



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 11:25 AM UTC

PDB ID : 1AZ3 / pdb_00001az3
Title : ECORV ENDONUCLEASE, UNLIGANDED, FORM B
Authors : Perona, J.; Martin, A.
Deposited on : 1997-11-24
Resolution : 2.40 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) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

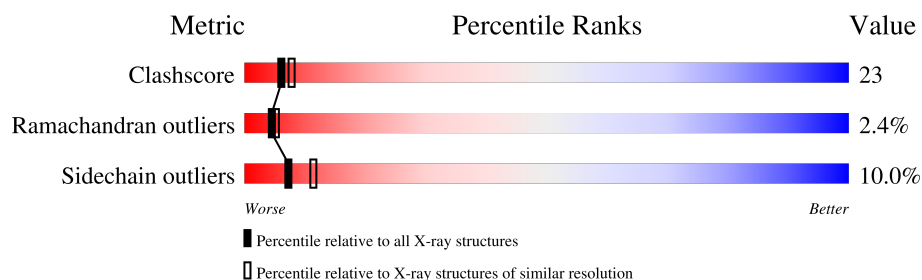
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)

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 $\leq 5\%$

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	244	
1	B	244	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3176 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 ECORV ENDONUCLEASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	186	Total	C	N	O	S	0	0	0
			1419	932	225	261	1			
1	B	215	Total	C	N	O	S	0	0	0
			1719	1123	275	320	1			

- Molecule 2 is water.

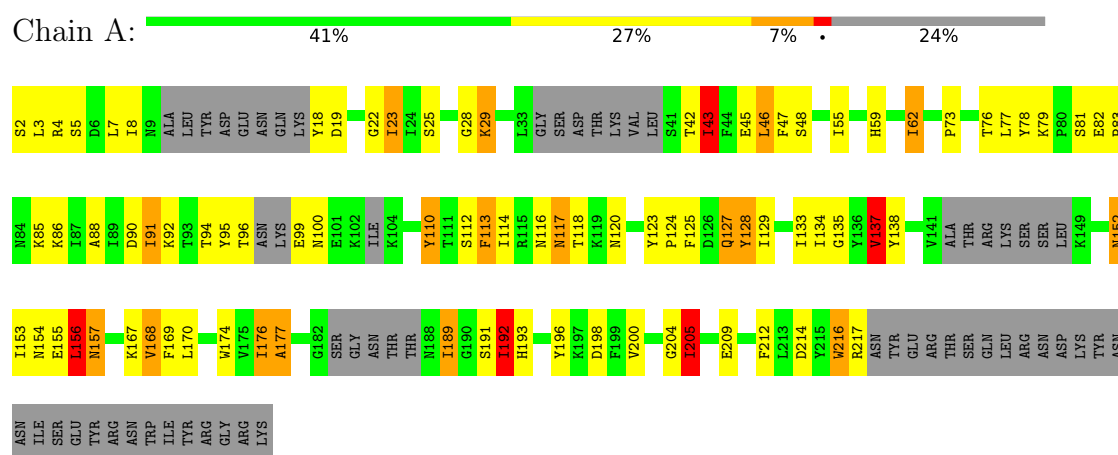
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	13	Total	O	0	0
			13	13		
2	B	25	Total	O	0	0
			25	25		

3 Residue-property plots

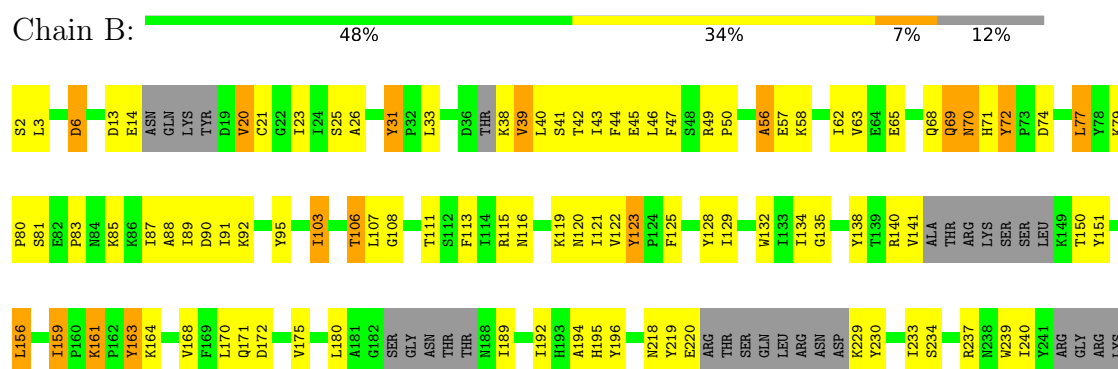
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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. 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.

Note EDS was not executed.

• Molecule 1: ECORV ENDONUCLEASE



• Molecule 1: ECORV ENDONUCLEASE



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	73.70Å 122.80Å 59.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	6.00 – 2.40	Depositor
% Data completeness (in resolution range)	75.0 (6.00-2.40)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	X-PLOR	Depositor
R, R_{free}	0.223 , 0.315	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	3176	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

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	0/1455	1.28	25/1982 (1.3%)
1	B	0.86	0/1764	1.30	20/2399 (0.8%)
All	All	0.82	0/3219	1.29	45/4381 (1.0%)

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	1

There are no bond length outliers.

All (45) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	33	LEU	N-CA-C	9.43	125.65	111.04
1	B	31	TYR	CA-C-N	8.94	128.88	119.85
1	B	31	TYR	C-N-CA	8.94	128.88	119.85
1	A	42	THR	N-CA-C	-8.92	103.23	114.56
1	A	134	ILE	N-CA-C	-8.47	95.63	107.99
1	B	72	TYR	N-CA-C	-8.16	99.78	110.07
1	B	79	LYS	CA-C-N	-7.92	110.80	119.19
1	B	79	LYS	C-N-CA	-7.92	110.80	119.19
1	A	120	ASN	N-CA-C	7.83	122.42	112.86
1	B	233	ILE	N-CA-C	7.49	118.23	110.36
1	A	209	GLU	N-CA-C	-7.32	103.24	111.07
1	A	177	ALA	N-CA-C	7.14	120.31	110.24
1	A	205	ILE	N-CA-C	6.96	120.35	113.53
1	A	79	LYS	N-CA-C	-6.79	101.52	110.07
1	A	127	GLN	N-CA-C	-6.70	105.26	113.50
1	A	45	GLU	N-CA-C	-6.69	103.46	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	118	THR	N-CA-CB	-6.40	101.27	110.80
1	B	39	VAL	N-CA-C	6.38	116.48	110.30
1	B	23	ILE	N-CA-C	-6.22	99.40	108.11
1	A	216	TRP	N-CA-C	6.17	121.11	112.72
1	A	91	ILE	CB-CA-C	-6.14	103.30	110.91
1	A	43	ILE	N-CA-C	-6.13	103.22	111.44
1	B	159	ILE	CA-C-N	6.07	127.42	119.84
1	B	159	ILE	C-N-CA	6.07	127.42	119.84
1	A	128	TYR	N-CA-C	6.06	118.17	108.41
1	A	192	ILE	N-CA-C	-5.89	101.43	109.55
1	A	48	SER	N-CA-C	5.85	117.53	111.03
1	A	117	ASN	N-CA-C	5.83	123.22	110.80
1	A	110	TYR	N-CA-C	5.81	119.99	113.02
1	A	28	GLY	N-CA-C	5.67	121.43	114.69
1	A	118	THR	N-CA-C	5.64	122.08	113.61
1	B	56	ALA	N-CA-C	-5.64	104.83	110.97
1	A	193	HIS	N-CA-C	-5.61	96.56	107.62
1	B	123	TYR	N-CA-C	-5.59	103.07	110.40
1	A	196	TYR	N-CA-C	5.58	118.90	111.75
1	B	161	LYS	CA-C-N	-5.43	114.42	120.45
1	B	161	LYS	C-N-CA	-5.43	114.42	120.45
1	A	198	ASP	N-CA-C	-5.36	105.55	111.71
1	B	170	LEU	N-CA-C	-5.34	99.74	108.76
1	B	120	ASN	N-CA-C	5.28	119.02	112.47
1	A	137	VAL	CB-CA-C	-5.28	102.94	110.12
1	B	125	PHE	N-CA-C	5.25	117.68	111.33
1	B	65	GLU	N-CA-C	-5.20	101.08	109.82
1	B	106	THR	N-CA-C	-5.07	101.89	109.95
1	A	174	TRP	N-CA-C	5.02	117.64	111.82

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	219	TYR	Sidechain

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	1419	0	1282	70	0
1	B	1719	0	1599	69	0
2	A	13	0	0	2	0
2	B	25	0	0	0	0
All	All	3176	0	2881	136	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 23.

All (136) 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:29:LYS:HA	1:A:29:LYS:HE2	1.57	0.86
1:B:44:PHE:HZ	1:B:163:TYR:HE2	1.27	0.79
1:A:153:ILE:O	1:A:156:LEU:HB2	1.83	0.77
1:A:86:LYS:HE2	1:A:123:TYR:CD2	2.19	0.76
1:B:95:TYR:HB3	1:B:138:TYR:CZ	2.20	0.76
1:B:44:PHE:CZ	1:B:163:TYR:HE2	2.06	0.74
1:B:21:CYS:HB3	1:B:161:LYS:HE3	1.72	0.71
1:B:20:VAL:HB	1:B:47:PHE:CZ	2.26	0.70
1:A:55:ILE:O	1:A:59:HIS:HD2	1.74	0.70
1:A:92:LYS:HG2	1:A:133:ILE:HG23	1.74	0.69
1:B:172:ASP:HB2	1:B:175:VAL:HG23	1.74	0.69
1:A:85:LYS:HA	1:A:129:ILE:HG23	1.75	0.69
1:B:44:PHE:HZ	1:B:163:TYR:CE2	2.09	0.68
1:A:78:TYR:HB3	1:A:86:LYS:HG2	1.75	0.67
1:A:76:THR:C	1:A:77:LEU:HD12	2.20	0.67
1:B:21:CYS:CB	1:B:161:LYS:HE3	2.25	0.67
1:A:177:ALA:CB	1:A:189:ILE:HD11	2.27	0.65
1:B:218:ASN:HB2	1:B:230:TYR:OH	1.97	0.65
1:B:229:LYS:HD2	1:B:239:TRP:CZ2	2.32	0.65
1:B:42:THR:O	1:B:46:LEU:HG	1.98	0.64
1:A:29:LYS:HE2	1:A:29:LYS:CA	2.22	0.63
1:A:3:LEU:O	1:A:7:LEU:HB2	1.99	0.63
1:A:114:ILE:O	1:A:217:ARG:NH1	2.32	0.63
1:A:22:GLY:C	1:A:23:ILE:HD13	2.24	0.63
1:A:62:ILE:O	1:A:77:LEU:HA	2.00	0.62
1:A:189:ILE:HD12	1:A:212:PHE:HE1	1.65	0.62
1:B:85:LYS:HB3	1:B:129:ILE:HD13	1.81	0.62
1:A:177:ALA:HB1	1:A:189:ILE:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:8:ILE:HG13	1:A:170:LEU:HD23	1.81	0.61
1:A:96:THR:HG21	2:A:250:HOH:O	2.01	0.61
1:B:150:THR:HG22	1:B:151:TYR:H	1.66	0.61
1:B:92:LYS:HE3	1:B:107:LEU:HA	1.82	0.60
1:A:2:SER:HB3	1:A:5:SER:OG	2.02	0.60
1:A:152:ASN:ND2	1:A:155:GLU:H	1.99	0.60
1:B:41:SER:O	1:B:45:GLU:HG3	2.02	0.59
1:A:55:ILE:HD12	1:A:55:ILE:N	2.19	0.58
1:A:25:SER:HA	1:B:20:VAL:HA	1.86	0.57
1:B:69:GLN:C	1:B:71:HIS:H	2.13	0.57
1:A:88:ALA:HB2	1:A:128:TYR:CD2	2.40	0.56
1:B:135:GLY:O	1:B:168:VAL:HA	2.05	0.56
1:A:152:ASN:HD21	1:A:154:ASN:HB2	1.70	0.56
1:A:135:GLY:O	1:A:168:VAL:HG23	2.05	0.56
1:B:237:ARG:O	1:B:240:ILE:HG13	2.07	0.55
1:B:85:LYS:HA	1:B:129:ILE:HG23	1.88	0.55
1:B:111:THR:HA	1:B:115:ARG:HD2	1.89	0.55
1:B:151:TYR:CG	1:B:159:ILE:HG12	2.42	0.55
1:B:2:SER:O	1:B:6:ASP:HB2	2.07	0.55
1:B:138:TYR:HB2	1:B:163:TYR:CD2	2.42	0.55
1:A:73:PRO:HB3	1:A:88:ALA:HB1	1.87	0.54
1:B:192:ILE:HD12	1:B:194:ALA:HB3	1.89	0.54
1:A:4:ARG:HG2	1:A:8:ILE:HD11	1.89	0.54
1:B:39:VAL:HG13	1:B:40:LEU:N	2.23	0.54
1:A:113:PHE:HD2	1:A:125:PHE:CD1	2.27	0.53
1:B:159:ILE:O	1:B:161:LYS:HD2	2.08	0.53
1:A:19:ASP:OD2	1:B:26:ALA:HB3	2.10	0.52
1:B:150:THR:HG22	1:B:151:TYR:N	2.24	0.52
1:B:237:ARG:HA	1:B:240:ILE:HG13	1.91	0.52
1:A:23:ILE:HD13	1:A:23:ILE:N	2.24	0.52
1:A:73:PRO:CB	1:A:88:ALA:HB1	2.39	0.52
1:A:189:ILE:HD12	1:A:212:PHE:CE1	2.44	0.52
1:B:20:VAL:HG12	1:B:47:PHE:CE2	2.45	0.52
1:A:62:ILE:HB	1:A:78:TYR:O	2.10	0.52
1:A:113:PHE:HA	1:A:116:ASN:O	2.10	0.51
1:A:18:TYR:HD1	1:A:47:PHE:CD2	2.28	0.51
1:A:214:ASP:O	1:A:217:ARG:HG2	2.11	0.51
1:A:85:LYS:HA	1:A:129:ILE:CG2	2.41	0.51
1:B:69:GLN:O	1:B:71:HIS:N	2.44	0.50
1:B:138:TYR:HB2	1:B:163:TYR:HD2	1.76	0.50
1:B:74:ASP:HB2	1:B:89:ILE:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:72:TYR:O	1:B:122:VAL:HG23	2.12	0.50
1:A:110:TYR:HB2	1:A:216:TRP:O	2.12	0.50
1:A:137:VAL:HG23	1:A:167:LYS:O	2.12	0.50
1:B:62:ILE:O	1:B:77:LEU:HA	2.12	0.49
1:B:192:ILE:HD12	1:B:194:ALA:CB	2.43	0.49
1:A:152:ASN:HD22	1:A:155:GLU:H	1.59	0.49
1:A:152:ASN:ND2	1:A:154:ASN:H	2.11	0.48
1:B:172:ASP:HB2	1:B:175:VAL:CG2	2.43	0.48
1:A:169:PHE:C	1:A:169:PHE:CD1	2.91	0.48
1:A:205:ILE:HD13	1:A:205:ILE:H	1.79	0.48
1:B:25:SER:OG	1:B:31:TYR:HE1	1.96	0.48
1:A:8:ILE:CG1	1:A:170:LEU:HD23	2.42	0.47
1:A:23:ILE:HG12	1:B:46:LEU:HD13	1.95	0.47
1:A:177:ALA:HB2	1:A:189:ILE:HD11	1.95	0.47
1:A:192:ILE:HG21	1:A:204:GLY:HA2	1.97	0.47
1:B:87:ILE:HG21	1:B:132:TRP:CZ3	2.50	0.46
1:A:123:TYR:HB2	1:A:128:TYR:CE1	2.50	0.46
1:B:113:PHE:HB3	1:B:121:ILE:CG2	2.46	0.46
1:B:13:ASP:O	1:B:14:GLU:CB	2.64	0.46
1:A:152:ASN:ND2	1:A:154:ASN:N	2.63	0.46
1:B:49:ARG:HB2	1:B:50:PRO:HD3	1.97	0.46
1:A:4:ARG:O	1:A:8:ILE:HG13	2.16	0.46
1:B:106:THR:O	1:B:107:LEU:HD23	2.16	0.46
1:B:141:VAL:HG13	1:B:141:VAL:O	2.16	0.46
1:B:103:ILE:HD13	1:B:103:ILE:N	2.32	0.45
1:A:43:ILE:O	1:A:46:LEU:HB3	2.17	0.45
1:B:80:PRO:O	1:B:83:PRO:HD3	2.16	0.45
1:A:55:ILE:N	1:A:55:ILE:CD1	2.80	0.45
1:A:204:GLY:HA3	2:A:255:HOH:O	2.14	0.45
1:B:229:LYS:HD2	1:B:239:TRP:CE2	2.52	0.45
1:B:218:ASN:CB	1:B:230:TYR:OH	2.62	0.44
1:B:164:LYS:HE2	1:B:164:LYS:HB2	1.87	0.44
1:A:94:THR:O	1:A:137:VAL:HA	2.18	0.44
1:B:20:VAL:HB	1:B:47:PHE:HZ	1.78	0.44
1:B:56:ALA:HB2	1:B:77:LEU:CD1	2.48	0.44
1:A:189:ILE:CD1	1:A:212:PHE:HE1	2.28	0.43
1:B:156:LEU:O	1:B:161:LYS:NZ	2.50	0.43
1:B:46:LEU:HD23	1:B:49:ARG:NH1	2.33	0.43
1:A:124:PRO:HB2	1:A:127:GLN:HG3	1.99	0.43
1:B:116:ASN:OD1	1:B:119:LYS:N	2.51	0.43
1:A:91:ILE:O	1:A:92:LYS:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:ALA:HB2	1:B:128:TYR:CD2	2.53	0.43
1:B:38:LYS:O	1:B:42:THR:HG23	2.18	0.43
1:B:121:ILE:HG12	1:B:123:TYR:O	2.18	0.43
1:A:73:PRO:HG3	1:A:88:ALA:CB	2.49	0.43
1:A:176:ILE:HG23	1:A:191:SER:HB2	2.01	0.43
1:A:152:ASN:ND2	1:A:155:GLU:N	2.66	0.42
1:B:108:GLY:O	1:B:189:ILE:HG13	2.19	0.42
1:A:86:LYS:HE2	1:A:123:TYR:CG	2.54	0.42
1:B:69:GLN:C	1:B:71:HIS:N	2.77	0.42
1:B:63:VAL:HG22	1:B:77:LEU:HD13	2.02	0.42
1:B:68:GLN:O	1:B:70:ASN:N	2.52	0.42
1:A:91:ILE:C	1:A:92:LYS:HD2	2.45	0.42
1:A:95:TYR:HB3	1:A:138:TYR:CE1	2.55	0.41
1:A:169:PHE:CE1	1:A:176:ILE:HD11	2.55	0.41
1:A:18:TYR:CD1	1:A:47:PHE:CD2	3.08	0.41
1:A:43:ILE:HA	1:A:46:LEU:HB3	2.03	0.41
1:B:95:TYR:HA	1:B:138:TYR:O	2.21	0.41
1:A:129:ILE:HG21	1:A:129:ILE:HD13	1.86	0.41
1:A:176:ILE:O	1:A:192:ILE:HG23	2.21	0.41
1:B:195:HIS:O	1:B:196:TYR:C	2.64	0.41
1:A:86:LYS:HE2	1:A:123:TYR:CE2	2.56	0.41
1:B:171:GLN:HG3	1:B:172:ASP:N	2.36	0.40
1:A:99:GLU:O	1:A:100:ASN:HB2	2.21	0.40
1:B:57:GLU:O	1:B:58:LYS:C	2.65	0.40
1:B:91:ILE:HD13	1:B:134:ILE:HD12	2.03	0.40
1:B:163:TYR:HD1	1:B:163:TYR:O	2.05	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	172/244 (70%)	148 (86%)	18 (10%)	6 (4%)	3	2
1	B	203/244 (83%)	186 (92%)	14 (7%)	3 (2%)	8	12
All	All	375/488 (77%)	334 (89%)	32 (8%)	9 (2%)	4	5

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	117	ASN
1	B	69	GLN
1	A	113	PHE
1	B	70	ASN
1	A	83	PRO
1	A	112	SER
1	A	157	ASN
1	B	156	LEU
1	A	156	LEU

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	136/220 (62%)	118 (87%)	18 (13%)	4	5
1	B	175/220 (80%)	162 (93%)	13 (7%)	13	22
All	All	311/440 (71%)	280 (90%)	31 (10%)	7	11

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	23	ILE
1	A	29	LYS
1	A	43	ILE
1	A	46	LEU
1	A	62	ILE
1	A	81	SER
1	A	82	GLU

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Mol	Chain	Res	Type
1	A	90	ASP
1	A	137	VAL
1	A	152	ASN
1	A	156	LEU
1	A	157	ASN
1	A	168	VAL
1	A	176	ILE
1	A	189	ILE
1	A	192	ILE
1	A	200	VAL
1	A	205	ILE
1	B	3	LEU
1	B	6	ASP
1	B	20	VAL
1	B	43	ILE
1	B	77	LEU
1	B	81	SER
1	B	90	ASP
1	B	103	ILE
1	B	140	ARG
1	B	163	TYR
1	B	180	LEU
1	B	220	GLU
1	B	234	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	53	ASN
1	A	59	HIS
1	A	120	ASN
1	A	152	ASN
1	A	154	ASN
1	B	53	ASN
1	B	71	HIS

5.3.3 RNA ⓘ

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

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.