



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 01:23 PM UTC

PDB ID : 2IZC / pdb_00002izc
Title : APOSTREPTAVIDIN PH 2.0 I222 COMPLEX
Authors : Katz, B.A.
Deposited on : 1997-08-13
Resolution : 1.40 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

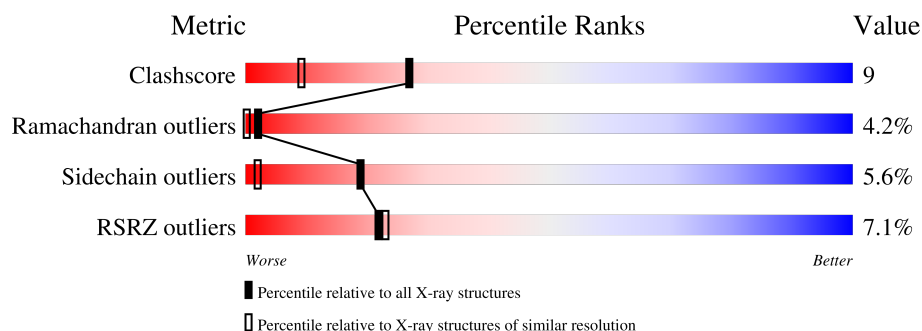
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.40 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	2660 (1.40-1.40)
Ramachandran outliers	187476	2611 (1.40-1.40)
Sidechain outliers	187428	2610 (1.40-1.40)
RSRZ outliers	180081	2561 (1.40-1.40)

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	B	123	4% 58% 37% 5%
1	D	123	10% 57% 34% 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3942 atoms, of which 1976 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 STREPTAVIDIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	123	Total	C	H	N	O	45	3	0
			1823	588	889	159	187			
1	D	121	Total	C	H	N	O	25	2	0
			1769	569	859	157	184			

- Molecule 2 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Na	0	0
			1	1		
2	D	1	Total	Na	0	0
			1	1		

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Cl	0	0
			1	1		
3	D	2	Total	Cl	0	0
			2	2		

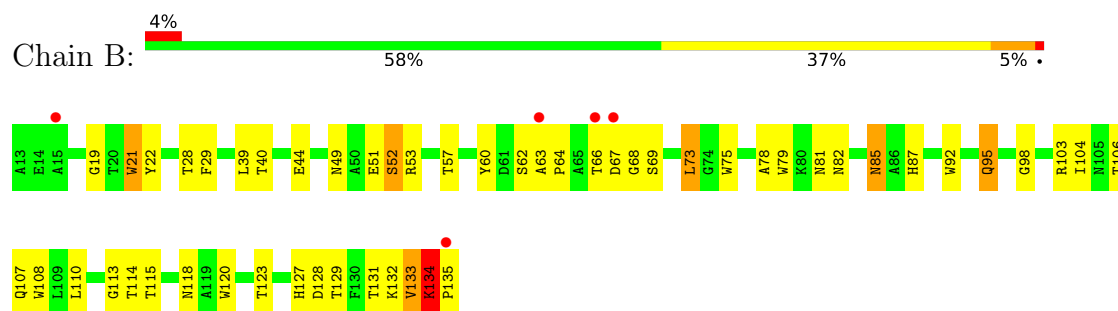
- Molecule 4 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	53	Total	H	O	0	0
			155	102	53		
4	D	64	Total	H	O	0	0
			190	126	64		

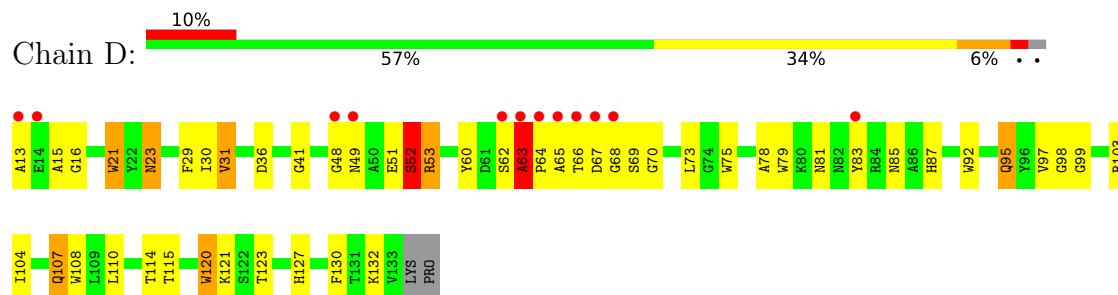
3 Residue-property plots [i](#)

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: STREPTAVIDIN



• Molecule 1: STREPTAVIDIN



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	94.85Å 105.63Å 48.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	7.50 – 1.40 7.50 – 1.40	Depositor EDS
% Data completeness (in resolution range)	66.0 (7.50-1.40) 65.2 (7.50-1.40)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.54 (at 1.32Å)	Xtriage
Refinement program	X-PLOR	Depositor
R, R_{free}	0.207 , 0.241 0.216 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	17.0	Xtriage
Anisotropy	0.054	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 62.4	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	0.97	EDS
Total number of atoms	3942	wwPDB-VP
Average B, all atoms (Å ²)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.73% 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: NA, CL

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	B	1.85	9/970 (0.9%)	1.88	37/1327 (2.8%)
1	D	1.88	8/940 (0.9%)	1.98	37/1287 (2.9%)
All	All	1.86	17/1910 (0.9%)	1.93	74/2614 (2.8%)

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	B	0	4
1	D	0	3
All	All	0	7

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	87	HIS	CG-ND1	-7.52	1.29	1.38
1	B	87	HIS	CD2-NE2	-6.94	1.30	1.37
1	D	127	HIS	CG-ND1	-6.88	1.30	1.38
1	B	127	HIS	CG-ND1	-6.84	1.30	1.38
1	D	52	SER	CA-CB	6.62	1.64	1.53
1	D	87	HIS	CG-ND1	-6.38	1.31	1.38
1	D	87	HIS	CD2-NE2	-6.14	1.31	1.37
1	D	127	HIS	CD2-NE2	-5.95	1.31	1.37
1	B	127	HIS	CD2-NE2	-5.86	1.31	1.37
1	B	79	TRP	CA-CB	5.80	1.59	1.52
1	D	98	GLY	N-CA	5.67	1.49	1.44
1	B	127	HIS	CG-CD2	5.24	1.41	1.35
1	B	98	GLY	N-CA	5.23	1.50	1.44
1	B	134	LYS	N-CA	5.16	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	97	VAL	C-N	-5.13	1.28	1.33
1	B	108	TRP	NE1-CE2	-5.08	1.31	1.37
1	D	23	ASN	N-CA	5.01	1.52	1.45

All (74) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	49	ASN	N-CA-C	-10.14	95.41	109.71
1	D	78	ALA	N-CA-C	-10.13	92.73	109.24
1	B	68	GLY	N-CA-C	-9.54	100.39	115.08
1	D	115	THR	N-CA-C	-8.92	97.65	110.59
1	D	29	PHE	CA-CB-CG	8.65	122.45	113.80
1	B	118	ASN	CA-CB-CG	-8.34	104.26	112.60
1	B	123	THR	N-CA-C	8.28	122.39	108.90
1	B	78	ALA	N-CA-C	-8.26	95.05	108.52
1	B	49	ASN	N-CA-C	-8.21	100.31	110.65
1	D	95	GLN	OE1-CD-NE2	-7.89	114.71	122.60
1	D	69	SER	N-CA-C	7.60	121.61	110.59
1	B	107	GLN	N-CA-C	-7.43	96.84	109.24
1	B	115	THR	N-CA-C	-7.41	100.55	110.55
1	B	107	GLN	CA-CB-CG	-7.41	99.29	114.10
1	D	107[A]	GLN	N-CA-C	-7.39	96.90	109.24
1	D	107[B]	GLN	N-CA-C	-7.39	96.90	109.24
1	B	21	TRP	NE1-CE2-CZ2	7.04	140.66	130.10
1	D	123	THR	N-CA-C	6.99	120.30	108.90
1	D	81	ASN	CA-CB-CG	6.97	119.57	112.60
1	B	104	ILE	N-CA-C	-6.82	97.68	107.77
1	D	83	TYR	CA-CB-CG	-6.77	101.71	113.90
1	B	113	GLY	N-CA-C	-6.50	102.70	111.54
1	B	120	TRP	NE1-CE2-CZ2	6.42	139.73	130.10
1	D	31	VAL	CB-CA-C	-6.35	100.53	110.69
1	B	75	TRP	CG-CD1-NE1	-6.27	102.05	110.20
1	D	92	TRP	CG-CD1-NE1	-6.27	102.05	110.20
1	B	21	TRP	CG-CD1-NE1	-6.27	102.05	110.20
1	D	75	TRP	NE1-CE2-CZ2	6.24	139.46	130.10
1	B	81	ASN	CA-CB-CG	6.24	118.83	112.60
1	D	21	TRP	NE1-CE2-CZ2	6.23	139.45	130.10
1	D	79	TRP	NE1-CE2-CZ2	6.21	139.41	130.10
1	B	79	TRP	NE1-CE2-CZ2	6.01	139.11	130.10
1	B	128	ASP	CA-CB-CG	5.97	118.57	112.60
1	D	79	TRP	CG-CD1-NE1	-5.93	102.49	110.20
1	D	29	PHE	N-CA-CB	-5.90	101.51	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	82	ASN	OD1-CG-ND2	-5.87	116.73	122.60
1	B	85	ASN	CA-CB-CG	-5.84	106.76	112.60
1	D	21	TRP	CG-CD1-NE1	-5.83	102.61	110.20
1	B	92	TRP	CG-CD1-NE1	-5.83	102.62	110.20
1	B	108	TRP	CG-CD1-NE1	-5.82	102.63	110.20
1	D	120	TRP	NE1-CE2-CZ2	5.79	138.78	130.10
1	D	75	TRP	CG-CD1-NE1	-5.74	102.73	110.20
1	B	129	THR	CA-CB-OG1	-5.73	101.00	109.60
1	D	70	GLY	N-CA-C	-5.65	103.97	112.89
1	D	120	TRP	CG-CD1-NE1	-5.59	102.93	110.20
1	B	21	TRP	NE1-CE2-CD2	-5.57	100.17	107.40
1	B	95	GLN	OE1-CD-NE2	-5.47	117.12	122.60
1	D	85	ASN	CA-CB-CG	-5.46	107.14	112.60
1	B	106	THR	N-CA-C	5.45	117.69	109.41
1	B	120	TRP	CG-CD1-NE1	-5.42	103.16	110.20
1	B	92	TRP	NE1-CE2-CZ2	5.41	138.22	130.10
1	B	134	LYS	O-C-N	5.41	126.07	121.20
1	D	66	THR	N-CA-C	5.38	118.32	109.76
1	D	108	TRP	CG-CD1-NE1	-5.38	103.21	110.20
1	D	92	TRP	NE1-CE2-CZ2	5.38	138.16	130.10
1	B	21	TRP	CD1-NE1-CE2	5.36	118.55	108.90
1	D	92	TRP	CD1-NE1-CE2	5.34	118.51	108.90
1	B	79	TRP	CG-CD1-NE1	-5.33	103.27	110.20
1	B	40	THR	N-CA-C	-5.29	101.25	109.24
1	D	104	ILE	N-CA-C	-5.29	99.94	107.77
1	D	31	VAL	N-CA-C	5.28	117.47	108.86
1	B	60	TYR	N-CA-C	-5.24	101.32	109.24
1	B	29	PHE	CA-CB-CG	5.23	119.03	113.80
1	D	49	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	D	21	TRP	NE1-CE2-CD2	-5.22	100.61	107.40
1	D	99	GLY	N-CA-C	-5.22	104.68	111.52
1	B	75	TRP	CD1-NE1-CE2	5.21	118.27	108.90
1	D	87	HIS	CA-CB-CG	-5.21	108.59	113.80
1	D	21	TRP	CD1-NE1-CE2	5.15	118.17	108.90
1	D	23	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	B	49	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	D	68	GLY	N-CA-C	5.04	125.12	113.18
1	B	57	THR	CA-CB-OG1	-5.03	102.05	109.60
1	B	75	TRP	NE1-CE2-CZ2	5.01	137.62	130.10

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	103	ARG	Sidechain
1	B	134	LYS	Peptide
1	B	53	ARG	Sidechain
1	B	63	ALA	Peptide
1	D	103	ARG	Sidechain
1	D	53	ARG	Sidechain
1	D	63	ALA	Peptide

5.2 Too-close contacts [i](#)

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	B	934	889	878	20	5
1	D	910	859	850	16	0
2	B	1	0	0	0	0
2	D	1	0	0	0	0
3	B	1	0	0	0	0
3	D	2	0	0	1	0
4	B	53	102	0	7	5
4	D	64	126	0	1	0
All	All	1966	1976	1728	32	5

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 (32) 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:22[A]:TYR:CD2	4:B:1460:HOH:O	1.64	1.24
1:B:22[B]:TYR:CD1	4:B:852:HOH:O	1.99	1.11
1:B:22[B]:TYR:HD1	4:B:852:HOH:O	1.38	0.97
1:B:22[A]:TYR:CZ	4:B:491:HOH:O	2.12	0.90
1:B:22[B]:TYR:CE1	1:B:131:THR:HB	2.17	0.79
1:B:22[A]:TYR:CE2	4:B:491:HOH:O	2.32	0.79
1:B:22[B]:TYR:CD2	4:B:1460:HOH:O	2.36	0.78
1:B:114:THR:H	1:D:95:GLN:HE22	1.34	0.74
1:B:22[A]:TYR:CE2	4:B:1460:HOH:O	2.12	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:GLN:HE22	1:D:114:THR:H	1.43	0.67
1:B:51:GLU:O	1:B:52:SER:CB	2.53	0.56
1:D:51:GLU:O	1:D:52:SER:CB	2.58	0.52
1:D:60:TYR:CE2	1:D:62:SER:HB2	2.45	0.51
1:D:120:TRP:CZ2	1:D:121:LYS:HD2	2.47	0.49
1:B:21:TRP:CZ3	1:B:132:LYS:HB2	2.47	0.49
1:B:22[A]:TYR:CE1	1:B:28:THR:HG23	2.47	0.49
1:D:21:TRP:CZ2	1:D:132:LYS:HE3	2.49	0.47
1:B:133:VAL:HG22	1:B:134:LYS:HG3	1.98	0.45
1:D:51:GLU:O	1:D:52:SER:HB2	2.17	0.45
1:D:110:LEU:C	1:D:110:LEU:HD23	2.41	0.45
1:D:30:ILE:O	1:D:41:GLY:HA3	2.16	0.44
1:B:114:THR:H	1:D:95:GLN:NE2	2.08	0.43
1:D:13:ALA:N	4:D:1174:HOH:O	2.51	0.43
1:B:19:GLY:HA2	1:B:135:PRO:C	2.44	0.42
1:D:23:ASN:OD1	1:D:23:ASN:C	2.62	0.42
1:D:23:ASN:HB3	1:D:130:PHE:CE1	2.54	0.42
1:B:85:ASN:ND2	1:D:63:ALA:HB2	2.35	0.41
1:D:48:GLY:HA3	3:D:503:CL:CL	2.58	0.41
1:B:67:ASP:HB2	1:B:69:SER:OG	2.20	0.40

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22[B]:TYR:HE1	4:B:852:HOH:H2[3_655]	0.87	0.73
1:B:22[B]:TYR:CE1	4:B:852:HOH:O[3_655]	1.54	0.66
1:B:22[B]:TYR:CE1	4:B:852:HOH:H2[3_655]	1.08	0.52
1:B:22[B]:TYR:HE1	4:B:852:HOH:H1[3_655]	1.08	0.52
1:B:22[B]:TYR:HE1	4:B:852:HOH:O[3_655]	1.20	0.40

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	B	124/123 (101%)	115 (93%)	6 (5%)	3 (2%)	4	0
1	D	121/123 (98%)	111 (92%)	3 (2%)	7 (6%)	1	0
All	All	245/246 (100%)	226 (92%)	9 (4%)	10 (4%)	2	0

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	52	SER
1	B	62	SER
1	D	15	ALA
1	D	52	SER
1	D	63	ALA
1	D	67	ASP
1	D	16	GLY
1	D	65	ALA
1	B	64	PRO
1	D	64	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	B	93/90 (103%)	87 (94%)	6 (6%)	15	1
1	D	90/90 (100%)	84 (93%)	6 (7%)	15	1
All	All	183/180 (102%)	171 (93%)	12 (7%)	19	1

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	39	LEU
1	B	44	GLU
1	B	66	THR
1	B	73[A]	LEU

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Mol	Chain	Res	Type
1	B	73[B]	LEU
1	B	133	VAL
1	D	31	VAL
1	D	36	ASP
1	D	52	SER
1	D	53	ARG
1	D	107[A]	GLN
1	D	107[B]	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	82	ASN
1	B	95	GLN
1	D	87	HIS
1	D	95	GLN
1	D	105	ASN
1	D	127	HIS

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 5 ligands modelled in this entry, 5 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	B	120/123 (97%)	-0.19	5 (4%) 40 42	9, 23, 53, 73	16 (13%)
1	D	120/123 (97%)	0.07	12 (10%) 12 12	2, 25, 50, 59	25 (20%)
All	All	240/246 (97%)	-0.06	17 (7%) 22 23	2, 24, 51, 73	41 (17%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	65	ALA	5.6
1	D	13	ALA	4.8
1	D	67	ASP	4.6
1	D	62	SER	4.4
1	D	63	ALA	4.2
1	D	64	PRO	3.7
1	B	63	ALA	3.6
1	B	135	PRO	3.6
1	B	66	THR	3.5
1	D	83	TYR	3.3
1	D	68	GLY	2.9
1	B	15	ALA	2.6
1	D	66	THR	2.6
1	D	48	GLY	2.3
1	D	49	ASN	2.1
1	D	14	GLU	2.1
1	B	67	ASP	2.1

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](#)

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
2	NA	B	504	1/1	0.60	0.13	49,49,49,49	0
3	CL	D	505	1/1	0.72	0.09	72,72,72,72	0
2	NA	D	508	1/1	0.74	0.21	35,35,35,35	0
3	CL	D	503	1/1	0.86	0.08	73,73,73,73	0
3	CL	B	509	1/1	0.93	0.04	36,36,36,36	1

6.5 Other polymers [i](#)

There are no such residues in this entry.