



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 04:23 PM UTC

PDB ID : 8Z4I / pdb_00008z4i
Title : crystal structure of Cdn1 in complex with cA3
Authors : Zhang, W.
Deposited on : 2024-04-17
Resolution : 2.80 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : **NOT EXECUTED**
Xtrriage (Phenix) : 2.0
EDS : **NOT EXECUTED**
Buster-report : **NOT EXECUTED**
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

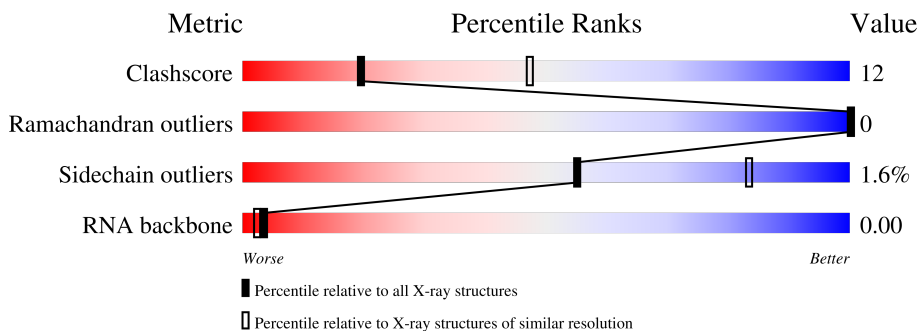
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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	190562	4276 (2.80-2.80)
Ramachandran outliers	187476	4196 (2.80-2.80)
Sidechain outliers	187428	4198 (2.80-2.80)
RNA backbone	3983	1114 (3.00-2.60)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	405	71% 24% 5%
1	B	405	70% 25% .
2	C	3	33% 67%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6404 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 CARF-domain containing dual-activated nuclease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	385	3125	2034	504	580	7	0	0	0
1	B	387	3114	2016	507	584	7	0	0	0

- Molecule 2 is a RNA chain called cyclic tri-adenylate.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	C	3	132	60	30	36	6	0	3	0

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

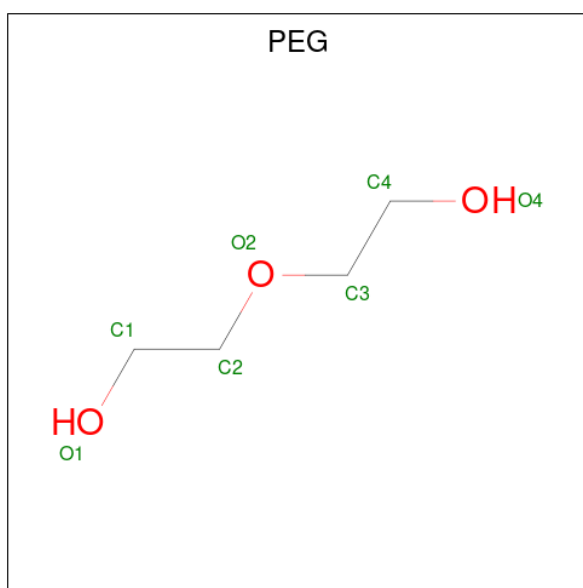
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	4	Total	Ca	0	0
			4	4		
3	B	1	Total	Ca	0	0
			1	1		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			6	3	3		
4	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			7	4	3		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	7	Total O 7 7	0	0
6	B	2	Total O 2 2	0	0

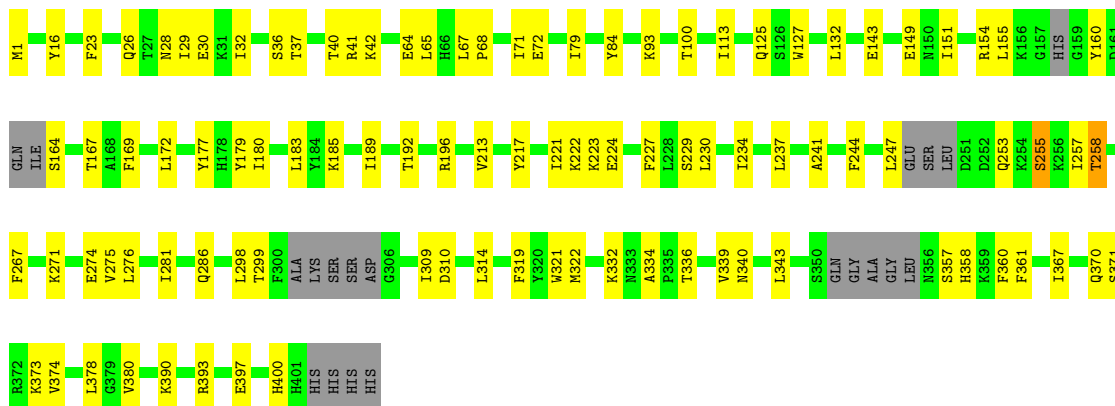
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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.

Note EDS was not executed.

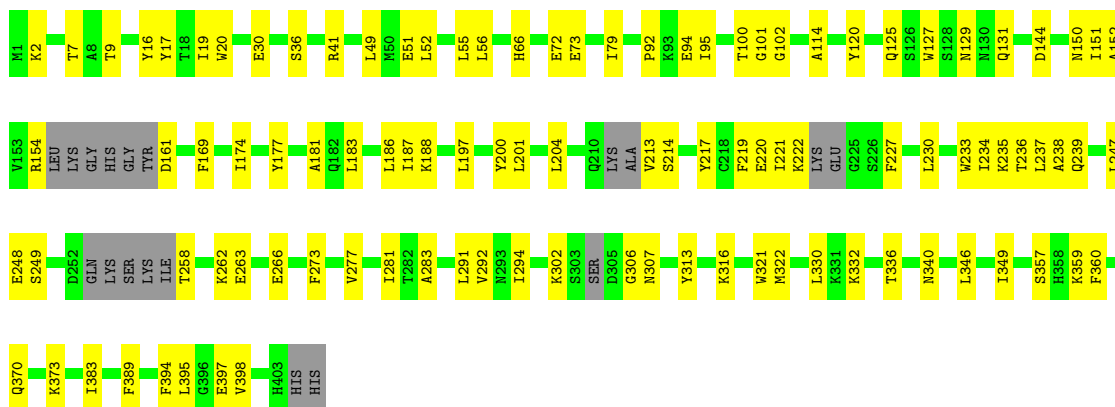
- Molecule 1: CARF-domain containing dual-activated nuclease

Chain A: 

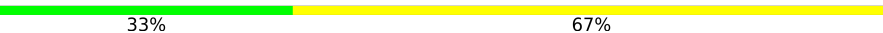


- Molecule 1: CARF-domain containing dual-activated nuclease

Chain B: 



- Molecule 2: cyclic tri-adenylate

Chain C: 



4 Data and refinement statistics

EDS was not executed - this section is therefore incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	152.49Å 61.30Å 103.57Å 90.00° 97.55° 90.00°	Depositor
Resolution (Å)	45.33 – 2.80	Depositor
% Data completeness (in resolution range)	99.9 (45.33-2.80)	Depositor
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.47 (at 2.81Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.248 , 0.277	Depositor
Wilson B-factor (Å ²)	70.4	Xtriage
Anisotropy	0.015	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	6404	wwPDB-VP
Average B, all atoms (Å ²)	81.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.68% 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: CA, GOL, PEG

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	0.12	0/3195	0.28	0/4325
1	B	0.13	0/3182	0.31	0/4314
2	C	0.08	0/148	0.13	0/226
All	All	0.12	0/6525	0.29	0/8865

There are no bond length outliers.

There are no bond angle outliers.

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	3125	0	3115	67	0
1	B	3114	0	3077	78	0
2	C	132	0	66	13	0
3	A	4	0	0	0	0
3	B	1	0	0	0	0
4	A	6	0	8	0	0
4	B	6	0	8	0	0
5	A	7	0	10	0	0
6	A	7	0	0	0	0
6	B	2	0	0	1	0
All	All	6404	0	6284	147	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 12.

All (147) 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:222:LYS:HG3	1:A:224:GLU:HG3	1.56	0.86
1:B:236:THR:HA	1:B:239:GLN:HG3	1.60	0.81
1:A:340:ASN:HA	1:A:343:LEU:HB2	1.64	0.79
1:A:222:LYS:HD2	1:A:253:GLN:O	1.86	0.74
1:B:125:GLN:HE22	2:C:2[B]:A:H62	1.33	0.73
1:A:322:MET:HG2	1:A:360:PHE:HB2	1.71	0.72
1:B:101:GLY:HA2	2:C:2[B]:A:H5'	1.71	0.72
1:B:151:ILE:HD11	1:B:313:TYR:HA	1.74	0.69
1:A:1:MET:HG2	1:A:93:LYS:H	1.58	0.68
1:A:336:THR:O	1:A:340:ASN:ND2	2.27	0.67
1:A:374:VAL:HG12	1:A:378:LEU:HD13	1.77	0.67
1:B:306:GLY:O	1:B:307:ASN:ND2	2.29	0.66
1:B:125:GLN:NE2	2:C:2[B]:A:H62	1.94	0.65
1:A:155:LEU:HG	1:A:160:TYR:CE1	2.32	0.65
1:A:267:PHE:HA	1:A:271:LYS:HB2	1.78	0.65
2:C:2[B]:A:H4'	2:C:3[B]:A:OP2	1.95	0.65
1:B:217:TYR:O	1:B:258:THR:N	2.31	0.63
1:A:213:VAL:HG21	1:A:217:TYR:CD2	2.34	0.62
1:B:201:LEU:HA	1:B:204:LEU:HD23	1.81	0.61
1:B:220:GLU:N	1:B:220:GLU:OE1	2.34	0.60
1:B:330:LEU:H	1:B:330:LEU:HD23	1.68	0.59
1:A:332:LYS:HG3	1:A:334:ALA:H	1.67	0.59
1:B:200:TYR:HE2	1:B:227:PHE:HD1	1.51	0.59
1:B:230:LEU:O	1:B:234:ILE:HG13	2.04	0.58
1:B:336:THR:O	1:B:340:ASN:ND2	2.37	0.57
1:B:213:VAL:HG12	1:B:214:SER:H	1.69	0.57
1:A:37:THR:H	1:A:40:THR:HG22	1.68	0.57
1:A:127:TRP:HB3	2:C:2[A]:A:N7	2.20	0.57
1:A:41:ARG:NH1	1:A:64:GLU:OE1	2.36	0.57
1:B:277:VAL:O	1:B:281:ILE:HG13	2.06	0.56
1:A:196:ARG:NH2	1:A:229:SER:OG	2.39	0.56
1:A:36:SER:O	1:A:67:LEU:N	2.31	0.56
1:B:292:VAL:HG12	1:B:294:ILE:HG13	1.88	0.55
1:B:20:TRP:CG	1:B:291:LEU:HD22	2.41	0.55
1:B:220:GLU:C	1:B:221:ILE:HG13	2.31	0.55
1:B:235:LYS:HG3	1:B:236:THR:H	1.71	0.55
1:B:346:LEU:O	1:B:359:LYS:NZ	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:TYR:HD1	1:B:291:LEU:HD21	1.71	0.55
1:A:155:LEU:HG	1:A:160:TYR:HE1	1.69	0.55
1:A:321:TRP:NE1	1:A:357:SER:OG	2.35	0.55
1:B:72:GLU:HA	1:B:79:ILE:HD11	1.88	0.54
1:A:28:ASN:N	1:A:28:ASN:OD1	2.41	0.54
1:B:200:TYR:CE2	1:B:227:PHE:HD1	2.25	0.54
1:A:149:GLU:HB2	1:A:314:LEU:HB3	1.89	0.54
1:B:247:LEU:HD12	1:B:248:GLU:HB2	1.91	0.53
1:B:273:PHE:O	1:B:277:VAL:HG23	2.10	0.52
1:B:9:THR:HG21	2:C:2[B]:A:C2	2.44	0.52
1:A:16:TYR:OH	1:A:286:GLN:OE1	2.28	0.51
1:B:370:GLN:OE1	1:B:373:LYS:HD3	2.10	0.51
1:A:132:LEU:HB2	1:A:143:GLU:HB3	1.92	0.51
1:B:217:TYR:CD1	1:B:219:PHE:HE1	2.28	0.51
1:B:56:LEU:HD12	1:B:283:ALA:HA	1.92	0.51
1:A:221:ILE:HG13	1:A:257:ILE:HD12	1.92	0.51
1:B:17:TYR:CD1	1:B:291:LEU:HD21	2.46	0.51
1:B:114:ALA:HA	1:B:120:TYR:HB2	1.93	0.50
1:B:262:LYS:HD3	1:B:263:GLU:H	1.76	0.50
1:A:180:ILE:HG23	1:A:276:LEU:HD12	1.92	0.50
1:B:200:TYR:HD2	1:B:230:LEU:HD12	1.77	0.50
1:A:26:GLN:HB2	1:A:29:ILE:HD11	1.94	0.50
1:A:179:TYR:CE1	1:A:237:LEU:HD12	2.47	0.49
1:B:151:ILE:HD12	1:B:151:ILE:H	1.76	0.49
1:B:213:VAL:HG12	1:B:214:SER:N	2.27	0.49
1:B:383:ILE:HG12	1:B:394:PHE:CD2	2.47	0.49
1:B:188:LYS:HA	1:B:389:PHE:HZ	1.78	0.49
1:B:322:MET:HE1	1:B:395:LEU:HD21	1.95	0.49
1:B:129:ASN:HB2	1:B:131:GLN:HG3	1.95	0.48
1:B:322:MET:HG2	1:B:360:PHE:HB2	1.94	0.48
1:A:222:LYS:NZ	1:A:253:GLN:OE1	2.47	0.48
1:A:23:PHE:HE2	1:A:32:ILE:HD11	1.78	0.47
1:B:127:TRP:HB3	2:C:2[B]:A:H8	1.78	0.47
1:B:169:PHE:O	1:B:177:TYR:OH	2.32	0.47
1:B:197:LEU:HA	1:B:230:LEU:HD13	1.96	0.47
1:B:150:ASN:OD1	1:B:151:ILE:N	2.48	0.47
1:A:319:PHE:O	1:A:358:HIS:N	2.47	0.47
1:B:127:TRP:HB3	2:C:2[B]:A:C8	2.50	0.47
1:A:167:THR:HG21	1:A:172:LEU:HD21	1.96	0.46
1:A:241:ALA:HB1	1:A:244:PHE:HD2	1.80	0.46
1:A:164:SER:N	1:A:299:THR:HG1	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:183:LEU:HG	1:A:237:LEU:HD11	1.97	0.46
1:A:373:LYS:HA	1:A:373:LYS:HD2	1.85	0.46
1:A:227:PHE:HE1	1:A:247:LEU:HD21	1.80	0.45
1:B:360:PHE:HZ	1:B:398:VAL:HG21	1.80	0.45
1:A:274:GLU:HG2	1:A:310:ASP:HB3	1.99	0.45
1:A:309:ILE:HD11	1:A:322:MET:N	2.31	0.45
1:A:217:TYR:O	1:A:258:THR:HA	2.16	0.45
1:A:151:ILE:HG21	1:A:298:LEU:HD11	1.98	0.45
1:B:332:LYS:HD3	1:B:332:LYS:HA	1.69	0.45
1:A:361:PHE:HE2	1:A:367:ILE:HG21	1.82	0.45
1:A:390:LYS:HB3	1:A:393:ARG:HG3	1.99	0.45
1:B:262:LYS:O	1:B:266:GLU:HG3	2.17	0.45
1:A:241:ALA:HB1	1:A:244:PHE:CD2	2.52	0.45
1:A:230:LEU:O	1:A:234:ILE:HG13	2.17	0.44
1:B:125:GLN:HE22	2:C:2[B]:A:N6	2.09	0.44
1:B:151:ILE:HD12	1:B:151:ILE:N	2.32	0.44
1:A:65:LEU:HD12	1:A:65:LEU:HA	1.87	0.44
1:A:72:GLU:HA	1:A:79:ILE:HD11	1.99	0.44
1:A:370:GLN:O	1:A:374:VAL:HG23	2.18	0.44
1:B:183:LEU:O	1:B:187:ILE:HG12	2.17	0.44
1:B:238:ALA:HB3	1:B:247:LEU:HD23	1.99	0.44
2:C:2[A]:A:H2'	2:C:2[A]:A:N3	2.33	0.44
1:B:16:TYR:OH	1:B:49:LEU:HA	2.18	0.44
1:A:100:THR:HG1	1:A:125:GLN:H	1.65	0.44
1:A:132:LEU:HD12	1:A:143:GLU:HG2	1.99	0.44
1:B:316:LYS:NZ	6:B:602:HOH:O	2.45	0.44
1:B:9:THR:HG21	2:C:2[B]:A:H2	1.83	0.43
1:B:100:THR:HG21	1:B:125:GLN:HB3	2.00	0.43
1:B:349:ILE:HB	1:B:359:LYS:HZ3	1.82	0.43
1:A:169:PHE:O	1:A:177:TYR:OH	2.24	0.43
1:A:223:LYS:HG2	1:A:227:PHE:HE2	1.82	0.43
1:B:51:GLU:HB2	1:B:174:ILE:HD11	2.00	0.43
1:A:281:ILE:HD11	1:A:322:MET:SD	2.59	0.43
1:B:152:ALA:O	1:B:154:ARG:HG3	2.18	0.43
1:B:125:GLN:NE2	2:C:2[B]:A:N6	2.65	0.43
1:B:349:ILE:HD13	1:B:349:ILE:HA	1.86	0.43
1:B:2:LYS:HG3	1:B:94:GLU:HB2	2.01	0.42
1:A:154:ARG:H	1:A:154:ARG:HG2	1.64	0.42
1:A:179:TYR:CE2	1:A:183:LEU:HD12	2.54	0.42
1:A:42:LYS:HB2	1:A:42:LYS:HE3	1.83	0.42
1:B:55:LEU:HD13	1:B:181:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:161:ASP:HB3	1:B:302:LYS:HA	2.02	0.42
1:B:188:LYS:HA	1:B:389:PHE:CZ	2.55	0.42
1:A:247:LEU:HD13	1:A:257:ILE:HG12	2.01	0.42
1:A:1:MET:HE2	1:A:30:GLU:OE2	2.20	0.42
1:A:185:LYS:O	1:A:189:ILE:HG12	2.18	0.42
1:A:221:ILE:O	1:A:255:SER:N	2.42	0.42
1:B:183:LEU:HD23	1:B:183:LEU:HA	1.75	0.42
1:B:235:LYS:HG3	1:B:236:THR:N	2.35	0.42
1:B:100:THR:HG22	2:C:2[B]:A:O4'	2.20	0.42
1:B:186:LEU:HB3	1:B:233:TRP:CZ3	2.55	0.42
1:B:370:GLN:O	1:B:373:LYS:HB3	2.19	0.42
1:B:72:GLU:HG2	1:B:73:GLU:HG2	2.02	0.41
1:A:151:ILE:HG22	1:A:151:ILE:O	2.19	0.41
1:A:221:ILE:HD13	1:A:221:ILE:HA	1.97	0.41
1:B:222:LYS:H	1:B:222:LYS:HG2	1.66	0.41
1:B:321:TRP:HE1	1:B:357:SER:HB3	1.85	0.41
1:A:37:THR:HG22	1:A:67:LEU:HD12	2.02	0.41
1:A:84:TYR:CZ	1:A:113:ILE:HG12	2.56	0.41
1:A:397:GLU:HA	1:A:400:HIS:HB3	2.02	0.41
1:A:68:PRO:O	1:A:71:ILE:HG23	2.21	0.41
1:A:180:ILE:HG13	1:A:275:VAL:HG12	2.02	0.41
1:B:7:THR:HG21	1:B:102:GLY:HA3	2.02	0.41
1:A:339:VAL:HG11	1:A:371:SER:HB3	2.03	0.41
1:A:213:VAL:HG21	1:A:217:TYR:HD2	1.84	0.41
1:B:52:LEU:HD13	1:B:56:LEU:HD22	2.02	0.41
1:B:41:ARG:HD2	1:B:66:HIS:CE1	2.56	0.40
1:B:92:PRO:HG2	1:B:95:ILE:HD11	2.03	0.40
1:B:281:ILE:HG13	1:B:281:ILE:H	1.67	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	373/405 (92%)	365 (98%)	8 (2%)	0	100	100
1	B	375/405 (93%)	359 (96%)	16 (4%)	0	100	100
All	All	748/810 (92%)	724 (97%)	24 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	344/360 (96%)	340 (99%)	4 (1%)	63	87
1	B	341/360 (95%)	334 (98%)	7 (2%)	47	79
All	All	685/720 (95%)	674 (98%)	11 (2%)	55	83

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	192	THR
1	A	255	SER
1	A	258	THR
1	A	380	VAL
1	B	19	ILE
1	B	30	GLU
1	B	36	SER
1	B	144	ASP
1	B	237	LEU
1	B	249	SER
1	B	397	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	110	GLN
1	A	210	GLN

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Mol	Chain	Res	Type
1	A	293	ASN
1	A	295	GLN
1	A	318	HIS
1	A	340	ASN
1	B	44	ASN
1	B	112	GLN
1	B	125	GLN
1	B	130	ASN
1	B	293	ASN
1	B	295	GLN
1	B	307	ASN
1	B	351	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	C	0/3	-	-

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

Mogul was not executed - this section is therefore empty.

5.5 Carbohydrates [i](#)

Mogul was not executed - this section is therefore empty.

5.6 Ligand geometry [i](#)

Mogul was not executed - this section is therefore empty.

5.7 Other polymers [i](#)

Mogul was not executed - this section is therefore empty.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section is therefore empty.

6.4 Ligands [i](#)

EDS was not executed - this section is therefore empty.

6.5 Other polymers [i](#)

EDS was not executed - this section is therefore empty.