22	1:A:30:ASN:H	1.32	0.77
1:C:344:LYS:C	1:C:344:LYS:CD	2.53	0.77
1:A:294:ILE:HG13	1:A:344:LYS:HB2	1.66	0.76
1:C:261:LEU:HG	1:C:317:PRO:HB3	1.66	0.76
1:B:1:MET:HA	1:B:30[A]:ASN:ND2	2.00	0.76
1:C:82:ARG:O	3:C:2004:IOD:I	2.73	0.76
1:B:307:GLN:NE2	5:B:2868:HOH:O	2.12	0.76
1:C:30:ASN:HD22	1:C:30:ASN:H	1.33	0.76
1:C:202:ALA:HA	3:C:2233:IOD:I	2.56	0.76
1:A:82:ARG:O	3:A:2006:IOD:I	2.75	0.75
1:A:36:ILE:HB	1:A:197:VAL:HG12	1.68	0.75
1:A:285:LYS:NZ	1:A:336:GLU:OE1	2.20	0.74
1:C:28:ILE:HD13	1:C:195:LEU:CD2	2.17	0.74
1:B:306:TYR:O	1:B:307:GLN:HG3	1.86	0.74
1:C:170:ASN:O	1:C:171:LEU:HD23	1.87	0.74
1:C:94:TYR:HB3	3:C:2018:IOD:I	2.58	0.73
1:B:127:ILE:CG2	1:B:189:ARG:HH21	1.99	0.73
1:C:241:ILE:HD11	3:C:2253:IOD:I	2.59	0.73
1:B:105:PHE:HB3	1:B:106:PRO:HD3	1.71	0.72
3:B:2218:IOD:I	5:B:2992:HOH:O	2.77	0.72
1:C:306:TYR:O	1:C:307:GLN:HG3	1.90	0.72
1:A:172:ASP:O	1:A:176:ARG:HG3	1.90	0.72
1:B:82:ARG:O	3:B:2017:IOD:I	2.78	0.71
1:B:346:LYS:O	1:B:348:LYS:HE3	1.90	0.71
1:A:304:ILE:HG22	3:A:2011:IOD:I	2.60	0.71
1:A:216:LYS:NZ	1:A:216:LYS:HB2	2.06	0.70
1:B:211:VAL:HG13	1:B:228:LEU:CD1	2.21	0.69
1:A:105:PHE:HD2	3:A:2339:IOD:I	2.45	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:267:VAL:HG11	1:B:351:GLU:CG	2.18	0.69
1:C:28:ILE:HD13	1:C:195:LEU:HD23	1.75	0.69
1:B:267:VAL:HG13	1:B:351:GLU:CG	2.20	0.69
1:C:36:ILE:HB	1:C:197:VAL:HG12	1.75	0.68
1:A:184:LYS:CE	3:A:2016:IOD:I	3.11	0.68
1:B:30[B]:ASN:ND2	1:B:30[B]:ASN:OD1	2.25	0.68
1:B:267:VAL:CG2	1:B:349:VAL:HG22	2.23	0.68
1:B:7:LYS:HD2	1:B:61:GLU:OE2	1.94	0.68
1:B:1:MET:HE3	1:B:192:VAL:HG12	1.74	0.68
1:A:30:ASN:ND2	1:A:30:ASN:H	1.89	0.68
1:C:30:ASN:ND2	1:C:30:ASN:H	1.92	0.67
1:A:26:ILE:HD12	3:A:2010:IOD:I	2.64	0.67
1:B:304:ILE:HG22	3:B:2037:IOD:I	2.65	0.67
1:C:246[A]:GLU:OE2	1:C:246[A]:GLU:OE1	2.13	0.66
1:A:105:PHE:HB3	1:A:106:PRO:HD3	1.78	0.66
1:C:250:LYS:HD3	1:C:271:ARG:NH1	2.10	0.66
1:C:304:ILE:HG22	3:C:2020:IOD:I	2.66	0.65
1:B:310:LEU:HD11	1:B:327:TYR:CD2	2.31	0.65
1:B:83:LYS:HB2	3:B:2017:IOD:I	2.67	0.64
1:B:310:LEU:HD12	1:B:310:LEU:C	2.18	0.64
1:B:264:PRO:HB2	1:B:344:LYS:NZ	2.13	0.63
1:B:1:MET:CE	1:B:192:VAL:HG12	2.28	0.63
1:A:267:VAL:CG2	1:A:272:ALA:HB2	2.29	0.62
1:B:310:LEU:HD13	1:B:327:TYR:HB3	1.81	0.62
1:A:247:LEU:HD12	1:A:322:GLU:HB3	1.80	0.61
1:B:241:ILE:HG13	1:B:241:ILE:O	1.99	0.61
1:A:110:MET:HE1	5:A:3239:HOH:O	2.01	0.61
1:B:273:ILE:HD11	1:B:352:LYS:HZ1	1.65	0.61
1:B:306:TYR:C	1:B:307:GLN:HG3	2.21	0.60
1:B:267:VAL:HG12	1:B:351:GLU:HG2	1.77	0.60
1:B:343:ARG:HH11	1:B:343:ARG:HG2	1.66	0.60
1:A:264:PRO:HB2	1:A:344:LYS:HZ3	1.67	0.60
1:C:3:ARG:NH1	1:C:29:GLU:OE2	2.35	0.60
1:B:186:VAL:HA	1:B:189:ARG:HH12	1.68	0.59
1:C:28:ILE:HD13	1:C:195:LEU:HD21	1.84	0.59
1:B:294:ILE:HD13	1:B:344:LYS:CB	2.30	0.59
1:A:221:GLN:HE22	1:A:233:VAL:H	1.50	0.58
3:C:2049:IOD:I	5:C:3092:HOH:O	2.87	0.58
1:C:5:ILE:HG21	1:C:7:LYS:HE3	1.85	0.58
1:C:345:ASP:N	5:C:3006:HOH:O	2.24	0.58
1:A:91:TRP:HZ2	1:A:147:GLN:OE1	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:267:VAL:HG23	1:B:349:VAL:CG2	2.33	0.57
3:C:2541:IOD:I	5:C:3068:HOH:O	2.87	0.57
1:C:34:PHE:HB3	1:C:195:LEU:HD22	1.86	0.57
1:B:186:VAL:HA	1:B:189:ARG:NH1	2.20	0.57
1:B:189:ARG:CB	1:B:189:ARG:NH1	2.34	0.56
1:A:264:PRO:HB2	1:A:344:LYS:NZ	2.20	0.56
1:B:36:ILE:HB	1:B:197:VAL:HG12	1.88	0.56
1:A:176:ARG:HD2	1:A:180:ARG:NH2	2.21	0.55
1:B:205:PHE:CZ	1:B:241:ILE:CD1	2.85	0.55
1:C:352:LYS:O	1:C:353:ASN:C	2.43	0.55
1:B:216:LYS:HE3	5:B:3020:HOH:O	2.05	0.55
1:B:311:PHE:CZ	1:B:331:PRO:HG3	2.42	0.54
1:B:93:LEU:O	1:B:95:PRO:CD	2.53	0.54
1:C:303:VAL:HG23	3:C:2020:IOD:I	2.77	0.54
1:B:221:GLN:CD	1:B:233:VAL:CG2	2.74	0.54
1:B:194:LEU:HD23	1:B:194:LEU:C	2.29	0.54
1:C:151:LEU:HD21	3:C:2008:IOD:I	2.79	0.53
1:A:264:PRO:CG	1:A:344:LYS:HZ3	2.22	0.53
1:B:86:MET:N	3:B:2015:IOD:I	3.03	0.53
1:B:284:SER:OG	1:B:286:ASP:O	2.26	0.53
1:B:211:VAL:CG1	1:B:228:LEU:CD1	2.87	0.53
1:B:2:VAL:N	1:B:30[B]:ASN:ND2	2.53	0.53
1:B:303:VAL:HG23	3:B:2037:IOD:I	2.79	0.53
1:C:5:ILE:HG21	1:C:7:LYS:CE	2.38	0.53
1:B:188:SER:OG	3:B:2218:IOD:I	2.95	0.52
1:A:213:VAL:HG23	1:A:228:LEU:HD21	1.91	0.52
1:C:167:PRO:HG2	1:C:168:PHE:CD1	2.44	0.52
3:B:2017:IOD:I	3:B:2019:IOD:I	3.67	0.52
1:A:135:ASN:OD1	1:A:136:HIS:HD2	1.92	0.52
1:C:308:GLY:O	1:C:310:LEU:HD13	2.10	0.52
1:B:190:LEU:HD11	3:B:2021:IOD:I	2.80	0.52
1:B:310:LEU:CD1	1:B:327:TYR:HB3	2.40	0.51
1:B:288:ILE:HG22	1:B:290:ASP:H	1.75	0.51
1:B:30[A]:ASN:OD1	1:B:30[A]:ASN:ND2	2.44	0.51
1:A:14:LYS:HE2	5:A:3176:HOH:O	2.09	0.51
1:B:88:PHE:O	1:B:91:TRP:HB3	2.10	0.51
1:A:122:GLU:O	1:A:126:LYS:HG3	2.10	0.51
1:A:267:VAL:HG21	1:A:272:ALA:HB2	1.93	0.51
1:C:247:LEU:HD21	1:C:324:ILE:HG13	1.93	0.51
1:B:246:GLU:CA	1:B:247:LEU:HD13	2.40	0.51
1:C:321:GLU:HG2	5:C:3119:HOH:O	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:306:TYR:C	1:C:307:GLN:CG	2.64	0.51
1:B:348:LYS:CD	1:B:348:LYS:N	2.71	0.51
1:B:352:LYS:HD3	1:B:353:ASN:N	2.26	0.50
1:C:309:GLY:C	1:C:310:LEU:HD12	2.32	0.50
1:A:144:GLY:HA3	3:A:2387:IOD:I	2.81	0.50
1:B:290:ASP:OD2	1:B:292:SER:CB	2.59	0.50
1:B:247:LEU:N	1:B:247:LEU:CD1	2.53	0.50
1:C:105:PHE:HB3	1:C:106:PRO:HD3	1.94	0.50
1:B:301:VAL:HA	1:B:315:ILE:HG22	1.93	0.50
1:C:168:PHE:HB3	1:C:171:LEU:HD12	1.94	0.50
1:B:267:VAL:HG23	1:B:349:VAL:HG22	1.91	0.50
1:B:267:VAL:CG2	1:B:349:VAL:CG2	2.90	0.49
1:A:264:PRO:CB	1:A:344:LYS:HZ3	2.24	0.49
1:B:273:ILE:CG1	1:B:352:LYS:HE2	2.41	0.49
1:C:312:ARG:NH1	5:C:3039:HOH:O	2.37	0.49
1:B:211:VAL:CG1	1:B:228:LEU:HD11	2.33	0.49
1:A:216:LYS:HZ2	1:A:216:LYS:HB2	1.76	0.49
1:B:267:VAL:HG21	1:B:349:VAL:HG22	1.93	0.48
1:A:3:ARG:CG	1:A:30:ASN:HD22	2.27	0.48
1:A:267:VAL:HG22	1:A:272:ALA:HB2	1.95	0.48
1:B:346:LYS:O	1:B:348:LYS:CE	2.59	0.48
1:C:28:ILE:CD1	1:C:195:LEU:HD21	2.43	0.48
1:A:164:LEU:HD22	1:A:194:LEU:HD11	1.95	0.48
1:A:221:GLN:NE2	1:A:233:VAL:H	2.11	0.48
1:A:345:ASP:N	5:A:3161:HOH:O	2.36	0.48
1:C:27[B]:ASN:OD1	1:C:27[B]:ASN:ND2	2.47	0.47
1:B:311:PHE:CE1	1:B:331:PRO:HG3	2.49	0.47
1:A:216:LYS:NZ	1:A:216:LYS:CB	2.76	0.47
1:C:118:ARG:HH11	1:C:118:ARG:HG2	1.79	0.47
1:B:352:LYS:HD3	1:B:353:ASN:H	1.79	0.47
1:C:118:ARG:NH1	1:C:118:ARG:HG2	2.31	0.46
1:A:276:ILE:O	1:A:276:ILE:HG23	2.15	0.46
1:A:345:ASP:HB2	5:A:3161:HOH:O	2.15	0.46
1:B:235:ILE:HD11	1:B:246:GLU:HG2	1.97	0.46
1:A:7:LYS:HG3	5:A:3053:HOH:O	2.15	0.46
1:B:347:ILE:C	1:B:348:LYS:HD2	2.35	0.46
1:A:88:PHE:O	1:A:91:TRP:HB3	2.16	0.46
1:B:189:ARG:CG	1:B:189:ARG:HH11	2.20	0.46
1:C:306:TYR:O	1:C:307:GLN:CG	2.61	0.46
1:C:83:LYS:HB2	3:C:2004:IOD:I	2.86	0.46
1:C:241:ILE:O	1:C:241:ILE:HG13	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:LYS:O	1:A:353:ASN:C	2.53	0.46
1:B:184:LYS:HG2	3:B:2218:IOD:I	2.85	0.46
1:B:67:ARG:NE	3:B:2019:IOD:I	3.12	0.46
1:B:343:ARG:HG2	1:B:343:ARG:NH1	2.30	0.46
1:A:213:VAL:HG23	1:A:228:LEU:CD2	2.46	0.45
1:C:60:GLY:H	1:C:72:ASN:ND2	2.14	0.45
1:B:94:TYR:HB3	1:B:97:LEU:HG	1.98	0.45
1:A:245:ASN:HB2	1:A:276:ILE:HG23	1.98	0.45
1:A:285:LYS:NZ	1:A:336:GLU:CD	2.69	0.45
1:B:343:ARG:NE	5:B:2845:HOH:O	2.49	0.45
1:A:261:LEU:HG	1:A:317:PRO:HB3	1.97	0.45
1:A:216:LYS:HZ3	1:A:216:LYS:HB2	1.80	0.45
1:B:246:GLU:O	1:B:247:LEU:CD1	2.63	0.45
1:B:94:TYR:HB2	1:B:97:LEU:HB2	1.99	0.45
1:B:115:GLU:O	1:B:119:LYS:HG3	2.17	0.45
1:B:180:ARG:NH2	1:B:203:ASP:OD2	2.45	0.45
1:A:96:ASN:HB2	3:A:2153:IOD:I	2.87	0.45
1:B:318:LEU:HD23	1:B:318:LEU:HA	1.79	0.44
1:A:245:ASN:HB2	1:A:276:ILE:CG2	2.48	0.44
1:C:202:ALA:CA	3:C:2233:IOD:I	3.33	0.44
1:B:200:ASP:HA	1:B:201:PRO:HD3	1.85	0.44
1:B:189:ARG:CG	1:B:189:ARG:NH1	2.78	0.43
1:C:167:PRO:HG2	1:C:168:PHE:H	1.83	0.43
1:A:200:ASP:HA	1:A:201:PRO:HD3	1.84	0.43
1:B:330:HIS:HA	1:B:331:PRO:HD3	1.81	0.43
1:B:87:VAL:HB	1:B:164:LEU:CD2	2.47	0.43
1:A:267:VAL:HB	1:A:351:GLU:HG2	2.00	0.43
1:C:5:ILE:CG2	1:C:7:LYS:HE3	2.49	0.43
1:B:346:LYS:O	1:B:348:LYS:CD	2.67	0.43
3:C:2541:IOD:I	5:C:2882:HOH:O	2.91	0.43
1:A:248:GLU:HG2	1:A:273:ILE:HD13	2.00	0.43
1:B:107:LEU:HD11	1:B:156:VAL:HG22	2.01	0.42
1:B:47:PHE:HE2	1:B:195:LEU:HD21	1.84	0.42
1:C:233:VAL:O	1:C:233:VAL:HG22	2.19	0.42
1:A:247:LEU:HB3	1:A:258:ILE:HD13	2.01	0.42
1:C:30:ASN:ND2	5:C:2948:HOH:O	2.42	0.42
1:B:127:ILE:CG2	1:B:189:ARG:NH2	2.75	0.42
1:B:346:LYS:O	1:B:348:LYS:HD2	2.20	0.42
1:C:7:LYS:NZ	5:C:3103:HOH:O	2.47	0.42
1:A:90:THR:O	1:A:91:TRP:C	2.58	0.42
1:B:303:VAL:HG22	1:B:304:ILE:N	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:245:ASN:HB3	1:B:247:LEU:HD11	2.02	0.41
1:A:5:ILE:HB	1:A:63:TYR:HB2	2.02	0.41
1:C:352:LYS:O	1:C:353:ASN:O	2.39	0.41
1:C:247:LEU:HD21	1:C:324:ILE:CG1	2.50	0.41
1:C:300:LYS:HE3	1:C:335:GLY:HA2	2.03	0.41
1:A:86:MET:N	3:A:2023:IOD:I	3.15	0.41
1:B:172:ASP:O	1:B:176:ARG:HG3	2.19	0.41
1:C:26:ILE:HG12	1:C:219:LEU:CD2	2.50	0.41
1:B:166:GLU:OE1	1:B:199:HIS:ND1	2.49	0.41
1:B:290:ASP:OD2	1:B:292:SER:N	2.48	0.41
1:C:38:GLY:HA2	1:C:39:PRO:HD3	1.90	0.41
1:C:267:VAL:CG2	1:C:272:ALA:HB2	2.51	0.41
1:C:30:ASN:N	1:C:30:ASN:ND2	2.65	0.41
1:C:94:TYR:HA	1:C:95:PRO:HD3	1.88	0.41
1:B:11:LYS:HE2	1:B:55:ASP:OD2	2.20	0.41
1:B:231:ASN:N	1:B:232:PRO:HD3	2.35	0.41
1:A:180:ARG:NH2	1:A:203:ASP:OD1	2.49	0.41
1:A:163:LEU:O	1:A:164:LEU:HD12	2.21	0.40
1:C:15:LYS:N	3:C:2823:IOD:I	3.22	0.40
1:B:267:VAL:CG1	1:B:268:SER:N	2.85	0.40
1:B:294:ILE:CD1	1:B:344:LYS:HB2	2.39	0.40
1:C:180:ARG:HD3	1:C:206:ALA:CB	2.51	0.40
1:B:221:GLN:HG2	1:B:228:LEU:CD2	2.51	0.40
1:B:233:VAL:HG21	5:B:2860:HOH:O	2.22	0.40
1:B:312:ARG:HG3	1:B:327:TYR:CE2	2.57	0.40
1:A:211:VAL:HG13	1:A:228:LEU:HD22	2.03	0.40
1:A:235:ILE:HA	1:A:235:ILE:HD12	1.99	0.40
1:B:310:LEU:CD1	1:B:310:LEU:C	2.89	0.40
1:A:9:VAL:HG13	1:A:57:PRO:HB3	2.04	0.40

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:ASP:OD1	5:B:3046:HOH:O[4_566]	1.48	0.72
5:B:3015:HOH:O	5:C:3067:HOH:O[1_565]	1.82	0.38
5:C:3028:HOH:O	5:C:3047:HOH:O[1_455]	1.91	0.29
3:A:2845:IOD:I	5:A:3222:HOH:O[1_655]	1.97	0.23
1:C:329:ASP:OD2	3:C:2237:IOD:I[1_455]	1.97	0.23

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	351/353 (99%)	339 (97%)	11 (3%)	1 (0%)	46 45
1	B	352/353 (100%)	343 (97%)	9 (3%)	0	100 100
1	C	353/353 (100%)	342 (97%)	9 (2%)	2 (1%)	30 24
All	All	1056/1059 (100%)	1024 (97%)	29 (3%)	3 (0%)	46 45

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	253	ASN
1	C	173	ALA
1	A	91	TRP

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	296/307 (96%)	289 (98%)	7 (2%)	57 61
1	B	291/307 (95%)	280 (96%)	11 (4%)	40 40
1	C	288/307 (94%)	282 (98%)	6 (2%)	61 66
All	All	875/921 (95%)	851 (97%)	24 (3%)	52 56

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	30	ASN
1	A	130	ILE
1	A	164	LEU
1	A	170	ASN
1	A	172	ASP
1	A	227	ASP
1	A	307	GLN
1	B	118	ARG
1	B	128	LEU
1	B	189	ARG
1	B	211	VAL
1	B	227	ASP
1	B	241	ILE
1	B	247	LEU
1	B	291	ASP
1	B	292	SER
1	B	346	LYS
1	B	348	LYS
1	C	26	ILE
1	C	30	ASN
1	C	37	LEU
1	C	195	LEU
1	C	307	GLN
1	C	321	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	ASN
1	A	136	HIS
1	A	146	GLN
1	A	147	GLN
1	A	170	ASN
1	A	221	GLN
1	B	89	GLN
1	B	135	ASN
1	B	170	ASN
1	B	236	GLN
1	C	30	ASN
1	C	72	ASN
1	C	89	GLN
1	C	146	GLN
1	C	307	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	333	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 [\(i\)](#)

Of 66 ligands modelled in this entry, 63 are monoatomic - leaving 3 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
4	ADP	A	1486	2	22,29,29	1.04	2 (9%)	27,45,45	2.50	2 (7%)
4	ADP	B	1488	2	22,29,29	1.10	2 (9%)	27,45,45	2.45	1 (3%)
4	ADP	C	1487	2	22,29,29	1.09	2 (9%)	27,45,45	2.40	2 (7%)

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
4	ADP	A	1486	2	-	0/12/32/32	0/3/3/3
4	ADP	B	1488	2	-	0/12/32/32	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	ADP	C	1487	2	-	0/12/32/32	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	1488	ADP	C2-N1	2.36	1.38	1.33
4	A	1486	ADP	C2-N1	2.42	1.38	1.33
4	C	1487	ADP	C2-N1	2.56	1.38	1.33
4	A	1486	ADP	C2-N3	3.24	1.37	1.32
4	B	1488	ADP	C2-N3	3.44	1.38	1.32
4	C	1487	ADP	C2-N3	3.46	1.38	1.32

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1486	ADP	N3-C2-N1	-11.81	119.85	128.89
4	B	1488	ADP	N3-C2-N1	-11.51	120.08	128.89
4	C	1487	ADP	N3-C2-N1	-11.43	120.14	128.89
4	A	1486	ADP	C2'-C1'-N9	-2.49	110.49	114.29
4	C	1487	ADP	C2'-C1'-N9	-2.23	110.89	114.29

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	353/353 (100%)	0.14	19 (5%) 29 38	5, 15, 41, 92	0
1	B	353/353 (100%)	0.23	19 (5%) 29 38	0, 15, 43, 78	0
1	C	353/353 (100%)	0.04	12 (3%) 49 58	5, 14, 39, 78	0
All	All	1059/1059 (100%)	0.14	50 (4%) 35 44	0, 15, 41, 92	0

All (50) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	267	VAL	6.3
1	A	267	VAL	5.7
1	A	170	ASN	5.1
1	B	267	VAL	4.8
1	A	249	GLY	4.3
1	A	270	ASP	3.9
1	A	268	SER	3.6
1	A	91	TRP	3.6
1	A	172	ASP	3.6
1	B	270	ASP	3.5
1	A	171	LEU	3.5
1	C	266	SER	3.4
1	B	353	ASN	3.4
1	B	265	VAL	3.3
1	A	169	SER	3.2
1	B	91	TRP	3.1
1	C	90	THR	3.0
1	A	352	LYS	2.9
1	C	344	LYS	2.9
1	B	172	ASP	2.8
1	C	249	GLY	2.8
1	A	353	ASN	2.8
1	C	91	TRP	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	266	SER	2.7
1	B	266	SER	2.7
1	B	92	ALA	2.7
1	B	175	MET	2.7
1	A	255	GLY	2.6
1	B	344	LYS	2.6
1	B	169	SER	2.5
1	B	94	TYR	2.5
1	C	265	VAL	2.5
1	A	90	THR	2.5
1	B	249	GLY	2.5
1	C	251	VAL	2.4
1	B	352	LYS	2.4
1	B	90	THR	2.4
1	B	251	VAL	2.4
1	A	251	VAL	2.3
1	C	94	TYR	2.3
1	A	173	ALA	2.2
1	A	256	VAL	2.2
1	C	353	ASN	2.1
1	B	1	MET	2.1
1	A	92	ALA	2.1
1	C	170	ASN	2.1
1	B	171	LEU	2.1
1	A	264	PRO	2.0
1	B	310	LEU	2.0
1	C	171	LEU	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(Å ²)	Q<0.9
3	IOD	A	2022	1/1	0.99	0.15	3.02	23,23,23,23	1
3	IOD	B	2386	1/1	0.97	0.21	1.92	32,32,32,32	1
4	ADP	A	1486	27/27	0.98	0.10	-0.59	15,21,28,35	0
3	IOD	B	2017	1/1	0.98	0.11	-0.78	28,28,28,28	1
4	ADP	B	1488	27/27	0.98	0.10	-0.81	17,28,41,46	0
4	ADP	C	1487	27/27	0.98	0.09	-1.04	11,21,34,37	0
3	IOD	B	2002	1/1	0.99	0.08	-1.11	30,30,30,30	1
3	IOD	B	2021	1/1	0.97	0.07	-1.94	26,26,26,26	1
3	IOD	C	2004	1/1	0.99	0.07	-1.99	26,26,26,26	1
3	IOD	A	2007	1/1	0.99	0.06	-2.32	26,26,26,26	1
3	IOD	A	2003	1/1	0.99	0.07	-2.63	29,29,29,29	1
3	IOD	C	2008	1/1	0.99	0.05	-2.81	27,27,27,27	1
3	IOD	B	2019	1/1	0.99	0.08	-2.83	29,29,29,29	1
3	IOD	B	2005	1/1	0.99	0.07	-2.92	25,25,25,25	1
3	IOD	C	2001	1/1	1.00	0.08	-3.01	25,25,25,25	1
3	IOD	A	2006	1/1	0.98	0.07	-3.05	30,30,30,30	1
3	IOD	A	2011	1/1	0.98	0.15	-	34,34,34,34	1
3	IOD	B	2198	1/1	0.90	0.13	-	72,72,72,72	1
3	IOD	A	2288	1/1	0.92	0.25	-	68,68,68,68	1
3	IOD	A	2023	1/1	0.97	0.11	-	37,37,37,37	1
3	IOD	A	2387	1/1	0.99	0.13	-	34,34,34,34	1
3	IOD	A	2010	1/1	0.97	0.10	-	32,32,32,32	1
3	IOD	C	2014	1/1	0.98	0.11	-	31,31,31,31	1
3	IOD	B	2015	1/1	0.92	0.10	-	36,36,36,36	1
3	IOD	B	2037	1/1	0.98	0.08	-	40,40,40,40	1
3	IOD	A	2830	1/1	0.97	0.07	-	36,36,36,36	1
3	IOD	B	2831	1/1	0.91	0.13	-	39,39,39,39	1
3	IOD	C	2013	1/1	1.00	0.08	-	23,23,23,23	1
3	IOD	B	2808	1/1	0.98	0.11	-	30,30,30,30	1
2	MG	A	1502	1/1	0.98	0.09	-	21,21,21,21	0
3	IOD	C	2682	1/1	0.95	0.12	-	33,33,33,33	1
3	IOD	C	2813	1/1	0.97	0.17	-	27,27,27,27	1
3	IOD	A	2016	1/1	0.86	0.11	-	59,59,59,59	1
3	IOD	C	2049	1/1	0.98	0.06	-	36,36,36,36	1
3	IOD	C	2233	1/1	0.89	0.10	-	53,53,53,53	1
3	IOD	C	2823	1/1	0.95	0.14	-	38,38,38,38	1
2	MG	B	1503	1/1	0.92	0.08	-	28,28,28,28	0
3	IOD	B	2337	1/1	0.91	0.12	-	41,41,41,41	1
3	IOD	C	2239	1/1	0.98	0.09	-	38,38,38,38	1
3	IOD	A	2165	1/1	0.81	0.13	-	89,89,89,89	1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	IOD	A	2009	1/1	0.99	0.04	-	31,31,31,31	1
3	IOD	A	2986	1/1	0.95	0.13	-	35,35,35,35	1
3	IOD	B	2012	1/1	0.91	0.20	-	31,31,31,31	1
3	IOD	A	2845	1/1	0.99	0.05	-	38,38,38,38	1
3	IOD	C	2253	1/1	0.51	0.15	-	113,113,113,113	1
3	IOD	C	2809	1/1	0.99	0.14	-	27,27,27,27	1
3	IOD	A	2683	1/1	0.90	0.11	-	42,42,42,42	1
3	IOD	C	2258	1/1	0.89	0.12	-	80,80,80,80	1
3	IOD	C	2137	1/1	0.92	0.15	-	52,52,52,52	1
3	IOD	A	2339	1/1	0.93	0.06	-	38,38,38,38	1
3	IOD	B	2218	1/1	0.71	0.16	-	141,141,141,141	1
2	MG	C	1501	1/1	0.96	0.06	-	20,20,20,20	0
3	IOD	C	2438	1/1	0.91	0.18	-	38,38,38,38	1
3	IOD	C	2237	1/1	0.44	1.00	-	213,213,213,213	1
3	IOD	C	2541	1/1	0.98	0.09	-	39,39,39,39	1
3	IOD	C	2018	1/1	0.98	0.18	-	33,33,33,33	1
3	IOD	A	2816	1/1	0.99	0.14	-	32,32,32,32	1
3	IOD	A	2050	1/1	0.97	0.11	-	32,32,32,32	1
3	IOD	C	2020	1/1	0.98	0.08	-	36,36,36,36	1
3	IOD	A	2832	1/1	0.92	0.10	-	41,41,41,41	1
3	IOD	A	2528	1/1	0.97	0.10	-	35,35,35,35	1
3	IOD	A	2828	1/1	0.98	0.05	-	31,31,31,31	1
3	IOD	B	2078	1/1	0.76	0.10	-	66,66,66,66	1
3	IOD	A	2116	1/1	0.94	0.09	-	47,47,47,47	1
3	IOD	A	2153	1/1	0.97	0.05	-	53,53,53,53	1
3	IOD	C	2536	1/1	0.97	0.08	-	37,37,37,37	1

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

There are no such residues in this entry.