



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 01:52 PM UTC

PDB ID : 3CVM / pdb_00003cvm
Title : High resolution structure of a stable Plasminogen activator inhibitor type-1 in its protease cleaved form
Authors : Jensen, J.K.; Gettins, P.G.W.
Deposited on : 2008-04-18
Resolution : 2.02 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

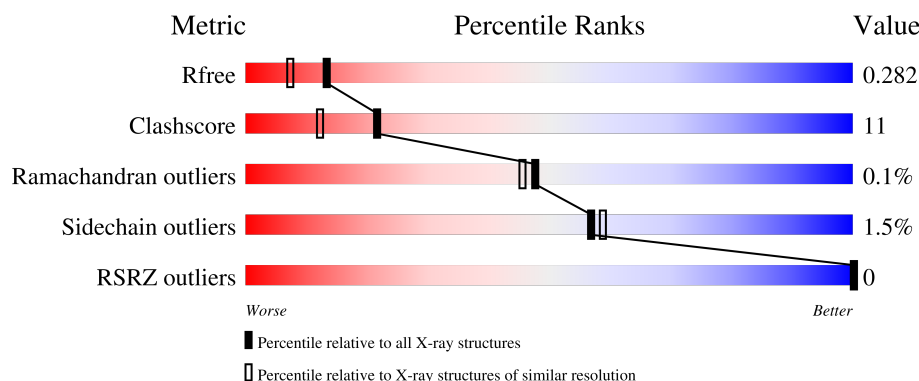
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.02 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	13299 (2.04-2.00)
Clashscore	190562	1022 (2.02-2.02)
Ramachandran outliers	187476	1014 (2.02-2.02)
Sidechain outliers	187428	1014 (2.02-2.02)
RSRZ outliers	180081	13314 (2.04-2.00)

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	392	 78% 16% . .
1	B	392	 73% 21% . .

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 12794 atoms, of which 5988 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 Plasminogen activator inhibitor 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	377	Total	C	H	N	O	S	142	0	0
			5992	1922	2994	514	548	14			
1	B	377	Total	C	H	N	O	S	171	0	0
			5992	1922	2994	514	548	14			

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-12	MET	-	expression tag	UNP P05121
A	-11	ARG	-	expression tag	UNP P05121
A	-10	GLY	-	expression tag	UNP P05121
A	-9	SER	-	expression tag	UNP P05121
A	-8	HIS	-	expression tag	UNP P05121
A	-7	HIS	-	expression tag	UNP P05121
A	-6	HIS	-	expression tag	UNP P05121
A	-5	HIS	-	expression tag	UNP P05121
A	-4	HIS	-	expression tag	UNP P05121
A	-3	HIS	-	expression tag	UNP P05121
A	10	ARG	HIS	variant	UNP P05121
A	150	HIS	ASN	engineered mutation	UNP P05121
A	154	THR	LYS	engineered mutation	UNP P05121
A	319	LEU	GLN	engineered mutation	UNP P05121
A	354	ILE	MET	engineered mutation	UNP P05121
B	-12	MET	-	expression tag	UNP P05121
B	-11	ARG	-	expression tag	UNP P05121
B	-10	GLY	-	expression tag	UNP P05121
B	-9	SER	-	expression tag	UNP P05121
B	-8	HIS	-	expression tag	UNP P05121
B	-7	HIS	-	expression tag	UNP P05121
B	-6	HIS	-	expression tag	UNP P05121
B	-5	HIS	-	expression tag	UNP P05121
B	-4	HIS	-	expression tag	UNP P05121
B	-3	HIS	-	expression tag	UNP P05121

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Chain	Residue	Modelled	Actual	Comment	Reference
B	10	ARG	HIS	variant	UNP P05121
B	150	HIS	ASN	engineered mutation	UNP P05121
B	154	THR	LYS	engineered mutation	UNP P05121
B	319	LEU	GLN	engineered mutation	UNP P05121
B	354	ILE	MET	engineered mutation	UNP P05121

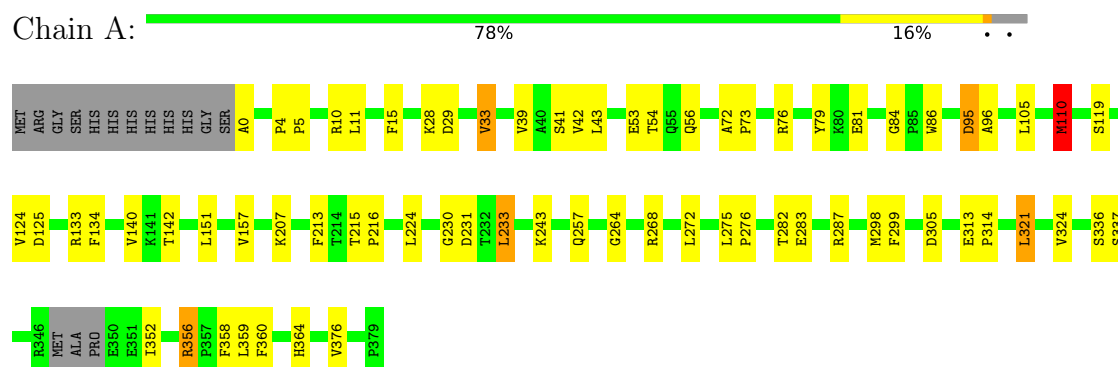
- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	306	Total O 306 306	0	0
2	B	504	Total O 504 504	0	0

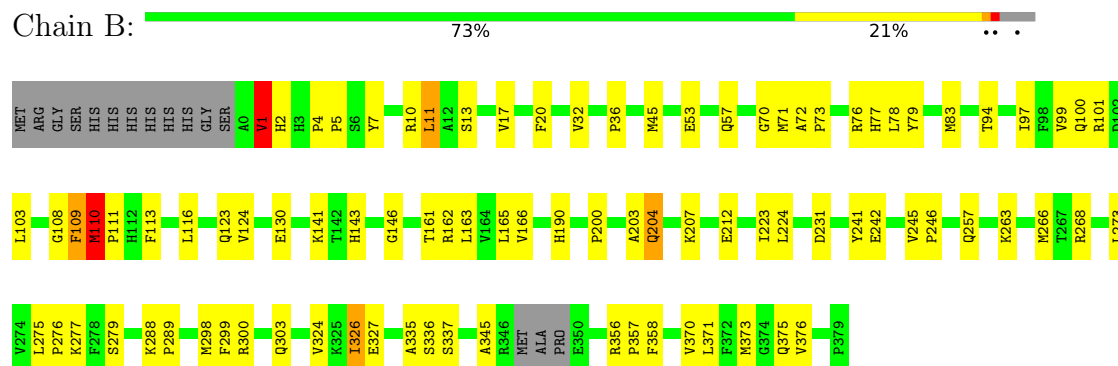
3 Residue-property plots

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 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: Plasminogen activator inhibitor 1



• Molecule 1: Plasminogen activator inhibitor 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	76.60Å 104.01Å 76.43Å 90.00° 101.93° 90.00°	Depositor
Resolution (Å)	19.64 – 2.02 19.64 – 2.02	Depositor EDS
% Data completeness (in resolution range)	98.0 (19.64-2.02) 97.4 (19.64-2.02)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.33 (at 2.02Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.228 , 0.282 0.232 , 0.282	Depositor DCC
R_{free} test set	2255 reflections (3.00%)	wwPDB-VP
Wilson B-factor (Å ²)	26.1	Xtriage
Anisotropy	0.254	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 41.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.369 for l,-k,h	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	12794	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.44% 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	0.68	3/3070 (0.1%)	0.83	5/4163 (0.1%)
1	B	0.70	6/3070 (0.2%)	0.85	3/4163 (0.1%)
All	All	0.69	9/6140 (0.1%)	0.84	8/8326 (0.1%)

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

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	356	ARG	C-N	-7.79	1.23	1.33
1	A	110	MET	C-O	-6.60	1.18	1.24
1	B	335	ALA	CA-CB	-6.46	1.42	1.53
1	A	11	LEU	C-O	-6.13	1.17	1.24
1	B	11	LEU	C-O	-5.92	1.16	1.24
1	B	203	ALA	C-N	5.89	1.41	1.33
1	B	204	GLN	C-N	-5.55	1.26	1.33
1	A	95	ASP	CA-C	5.23	1.58	1.52
1	B	335	ALA	C-O	-5.12	1.17	1.23

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	356	ARG	O-C-N	-11.40	111.33	121.71
1	A	233	LEU	O-C-N	-8.63	113.09	123.19
1	A	336	SER	N-CA-C	6.58	119.17	109.24
1	A	96	ALA	N-CA-C	6.50	119.59	109.52
1	A	29	ASP	N-CA-C	6.49	121.02	111.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1	VAL	N-CA-C	5.42	116.12	108.36
1	B	336	SER	N-CA-C	5.28	117.21	109.24
1	A	28	LYS	N-CA-C	5.02	119.65	111.37

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	109	PHE	Peptide
1	B	110	MET	Peptide
1	B	204	GLN	Mainchain
1	B	345	ALA	Peptide

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	2998	2994	2996	62	0
1	B	2998	2994	2996	72	0
2	A	306	0	0	8	0
2	B	504	0	0	10	0
All	All	6806	5988	5992	126	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 11.

All (126) 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:10:ARG:HD3	1:B:257:GLN:HG2	1.31	1.12
1:A:243:LYS:HD2	1:A:243:LYS:N	1.72	1.04
1:B:76:ARG:HA	1:B:79:TYR:CE1	2.02	0.94
1:A:224:LEU:HD21	1:A:352:ILE:HD13	1.52	0.92
1:A:10:ARG:HD3	1:B:257:GLN:CG	2.00	0.90
1:A:10:ARG:CD	1:B:257:GLN:HG2	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:LYS:HE3	1:A:356:ARG:HH22	1.43	0.82
1:A:76:ARG:HA	1:A:79:TYR:CE1	2.15	0.81
1:B:97:ILE:HG22	1:B:165:LEU:HD22	1.62	0.80
1:A:243:LYS:HE3	1:A:356:ARG:NH2	2.01	0.74
1:A:243:LYS:HD2	1:A:243:LYS:H	1.53	0.74
1:A:41:SER:HB3	2:A:569:HOH:O	1.88	0.72
1:B:5:PRO:HG3	1:B:77:HIS:ND1	2.05	0.72
1:A:321:LEU:HD12	1:A:321:LEU:C	2.15	0.70
1:B:200:PRO:HB2	1:B:277:LYS:HD2	1.75	0.67
1:B:97:ILE:CG2	1:B:165:LEU:HD22	2.26	0.66
1:A:72:ALA:HB3	1:A:73:PRO:HD3	1.79	0.64
1:A:207:LYS:HB3	1:A:268:ARG:HG2	1.79	0.64
1:A:15:PHE:CZ	1:A:43:LEU:HD12	2.33	0.63
1:A:224:LEU:HD21	1:A:352:ILE:CD1	2.29	0.62
1:B:11:LEU:HD11	2:B:830:HOH:O	1.98	0.62
1:B:110:MET:H	1:B:111:PRO:HD2	1.64	0.62
1:B:79:TYR:O	1:B:83:MET:HE2	1.99	0.62
1:B:78:LEU:HD12	1:B:78:LEU:O	2.02	0.60
1:A:95:ASP:HB2	1:A:119:SER:OG	2.03	0.58
1:B:7:TYR:HE2	1:B:71:MET:HE1	1.69	0.58
1:A:133:ARG:HB3	1:A:157:VAL:HG11	1.86	0.58
1:A:233:LEU:HD21	1:A:364:HIS:HD2	1.69	0.57
1:A:142:THR:HG23	2:A:685:HOH:O	2.04	0.57
1:B:207:LYS:HB3	1:B:268:ARG:HG2	1.87	0.56
1:B:371:LEU:CD1	2:B:857:HOH:O	2.54	0.56
1:B:53:GLU:O	1:B:57:GLN:HG3	2.06	0.55
1:B:298:MET:HE3	1:B:299:PHE:CZ	2.40	0.55
1:B:371:LEU:HD12	2:B:857:HOH:O	2.06	0.55
1:B:141:LYS:HG3	1:B:146:GLY:HA2	1.89	0.55
1:B:163:LEU:HD21	1:B:165:LEU:HD21	1.88	0.55
1:A:53:GLU:HA	1:A:53:GLU:OE1	2.07	0.54
1:B:45:MET:HE2	1:B:113:PHE:CZ	2.44	0.53
1:A:321:LEU:C	1:A:321:LEU:CD1	2.83	0.52
1:A:151:LEU:HD11	1:A:321:LEU:HD11	1.91	0.52
1:A:298:MET:HE3	1:A:299:PHE:CZ	2.45	0.52
1:A:287:ARG:HB2	2:A:393:HOH:O	2.10	0.52
1:A:15:PHE:CE2	1:A:43:LEU:HD12	2.45	0.51
1:B:4:PRO:HB2	1:B:5:PRO:HD3	1.91	0.51
1:B:103:LEU:HD22	1:B:162:ARG:HB3	1.92	0.51
1:A:359:LEU:HG	1:A:360:PHE:N	2.24	0.51
1:A:321:LEU:HD12	1:A:321:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:72:ALA:HB3	1:B:73:PRO:HD3	1.92	0.50
1:B:73:PRO:HB2	2:B:882:HOH:O	2.12	0.50
1:A:56:GLN:HA	1:A:56:GLN:OE1	2.12	0.49
1:A:10:ARG:HD3	1:B:257:GLN:HE21	1.78	0.49
1:A:243:LYS:N	1:A:243:LYS:CD	2.58	0.49
1:B:257:GLN:HB2	2:B:384:HOH:O	2.12	0.49
1:A:10:ARG:HD3	1:B:257:GLN:NE2	2.28	0.49
1:A:0:ALA:HB3	1:B:212:GLU:O	2.13	0.49
1:B:79:TYR:HD2	1:B:83:MET:HE2	1.78	0.48
1:B:76:ARG:HA	1:B:79:TYR:HE1	1.65	0.48
1:A:213:PHE:HD1	1:B:1:VAL:HG23	1.77	0.48
1:B:263:LYS:HD2	2:B:471:HOH:O	2.13	0.48
1:A:33:VAL:HG22	1:A:324:VAL:HG11	1.94	0.48
1:B:279:SER:OG	1:B:327:GLU:HG3	2.14	0.47
1:A:207:LYS:HD2	2:A:681:HOH:O	2.14	0.47
1:B:223:ILE:HG22	1:B:266:MET:CE	2.44	0.47
1:B:45:MET:HE2	1:B:113:PHE:CE2	2.49	0.47
1:B:99:VAL:HG22	1:B:100:GLN:N	2.29	0.47
1:B:36:PRO:HG2	1:B:370:VAL:CG1	2.44	0.47
1:B:101:ARG:HD3	1:B:123:GLN:HB3	1.95	0.47
1:A:230:GLY:O	1:A:231:ASP:HB2	2.14	0.47
1:B:7:TYR:CE2	1:B:71:MET:HE1	2.50	0.47
1:A:4:PRO:HB2	1:A:5:PRO:HD3	1.97	0.46
1:B:4:PRO:CB	1:B:5:PRO:HD3	2.45	0.46
1:A:54:THR:HG23	1:A:298:MET:HB3	1.96	0.46
1:B:231:ASP:HA	2:B:638:HOH:O	2.16	0.46
1:B:200:PRO:HB2	1:B:277:LYS:CD	2.42	0.46
1:A:264:GLY:HA3	2:A:462:HOH:O	2.16	0.45
1:B:223:ILE:HG22	1:B:266:MET:HE1	1.97	0.45
1:B:190:HIS:O	1:B:357:PRO:HD3	2.17	0.45
1:B:20:PHE:CD2	1:B:373:MET:HE2	2.51	0.45
1:B:13:SER:O	1:B:17:VAL:HG23	2.17	0.45
1:A:257:GLN:HG2	1:B:10:ARG:HD2	1.99	0.44
1:A:313:GLU:HB2	1:A:314:PRO:CD	2.47	0.44
1:B:241:TYR:HD2	1:B:242:GLU:OE2	1.99	0.44
1:B:224:LEU:CD1	1:B:273:LEU:HD13	2.48	0.44
1:B:300:ARG:HB2	1:B:303:GLN:HB2	1.98	0.44
1:B:36:PRO:HG2	1:B:370:VAL:HG12	2.00	0.43
1:B:324:VAL:HG22	1:B:337:SER:CB	2.48	0.43
1:B:326:ILE:O	1:B:327:GLU:OE1	2.36	0.43
1:A:124:VAL:HG12	1:A:125:ASP:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:298:MET:HE3	1:A:299:PHE:CE2	2.53	0.43
1:A:275:LEU:HD12	1:A:276:PRO:HD2	2.00	0.43
1:B:94:THR:HG21	1:B:143:HIS:CD2	2.54	0.43
1:A:133:ARG:HB3	1:A:157:VAL:CG1	2.49	0.43
1:A:282:THR:HG22	1:A:283:GLU:N	2.34	0.43
1:A:358:PHE:CZ	1:A:376:VAL:HG21	2.53	0.43
1:B:78:LEU:HD12	1:B:78:LEU:C	2.43	0.43
1:A:76:ARG:HA	1:A:79:TYR:CZ	2.51	0.43
1:A:84:GLY:HA3	1:A:86:TRP:CZ2	2.54	0.43
1:B:97:ILE:HD13	1:B:113:PHE:CE2	2.54	0.43
1:A:10:ARG:HD2	2:A:645:HOH:O	2.19	0.42
1:B:110:MET:HB2	2:B:608:HOH:O	2.18	0.42
1:A:134:PHE:CD2	1:A:134:PHE:C	2.97	0.42
1:B:108:GLY:C	1:B:110:MET:H	2.27	0.42
1:A:298:MET:CE	1:A:299:PHE:CE2	3.03	0.42
1:A:324:VAL:HG13	1:A:337:SER:HB3	2.01	0.42
1:A:151:LEU:HD11	1:A:321:LEU:CD1	2.50	0.42
1:B:10:ARG:NH1	2:B:835:HOH:O	2.49	0.42
1:B:32:VAL:HB	1:B:375:GLN:HG2	2.02	0.42
1:A:39:VAL:O	1:A:43:LEU:HG	2.20	0.41
1:A:272:LEU:HD13	2:A:665:HOH:O	2.19	0.41
1:B:70:GLY:C	1:B:73:PRO:HD2	2.46	0.41
1:A:105:LEU:HD13	1:A:110:MET:HE2	2.01	0.41
1:B:109:PHE:O	1:B:109:PHE:CG	2.72	0.41
1:A:42:VAL:HG23	1:A:43:LEU:N	2.35	0.41
1:B:2:HIS:O	1:B:5:PRO:HD2	2.21	0.41
1:B:288:LYS:HB2	1:B:289:PRO:HD3	2.01	0.41
1:B:275:LEU:HD12	1:B:276:PRO:HD2	2.02	0.41
1:A:215:THR:HB	1:A:216:PRO:HD2	2.03	0.41
1:A:140:VAL:HB	2:A:459:HOH:O	2.21	0.41
1:B:72:ALA:N	1:B:73:PRO:CD	2.84	0.41
1:A:233:LEU:CD2	1:A:364:HIS:HD2	2.31	0.41
1:B:110:MET:HB3	1:B:111:PRO:CD	2.50	0.41
1:B:245:VAL:HA	1:B:246:PRO:HD3	1.83	0.41
1:B:101:ARG:HG2	1:B:124:VAL:O	2.22	0.40
1:B:161:THR:N	2:B:683:HOH:O	2.53	0.40
1:B:358:PHE:CZ	1:B:376:VAL:HG21	2.56	0.40
1:A:305:ASP:C	1:A:305:ASP:OD1	2.64	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	373/392 (95%)	359 (96%)	14 (4%)	0	100	100
1	B	373/392 (95%)	360 (96%)	12 (3%)	1 (0%)	36	31
All	All	746/784 (95%)	719 (96%)	26 (4%)	1 (0%)	48	45

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	110	MET

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	331/343 (96%)	326 (98%)	5 (2%)	57	59
1	B	331/343 (96%)	326 (98%)	5 (2%)	57	59
All	All	662/686 (96%)	652 (98%)	10 (2%)	57	59

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	33	VAL
1	A	81	GLU
1	A	110	MET
1	A	321	LEU
1	A	356	ARG

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Mol	Chain	Res	Type
1	B	1	VAL
1	B	116	LEU
1	B	130	GLU
1	B	166	VAL
1	B	326	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	167	ASN
1	B	112	HIS

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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(Å²)	Q<0.9	
1	A	377/392 (96%)	-1.29	0	100100	14, 29, 46, 55	99 (26%)
1	B	377/392 (96%)	-1.29	0	100100	14, 28, 42, 53	115 (30%)
All	All	754/784 (96%)	-1.29	0	100100	14, 28, 44, 55	214 (28%)

There are no RSRZ outliers to report.

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.