



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 12:21 AM UTC

PDB ID : 6A5A / pdb_00006a5a
Title : Crystal structure of plant Receptor-like Kinase ANX1
Authors : Xiao, Y.; Chai, J.
Deposited on : 2018-06-22
Resolution : 2.94 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

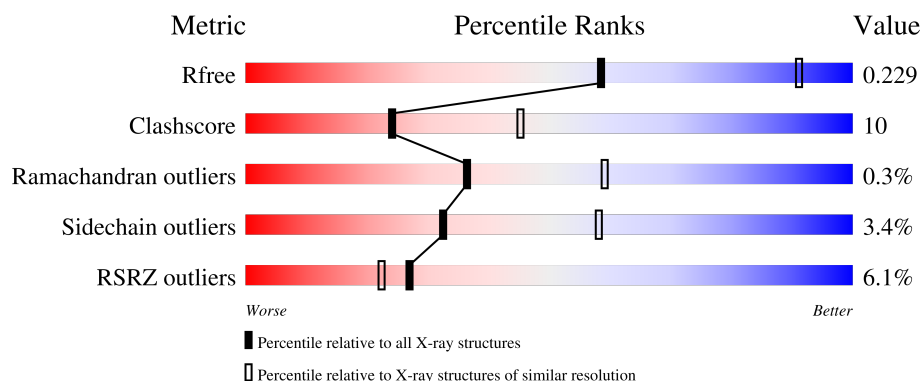
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.94 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	1159 (2.96-2.92)
Clashscore	190562	1184 (2.96-2.92)
Ramachandran outliers	187476	1131 (2.96-2.92)
Sidechain outliers	187428	1131 (2.96-2.92)
RSRZ outliers	180081	1159 (2.96-2.92)

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	385	4% 70% 25% ..
1	B	385	8% 70% 25% ..

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 5920 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.

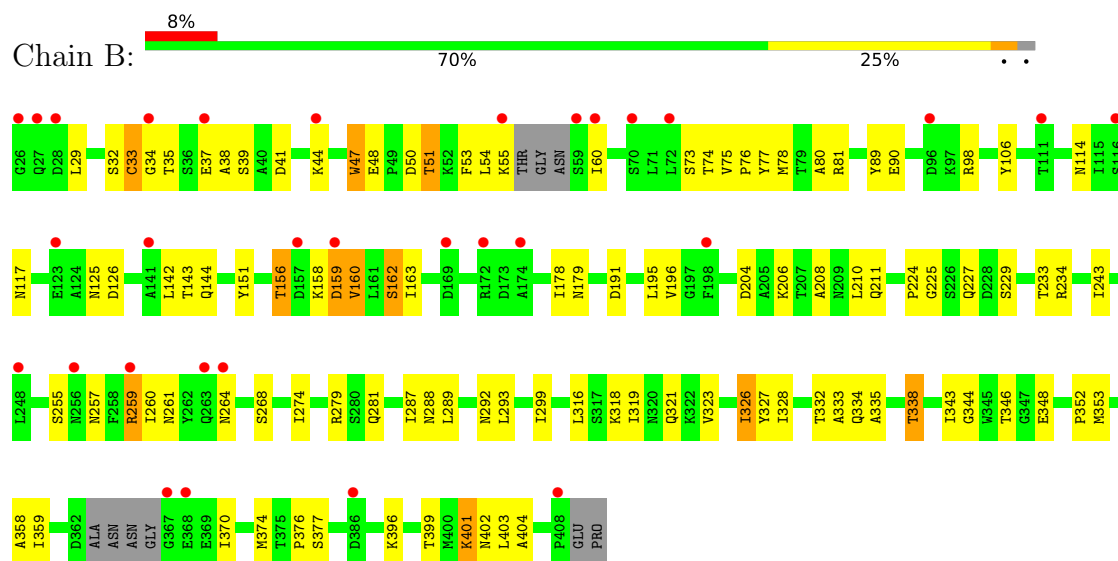
- Molecule 1 is a protein called Receptor-like protein kinase ANXUR1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	376	Total	C	N	O	S	0	0	0
			2960	1891	479	577	13			
1	A	376	Total	C	N	O	S	0	0	0
			2960	1891	479	577	13			

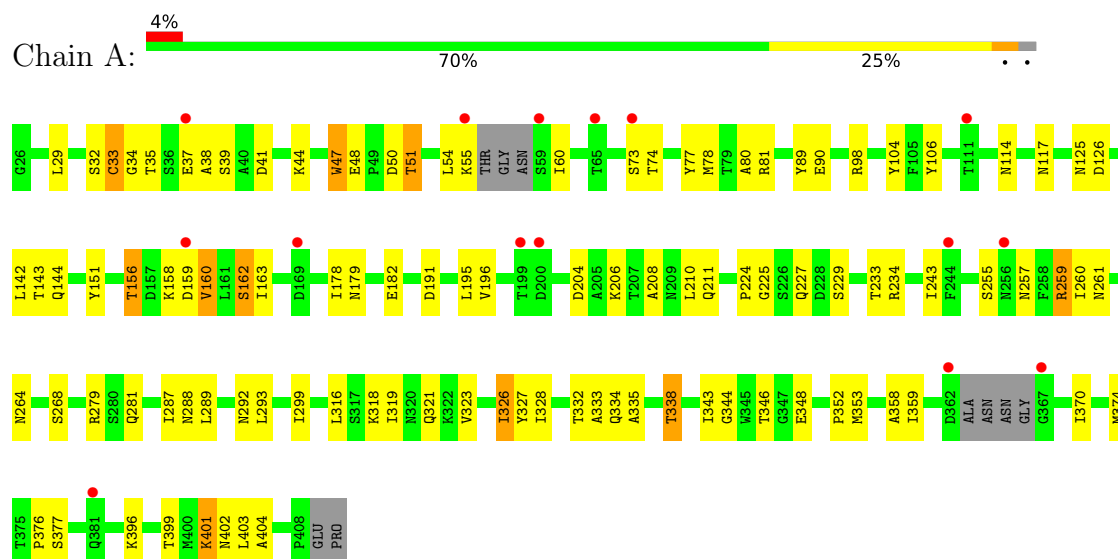
3 Residue-property plots [i](#)

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: Receptor-like protein kinase ANXUR1



- Molecule 1: Receptor-like protein kinase ANXUR1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	61.34Å 77.55Å 99.29Å 90.00° 100.52° 90.00°	Depositor
Resolution (Å)	41.86 – 2.94 41.86 – 2.94	Depositor EDS
% Data completeness (in resolution range)	98.2 (41.86-2.94) 98.3 (41.86-2.94)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	7.44 (at 2.95Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.196 , 0.260 0.223 , 0.229	Depositor DCC
R_{free} test set	989 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	32.1	Xtriage
Anisotropy	0.650	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 29.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	5920	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.57% 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

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	1.03	14/3029 (0.5%)	0.94	12/4117 (0.3%)
1	B	1.02	13/3029 (0.4%)	0.93	14/4117 (0.3%)
All	All	1.02	27/6058 (0.4%)	0.93	26/8234 (0.3%)

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	328	ILE	C-O	-7.20	1.16	1.24
1	B	328	ILE	C-O	-7.18	1.16	1.24
1	A	163	ILE	C-O	-6.64	1.17	1.24
1	B	163	ILE	C-O	-6.58	1.17	1.24
1	B	160	VAL	C-O	-6.35	1.17	1.24
1	A	162	SER	CA-C	-6.28	1.45	1.52
1	B	327	TYR	C-O	-6.27	1.16	1.23
1	A	327	TYR	C-O	-6.25	1.16	1.23
1	A	160	VAL	C-O	-6.23	1.17	1.24
1	B	162	SER	CA-C	-6.18	1.45	1.52
1	A	47	TRP	NE1-CE2	-5.79	1.31	1.37
1	B	47	TRP	NE1-CE2	-5.73	1.31	1.37
1	B	293	LEU	C-O	-5.39	1.17	1.24
1	B	402	ASN	C-O	-5.39	1.18	1.23
1	A	402	ASN	C-O	-5.37	1.18	1.23
1	A	403	LEU	C-O	-5.35	1.16	1.24
1	A	293	LEU	C-O	-5.35	1.17	1.24
1	B	403	LEU	C-O	-5.32	1.16	1.24
1	B	29	LEU	C-O	-5.27	1.17	1.24
1	A	29	LEU	C-O	-5.24	1.17	1.24
1	B	326	ILE	C-O	-5.20	1.18	1.24
1	B	288	ASN	C-O	-5.18	1.18	1.24
1	A	288	ASN	C-O	-5.16	1.18	1.24
1	A	326	ILE	C-O	-5.15	1.18	1.24
1	B	162	SER	C-O	-5.09	1.17	1.24
1	A	73	SER	C-O	-5.02	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	162	SER	C-O	-5.00	1.18	1.24

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	77	TYR	N-CA-C	9.97	123.17	111.71
1	B	77	TYR	N-CA-C	9.96	123.17	111.71
1	B	80	ALA	N-CA-C	6.71	119.92	109.52
1	A	80	ALA	N-CA-C	6.69	119.89	109.52
1	A	51	THR	N-CA-C	6.51	118.45	111.36
1	B	51	THR	N-CA-C	6.49	118.43	111.36
1	B	73	SER	CA-C-N	5.95	128.74	120.29
1	B	73	SER	C-N-CA	5.95	128.74	120.29
1	B	399	THR	N-CA-C	-5.94	98.05	108.20
1	A	73	SER	CA-C-N	5.94	128.72	120.29
1	A	73	SER	C-N-CA	5.94	128.72	120.29
1	A	399	THR	N-CA-C	-5.92	98.08	108.20
1	B	158	LYS	CA-C-N	5.67	128.44	120.28
1	B	158	LYS	C-N-CA	5.67	128.44	120.28
1	A	158	LYS	CA-C-N	5.64	128.40	120.28
1	A	158	LYS	C-N-CA	5.64	128.40	120.28
1	A	293	LEU	N-CA-C	-5.38	100.41	108.96
1	B	293	LEU	N-CA-C	-5.37	100.43	108.96
1	A	29	LEU	N-CA-C	5.36	118.14	109.40
1	B	29	LEU	N-CA-C	5.36	118.13	109.40
1	A	404	ALA	N-CA-C	5.32	117.42	108.96
1	B	404	ALA	N-CA-C	5.29	117.38	108.96
1	B	401	LYS	N-CA-C	5.08	118.59	111.74
1	A	401	LYS	N-CA-C	5.06	118.58	111.74
1	B	53	PHE	N-CA-C	5.01	119.37	113.16
1	B	159	ASP	N-CA-C	5.01	117.47	111.71

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	2960	0	2882	59	0
1	B	2960	0	2882	58	0
All	All	5920	0	5764	117	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 10.

All (117) 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:243:ILE:HD11	1:B:279:ARG:NH1	1.92	0.85
1:A:243:ILE:HD11	1:A:279:ARG:NH1	1.92	0.83
1:A:343:ILE:HA	1:A:346:THR:HG22	1.60	0.83
1:B:243:ILE:HD11	1:B:279:ARG:HH11	1.45	0.82
1:A:243:ILE:HD11	1:A:279:ARG:HH11	1.45	0.82
1:B:343:ILE:HA	1:B:346:THR:HG22	1.60	0.82
1:A:319:ILE:HD12	1:A:344:GLY:HA2	1.65	0.79
1:B:323:VAL:HG12	1:B:377:SER:HB3	1.67	0.77
1:B:319:ILE:HD12	1:B:344:GLY:HA2	1.65	0.77
1:A:224:PRO:HG2	1:A:227:GLN:HG3	1.67	0.76
1:A:323:VAL:HG12	1:A:377:SER:HB3	1.66	0.76
1:B:224:PRO:HG2	1:B:227:GLN:HG3	1.67	0.73
1:B:289:LEU:HD23	1:B:376:PRO:HG2	1.72	0.71
1:A:289:LEU:HD23	1:A:376:PRO:HG2	1.72	0.71
1:A:334:GLN:HG3	1:A:338:THR:O	1.92	0.70
1:B:334:GLN:HG3	1:B:338:THR:O	1.92	0.70
1:A:299:ILE:HG12	1:A:370:ILE:HG13	1.78	0.66
1:B:299:ILE:HG12	1:B:370:ILE:HG13	1.78	0.64
1:B:55:LYS:HD2	1:B:55:LYS:C	2.24	0.62
1:A:55:LYS:HD2	1:A:55:LYS:C	2.24	0.62
1:A:33:CYS:O	1:A:35:THR:N	2.30	0.62
1:A:125:ASN:HD22	1:A:156:THR:HG21	1.67	0.59
1:B:346:THR:HG23	1:B:348:GLU:H	1.69	0.58
1:B:33:CYS:O	1:B:35:THR:N	2.30	0.57
1:B:125:ASN:HD22	1:B:156:THR:HG21	1.67	0.57
1:A:346:THR:HG23	1:A:348:GLU:H	1.69	0.57
1:A:41:ASP:O	1:A:44:LYS:HD2	2.05	0.56
1:B:41:ASP:O	1:B:44:LYS:HD2	2.05	0.56
1:B:74:THR:HG23	1:B:78:MET:HG3	1.90	0.54
1:A:204:ASP:OD1	1:A:206:LYS:NZ	2.32	0.54
1:B:225:GLY:O	1:B:233:THR:HA	2.08	0.53
1:B:332:THR:HG23	1:B:335:ALA:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:GLY:O	1:A:233:THR:HA	2.08	0.53
1:B:114:ASN:HB3	1:B:117:ASN:ND2	2.24	0.53
1:A:114:ASN:HB3	1:A:117:ASN:ND2	2.24	0.53
1:A:74:THR:HG23	1:A:78:MET:HG3	1.90	0.53
1:A:332:THR:HG23	1:A:335:ALA:HB3	1.91	0.53
1:A:260:ILE:CG2	1:A:352:PRO:HG3	2.40	0.52
1:A:260:ILE:HG22	1:A:352:PRO:HG3	1.93	0.51
1:B:204:ASP:OD1	1:B:206:LYS:NZ	2.32	0.51
1:B:260:ILE:CG2	1:B:352:PRO:HG3	2.40	0.51
1:B:260:ILE:HG22	1:B:352:PRO:HG3	1.93	0.51
1:A:126:ASP:OD2	1:A:401:LYS:HE3	2.11	0.51
1:B:255:SER:HB2	1:B:257:ASN:OD1	2.12	0.50
1:A:196:VAL:HG21	1:A:359:ILE:HD12	1.93	0.50
1:B:126:ASP:OD2	1:B:401:LYS:HE3	2.11	0.50
1:A:104:TYR:OH	1:A:182:GLU:OE2	2.20	0.49
1:B:196:VAL:HG21	1:B:359:ILE:HD12	1.93	0.49
1:B:60:ILE:HD13	1:B:60:ILE:N	2.28	0.49
1:A:255:SER:HB2	1:A:257:ASN:OD1	2.12	0.49
1:A:60:ILE:HD13	1:A:60:ILE:N	2.28	0.48
1:B:261:ASN:O	1:B:352:PRO:HD3	2.15	0.47
1:B:142:LEU:HB2	1:B:144:GLN:HG3	1.97	0.47
1:B:191:ASP:OD1	1:B:206:LYS:HE3	2.15	0.47
1:B:292:ASN:HA	1:B:374:MET:O	2.15	0.47
1:A:50:ASP:HB2	1:A:89:TYR:HE2	1.80	0.47
1:A:191:ASP:OD1	1:A:206:LYS:HE3	2.15	0.47
1:B:33:CYS:HB2	1:B:179:ASN:O	2.15	0.47
1:A:33:CYS:HB2	1:A:179:ASN:O	2.15	0.47
1:A:261:ASN:O	1:A:352:PRO:HD3	2.15	0.47
1:A:292:ASN:HA	1:A:374:MET:O	2.15	0.47
1:B:143:THR:HG22	1:B:143:THR:O	2.14	0.46
1:B:50:ASP:HB2	1:B:89:TYR:HE2	1.80	0.46
1:A:143:THR:HG22	1:A:143:THR:O	2.14	0.46
1:A:353:MET:HE3	1:A:353:MET:HB2	1.89	0.46
1:B:33:CYS:SG	1:B:178:ILE:HG23	2.56	0.46
1:A:151:TYR:CE2	1:A:211:GLN:HG3	2.51	0.46
1:B:151:TYR:CE2	1:B:211:GLN:HG3	2.51	0.46
1:A:55:LYS:C	1:A:55:LYS:CD	2.87	0.46
1:B:32:SER:HB2	1:B:47:TRP:HB3	1.97	0.45
1:B:318:LYS:O	1:B:321:GLN:HG3	2.16	0.45
1:A:210:LEU:HA	1:A:396:LYS:O	2.16	0.45
1:A:33:CYS:SG	1:A:178:ILE:HG23	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:LEU:HB2	1:A:144:GLN:HG3	1.97	0.45
1:B:191:ASP:HA	1:B:206:LYS:HG2	1.98	0.45
1:B:55:LYS:C	1:B:55:LYS:CD	2.87	0.45
1:A:225:GLY:HA2	1:A:234:ARG:O	2.17	0.45
1:B:210:LEU:HA	1:B:396:LYS:O	2.16	0.45
1:A:191:ASP:HA	1:A:206:LYS:HG2	1.98	0.45
1:A:318:LYS:O	1:A:321:GLN:HG3	2.16	0.44
1:A:41:ASP:O	1:A:44:LYS:N	2.49	0.44
1:A:90:GLU:HB3	1:A:160:VAL:HG11	2.00	0.44
1:A:229:SER:HB3	1:A:268:SER:HA	2.00	0.44
1:B:90:GLU:HB3	1:B:160:VAL:HG11	2.00	0.44
1:B:259:ARG:CD	1:B:259:ARG:C	2.91	0.43
1:A:259:ARG:C	1:A:259:ARG:CD	2.91	0.43
1:B:195:LEU:HD23	1:B:358:ALA:HB3	2.01	0.43
1:A:195:LEU:HD23	1:A:358:ALA:HB3	2.01	0.43
1:B:225:GLY:HA2	1:B:234:ARG:O	2.17	0.43
1:B:259:ARG:C	1:B:259:ARG:HD3	2.44	0.43
1:A:32:SER:HB2	1:A:47:TRP:HB3	2.01	0.43
1:A:106:TYR:N	1:A:179:ASN:OD1	2.49	0.43
1:B:98:ARG:NH2	1:B:208:ALA:O	2.51	0.43
1:B:229:SER:HB3	1:B:268:SER:HA	2.00	0.43
1:A:37:GLU:CD	1:A:38:ALA:H	2.27	0.43
1:B:234:ARG:NH2	1:B:268:SER:O	2.52	0.43
1:A:98:ARG:NH2	1:A:208:ALA:O	2.51	0.42
1:A:259:ARG:C	1:A:259:ARG:HD3	2.44	0.42
1:B:106:TYR:N	1:B:179:ASN:OD1	2.48	0.42
1:A:234:ARG:NH2	1:A:268:SER:O	2.52	0.42
1:A:33:CYS:HA	1:A:50:ASP:HB3	2.01	0.42
1:B:75:VAL:HA	1:B:76:PRO:HA	1.73	0.42
1:B:37:GLU:CD	1:B:38:ALA:H	2.27	0.42
1:B:33:CYS:HA	1:B:50:ASP:HB3	2.01	0.42
1:B:89:TYR:O	1:B:162:SER:HA	2.20	0.41
1:A:126:ASP:OD1	1:A:126:ASP:N	2.47	0.41
1:B:281:GLN:OE1	1:B:376:PRO:HD3	2.21	0.41
1:A:51:THR:OG1	1:A:81:ARG:NH2	2.53	0.41
1:A:89:TYR:O	1:A:162:SER:HA	2.20	0.41
1:B:51:THR:OG1	1:B:81:ARG:NH2	2.53	0.41
1:B:274:ILE:HD13	1:B:274:ILE:HA	1.84	0.41
1:B:326:ILE:HG22	1:B:333:ALA:HB3	2.03	0.41
1:A:281:GLN:OE1	1:A:376:PRO:HD3	2.21	0.41
1:B:50:ASP:OD2	1:B:81:ARG:NE	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:MET:HE3	1:B:353:MET:HB2	1.89	0.41
1:A:326:ILE:HG22	1:A:333:ALA:HB3	2.03	0.40
1:A:229:SER:HB2	1:A:234:ARG:NH2	2.37	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	370/385 (96%)	356 (96%)	13 (4%)	1 (0%)	36	59
1	B	370/385 (96%)	356 (96%)	13 (4%)	1 (0%)	36	59
All	All	740/770 (96%)	712 (96%)	26 (4%)	2 (0%)	36	59

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	34	GLY
1	A	34	GLY

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	323/329 (98%)	312 (97%)	11 (3%)	32	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	323/329 (98%)	312 (97%)	11 (3%)	32	58
All	All	646/658 (98%)	624 (97%)	22 (3%)	32	58

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	33	CYS
1	B	39	SER
1	B	48	GLU
1	B	54	LEU
1	B	156	THR
1	B	159	ASP
1	B	259	ARG
1	B	264	ASN
1	B	287	ILE
1	B	316	LEU
1	B	338	THR
1	A	33	CYS
1	A	39	SER
1	A	48	GLU
1	A	54	LEU
1	A	156	THR
1	A	159	ASP
1	A	259	ARG
1	A	264	ASN
1	A	287	ILE
1	A	316	LEU
1	A	338	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	99	HIS
1	B	117	ASN
1	B	185	GLN
1	B	217	ASN
1	A	99	HIS
1	A	117	ASN
1	A	185	GLN
1	A	217	ASN
1	A	325	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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

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	376/385 (97%)	0.41	15 (3%) 42 34	15, 28, 50, 74	0
1	B	376/385 (97%)	0.74	31 (8%) 17 15	15, 28, 50, 74	0
All	All	752/770 (97%)	0.57	46 (6%) 27 22	15, 28, 50, 74	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	264	ASN	4.4
1	B	367	GLY	4.0
1	B	256	ASN	3.9
1	A	367	GLY	3.9
1	B	44	LYS	3.8
1	A	111	THR	3.6
1	B	27	GLN	3.4
1	B	37	GLU	3.4
1	B	157	ASP	3.4
1	B	96	ASP	3.3
1	B	116	SER	3.2
1	A	73	SER	3.1
1	B	59	SER	3.1
1	B	55	LYS	3.0
1	B	408	PRO	3.0
1	A	37	GLU	2.9
1	A	256	ASN	2.9
1	A	244	PHE	2.9
1	B	111	THR	2.9
1	B	159	ASP	2.8
1	B	26	GLY	2.8
1	A	199	THR	2.8
1	A	65	THR	2.7
1	A	381	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	141	ALA	2.6
1	B	174	ALA	2.5
1	B	34	GLY	2.5
1	B	169	ASP	2.5
1	A	362	ASP	2.4
1	B	263	GLN	2.3
1	B	172	ARG	2.3
1	B	28	ASP	2.3
1	A	159	ASP	2.3
1	B	60	ILE	2.3
1	B	248	LEU	2.2
1	A	59	SER	2.2
1	B	123	GLU	2.2
1	A	55	LYS	2.1
1	B	386	ASP	2.1
1	B	198	PHE	2.1
1	B	259	ARG	2.1
1	A	169	ASP	2.1
1	A	200	ASP	2.1
1	B	368	GLU	2.0
1	B	70	SER	2.0
1	B	72	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.