



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 12:02 AM UTC

PDB ID : 3CKI / pdb_00003cki
Title : Crystal structure of the TACE-N-TIMP-3 complex
Authors : Wisniewska, M.; Goettig, P.; Maskos, K.; Belouski, E.; Winters, D.; Hecht, R.; Black, R.; Bode, W.
Deposited on : 2008-03-15
Resolution : 2.30 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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

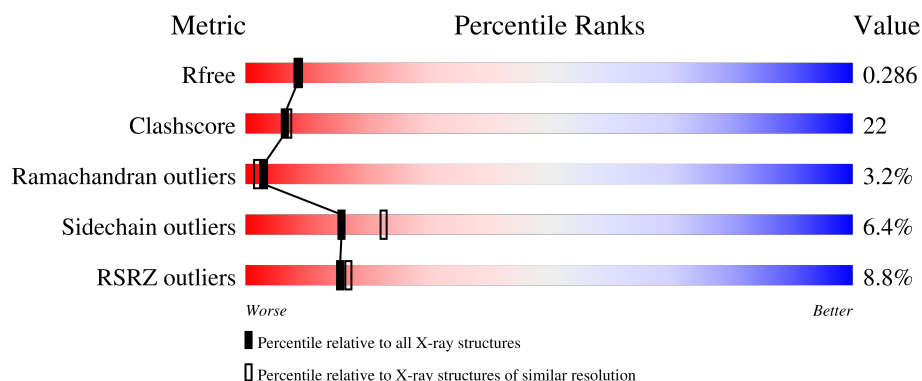
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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}	180053	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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 $\leq 5\%$. 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	256	
2	B	121	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3201 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 ADAM 17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	256	Total	C	N	O	S	23	0	0
			2032	1277	343	399	13			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	266	ALA	SER	engineered mutation	UNP P78536
A	452	GLN	ASN	engineered mutation	UNP P78536

- Molecule 2 is a protein called Metalloproteinase inhibitor 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	121	Total	C	N	O	S	70	0	0
			977	623	170	174	10			

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na).

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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	137	Total	O	0	0
			137	137		

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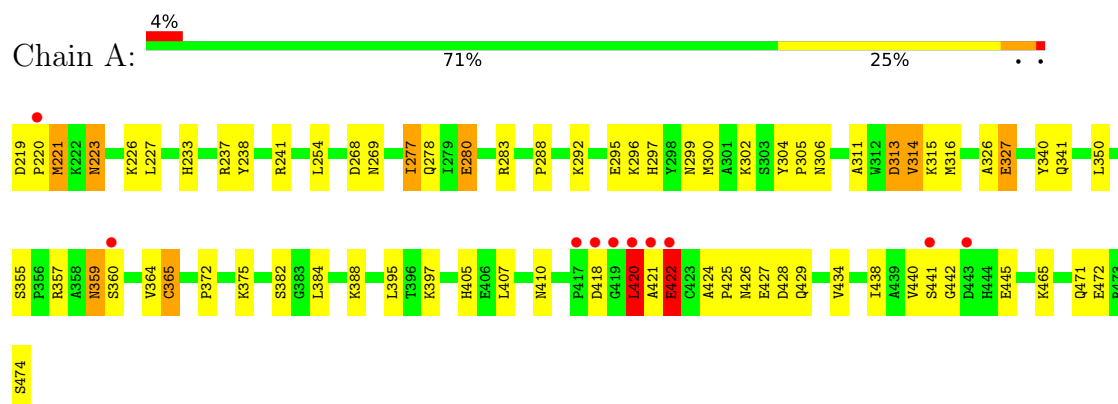
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	53	Total	O	0	0
			53	53		

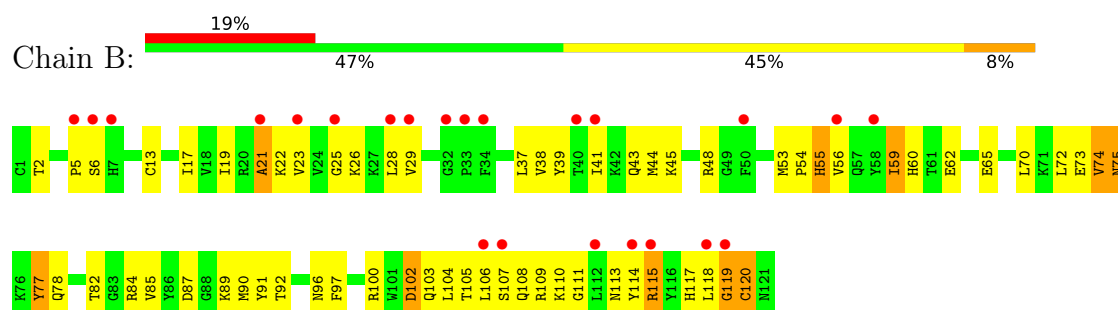
3 Residue-property plots

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 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: ADAM 17



• Molecule 2: Metalloproteinase inhibitor 3



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	70.45Å 70.45Å 156.73Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.59 – 2.30 19.59 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.2 (19.59-2.30) 99.1 (19.59-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.73 (at 2.30Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.234 , 0.284 0.235 , 0.286	Depositor DCC
R_{free} test set	922 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	36.4	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 51.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3201	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.81% 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: ZN, NA

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	0.53	0/2078	1.01	8/2803 (0.3%)
2	B	0.38	0/999	0.90	1/1343 (0.1%)
All	All	0.49	0/3077	0.98	9/4146 (0.2%)

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	422	GLU	N-CA-C	-9.58	100.71	111.82
1	A	221	MET	N-CA-C	-7.86	101.58	112.12
1	A	313	ASP	N-CA-C	-7.70	97.46	109.25
1	A	382	SER	N-CA-C	7.12	118.89	108.86
2	B	115	ARG	N-CA-C	-6.83	104.77	113.23
1	A	420	LEU	N-CA-C	-6.38	103.85	111.69
1	A	238	TYR	N-CA-C	6.19	120.03	112.23
1	A	314	VAL	N-CA-C	5.16	115.78	110.36
1	A	445	GLU	N-CA-C	5.11	116.84	111.28

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	2032	0	1943	63	0
2	B	977	0	978	64	0
3	A	1	0	0	0	0
4	A	1	0	0	0	0
5	A	137	0	0	8	0
5	B	53	0	0	1	0
All	All	3201	0	2921	124	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 22.

All (124) 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:297:HIS:HD2	1:A:299:ASN:H	1.12	0.94
1:A:227:LEU:HD22	1:A:277:ILE:HG23	1.52	0.91
1:A:278:GLN:HE22	1:A:474:SER:HA	1.44	0.81
1:A:297:HIS:CD2	1:A:299:ASN:H	2.00	0.77
2:B:59:ILE:HG12	2:B:90:MET:HE2	1.70	0.73
1:A:292:LYS:HB2	1:A:295:GLU:OE1	1.88	0.72
2:B:113:ASN:C	2:B:115:ARG:H	1.97	0.71
2:B:118:LEU:O	2:B:120:CYS:N	2.24	0.70
2:B:59:ILE:CG1	2:B:90:MET:HE2	2.22	0.70
2:B:105:THR:OG1	2:B:108:GLN:HG3	1.92	0.70
1:A:372:PRO:O	1:A:375:LYS:HD2	1.92	0.69
1:A:438:ILE:HG23	2:B:5:PRO:HD3	1.74	0.68
2:B:53:MET:SD	2:B:56:VAL:HG12	2.33	0.68
1:A:278:GLN:HE22	1:A:474:SER:CA	2.08	0.66
2:B:100:ARG:HB2	2:B:103:GLN:HG2	1.76	0.66
2:B:62:GLU:HG3	5:B:612:HOH:O	1.96	0.66
2:B:23:VAL:HA	2:B:41:ILE:HG22	1.78	0.65
2:B:39:TYR:HB2	2:B:59:ILE:CG2	2.27	0.65
1:A:227:LEU:H	1:A:227:LEU:HD23	1.62	0.64
1:A:313:ASP:CB	1:A:316:MET:HE3	2.28	0.63
1:A:227:LEU:HD22	1:A:277:ILE:CG2	2.27	0.62
2:B:43:GLN:HG2	2:B:44:MET:H	1.65	0.62
1:A:227:LEU:HD23	1:A:278:GLN:O	1.99	0.62
2:B:41:ILE:HD12	2:B:41:ILE:O	2.00	0.60
1:A:359:ASN:C	1:A:359:ASN:HD22	2.09	0.59
1:A:384:LEU:HD12	1:A:384:LEU:C	2.27	0.59
2:B:53:MET:HE1	2:B:89:LYS:HA	1.83	0.59
1:A:226:LYS:HG3	1:A:471:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:ARG:HH21	1:A:283:ARG:HA	1.69	0.58
1:A:233:HIS:CD2	1:A:288:PRO:HG3	2.39	0.57
2:B:39:TYR:HB2	2:B:59:ILE:HG22	1.87	0.57
1:A:278:GLN:NE2	1:A:474:SER:HA	2.16	0.57
1:A:384:LEU:HD12	1:A:384:LEU:O	2.05	0.56
1:A:314:VAL:HG22	1:A:350:LEU:HD22	1.87	0.56
2:B:19:ILE:HD12	2:B:21:ALA:HB2	1.88	0.56
2:B:43:GLN:HE21	2:B:56:VAL:HG22	1.69	0.56
2:B:21:ALA:HA	2:B:44:MET:HG3	1.88	0.55
2:B:117:HIS:C	2:B:119:GLY:H	2.15	0.55
2:B:43:GLN:HG2	2:B:44:MET:N	2.22	0.54
1:A:305:PRO:HG3	1:A:316:MET:HE1	1.89	0.54
2:B:113:ASN:C	2:B:115:ARG:N	2.65	0.54
2:B:60:HIS:O	2:B:91:TYR:HA	2.08	0.53
1:A:418:ASP:O	1:A:420:LEU:N	2.36	0.53
2:B:82:THR:HG23	2:B:96:ASN:HD22	1.74	0.53
2:B:105:THR:H	2:B:108:GLN:HE21	1.54	0.53
2:B:102:ASP:OD2	2:B:102:ASP:N	2.42	0.53
2:B:43:GLN:NE2	2:B:56:VAL:H	2.06	0.53
1:A:326:ALA:HA	5:A:607:HOH:O	2.08	0.52
2:B:59:ILE:C	2:B:59:ILE:HD13	2.34	0.52
2:B:82:THR:HG22	2:B:97:PHE:O	2.09	0.52
2:B:82:THR:CG2	2:B:96:ASN:HB3	2.39	0.52
1:A:283:ARG:NH1	5:A:736:HOH:O	2.35	0.52
1:A:315:LYS:NZ	2:B:62:GLU:OE2	2.43	0.52
1:A:306:ASN:ND2	5:A:704:HOH:O	2.42	0.51
1:A:426:ASN:H	1:A:429:GLN:NE2	2.08	0.51
1:A:254:LEU:C	1:A:254:LEU:HD23	2.35	0.51
2:B:107:SER:O	2:B:110:LYS:HB3	2.10	0.51
2:B:111:GLY:O	2:B:114:TYR:HB3	2.11	0.51
2:B:59:ILE:HD13	2:B:60:HIS:N	2.25	0.51
1:A:327:GLU:HB2	5:A:647:HOH:O	2.11	0.51
1:A:395:LEU:HD12	1:A:397:LYS:HE2	1.93	0.51
1:A:357:ARG:HG2	1:A:359:ASN:ND2	2.27	0.50
1:A:395:LEU:CD1	1:A:397:LYS:HE2	2.42	0.50
2:B:118:LEU:O	2:B:119:GLY:C	2.54	0.50
1:A:227:LEU:HD23	1:A:227:LEU:N	2.26	0.50
1:A:311:ALA:HB2	1:A:341:GLN:HB2	1.93	0.50
2:B:59:ILE:HD11	2:B:92:THR:CB	2.41	0.50
1:A:424:ALA:N	1:A:425:PRO:HD3	2.27	0.50
2:B:59:ILE:HG13	2:B:90:MET:HE2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:ASP:O	1:A:221:MET:N	2.34	0.49
1:A:237:ARG:NH1	5:A:662:HOH:O	2.08	0.49
2:B:70:LEU:HD22	2:B:92:THR:CG2	2.43	0.48
1:A:223:ASN:C	1:A:223:ASN:HD22	2.20	0.48
1:A:268:ASP:O	1:A:269:ASN:HB2	2.14	0.48
2:B:72:LEU:O	2:B:73:GLU:HG3	2.13	0.48
1:A:300:MET:HE3	1:A:302:LYS:HG3	1.95	0.48
2:B:105:THR:H	2:B:108:GLN:NE2	2.11	0.48
1:A:297:HIS:HD2	1:A:299:ASN:N	1.95	0.48
1:A:306:ASN:HB2	5:A:705:HOH:O	2.13	0.48
2:B:117:HIS:C	2:B:119:GLY:N	2.71	0.47
1:A:364:VAL:O	1:A:365:CYS:HB2	2.15	0.47
1:A:405:HIS:CD2	2:B:2:THR:HG23	2.50	0.46
2:B:59:ILE:HG23	2:B:59:ILE:O	2.16	0.46
2:B:97:PHE:C	2:B:97:PHE:CD1	2.93	0.46
1:A:360:SER:HB3	1:A:465:LYS:HZ1	1.80	0.46
2:B:84:ARG:O	2:B:90:MET:HA	2.16	0.46
2:B:115:ARG:O	2:B:118:LEU:N	2.49	0.45
1:A:223:ASN:ND2	1:A:223:ASN:H	2.13	0.45
1:A:340:TYR:CE2	1:A:388:LYS:HD2	2.51	0.45
2:B:44:MET:SD	2:B:78:GLN:NE2	2.90	0.45
1:A:472:GLU:HB3	5:A:677:HOH:O	2.17	0.45
1:A:221:MET:HG3	1:A:472:GLU:HG2	1.99	0.45
1:A:226:LYS:HB3	1:A:280:GLU:HB2	1.98	0.45
2:B:77:TYR:CE1	2:B:100:ARG:HD2	2.52	0.45
2:B:38:VAL:HG13	2:B:38:VAL:O	2.16	0.44
1:A:296:LYS:HD3	1:A:304:TYR:CE2	2.53	0.44
1:A:223:ASN:HD22	1:A:223:ASN:H	1.65	0.44
1:A:359:ASN:C	1:A:359:ASN:ND2	2.75	0.44
2:B:28:LEU:O	2:B:37:LEU:HD12	2.18	0.44
2:B:59:ILE:HD11	2:B:92:THR:HB	2.00	0.44
2:B:17:ILE:HG22	2:B:19:ILE:HG23	1.99	0.44
2:B:48:ARG:HH21	2:B:48:ARG:HG3	1.82	0.43
2:B:100:ARG:CB	2:B:103:GLN:HG2	2.47	0.43
1:A:313:ASP:HB2	1:A:316:MET:HE3	1.99	0.43
1:A:420:LEU:O	1:A:422:GLU:N	2.52	0.43
1:A:283:ARG:CZ	1:A:283:ARG:HB3	2.49	0.43
2:B:22:LYS:O	2:B:41:ILE:HG22	2.19	0.42
2:B:13:CYS:SG	2:B:120:CYS:N	2.93	0.42
2:B:39:TYR:CE2	2:B:72:LEU:HB2	2.55	0.42
2:B:54:PRO:O	2:B:55:HIS:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:LEU:HD23	1:A:350:LEU:N	2.34	0.42
1:A:427:GLU:C	1:A:429:GLN:H	2.27	0.42
1:A:474:SER:HB3	5:A:731:HOH:O	2.20	0.41
2:B:74:VAL:O	2:B:75:ASN:C	2.63	0.41
2:B:85:VAL:HA	2:B:89:LYS:O	2.21	0.41
2:B:106:LEU:HA	2:B:109:ARG:HG2	2.02	0.41
2:B:53:MET:HE1	2:B:89:LYS:CA	2.49	0.41
1:A:418:ASP:C	1:A:420:LEU:H	2.25	0.40
2:B:104:LEU:HD12	2:B:104:LEU:HA	1.97	0.40
1:A:314:VAL:HG13	1:A:315:LYS:N	2.35	0.40
2:B:119:GLY:O	2:B:120:CYS:C	2.63	0.40
1:A:223:ASN:C	1:A:223:ASN:ND2	2.79	0.40
1:A:407:LEU:O	1:A:410:ASN:HB2	2.22	0.40
2:B:100:ARG:HB2	2:B:103:GLN:CG	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	254/256 (99%)	237 (93%)	11 (4%)	6 (2%)	4	4
2	B	119/121 (98%)	97 (82%)	16 (13%)	6 (5%)	1	1
All	All	373/377 (99%)	334 (90%)	27 (7%)	12 (3%)	3	2

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	421	ALA
1	A	440	VAL
2	B	119	GLY
1	A	441	SER

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Mol	Chain	Res	Type
2	B	21	ALA
2	B	75	ASN
2	B	120	CYS
1	A	365	CYS
1	A	442	GLY
2	B	55	HIS
2	B	25	GLY
1	A	220	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	219/219 (100%)	208 (95%)	11 (5%)	22	33
2	B	108/108 (100%)	98 (91%)	10 (9%)	8	11
All	All	327/327 (100%)	306 (94%)	21 (6%)	16	23

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	223	ASN
1	A	241	ARG
1	A	277	ILE
1	A	280	GLU
1	A	327	GLU
1	A	355	SER
1	A	359	ASN
1	A	420	LEU
1	A	422	GLU
1	A	428	ASP
1	A	434	VAL
2	B	6	SER
2	B	26	LYS
2	B	29	VAL
2	B	45	LYS

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Mol	Chain	Res	Type
2	B	59	ILE
2	B	65	GLU
2	B	74	VAL
2	B	77	TYR
2	B	87	ASP
2	B	102	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	223	ASN
1	A	297	HIS
1	A	306	ASN
1	A	359	ASN
1	A	361	HIS
1	A	429	GLN
1	A	446	ASN
1	A	467	GLN
1	A	471	GLN
2	B	7	HIS
2	B	14	ASN
2	B	43	GLN
2	B	60	HIS
2	B	96	ASN
2	B	108	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

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

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	256/256 (100%)	-0.05	10 (3%) 43 45	8, 31, 62, 83	7 (2%)
2	B	120/121 (99%)	1.24	23 (19%) 3 3	29, 62, 92, 101	18 (15%)
All	All	376/377 (99%)	0.36	33 (8%) 15 17	8, 39, 81, 101	25 (6%)

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	419	GLY	5.9
1	A	421	ALA	3.9
2	B	23	VAL	3.5
1	A	420	LEU	3.2
2	B	119	GLY	2.8
2	B	29	VAL	2.8
2	B	41	ILE	2.8
2	B	32	GLY	2.7
2	B	6	SER	2.7
2	B	5	PRO	2.7
2	B	25	GLY	2.6
2	B	34	PHE	2.6
1	A	360	SER	2.4
2	B	56	VAL	2.4
1	A	417	PRO	2.4
2	B	115	ARG	2.4
2	B	7	HIS	2.4
2	B	50	PHE	2.4
1	A	418	ASP	2.4
1	A	422	GLU	2.4
2	B	33	PRO	2.3
2	B	40	THR	2.3
2	B	118	LEU	2.3
2	B	114	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
2	B	112	LEU	2.2
2	B	106	LEU	2.2
1	A	220	PRO	2.1
2	B	21	ALA	2.1
1	A	441	SER	2.1
2	B	28	LEU	2.1
2	B	58	TYR	2.1
2	B	107	SER	2.0
1	A	443	ASP	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 oligosaccharides 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(\AA^2)	Q<0.9
4	NA	A	502	1/1	0.92	0.08	35,35,35,35	0
3	ZN	A	501	1/1	1.00	0.09	38,38,38,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.