



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 01:06 PM UTC

PDB ID : 6E8F / pdb_00006e8f
Title : Crystal Structure of Human Protocadherin-15 EC3-5 CD2-1
Authors : Choudhary, D.; Tamilselvan, E.; Sotomayor, M.
Deposited on : 2018-07-29
Resolution : 2.99 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

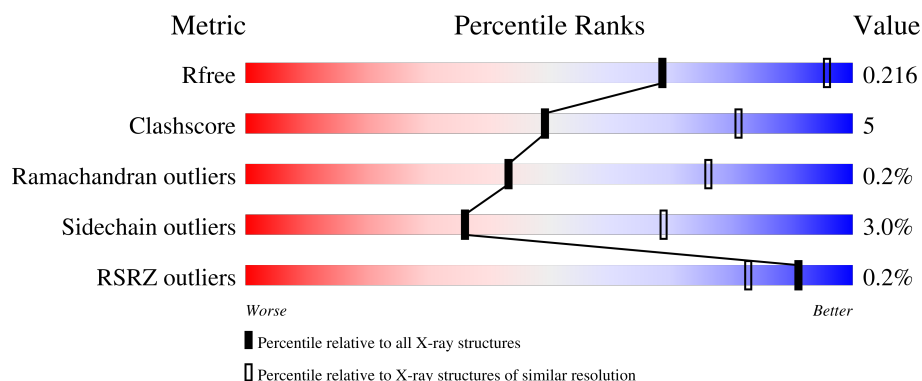
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

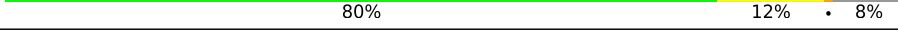
The reported resolution of this entry is 2.99 Å.

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	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)

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	362	 81% 13% • 5%
1	B	362	 80% 15% • 5%
1	C	362	 80% 12% • 8%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7988 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 Protocadherin-15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	343	Total	C	N	O	S	0	0	0
			2678	1710	430	529	9			
1	C	333	Total	C	N	O	S	0	0	0
			2594	1650	424	512	8			
1	B	345	Total	C	N	O	S	0	0	0
			2694	1720	432	533	9			

There are 27 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	241	MET	-	initiating methionine	UNP Q96QU1
A	595	LEU	-	expression tag	UNP Q96QU1
A	596	GLU	-	expression tag	UNP Q96QU1
A	597	HIS	-	expression tag	UNP Q96QU1
A	598	HIS	-	expression tag	UNP Q96QU1
A	599	HIS	-	expression tag	UNP Q96QU1
A	600	HIS	-	expression tag	UNP Q96QU1
A	601	HIS	-	expression tag	UNP Q96QU1
A	602	HIS	-	expression tag	UNP Q96QU1
C	241	MET	-	initiating methionine	UNP Q96QU1
C	595	LEU	-	expression tag	UNP Q96QU1
C	596	GLU	-	expression tag	UNP Q96QU1
C	597	HIS	-	expression tag	UNP Q96QU1
C	598	HIS	-	expression tag	UNP Q96QU1
C	599	HIS	-	expression tag	UNP Q96QU1
C	600	HIS	-	expression tag	UNP Q96QU1
C	601	HIS	-	expression tag	UNP Q96QU1
C	602	HIS	-	expression tag	UNP Q96QU1
B	241	MET	-	initiating methionine	UNP Q96QU1
B	595	LEU	-	expression tag	UNP Q96QU1
B	596	GLU	-	expression tag	UNP Q96QU1
B	597	HIS	-	expression tag	UNP Q96QU1
B	598	HIS	-	expression tag	UNP Q96QU1

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
B	599	HIS	-	expression tag	UNP Q96QU1
B	600	HIS	-	expression tag	UNP Q96QU1
B	601	HIS	-	expression tag	UNP Q96QU1
B	602	HIS	-	expression tag	UNP Q96QU1

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	4	Total Ca 4 4	0	0
2	C	4	Total Ca 4 4	0	0
2	B	5	Total Ca 5 5	0	0

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Na 1 1	0	0

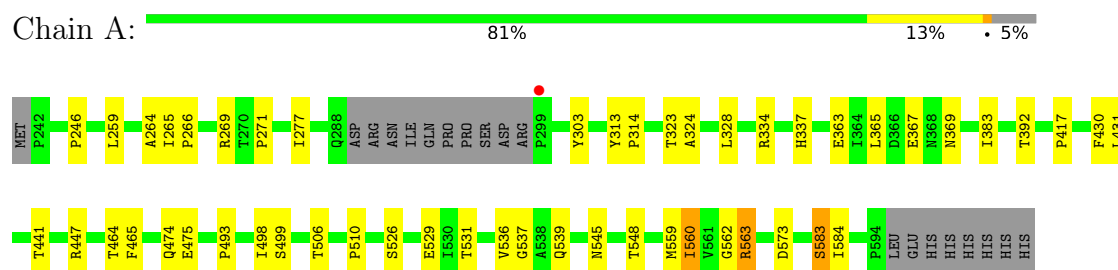
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	3	Total O 3 3	0	0
4	C	3	Total O 3 3	0	0
4	B	2	Total O 2 2	0	0

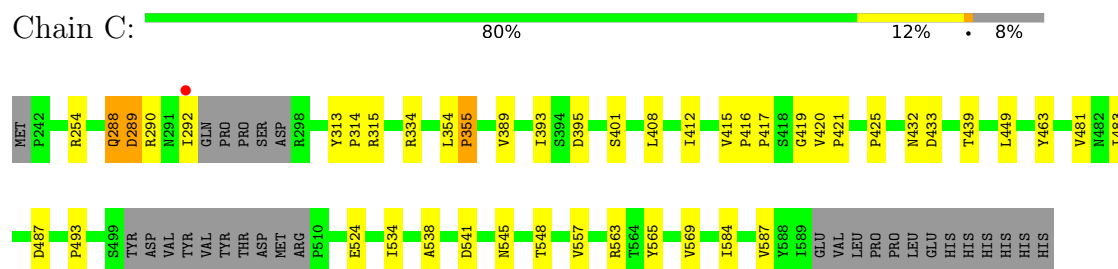
3 Residue-property plots

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.

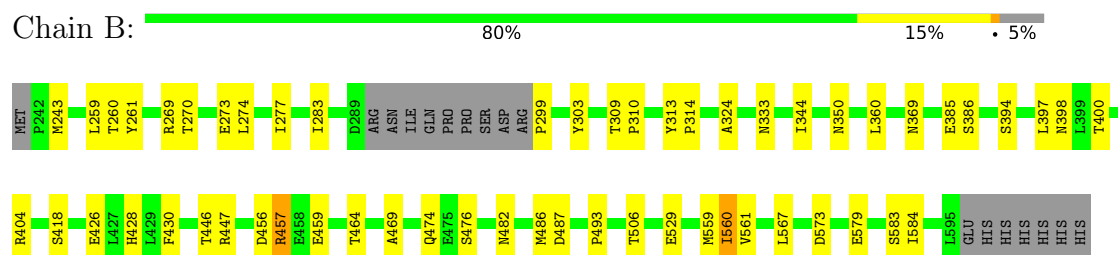
• Molecule 1: Protocadherin-15



• Molecule 1: Protocadherin-15



• Molecule 1: Protocadherin-15



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	95.73Å 95.91Å 258.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.95 – 2.99 47.95 – 2.99	Depositor EDS
% Data completeness (in resolution range)	98.3 (47.95-2.99) 98.4 (47.95-2.99)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.27 (at 3.01Å)	Xtriage
Refinement program	REFMAC 5.8.0230	Depositor
R, R_{free}	0.174 , 0.214 0.174 , 0.216	Depositor DCC
R_{free} test set	2321 reflections (4.73%)	wwPDB-VP
Wilson B-factor (Å ²)	75.3	Xtriage
Anisotropy	0.555	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 35.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	0.199 for k,h,-l	Xtriage
Reported twinning fraction	0.768 for H, K, L 0.232 for -K, -H, -L	Depositor
Outliers	0 of 48290 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7988	wwPDB-VP
Average B, all atoms (Å ²)	89.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.93% 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, CA

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	0.75	0/2744	0.96	1/3765 (0.0%)
1	B	0.74	0/2760	0.97	1/3787 (0.0%)
1	C	0.68	0/2654	0.94	1/3636 (0.0%)
All	All	0.73	0/8158	0.96	3/11188 (0.0%)

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	A	0	3
1	B	0	3
1	C	0	3
All	All	0	9

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	385	GLU	CB-CA-C	-7.94	97.55	110.74
1	C	355	PRO	CB-CA-C	-5.46	104.08	111.12
1	A	430	PHE	CB-CA-C	5.23	119.70	109.35

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	447	ARG	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	A	562	GLY	Peptide
1	A	563	ARG	Sidechain
1	B	418	SER	Peptide
1	B	447	ARG	Sidechain
1	B	457	ARG	Sidechain
1	C	254	ARG	Sidechain
1	C	315	ARG	Sidechain
1	C	334	ARG	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	2678	0	2623	30	0
1	B	2694	0	2638	29	0
1	C	2594	0	2547	27	0
2	A	4	0	0	0	0
2	B	5	0	0	0	0
2	C	4	0	0	0	0
3	A	1	0	0	0	0
4	A	3	0	0	0	0
4	B	2	0	0	0	0
4	C	3	0	0	0	0
All	All	7988	0	7808	85	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 5.

All (85) 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:493:PRO:O	1:B:583:SER:HB3	1.75	0.86
1:B:269:ARG:NH1	1:B:273:GLU:OE2	2.27	0.67
1:B:529:GLU:O	1:B:573:ASP:HA	2.01	0.61
1:C:420:VAL:N	1:C:421:PRO:HD3	2.16	0.60
1:C:395:ASP:OD1	1:C:401:SER:OG	2.18	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:289:ASP:O	1:C:290:ARG:NH2	2.34	0.59
1:A:265:ILE:HD11	1:A:277:ILE:HD13	1.84	0.59
1:B:303:TYR:CG	1:B:324:ALA:HB2	2.38	0.58
1:A:313:TYR:CG	1:A:314:PRO:HD3	2.39	0.58
1:C:408:LEU:CD1	1:C:415:VAL:HG11	2.34	0.57
1:C:412:ILE:HD13	1:C:425:PRO:HA	1.86	0.57
1:C:288:GLN:N	1:C:288:GLN:CD	2.63	0.55
1:A:545:ASN:HB3	1:A:548:THR:HB	1.89	0.54
1:C:354:LEU:N	1:C:355:PRO:HD3	2.22	0.54
1:B:303:TYR:CD2	1:B:324:ALA:HB2	2.44	0.53
1:A:493:PRO:O	1:A:583:SER:HB3	2.08	0.53
1:C:587:VAL:O	1:C:587:VAL:HG12	2.08	0.52
1:B:313:TYR:N	1:B:314:PRO:CD	2.73	0.52
1:A:264:ALA:HB1	1:A:365:LEU:HD11	1.91	0.52
1:A:323:THR:O	1:A:324:ALA:HB3	2.09	0.52
1:B:309:THR:HA	1:B:310:PRO:C	2.34	0.52
1:A:529:GLU:O	1:A:573:ASP:HA	2.09	0.51
1:B:269:ARG:HB2	1:B:274:LEU:HD11	1.93	0.51
1:B:313:TYR:CG	1:B:314:PRO:HD3	2.46	0.51
1:A:526:SER:HA	1:A:529:GLU:HB2	1.91	0.51
1:C:408:LEU:HD13	1:C:415:VAL:HG11	1.93	0.51
1:A:303:TYR:CG	1:A:324:ALA:HB2	2.46	0.51
1:A:303:TYR:CD2	1:A:324:ALA:HB2	2.46	0.50
1:C:487:ASP:OD2	1:C:524:GLU:N	2.44	0.50
1:B:369:ASN:C	1:B:474:GLN:HE22	2.21	0.49
1:B:398:ASN:O	1:B:400:THR:HG23	2.13	0.48
1:B:456:ASP:OD2	1:B:459:GLU:HG2	2.13	0.47
1:A:246:PRO:O	1:A:259:LEU:CD1	2.62	0.47
1:A:313:TYR:CD2	1:A:314:PRO:HD3	2.49	0.47
1:B:464:THR:HG23	1:B:482:ASN:ND2	2.30	0.46
1:B:457:ARG:HD3	1:B:487:ASP:HB2	1.97	0.46
1:B:299:PRO:HB3	1:B:350:ASN:HD22	1.80	0.46
1:C:288:GLN:N	1:C:288:GLN:NE2	2.64	0.46
1:C:419:GLY:C	1:C:421:PRO:HD3	2.41	0.46
1:B:333:ASN:OD1	1:B:333:ASN:C	2.59	0.45
1:C:545:ASN:OD1	1:C:548:THR:HB	2.17	0.45
1:A:313:TYR:N	1:A:314:PRO:CD	2.80	0.45
1:A:334:ARG:HA	1:A:337:HIS:O	2.17	0.45
1:B:259:LEU:HD11	1:B:261:TYR:CE2	2.51	0.45
1:B:567:LEU:HD12	1:B:567:LEU:N	2.32	0.44
1:B:270:THR:OG1	1:B:273:GLU:HG3	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:ALA:HA	1:A:363:GLU:O	2.17	0.44
1:C:289:ASP:OD1	1:C:289:ASP:N	2.49	0.44
1:A:265:ILE:HG22	1:A:266:PRO:O	2.17	0.44
1:A:475:GLU:OE2	1:B:430:PHE:CD1	2.71	0.44
1:B:559:MET:HA	1:B:559:MET:HE2	1.99	0.44
1:B:560:ILE:HD13	1:B:560:ILE:N	2.33	0.44
1:A:539:GLN:NE2	1:A:563:ARG:HH22	2.15	0.43
1:C:569:VAL:O	1:C:584:ILE:HA	2.18	0.43
1:B:277:ILE:HD12	1:B:277:ILE:N	2.34	0.43
1:A:271:PRO:HB3	1:A:328:LEU:O	2.18	0.43
1:C:534:ILE:HG21	1:C:538:ALA:HB2	2.01	0.43
1:B:469:ALA:HB3	1:B:476:SER:HB3	1.99	0.43
1:A:431:LEU:HD13	1:A:465:PHE:CE2	2.54	0.43
1:C:289:ASP:O	1:C:290:ARG:HD3	2.19	0.43
1:A:269:ARG:HH21	1:A:367:GLU:CD	2.26	0.43
1:B:397:LEU:O	1:B:486:MET:HE1	2.19	0.43
1:A:536:VAL:HG22	1:A:537:GLY:N	2.34	0.42
1:C:288:GLN:CD	1:C:288:GLN:H	2.28	0.42
1:C:545:ASN:ND2	1:C:548:THR:HB	2.35	0.42
1:B:404:ARG:HG2	1:B:446:THR:HG21	2.01	0.42
1:A:369:ASN:C	1:A:474:GLN:HE22	2.27	0.42
1:A:506:THR:HA	1:A:559:MET:HB2	2.02	0.42
1:C:313:TYR:N	1:C:314:PRO:HD2	2.35	0.42
1:C:432:ASN:OD1	1:C:433:ASP:N	2.53	0.42
1:C:563:ARG:NH2	1:C:565:TYR:OH	2.53	0.42
1:C:545:ASN:HD21	1:C:548:THR:HB	1.84	0.41
1:C:541:ASP:HA	1:C:557:VAL:HG11	2.01	0.41
1:A:539:GLN:CD	1:A:563:ARG:HH22	2.28	0.41
1:B:506:THR:CG2	1:B:561:VAL:HG13	2.50	0.41
1:C:416:PRO:CB	1:C:417:PRO:HD2	2.51	0.41
1:C:393:ILE:HG12	1:C:449:LEU:O	2.20	0.41
1:B:344:ILE:HD11	1:B:360:LEU:HD23	2.03	0.40
1:A:313:TYR:CE1	1:A:314:PRO:HG3	2.56	0.40
1:A:264:ALA:C	1:A:265:ILE:HG13	2.46	0.40
1:B:369:ASN:C	1:B:474:GLN:NE2	2.78	0.40
1:A:265:ILE:HA	1:A:266:PRO:HD2	1.95	0.40
1:A:545:ASN:CB	1:A:548:THR:HB	2.50	0.40
1:A:560:ILE:HD13	1:A:560:ILE:N	2.37	0.40
1:C:463:TYR:HB2	1:C:483:ILE:HB	2.03	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	339/362 (94%)	317 (94%)	21 (6%)	1 (0%)	36	70
1	B	341/362 (94%)	326 (96%)	15 (4%)	0	100	100
1	C	327/362 (90%)	306 (94%)	20 (6%)	1 (0%)	36	70
All	All	1007/1086 (93%)	949 (94%)	56 (6%)	2 (0%)	43	76

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	417	PRO
1	C	493	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	A	305/324 (94%)	294 (96%)	11 (4%)	31	65
1	B	307/324 (95%)	297 (97%)	10 (3%)	33	67
1	C	295/324 (91%)	289 (98%)	6 (2%)	48	76
All	All	907/972 (93%)	880 (97%)	27 (3%)	36	69

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	383	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	392	THR
1	A	441	THR
1	A	464	THR
1	A	498	ILE
1	A	499	SER
1	A	510	PRO
1	A	531	THR
1	A	560	ILE
1	A	583	SER
1	A	584	ILE
1	C	288	GLN
1	C	289	ASP
1	C	292	ILE
1	C	389	VAL
1	C	439	THR
1	C	481	VAL
1	B	243	MET
1	B	260	THR
1	B	283	ILE
1	B	386	SER
1	B	394	SER
1	B	426	GLU
1	B	428	HIS
1	B	560	ILE
1	B	579	GLU
1	B	584	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	380	GLN
1	A	482	ASN
1	A	484	GLN
1	C	348	GLN
1	C	370	GLN
1	C	474	GLN
1	C	491	ASN
1	B	252	ASN
1	B	338	GLN
1	B	370	GLN
1	B	474	GLN
1	B	482	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 [i](#)

Of 14 ligands modelled in this entry, 14 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 [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(Å ²)	Q<0.9
1	A	343/362 (94%)	-1.52	1 (0%) 90 79	53, 78, 124, 164	0
1	B	345/362 (95%)	-1.44	0 100 100	49, 77, 128, 168	0
1	C	333/362 (91%)	-1.38	1 (0%) 90 79	55, 104, 149, 173	0
All	All	1021/1086 (94%)	-1.44	2 (0%) 91 83	49, 83, 138, 173	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	292	ILE	3.8
1	A	299	PRO	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](#)

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(Å ²)	Q<0.9
2	CA	A	701	1/1	1.00	0.01	76,76,76,76	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	A	702	1/1	1.00	0.00	58,58,58,58	0
2	CA	A	703	1/1	1.00	0.03	77,77,77,77	0
2	CA	A	704	1/1	1.00	0.01	64,64,64,64	0
2	CA	C	701	1/1	1.00	0.01	89,89,89,89	0
2	CA	C	702	1/1	1.00	0.01	107,107,107,107	0
2	CA	C	703	1/1	1.00	0.01	115,115,115,115	0
2	CA	C	704	1/1	1.00	0.01	116,116,116,116	0
2	CA	B	701	1/1	1.00	0.03	69,69,69,69	0
2	CA	B	702	1/1	1.00	0.01	68,68,68,68	0
2	CA	B	703	1/1	1.00	0.02	95,95,95,95	0
2	CA	B	704	1/1	1.00	0.01	70,70,70,70	0
2	CA	B	705	1/1	1.00	0.03	103,103,103,103	0
3	NA	A	705	1/1	1.00	0.02	75,75,75,75	0

6.5 Other polymers [i](#)

There are no such residues in this entry.