



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 07:01 AM UTC

PDB ID : 1IJQ / pdb_00001ijq
Title : Crystal Structure of the LDL Receptor YWTD-EGF Domain Pair
Authors : Jeon, H.; Meng, W.; Takagi, J.; Eck, M.J.; Springer, T.A.; Blacklow, S.C.
Deposited on : 2001-04-27
Resolution : 1.50 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

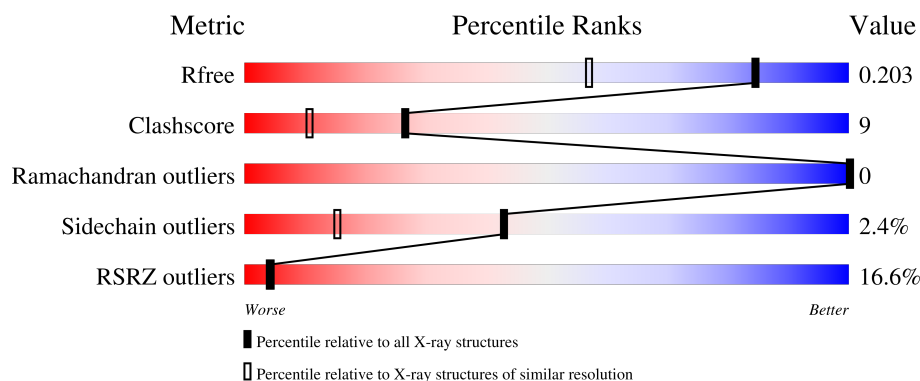
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	4037 (1.50-1.50)
Clashscore	190562	4235 (1.50-1.50)
Ramachandran outliers	187476	4153 (1.50-1.50)
Sidechain outliers	187428	4150 (1.50-1.50)
RSRZ outliers	180081	4039 (1.50-1.50)

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	316	18% 82% 14% • •
1	B	316	14% 79% 14% • • •

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 6043 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 LOW-DENSITY LIPOPROTEIN RECEPTOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	308	Total	C	N	O	S	0	0	0
			2445	1550	424	458	13			
1	B	305	Total	C	N	O	S	0	0	0
			2418	1534	418	453	13			

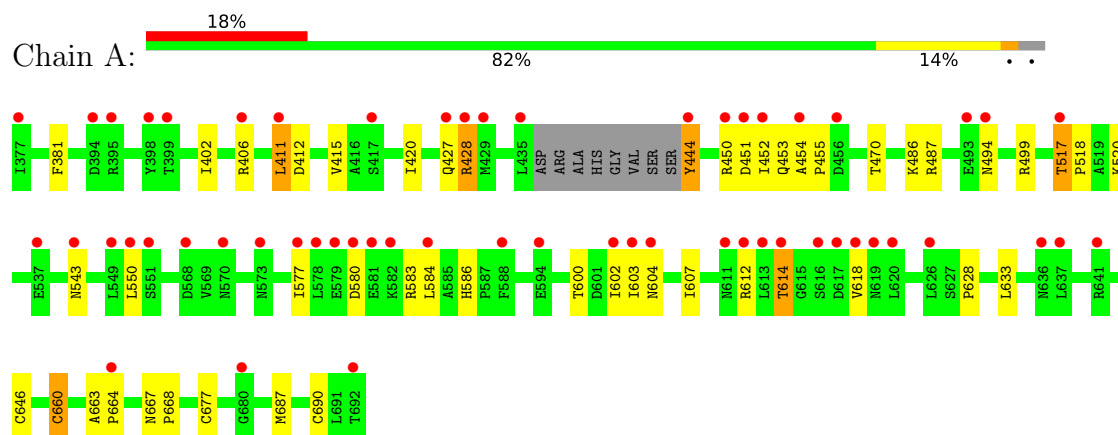
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	585	Total	O	0	0
			585	585		
2	B	595	Total	O	0	0
			595	595		

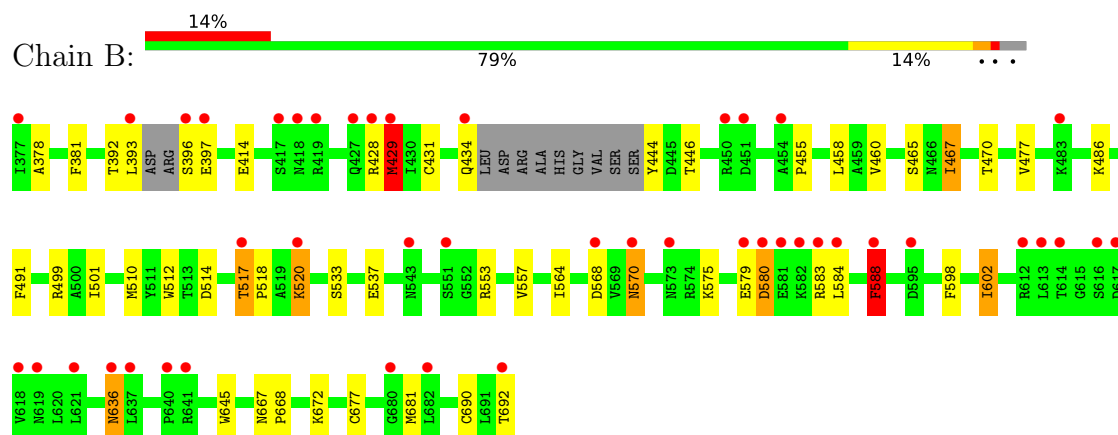
3 Residue-property plots [i](#)

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: LOW-DENSITY LIPOPROTEIN RECEPTOR



• Molecule 1: LOW-DENSITY LIPOPROTEIN RECEPTOR



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	76.28Å 76.28Å 265.44Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	20.00 – 1.50 20.00 – 1.50	Depositor EDS
% Data completeness (in resolution range)	86.3 (20.00-1.50) 86.2 (20.00-1.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.92 (at 1.50Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.208 , 0.250 0.207 , 0.203	Depositor DCC
R_{free} test set	6270 reflections (4.92%)	wwPDB-VP
Wilson B-factor (Å ²)	18.9	Xtriage
Anisotropy	0.030	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 64.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.021 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6043	wwPDB-VP
Average B, all atoms (Å ²)	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.84% 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	0.77	3/2501 (0.1%)	1.26	11/3403 (0.3%)
1	B	0.51	0/2473	1.30	13/3364 (0.4%)
All	All	0.65	3/4974 (0.1%)	1.28	24/6767 (0.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	3
All	All	0	5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	487	ARG	CD-NE	-20.82	1.17	1.46
1	A	444	TYR	N-CA	-17.84	1.12	1.46
1	A	487	ARG	CA-CB	5.46	1.63	1.53

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	517	THR	CA-C-O	-18.73	102.77	120.19
1	A	517	THR	CA-C-O	-17.84	102.00	120.38
1	B	517	THR	CA-C-N	12.63	132.78	119.90
1	B	517	THR	C-N-CA	12.63	132.78	119.90
1	A	518	PRO	N-CA-CB	10.15	113.76	102.60
1	B	518	PRO	CA-N-CD	-7.87	100.98	112.00
1	B	570	ASN	CA-CB-CG	-7.48	105.12	112.60
1	B	518	PRO	N-CA-CB	7.13	109.52	103.25
1	A	444	TYR	N-CA-CB	7.05	122.48	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	517	THR	CB-CA-C	6.73	118.03	108.68
1	A	518	PRO	CA-N-CD	-6.64	102.21	111.50
1	A	518	PRO	N-CD-CG	6.43	111.52	103.80
1	B	580	ASP	CA-CB-CG	6.35	118.95	112.60
1	B	588	PHE	CA-CB-CG	6.07	119.87	113.80
1	A	487	ARG	N-CA-CB	-5.71	102.13	111.66
1	B	429	MET	CA-CB-CG	5.52	125.14	114.10
1	B	518	PRO	N-CD-CG	5.47	111.41	103.20
1	A	604	ASN	CA-CB-CG	5.47	118.07	112.60
1	A	381	PHE	CA-CB-CG	5.36	119.16	113.80
1	B	381	PHE	CA-CB-CG	5.29	119.09	113.80
1	B	514	ASP	CA-CB-CG	5.13	117.73	112.60
1	A	415	VAL	N-CA-C	5.10	115.32	110.42
1	A	517	THR	O-C-N	5.03	126.16	120.68
1	A	660	CYS	CA-C-O	-5.02	114.92	120.30

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	517	THR	Peptide,Mainchain
1	B	517	THR	Peptide,Mainchain
1	B	636	ASN	Mainchain

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	2445	0	2417	35	0
1	B	2418	0	2388	49	0
2	A	585	0	0	11	0
2	B	595	0	0	17	0
All	All	6043	0	4805	84	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 9.

All (84) 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:477:VAL:HG11	1:B:510:MET:HE1	1.25	1.16
1:B:677:CYS:HG	1:B:690:CYS:HG	0.93	0.93
1:A:677:CYS:HG	1:A:690:CYS:HG	0.98	0.87
1:A:411:LEU:HG	2:A:941:HOH:O	1.75	0.85
1:B:510:MET:SD	2:B:955:HOH:O	2.34	0.84
1:B:537:GLU:HG2	2:B:1273:HOH:O	1.76	0.83
1:B:557:VAL:HG12	1:B:564:ILE:HD12	1.63	0.81
1:A:452:ILE:HD11	1:A:455:PRO:HG3	1.60	0.80
1:B:486:LYS:HE3	2:B:856:HOH:O	1.81	0.79
1:A:646:CYS:HG	1:A:660:CYS:HG	0.91	0.76
1:B:477:VAL:CG1	1:B:510:MET:HE1	2.14	0.75
1:B:557:VAL:HG12	1:B:564:ILE:CD1	2.20	0.71
1:B:501:ILE:HD11	1:B:510:MET:HE3	1.72	0.70
1:B:477:VAL:HG11	1:B:510:MET:CE	2.15	0.69
1:B:636:ASN:HB2	2:B:998:HOH:O	1.90	0.69
1:A:454:ALA:HB3	2:A:1131:HOH:O	1.92	0.68
1:A:614:THR:HB	2:A:1260:HOH:O	1.96	0.65
1:B:510:MET:HE2	1:B:512:TRP:CE3	2.34	0.63
1:B:491:PHE:HE2	2:B:948:HOH:O	1.84	0.61
1:B:520:LYS:HE2	1:B:533:SER:OG	2.01	0.60
1:B:429:MET:CE	2:B:1284:HOH:O	2.50	0.60
1:B:397:GLU:HG2	2:B:1031:HOH:O	2.03	0.58
1:B:491:PHE:CE2	2:B:948:HOH:O	2.51	0.58
1:A:583:ARG:HD3	1:A:618:VAL:HG11	1.86	0.58
1:A:428:ARG:HD2	1:A:453:GLN:O	2.05	0.57
1:A:486:LYS:HE2	2:A:854:HOH:O	2.03	0.57
1:B:501:ILE:HD11	1:B:510:MET:CE	2.34	0.57
1:A:602:ILE:HD13	1:A:628:PRO:HD2	1.87	0.57
1:B:510:MET:HE2	1:B:512:TRP:CZ3	2.41	0.56
1:A:411:LEU:HD12	1:A:412:ASP:N	2.21	0.56
1:A:450:ARG:NH1	2:A:1259:HOH:O	2.38	0.56
1:B:465:SER:HA	2:B:1214:HOH:O	2.05	0.55
1:B:429:MET:HE2	1:B:446:THR:HG23	1.89	0.54
1:A:455:PRO:HA	1:A:470:THR:O	2.07	0.54
1:B:428:ARG:HA	2:B:936:HOH:O	2.07	0.54
1:B:681:MET:HE3	1:B:692:THR:HG22	1.89	0.54
1:A:451:ASP:HB3	2:A:878:HOH:O	2.05	0.54
1:A:663:ALA:HB1	1:A:664:PRO:HD2	1.90	0.54
1:A:402:ILE:HD11	1:A:420:ILE:HG21	1.90	0.53
1:B:378:ALA:HB3	2:B:1102:HOH:O	2.08	0.53
1:A:586:HIS:HB2	1:A:603:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:434:GLN:HB2	2:B:1248:HOH:O	2.10	0.52
1:B:588:PHE:CE1	1:B:602:ILE:HG12	2.45	0.52
1:A:580:ASP:OD2	1:A:583:ARG:HD2	2.09	0.52
1:A:667:ASN:HB2	1:A:668:PRO:HD2	1.93	0.50
1:A:687:MET:HG2	2:A:1003:HOH:O	2.12	0.50
1:A:667:ASN:HB2	1:A:668:PRO:CD	2.42	0.50
1:A:428:ARG:HD2	1:A:453:GLN:HA	1.94	0.49
1:B:429:MET:HE2	1:B:446:THR:CG2	2.43	0.49
1:B:667:ASN:HB2	1:B:668:PRO:CD	2.41	0.49
1:B:458:LEU:HD22	1:B:467:ILE:HD11	1.92	0.49
1:B:431:CYS:SG	2:B:903:HOH:O	2.32	0.49
1:A:550:LEU:HG	2:A:961:HOH:O	2.14	0.47
1:B:564:ILE:HD11	1:B:584:LEU:HD21	1.95	0.47
1:B:583:ARG:N	1:B:583:ARG:HD2	2.30	0.46
1:A:406:ARG:NH2	1:A:427:GLN:OE1	2.48	0.46
1:A:677:CYS:CB	1:A:690:CYS:HG	2.28	0.46
1:B:455:PRO:HA	1:B:470:THR:O	2.16	0.46
1:A:612:ARG:NH1	1:A:612:ARG:HG3	2.31	0.46
1:A:452:ILE:CD1	1:A:455:PRO:HG3	2.39	0.45
1:B:588:PHE:CD1	1:B:602:ILE:HG12	2.51	0.45
1:B:393:LEU:HD13	1:B:598:PHE:CZ	2.51	0.45
1:B:681:MET:HE3	1:B:692:THR:CG2	2.46	0.45
1:B:396:SER:N	2:B:851:HOH:O	2.51	0.44
1:B:414:GLU:HG3	1:B:460:VAL:HG11	2.00	0.44
1:B:645:TRP:CE2	1:B:672:LYS:HD2	2.53	0.44
1:B:444:TYR:N	2:B:1260:HOH:O	2.51	0.43
1:A:494:ASN:HA	2:A:1009:HOH:O	2.17	0.43
1:A:612:ARG:HG3	1:A:612:ARG:HH11	1.84	0.43
1:B:392:THR:HG23	1:B:397:GLU:HB3	2.01	0.43
1:B:486:LYS:HE2	2:B:917:HOH:O	2.18	0.43
1:A:577:ILE:HD11	2:A:888:HOH:O	2.19	0.42
1:B:579:GLU:O	1:B:580:ASP:HB3	2.20	0.42
1:A:580:ASP:O	1:A:584:LEU:HB2	2.20	0.42
1:B:564:ILE:HD11	1:B:584:LEU:CD2	2.50	0.42
1:B:568:ASP:HB3	1:B:570:ASN:HD21	1.85	0.42
1:A:428:ARG:HB2	1:A:428:ARG:NH1	2.34	0.41
1:A:444:TYR:N	2:A:793:HOH:O	2.53	0.41
1:B:553:ARG:HH22	1:B:575:LYS:HG3	1.85	0.41
1:A:600:THR:HG22	1:A:607:ILE:HG12	2.03	0.41
1:B:570:ASN:ND2	1:B:570:ASN:H	2.17	0.41
1:B:429:MET:HE3	2:B:1284:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:586:HIS:HB2	1:A:603:ILE:CD1	2.51	0.40
1:B:520:LYS:HE3	1:B:520:LYS:HB3	1.80	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	304/316 (96%)	288 (95%)	16 (5%)	0	100	100
1	B	299/316 (95%)	281 (94%)	18 (6%)	0	100	100
All	All	603/632 (95%)	569 (94%)	34 (6%)	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	274/280 (98%)	267 (97%)	7 (3%)	40	13
1	B	271/280 (97%)	265 (98%)	6 (2%)	45	17
All	All	545/560 (97%)	532 (98%)	13 (2%)	43	15

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	411	LEU
1	A	428	ARG
1	A	499	ARG
1	A	520	LYS
1	A	543	ASN
1	A	614	THR
1	A	633	LEU
1	B	429	MET
1	B	467	ILE
1	B	499	ARG
1	B	520	LYS
1	B	588	PHE
1	B	602	ILE

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	453	GLN
1	A	538	ASN
1	A	540	GLN
1	A	543	ASN
1	A	573	ASN
1	A	586	HIS
1	B	570	ASN
1	B	619	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

There are no ligands in this entry.

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	308/316 (97%)	0.92	57 (18%) 3 3	13, 21, 33, 40	0
1	B	305/316 (96%)	0.88	45 (14%) 5 6	13, 21, 33, 44	0
All	All	613/632 (96%)	0.90	102 (16%) 4 4	13, 21, 33, 44	0

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	434	GLN	5.8
1	B	617	ASP	5.3
1	B	580	ASP	5.2
1	A	614	THR	5.1
1	B	450	ARG	4.8
1	B	579	GLU	4.7
1	A	428	ARG	4.7
1	A	435	LEU	4.5
1	A	581	GLU	4.5
1	A	550	LEU	4.5
1	B	583	ARG	4.3
1	A	613	LEU	4.0
1	B	428	ARG	3.9
1	B	418	ASN	3.9
1	B	636	ASN	3.8
1	A	692	THR	3.8
1	A	580	ASP	3.7
1	B	692	THR	3.6
1	A	626	LEU	3.6
1	A	579	GLU	3.6
1	A	411	LEU	3.5
1	A	573	ASN	3.5
1	A	636	ASN	3.5
1	A	450	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	517	THR	3.4
1	A	454	ALA	3.4
1	B	582	LYS	3.4
1	B	483	LYS	3.4
1	B	581	GLU	3.4
1	A	399	THR	3.3
1	A	377	ILE	3.3
1	B	570	ASN	3.2
1	A	394	ASP	3.2
1	A	588	PHE	3.1
1	B	517	THR	3.1
1	A	602	ILE	3.1
1	A	398	TYR	3.1
1	B	588	PHE	3.1
1	B	451	ASP	3.1
1	B	619	ASN	3.0
1	A	616	SER	3.0
1	B	520	LYS	3.0
1	B	641	ARG	3.0
1	A	543	ASN	3.0
1	A	604	ASN	3.0
1	B	454	ALA	2.9
1	A	427	GLN	2.9
1	A	617	ASP	2.9
1	B	613	LEU	2.9
1	A	451	ASP	2.9
1	A	641	ARG	2.9
1	A	584	LEU	2.9
1	A	494	ASN	2.9
1	A	456	ASP	2.8
1	B	397	GLU	2.8
1	B	680	GLY	2.8
1	A	637	LEU	2.8
1	A	537	GLU	2.8
1	B	427	GLN	2.7
1	B	614	THR	2.7
1	B	640	PRO	2.7
1	A	417	SER	2.6
1	B	396	SER	2.6
1	A	603	ILE	2.6
1	B	377	ILE	2.6
1	B	419	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	682	LEU	2.6
1	A	618	VAL	2.6
1	A	612	ARG	2.6
1	A	594	GLU	2.5
1	B	584	LEU	2.5
1	A	568	ASP	2.5
1	A	429	MET	2.5
1	A	406	ARG	2.4
1	B	616	SER	2.4
1	A	395	ARG	2.4
1	A	577	ILE	2.4
1	A	570	ASN	2.4
1	A	680	GLY	2.3
1	B	618	VAL	2.3
1	B	573	ASN	2.3
1	B	595	ASP	2.3
1	B	393	LEU	2.3
1	A	551	SER	2.3
1	B	417	SER	2.3
1	B	543	ASN	2.2
1	B	551	SER	2.2
1	B	637	LEU	2.2
1	A	578	LEU	2.2
1	B	612	ARG	2.2
1	A	493	GLU	2.2
1	B	429	MET	2.2
1	A	452	ILE	2.1
1	A	549	LEU	2.1
1	B	621	LEU	2.1
1	A	611	ASN	2.1
1	B	568	ASP	2.1
1	A	582	LYS	2.1
1	A	619	ASN	2.1
1	A	664	PRO	2.1
1	A	620	LEU	2.0
1	A	444	TYR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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.