



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 04:53 PM UTC

PDB ID : 4RW8 / pdb_00004rw8
Title : Crystal Structure of HIV-1 Reverse Transcriptase in complex with (E)-3-(3-chloro-5-(2-(2-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)ethoxy)phenoxy)phenyl)acrylonitrile (JLJ532), a non-nucleoside inhibitor'
Authors : Frey, K.M.; Anderson, K.S.
Deposited on : 2014-12-01
Resolution : 2.88 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 : 2022.3.0, CSD as543be (2022)
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

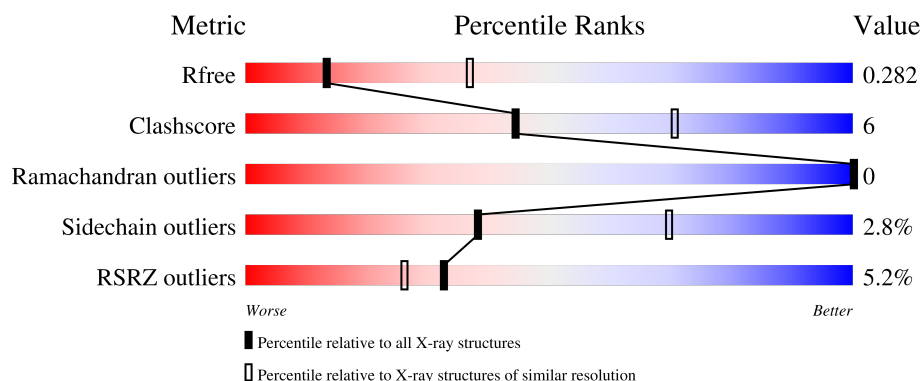
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.88 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	3557 (2.90-2.86)
Clashscore	190562	3801 (2.90-2.86)
Ramachandran outliers	187476	3699 (2.90-2.86)
Sidechain outliers	187428	3702 (2.90-2.86)
RSRZ outliers	180081	3558 (2.90-2.86)

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	557	5% 79% 19% ..
2	B	428	5% 82% 14% .

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7930 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 Reverse transcriptase/ribonuclease H, p66 subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	548	Total	C	N	O	S	0	0	0
			4458	2886	741	824	7			

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	MET	-	expression tag	UNP P03366
A	0	VAL	-	expression tag	UNP P03366
A	172	ALA	LYS	engineered mutation	UNP P03366
A	173	ALA	LYS	engineered mutation	UNP P03366
A	280	SER	CYS	engineered mutation	UNP P03366

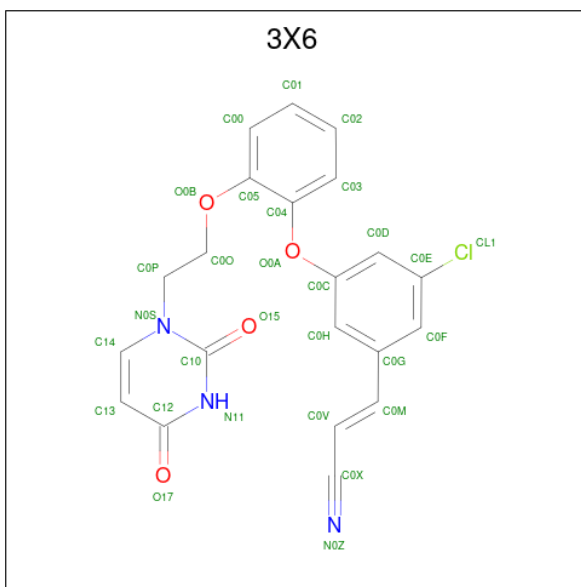
- Molecule 2 is a protein called Reverse transcriptase/ribonuclease H, p51 subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	415	Total	C	N	O	S	0	0	0
			3424	2229	566	623	6			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	280	SER	CYS	engineered mutation	UNP P03366

- Molecule 3 is (2E)-3-(3-chloro-5-{2-[2-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)ethoxy]phenoxy}phenyl)prop-2-enenitrile (CCD ID: 3X6) (formula: C₂₁H₁₆ClN₃O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	
			29	21	1	3	4	0
								1

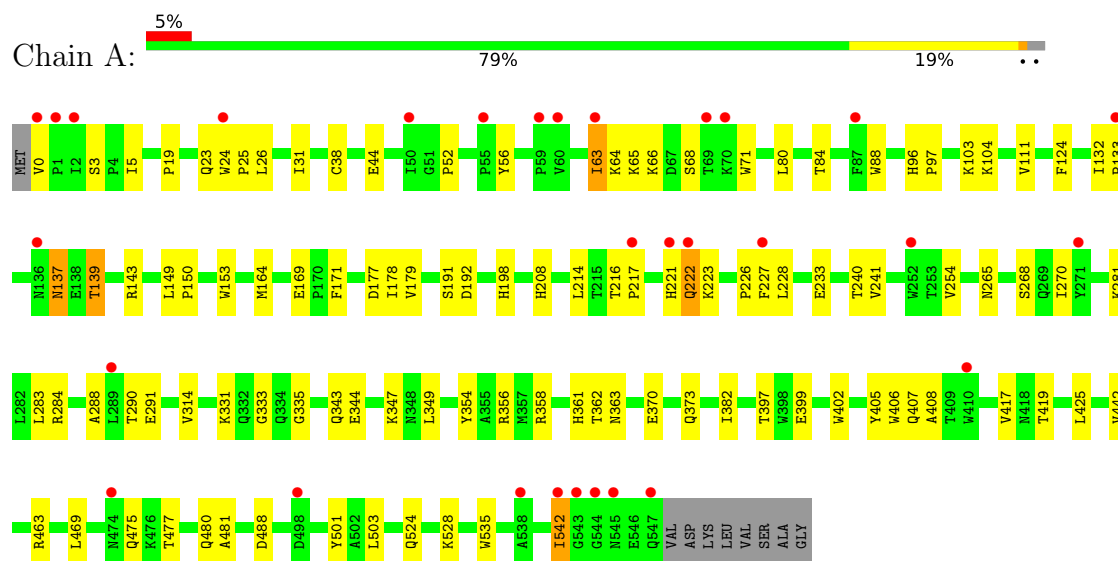
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	8	Total	O		
			8	8	0	0
4	B	11	Total	O		
			11	11	0	0

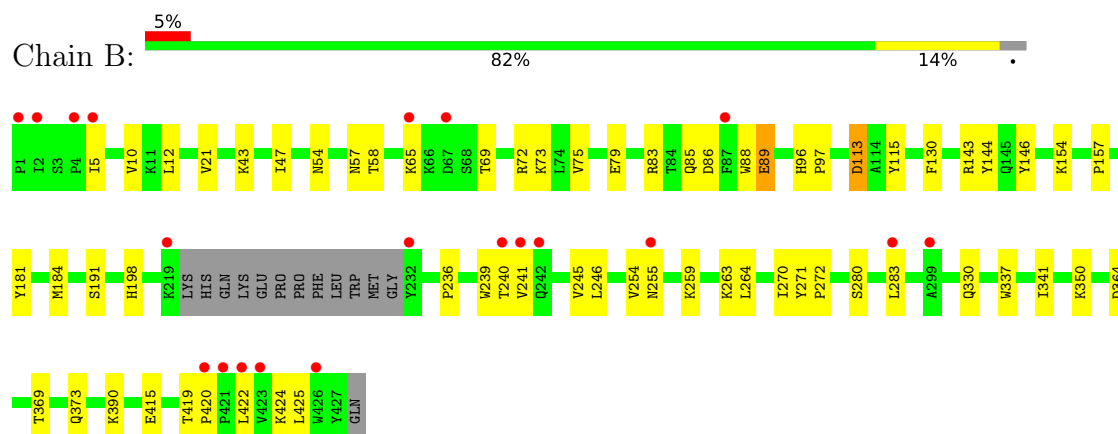
3 Residue-property plots [i](#)

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: Reverse transcriptase/ribonuclease H, p66 subunit



- Molecule 2: Reverse transcriptase/ribonuclease H, p51 subunit



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	224.82Å 69.05Å 104.34Å 90.00° 106.29° 90.00°	Depositor
Resolution (Å)	36.60 – 2.88 36.60 – 2.88	Depositor EDS
% Data completeness (in resolution range)	99.1 (36.60-2.88) 99.1 (36.60-2.88)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.87 (at 2.90Å)	Xtriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.242 , 0.282 0.241 , 0.282	Depositor DCC
R_{free} test set	2000 reflections (5.73%)	wwPDB-VP
Wilson B-factor (Å ²)	83.8	Xtriage
Anisotropy	0.219	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 30.9	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	7930	wwPDB-VP
Average B, all atoms (Å ²)	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.57% 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

Bond lengths and bond angles in the following residue types are not validated in this section: 3X6

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	0.29	0/4576	0.73	2/6221 (0.0%)
2	B	0.27	0/3522	0.76	9/4787 (0.2%)
All	All	0.28	0/8098	0.74	11/11008 (0.1%)

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	271	TYR	CA-C-N	5.88	125.58	119.82
2	B	271	TYR	C-N-CA	5.88	125.58	119.82
1	A	335	GLY	N-CA-C	-5.78	107.12	115.27
2	B	96	HIS	CA-C-N	5.68	126.94	119.84
2	B	96	HIS	C-N-CA	5.68	126.94	119.84
2	B	54	ASN	CA-C-N	5.64	125.17	119.19
2	B	54	ASN	C-N-CA	5.64	125.17	119.19
2	B	419	THR	CA-C-N	5.53	126.07	120.38
2	B	419	THR	C-N-CA	5.53	126.07	120.38
1	A	382	ILE	N-CA-C	5.46	115.56	110.42
2	B	89	GLU	N-CA-C	-5.03	106.65	112.89

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	4458	0	4507	68	0
2	B	3424	0	3464	36	0
3	A	29	0	7	0	0
4	A	8	0	0	0	0
4	B	11	0	0	1	0
All	All	7930	0	7978	96	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 6.

All (96) 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:226:PRO:HA	1:A:227:PHE:HB2	1.52	0.90
2:B:85:GLN:HA	2:B:88:TRP:HB2	1.73	0.70
2:B:85:GLN:O	2:B:89:GLU:N	2.26	0.68
1:A:542:ILE:HG22	2:B:283:LEU:HB2	1.79	0.65
1:A:343:GLN:HG3	1:A:349:LEU:HD11	1.80	0.64
2:B:157:PRO:HG3	2:B:184:MET:HA	1.79	0.64
1:A:408:ALA:HB1	2:B:364:ASP:HB3	1.80	0.63
1:A:84:THR:HG21	1:A:153:TRP:HE1	1.66	0.61
1:A:84:THR:HG22	1:A:124:PHE:HZ	1.66	0.60
1:A:64:LYS:NZ	1:A:68:SER:O	2.33	0.60
1:A:331:LYS:HE2	1:A:333:GLY:HA2	1.85	0.59
1:A:64:LYS:HD2	1:A:68:SER:HA	1.85	0.58
1:A:406:TRP:CG	2:B:420:PRO:HB3	2.39	0.58
1:A:52:PRO:HG3	1:A:143:ARG:HG3	1.86	0.56
1:A:88:TRP:CE2	2:B:143:ARG:HD2	2.40	0.56
1:A:356:ARG:NE	1:A:358:ARG:O	2.40	0.55
1:A:63:ILE:HG22	1:A:64:LYS:H	1.72	0.55
2:B:369:THR:HG22	2:B:373:GLN:HE21	1.71	0.54
1:A:64:LYS:HZ1	1:A:71:TRP:CD1	2.26	0.54
1:A:406:TRP:CD2	2:B:420:PRO:HB3	2.43	0.54
2:B:65:LYS:HA	2:B:72:ARG:HD2	1.89	0.54
1:A:191:SER:OG	1:A:198:HIS:ND1	2.32	0.53
2:B:259:LYS:NZ	4:B:509:HOH:O	2.42	0.53
2:B:115:TYR:OH	2:B:184:MET:O	2.25	0.53
2:B:21:VAL:O	2:B:57:ASN:ND2	2.35	0.52
1:A:226:PRO:HB2	1:A:228:LEU:HD12	1.90	0.52
2:B:240:THR:OG1	2:B:241:VAL:N	2.42	0.51
1:A:281:LYS:HG3	1:A:284:ARG:HE	1.75	0.51
1:A:399:GLU:HA	1:A:402:TRP:NE1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:LYS:HB2	1:A:192:ASP:HA	1.92	0.51
1:A:397:THR:HG23	1:A:425:LEU:HG	1.93	0.51
1:A:417:VAL:HG12	1:A:419:THR:H	1.76	0.50
1:A:254:VAL:HG13	1:A:283:LEU:HD11	1.94	0.50
2:B:341:ILE:HB	2:B:350:LYS:HB3	1.94	0.49
2:B:236:PRO:HA	2:B:239:TRP:CD2	2.47	0.49
1:A:137:ASN:HB3	1:A:139:THR:HG22	1.95	0.49
1:A:226:PRO:HA	1:A:227:PHE:CB	2.34	0.49
2:B:390:LYS:NZ	2:B:415:GLU:OE2	2.47	0.48
2:B:73:LYS:HE2	2:B:75:VAL:HG22	1.96	0.48
1:A:469:LEU:HD11	1:A:480:GLN:HG2	1.96	0.47
2:B:79:GLU:OE2	2:B:83:ARG:NH1	2.47	0.47
1:A:344:GLU:HB2	1:A:347:LYS:HB2	1.96	0.47
1:A:222:GLN:HB3	1:A:223:LYS:H	1.51	0.47
1:A:469:LEU:HD12	1:A:477:THR:HG22	1.96	0.47
2:B:97:PRO:HG3	2:B:181:TYR:HB2	1.98	0.46
1:A:408:ALA:HB2	2:B:337:TRP:HH2	1.81	0.46
1:A:19:PRO:HG3	1:A:80:LEU:HB2	1.97	0.46
1:A:265:ASN:O	1:A:268:SER:OG	2.29	0.46
1:A:240:THR:OG1	1:A:241:VAL:N	2.49	0.46
1:A:542:ILE:HG23	2:B:280:SER:HA	1.98	0.46
2:B:85:GLN:HG3	2:B:154:LYS:CB	2.46	0.45
2:B:254:VAL:HG13	2:B:283:LEU:HD22	1.98	0.45
1:A:217:PRO:HG2	1:A:222:GLN:HG3	1.97	0.45
2:B:245:VAL:O	2:B:263:LYS:NZ	2.36	0.45
1:A:31:ILE:HG12	1:A:133:PRO:HG2	1.99	0.45
1:A:191:SER:HG	1:A:198:HIS:HD1	1.59	0.45
1:A:25:PRO:HA	1:A:26:LEU:HA	1.74	0.45
2:B:47:ILE:HG22	2:B:146:TYR:HA	1.98	0.45
1:A:399:GLU:HA	1:A:402:TRP:CD1	2.52	0.45
1:A:354:TYR:OH	1:A:370:GLU:OE1	2.22	0.44
1:A:475:GLN:HB3	1:A:501:TYR:CE2	2.52	0.44
1:A:64:LYS:HZ1	1:A:71:TRP:CG	2.35	0.44
1:A:463:ARG:NH1	1:A:488:ASP:O	2.51	0.44
1:A:149:LEU:HA	1:A:150:PRO:HD3	1.89	0.43
1:A:503:LEU:HD22	1:A:535:TRP:HB2	2.01	0.43
2:B:191:SER:OG	2:B:198:HIS:ND1	2.29	0.43
1:A:0:VAL:HG13	1:A:44:GLU:HA	2.00	0.43
1:A:524:GLN:O	1:A:528:LYS:HG2	2.18	0.43
1:A:233:GLU:HB2	1:A:240:THR:HG23	2.00	0.43
1:A:38:CYS:SG	1:A:132:ILE:HD11	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:LEU:O	1:A:84:THR:HG23	2.19	0.43
1:A:25:PRO:HB2	1:A:26:LEU:HB2	2.00	0.43
2:B:10:VAL:HG13	2:B:88:TRP:CZ2	2.54	0.43
2:B:113:ASP:OD2	2:B:113:ASP:N	2.41	0.43
2:B:130:PHE:CZ	2:B:144:TYR:HB2	2.54	0.43
1:A:406:TRP:CD1	2:B:420:PRO:HB3	2.54	0.42
1:A:442:VAL:HB	1:A:481:ALA:HB1	2.01	0.42
1:A:177:ASP:OD1	1:A:177:ASP:N	2.49	0.42
1:A:270:ILE:HG13	1:A:314:VAL:HG13	2.00	0.42
1:A:65:LYS:HG2	1:A:66:LYS:H	1.83	0.42
2:B:246:LEU:HD11	2:B:264:LEU:HD21	2.02	0.42
2:B:43:LYS:HE3	2:B:43:LYS:HB2	1.85	0.42
1:A:331:LYS:HG2	1:A:333:GLY:H	1.85	0.41
1:A:164:MET:HE1	1:A:214:LEU:HD13	2.02	0.41
2:B:255:ASN:O	2:B:259:LYS:HG2	2.20	0.41
2:B:424:LYS:HB3	2:B:425:LEU:H	1.49	0.41
1:A:19:PRO:O	1:A:56:TYR:HB3	2.21	0.41
1:A:405:TYR:CE2	1:A:407:GLN:HB3	2.55	0.41
1:A:288:ALA:HB3	1:A:291:GLU:HB2	2.03	0.41
1:A:96:HIS:HA	1:A:97:PRO:HD3	1.93	0.41
1:A:3:SER:HB3	1:A:5:ILE:HG13	2.03	0.41
1:A:171:PHE:HB2	1:A:208:HIS:ND1	2.35	0.41
2:B:270:ILE:O	2:B:272:PRO:HD3	2.20	0.41
1:A:23:GLN:NE2	1:A:25:PRO:HG2	2.36	0.41
1:A:64:LYS:HA	1:A:64:LYS:HD3	1.95	0.40
1:A:362:THR:OG1	1:A:363:ASN:N	2.55	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	546/557 (98%)	522 (96%)	24 (4%)	0	100	100
2	B	411/428 (96%)	393 (96%)	18 (4%)	0	100	100
All	All	957/985 (97%)	915 (96%)	42 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	488/495 (99%)	472 (97%)	16 (3%)	33	65
2	B	378/390 (97%)	370 (98%)	8 (2%)	47	75
All	All	866/885 (98%)	842 (97%)	24 (3%)	38	70

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

Mol	Chain	Res	Type
1	A	24	TRP
1	A	63	ILE
1	A	103	LYS
1	A	111	VAL
1	A	137	ASN
1	A	139	THR
1	A	169	GLU
1	A	178	ILE
1	A	179	VAL
1	A	216	THR
1	A	221	HIS
1	A	222	GLN
1	A	290	THR
1	A	361	HIS
1	A	373	GLN
1	A	542	ILE
2	B	5	ILE
2	B	12	LEU

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Mol	Chain	Res	Type
2	B	58	THR
2	B	69	THR
2	B	86	ASP
2	B	113	ASP
2	B	330	GLN
2	B	422	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	23	GLN
1	A	151	GLN
1	A	221	HIS
1	A	428	GLN
1	A	487	GLN
2	B	269	GLN
2	B	363	ASN
2	B	373	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 ⓘ

1 ligand is modelled in this entry.

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 [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	548/557 (98%)	0.30	30 (5%) 30 24	36, 74, 123, 159	1 (0%)
2	B	415/428 (96%)	0.20	20 (4%) 35 28	37, 63, 115, 143	1 (0%)
All	All	963/985 (97%)	0.26	50 (5%) 33 26	36, 70, 121, 159	2 (0%)

All (50) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	423	VAL	6.2
1	A	2	ILE	5.9
1	A	543	GLY	5.0
2	B	2	ILE	4.9
1	A	544	GLY	3.8
2	B	421	PRO	3.6
2	B	241	VAL	3.5
2	B	1	PRO	3.5
1	A	289	LEU	3.3
1	A	1	PRO	3.2
1	A	221	HIS	3.1
1	A	474	ASN	3.1
2	B	422	LEU	3.0
1	A	63	ILE	3.0
1	A	545	ASN	2.9
2	B	219	LYS	2.8
2	B	240	THR	2.8
1	A	133	PRO	2.8
1	A	252	TRP	2.7
1	A	227	PHE	2.7
1	A	55	PRO	2.6
2	B	426	TRP	2.5
2	B	67	ASP	2.5
2	B	87	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
2	B	65	LYS	2.5
2	B	4	PRO	2.4
1	A	24	TRP	2.4
1	A	222	GLN	2.4
2	B	242	GLN	2.4
2	B	5	ILE	2.4
1	A	498	ASP	2.4
2	B	283	LEU	2.3
1	A	542	ILE	2.3
2	B	232	TYR	2.3
1	A	87	PHE	2.2
1	A	70	LYS	2.2
1	A	59	PRO	2.2
1	A	271	TYR	2.2
1	A	538	ALA	2.2
1	A	50	ILE	2.2
1	A	136	ASN	2.2
1	A	547	GLN	2.2
1	A	0	VAL	2.1
1	A	60	VAL	2.1
2	B	299	ALA	2.1
1	A	69	THR	2.1
2	B	420	PRO	2.0
1	A	217	PRO	2.0
2	B	255	ASN	2.0
1	A	410	TRP	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($\text{\AA}^2$)	Q<0.9
3	3X6	A	601[B]	29/29	0.90	0.10	53,61,74,79	0

6.5 Other polymers [i](#)

There are no such residues in this entry.