



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 24, 2026 – 02:17 PM JST

PDB ID : 27JP / pdb_000027jp
Title : Crystal structure of the mature form of human ASPRV1
Authors : Chen, Z.; Feng, X.; Ding, J.
Deposited on : 2026-06-03
Resolution : 2.35 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	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

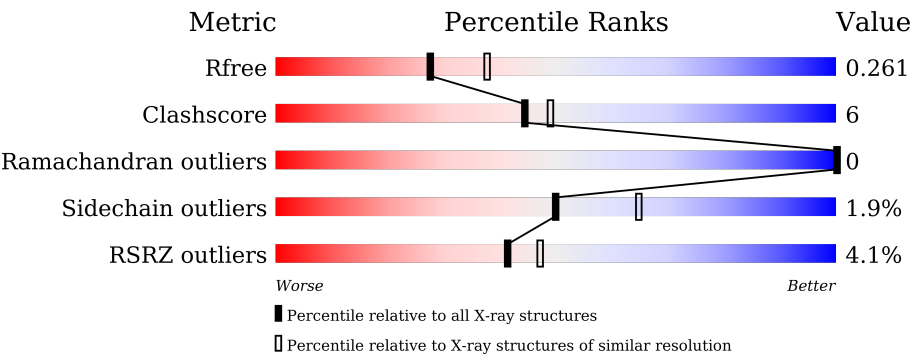
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.35 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	1596 (2.36-2.36)
Clashscore	190562	1663 (2.36-2.36)
Ramachandran outliers	187476	1646 (2.36-2.36)
Sidechain outliers	187428	1646 (2.36-2.36)
RSRZ outliers	180081	1598 (2.36-2.36)

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	137	%74%11%15%
1	B	137	4%72%14%15%
1	C	137	3%71%14%.15%
1	D	137	7%70%15%15%
1	E	137	3%76%9%15%
1	F	137	6%76%9%15%

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Mol	Chain	Length	Quality of chain
1	G	137	2% 77% 8% • 15%
1	H	137	3% 69% 12% • 19%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 7557 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 Retroviral-like aspartic protease 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	117	Total	C	N	O	S	0	0	0
			905	584	152	167	2			
1	B	117	Total	C	N	O	S	0	0	0
			905	584	152	167	2			
1	C	117	Total	C	N	O	S	0	0	0
			905	584	152	167	2			
1	D	117	Total	C	N	O	S	0	0	0
			895	576	150	167	2			
1	E	117	Total	C	N	O	S	0	0	0
			895	576	150	167	2			
1	F	117	Total	C	N	O	S	0	0	0
			895	576	150	167	2			
1	G	117	Total	C	N	O	S	0	0	0
			895	576	150	167	2			
1	H	111	Total	C	N	O	S	0	0	0
			857	554	144	158	1			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	190	SER	-	expression tag	UNP Q53RT3
A	199	GLU	LYS	conflict	UNP Q53RT3
B	190	SER	-	expression tag	UNP Q53RT3
B	199	GLU	LYS	conflict	UNP Q53RT3
C	190	SER	-	expression tag	UNP Q53RT3
C	199	GLU	LYS	conflict	UNP Q53RT3
D	190	SER	-	expression tag	UNP Q53RT3
D	199	GLU	LYS	conflict	UNP Q53RT3
E	190	SER	-	expression tag	UNP Q53RT3
E	199	GLU	LYS	conflict	UNP Q53RT3
F	190	SER	-	expression tag	UNP Q53RT3
F	199	GLU	LYS	conflict	UNP Q53RT3
G	190	SER	-	expression tag	UNP Q53RT3

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Chain	Residue	Modelled	Actual	Comment	Reference
G	199	GLU	LYS	conflict	UNP Q53RT3
H	190	SER	-	expression tag	UNP Q53RT3
H	199	GLU	LYS	conflict	UNP Q53RT3

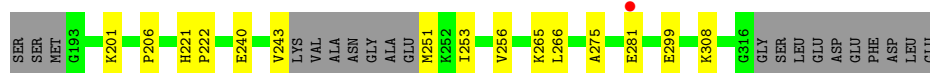
- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	65	Total O 65 65	0	0
2	B	49	Total O 49 49	0	0
2	C	44	Total O 44 44	0	0
2	D	50	Total O 50 50	0	0
2	E	53	Total O 53 53	0	0
2	F	56	Total O 56 56	0	0
2	G	52	Total O 52 52	0	0
2	H	36	Total O 36 36	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: Retroviral-like aspartic protease 1



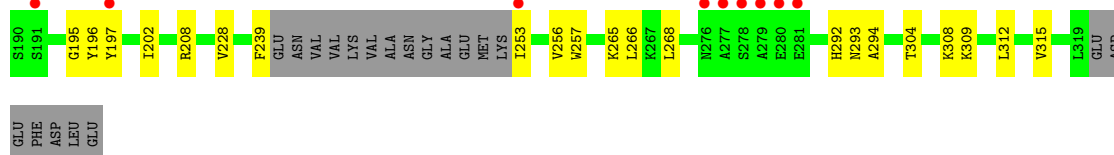
- Molecule 1: Retroviral-like aspartic protease 1



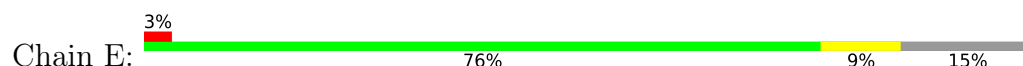
- Molecule 1: Retroviral-like aspartic protease 1

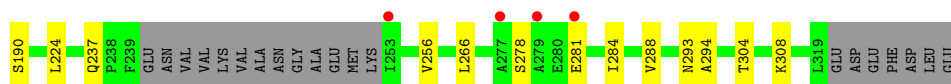


- Molecule 1: Retroviral-like aspartic protease 1

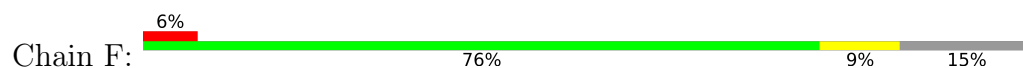


- Molecule 1: Retroviral-like aspartic protease 1

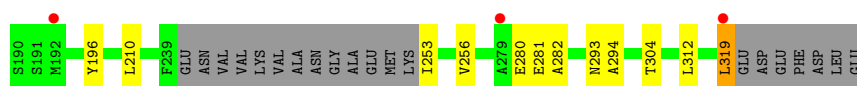
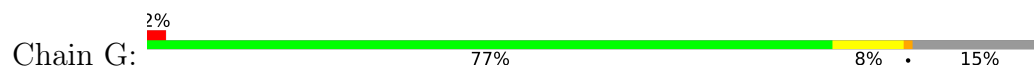




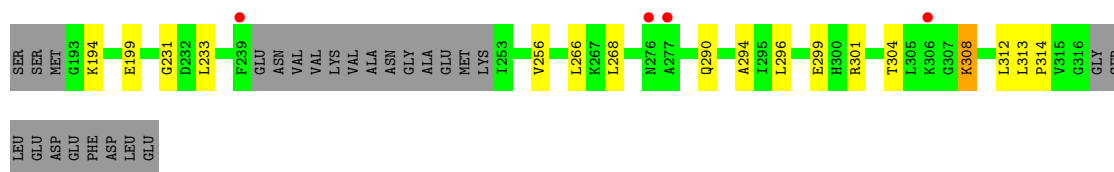
- Molecule 1: Retroviral-like aspartic protease 1



- Molecule 1: Retroviral-like aspartic protease 1



- Molecule 1: Retroviral-like aspartic protease 1



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	260.14Å 34.98Å 185.55Å 90.00° 134.34° 90.00°	Depositor
Resolution (Å)	132.69 – 2.35 132.69 – 2.35	Depositor EDS
% Data completeness (in resolution range)	99.3 (132.69-2.35) 99.3 (132.69-2.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.73 (at 2.34Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.204 , 0.261 0.206 , 0.261	Depositor DCC
R_{free} test set	2558 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	32.9	Xtriage
Anisotropy	0.166	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 53.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.034 for h+2*k,-h-l 0.029 for h,-k,-h-l 0.034 for -h-2*k,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	7557	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.80% 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 [i](#)

5.1 Standard geometry [i](#)

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	0.38	0/921	0.60	0/1246
1	B	0.34	0/921	0.57	0/1246
1	C	0.35	0/921	0.58	0/1246
1	D	0.39	0/911	0.60	0/1232
1	E	0.34	0/911	0.57	0/1232
1	F	0.34	0/911	0.59	0/1232
1	G	0.35	0/911	0.60	0/1232
1	H	0.34	0/873	0.53	0/1182
All	All	0.36	0/7280	0.58	0/9848

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	A	905	0	924	13	0
1	B	905	0	924	13	0
1	C	905	0	924	12	0
1	D	895	0	910	16	0
1	E	895	0	910	9	0
1	F	895	0	910	11	0
1	G	895	0	910	7	0
1	H	857	0	872	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	65	0	0	2	0
2	B	49	0	0	1	0
2	C	44	0	0	2	0
2	D	50	0	0	4	0
2	E	53	0	0	1	1
2	F	56	0	0	3	0
2	G	52	0	0	2	1
2	H	36	0	0	2	0
All	All	7557	0	7284	87	1

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 (87) 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)
2:A:436:HOH:O	1:B:204:LYS:HG2	1.81	0.80
1:A:265:LYS:HD3	1:A:265:LYS:H	1.50	0.76
1:A:251:MET:HE3	1:A:253:ILE:HD11	1.68	0.74
1:D:197:TYR:HE2	1:D:315:VAL:HB	1.52	0.73
1:D:265:LYS:HG2	2:D:415:HOH:O	1.89	0.71
1:F:196:TYR:HD2	2:F:403:HOH:O	1.72	0.71
1:A:243:VAL:HG11	1:A:251:MET:HE2	1.74	0.69
1:C:239:PHE:CZ	1:C:241:ASN:HB2	2.28	0.67
1:A:221:HIS:HB3	1:A:281:GLU:HG3	1.75	0.66
1:C:251:MET:HE2	1:C:253:ILE:HD11	1.78	0.65
1:F:313:LEU:HD13	2:F:401:HOH:O	1.95	0.65
1:C:253:ILE:HD13	1:C:273:LEU:HD13	1.79	0.64
1:F:293:ASN:HB3	1:H:299:GLU:HB2	1.80	0.64
1:G:196:TYR:HB3	1:G:312:LEU:HD22	1.80	0.64
1:A:265:LYS:H	1:A:265:LYS:CD	2.09	0.64
1:D:196:TYR:HB3	1:D:312:LEU:HD22	1.78	0.64
1:E:278:SER:OG	2:E:401:HOH:O	2.15	0.63
1:H:308:LYS:NZ	2:H:401:HOH:O	2.31	0.63
1:A:299:GLU:HB2	1:G:293:ASN:HB3	1.81	0.62
1:G:253:ILE:N	2:G:402:HOH:O	2.32	0.61
1:C:266:LEU:HD13	1:C:268:LEU:HD21	1.80	0.61
1:E:237:GLN:HB2	1:E:256:VAL:HG13	1.84	0.60
1:B:292:HIS:HA	1:B:306:LYS:HE3	1.83	0.59
1:F:196:TYR:CD2	2:F:403:HOH:O	2.50	0.59
1:E:266:LEU:HD11	1:E:308:LYS:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:224:LEU:HD22	1:E:281:GLU:HG2	1.85	0.58
1:C:239:PHE:CE2	1:C:253:ILE:HD12	2.37	0.58
1:H:266:LEU:HD21	1:H:268:LEU:HD21	1.85	0.58
1:F:292:HIS:HA	1:F:306:LYS:HE3	1.86	0.56
1:D:268:LEU:HD22	1:D:292:HIS:CE1	2.41	0.55
1:C:264:GLY:HA3	2:C:432:HOH:O	2.06	0.55
1:E:224:LEU:HB2	1:E:281:GLU:OE2	2.07	0.55
1:F:196:TYR:HB3	1:F:312:LEU:HD22	1.89	0.54
1:G:319:LEU:HB2	2:G:412:HOH:O	2.08	0.53
1:D:197:TYR:HB2	2:D:436:HOH:O	2.09	0.52
1:D:304:THR:HG22	2:D:407:HOH:O	2.09	0.52
1:F:194:LYS:H	1:H:290:GLN:HE22	1.58	0.51
1:F:268:LEU:HD22	1:F:292:HIS:NE2	2.25	0.51
1:B:287:ASP:OD2	2:B:401:HOH:O	2.19	0.51
1:D:304:THR:HA	1:D:308:LYS:O	2.11	0.50
1:F:294:ALA:HA	1:F:304:THR:O	2.11	0.50
1:C:284:ILE:HG23	1:C:288:VAL:HB	1.95	0.49
1:H:199:GLU:HG3	1:H:313:LEU:HD13	1.95	0.49
1:E:294:ALA:HA	1:E:304:THR:O	2.12	0.48
1:B:253:ILE:HD13	1:B:275:ALA:HB2	1.94	0.48
1:G:281:GLU:HG3	1:G:282:ALA:N	2.28	0.48
1:G:210:LEU:HB2	1:G:280:GLU:OE1	2.14	0.47
1:B:237:GLN:HB2	1:B:256:VAL:HG13	1.97	0.47
1:D:195:GLY:H	1:D:315:VAL:HG12	1.79	0.47
2:A:436:HOH:O	1:B:204:LYS:HE3	2.15	0.47
1:H:199:GLU:OE2	1:H:313:LEU:HD11	2.14	0.47
1:B:291:ASP:OD2	1:E:190:SER:HB2	2.15	0.46
1:D:202:ILE:HG22	1:D:228:VAL:HG11	1.96	0.46
1:D:309:LYS:HE2	2:D:422:HOH:O	2.15	0.46
1:H:231:GLY:O	1:H:233:LEU:HD22	2.16	0.46
1:F:304:THR:HA	1:F:308:LYS:O	2.17	0.45
1:A:265:LYS:CD	1:A:265:LYS:N	2.74	0.45
1:B:294:ALA:HA	1:B:304:THR:O	2.16	0.45
1:C:279:ALA:N	2:C:405:HOH:O	2.48	0.45
1:D:239:PHE:CD2	1:D:253:ILE:HG21	2.52	0.45
1:A:201:LYS:HG2	1:A:206:PRO:HA	2.00	0.44
1:D:266:LEU:HD11	1:D:308:LYS:HE2	1.99	0.44
1:C:294:ALA:HA	1:C:304:THR:O	2.16	0.44
1:B:306:LYS:HA	1:B:306:LYS:HD3	1.80	0.44
1:A:251:MET:HE3	1:A:253:ILE:CD1	2.45	0.44
1:C:259:THR:O	1:C:269:LYS:HE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:284:ILE:HG23	1:E:288:VAL:HB	2.00	0.43
1:A:265:LYS:HD3	1:A:265:LYS:N	2.21	0.43
1:H:199:GLU:HG3	1:H:313:LEU:CD1	2.49	0.43
1:B:299:GLU:HB2	1:E:293:ASN:HB3	2.00	0.43
1:G:294:ALA:HA	1:G:304:THR:O	2.19	0.43
1:H:312:LEU:O	1:H:314:PRO:HD3	2.19	0.42
1:H:194:LYS:NZ	1:H:301:ARG:HH22	2.17	0.42
1:D:294:ALA:HA	1:D:304:THR:O	2.20	0.42
1:C:265:LYS:HB2	1:C:265:LYS:NZ	2.34	0.42
1:B:296:LEU:HD12	1:B:296:LEU:HA	1.82	0.42
1:A:222:PRO:HD3	1:A:275:ALA:C	2.45	0.41
1:A:266:LEU:HD23	1:A:308:LYS:HG3	2.01	0.41
1:A:251:MET:HG3	1:A:253:ILE:HD11	2.02	0.41
1:C:299:GLU:HB2	1:D:293:ASN:HB3	2.03	0.41
1:H:294:ALA:HA	1:H:304:THR:O	2.20	0.41
1:B:301:ARG:HH11	1:B:314:PRO:HG2	1.86	0.41
1:D:197:TYR:CD1	1:D:208:ARG:HG3	2.56	0.41
1:F:266:LEU:CD1	1:F:308:LYS:HG2	2.51	0.40
1:B:201:LYS:HB2	1:B:262:SER:HB2	2.03	0.40
1:D:202:ILE:HG21	1:D:257:TRP:CH2	2.56	0.40
1:H:199:GLU:HG2	2:H:404:HOH:O	2.20	0.40

All (1) 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)
2:E:413:HOH:O	2:G:433:HOH:O[4_546]	2.02	0.18

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	113/137 (82%)	110 (97%)	3 (3%)	0	100	100
1	B	113/137 (82%)	110 (97%)	3 (3%)	0	100	100
1	C	113/137 (82%)	111 (98%)	2 (2%)	0	100	100
1	D	113/137 (82%)	113 (100%)	0	0	100	100
1	E	113/137 (82%)	113 (100%)	0	0	100	100
1	F	113/137 (82%)	113 (100%)	0	0	100	100
1	G	113/137 (82%)	111 (98%)	2 (2%)	0	100	100
1	H	107/137 (78%)	106 (99%)	1 (1%)	0	100	100
All	All	898/1096 (82%)	887 (99%)	11 (1%)	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	98/114 (86%)	96 (98%)	2 (2%)	48	63
1	B	98/114 (86%)	96 (98%)	2 (2%)	48	63
1	C	98/114 (86%)	94 (96%)	4 (4%)	27	36
1	D	97/114 (85%)	96 (99%)	1 (1%)	68	81
1	E	97/114 (85%)	97 (100%)	0	100	100
1	F	97/114 (85%)	96 (99%)	1 (1%)	68	81
1	G	97/114 (85%)	95 (98%)	2 (2%)	47	61
1	H	92/114 (81%)	89 (97%)	3 (3%)	33	44
All	All	774/912 (85%)	759 (98%)	15 (2%)	50	65

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	240	GLU
1	A	256	VAL

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Mol	Chain	Res	Type
1	B	278	SER
1	B	311	ARG
1	C	256	VAL
1	C	265	LYS
1	C	276	ASN
1	C	278	SER
1	D	256	VAL
1	F	256	VAL
1	G	256	VAL
1	G	319	LEU
1	H	256	VAL
1	H	296	LEU
1	H	308	LYS

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	216	GLN
1	C	216	GLN
1	C	223	ASN
1	D	292	HIS
1	E	293	ASN
1	G	276	ASN
1	H	290	GLN
1	H	292	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

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	117/137 (85%)	-0.19	1 (0%) 81 84	20, 31, 51, 69	0
1	B	117/137 (85%)	-0.08	5 (4%) 40 45	21, 32, 66, 76	0
1	C	117/137 (85%)	0.07	4 (3%) 48 55	21, 38, 64, 75	0
1	D	117/137 (85%)	0.22	9 (7%) 19 22	25, 39, 68, 93	0
1	E	117/137 (85%)	-0.01	4 (3%) 48 55	25, 34, 64, 82	0
1	F	117/137 (85%)	0.23	8 (6%) 23 26	24, 37, 73, 87	0
1	G	117/137 (85%)	0.09	3 (2%) 57 63	24, 37, 59, 82	0
1	H	111/137 (81%)	0.30	4 (3%) 46 52	27, 42, 74, 101	0
All	All	930/1096 (84%)	0.08	38 (4%) 41 47	20, 36, 67, 101	0

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	192	MET	4.2
1	D	277	ALA	4.0
1	H	277	ALA	3.6
1	C	242	VAL	3.6
1	G	319	LEU	3.3
1	F	319	LEU	3.3
1	B	277	ALA	3.3
1	E	281	GLU	3.1
1	F	277	ALA	3.1
1	F	315	VAL	3.1
1	G	192	MET	3.1
1	C	276	ASN	3.0
1	D	278	SER	2.9
1	B	243	VAL	2.8
1	F	279	ALA	2.7
1	D	197	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
1	H	239	PHE	2.7
1	B	278	SER	2.7
1	D	279	ALA	2.6
1	F	278	SER	2.6
1	A	281	GLU	2.6
1	D	253	ILE	2.6
1	E	253	ILE	2.6
1	H	306	LYS	2.6
1	H	276	ASN	2.5
1	C	243	VAL	2.5
1	E	277	ALA	2.5
1	G	279	ALA	2.4
1	C	193	GLY	2.4
1	E	279	ALA	2.3
1	B	276	ASN	2.3
1	F	276	ASN	2.2
1	B	239	PHE	2.2
1	F	190	SER	2.2
1	D	191	SER	2.0
1	D	276	ASN	2.0
1	D	280	GLU	2.0
1	D	281	GLU	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.