



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 07:36 PM EDT

PDB ID : 6ZTR / pdb_00006ztr
Title : Crystal Structure of the anti-human P-Cadherin Fab CQY684 in complex with human P-Cadherin(108-324)
Authors : Rondeau, J.M.; Lehmann, S.
Deposited on : 2020-07-20
Resolution : 2.10 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

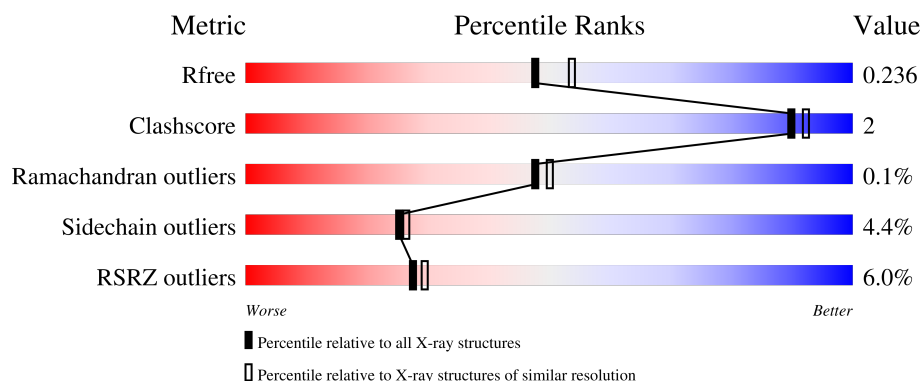
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	244	2% 87% 7% 6%
1	H	244	% 87% 7% 6%
2	B	213	86% 12% .
2	L	213	2% 87% 11% .
3	I	219	10% 89% 9% .

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Mol	Chain	Length	Quality of chain
3	J	219	 A horizontal bar chart showing the quality of chain J. The bar is divided into three segments: a red segment on the left labeled '20%', a green segment in the middle labeled '87%', and a yellow segment on the right labeled '11%'. A small grey dot is visible at the end of the bar.

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 10618 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 CQY684 Fab heavy-chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1737	1096	293	344	4			
1	H	229	Total	C	N	O	S	0	0	0
			1737	1096	293	344	4			

- Molecule 2 is a protein called CQY684 Fab light-chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	210	Total	C	N	O	S	0	0	0
			1619	1016	271	327	5			
2	L	210	Total	C	N	O	S	0	0	0
			1619	1016	271	327	5			

- Molecule 3 is a protein called Cadherin-3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	I	214	Total	C	N	O	S	0	0	0
			1643	1031	271	337	4			
3	J	213	Total	C	N	O	S	0	0	0
			1635	1027	269	335	4			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I	106	GLY	-	expression tag	UNP P22223
I	107	PRO	-	expression tag	UNP P22223
J	106	GLY	-	expression tag	UNP P22223
J	107	PRO	-	expression tag	UNP P22223

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	I	3	Total 3	Ca 3	0	0
4	J	3	Total 3	Ca 3	0	0

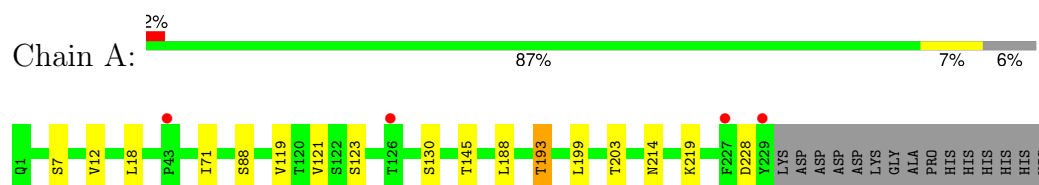
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	127	Total 127	O 127	0	0
5	B	95	Total 95	O 95	0	0
5	H	137	Total 137	O 137	0	0
5	I	91	Total 91	O 91	0	0
5	J	82	Total 82	O 82	0	0
5	L	90	Total 90	O 90	0	0

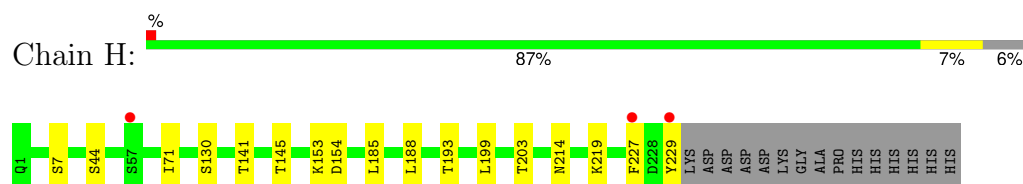
3 Residue-property plots [i](#)

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.

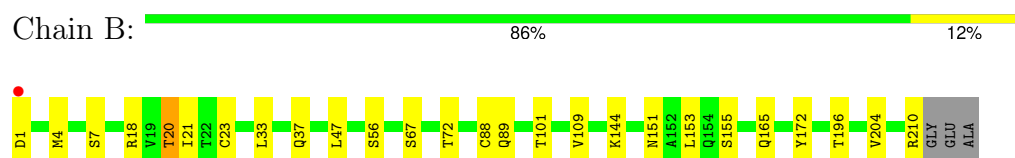
- Molecule 1: CQY684 Fab heavy-chain



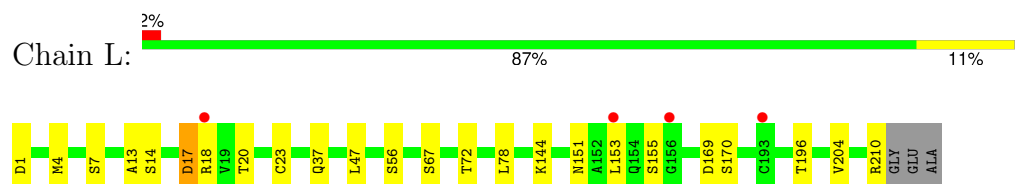
- Molecule 1: CQY684 Fab heavy-chain



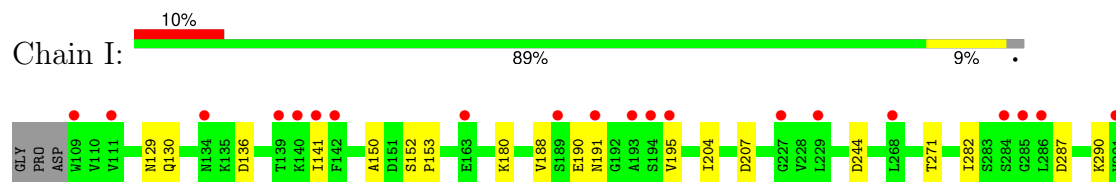
- Molecule 2: CQY684 Fab light-chain

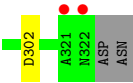


- Molecule 2: CQY684 Fab light-chain

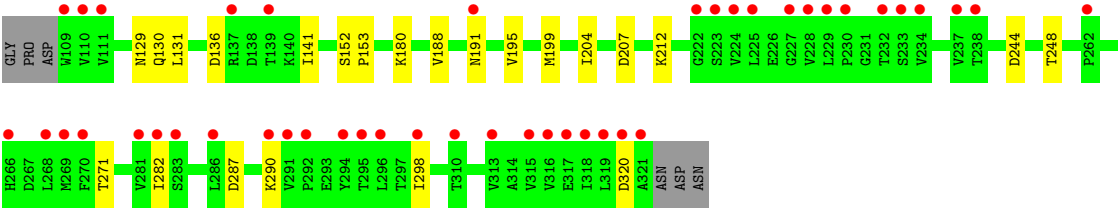
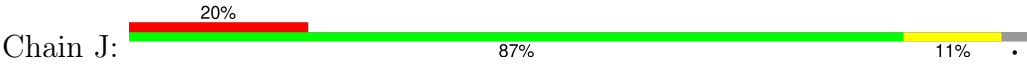


- Molecule 3: Cadherin-3





● Molecule 3: Cadherin-3



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	172.69Å 77.80Å 133.41Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	72.49 – 2.10 72.49 – 2.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (72.49-2.10) 99.9 (72.49-2.10)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.26 (at 2.10Å)	Xtriage
Refinement program	BUSTER	Depositor
R, R_{free}	0.192 , 0.221 0.205 , 0.236	Depositor DCC
R_{free} test set	5273 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	36.5	Xtriage
Anisotropy	0.580	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 45.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10618	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.27% 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: 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	0.79	0/1781	1.12	4/2430 (0.2%)
1	H	0.80	0/1781	1.13	4/2430 (0.2%)
2	B	0.84	0/1654	1.12	3/2247 (0.1%)
2	L	0.81	0/1654	1.12	3/2247 (0.1%)
3	I	0.86	1/1678 (0.1%)	1.15	5/2288 (0.2%)
3	J	0.83	0/1670	1.18	4/2277 (0.2%)
All	All	0.82	1/10218 (0.0%)	1.14	23/13919 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	150	ALA	CA-C	6.29	1.56	1.52

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	244	ASP	CA-CB-CG	7.43	120.03	112.60
2	L	1	ASP	CA-CB-CG	7.35	119.95	112.60
3	I	153	PRO	N-CA-C	7.06	119.31	110.70
3	J	153	PRO	N-CA-C	6.83	119.03	110.70
2	B	1	ASP	CA-CB-CG	6.57	119.17	112.60
3	I	136	ASP	CA-CB-CG	6.45	119.05	112.60
3	J	136	ASP	CA-CB-CG	6.39	118.99	112.60
1	H	193	THR	CB-CA-C	6.21	120.25	110.19
1	A	71	ILE	N-CA-C	6.13	118.48	108.97
1	A	193	THR	CB-CA-C	5.85	119.67	110.19
1	A	130	SER	N-CA-C	-5.71	100.39	109.76
1	A	199	LEU	N-CA-C	5.65	118.20	111.71
1	H	130	SER	N-CA-C	-5.63	100.52	109.76
3	I	302	ASP	CA-CB-CG	5.62	118.22	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	199	LEU	N-CA-C	5.61	118.16	111.71
3	I	244	ASP	CA-CB-CG	5.57	118.17	112.60
2	L	169	ASP	CA-CB-CG	5.57	118.17	112.60
1	H	71	ILE	N-CA-C	5.49	117.47	108.97
3	J	207	ASP	N-CA-C	5.31	118.34	110.48
2	L	17	ASP	CA-CB-CG	5.24	117.84	112.60
2	B	20	THR	CA-C-N	5.04	129.60	123.10
2	B	20	THR	C-N-CA	5.04	129.60	123.10
3	I	207	ASP	N-CA-C	5.01	117.89	110.48

There are no chirality outliers.

There are no planarity outliers.

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	1737	0	1698	4	0
1	H	1737	0	1698	2	0
2	B	1619	0	1579	13	0
2	L	1619	0	1579	12	0
3	I	1643	0	1592	4	0
3	J	1635	0	1586	6	0
4	I	3	0	0	0	0
4	J	3	0	0	0	0
5	A	127	0	0	1	0
5	B	95	0	0	1	0
5	H	137	0	0	0	0
5	I	91	0	0	0	0
5	J	82	0	0	1	0
5	L	90	0	0	0	0
All	All	10618	0	9732	36	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 2.

All (36) 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:B:18:ARG:HB2	2:L:18:ARG:NH1	1.86	0.90
3:J:131:LEU:HD22	3:J:199:MET:HE1	1.75	0.69
2:B:18:ARG:HD2	2:L:18:ARG:HH12	1.58	0.67
2:B:18:ARG:HB2	2:L:18:ARG:CZ	2.28	0.62
1:A:193:THR:HG23	5:A:301:HOH:O	1.99	0.62
2:B:21:ILE:HD12	2:B:101:THR:HG21	1.81	0.62
2:B:18:ARG:CB	2:L:18:ARG:NH1	2.65	0.55
2:L:20:THR:HG23	2:L:72:THR:HG23	1.90	0.54
2:B:18:ARG:HB2	2:L:18:ARG:HH12	1.71	0.53
2:B:20:THR:HG23	2:B:72:THR:HG23	1.92	0.52
2:B:165:GLN:HG3	2:B:172:TYR:CZ	2.45	0.51
2:L:144:LYS:HB3	2:L:196:THR:HB	1.95	0.49
3:I:180:LYS:HG3	3:I:204:ILE:HD13	1.94	0.48
2:L:14:SER:O	2:L:17:ASP:HB2	2.14	0.48
3:J:180:LYS:HG3	3:J:204:ILE:HD13	1.95	0.48
2:B:4:MET:HE3	2:B:23:CYS:SG	2.54	0.47
3:J:141:ILE:HD12	3:J:195:VAL:HG21	1.96	0.47
2:B:144:LYS:HB3	2:B:196:THR:HB	1.97	0.46
2:L:4:MET:HE3	2:L:23:CYS:SG	2.57	0.45
2:B:20:THR:HG23	2:B:72:THR:CG2	2.47	0.44
1:H:154:ASP:HB3	1:H:185:LEU:HD13	2.00	0.43
2:L:37:GLN:HB2	2:L:47:LEU:HD11	1.99	0.43
3:J:129:ASN:HD22	3:J:130:GLN:H	1.66	0.43
3:I:141:ILE:HD12	3:I:195:VAL:HG21	1.99	0.43
3:I:287:ASP:HB3	3:I:290:LYS:HB2	2.01	0.43
2:L:20:THR:HG23	2:L:72:THR:CG2	2.47	0.43
3:J:212:LYS:NZ	5:J:501:HOH:O	2.48	0.42
3:J:287:ASP:HB3	3:J:290:LYS:HB2	2.01	0.42
2:B:37:GLN:HB2	2:B:47:LEU:HD11	2.01	0.42
3:I:129:ASN:HD22	3:I:130:GLN:H	1.68	0.42
1:A:18:LEU:HD12	1:A:119:VAL:HG11	2.01	0.42
1:H:227:PHE:HB2	1:H:229:TYR:CE2	2.56	0.41
1:A:193:THR:HG21	5:B:364:HOH:O	2.21	0.41
2:L:13:ALA:HB3	2:L:78:LEU:HD22	2.03	0.40
2:B:33:LEU:HD11	2:B:88:CYS:HB2	2.03	0.40
1:A:12:VAL:O	1:A:121:VAL:HA	2.22	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	227/244 (93%)	218 (96%)	8 (4%)	1 (0%)	30	28
1	H	227/244 (93%)	221 (97%)	6 (3%)	0	100	100
2	B	208/213 (98%)	200 (96%)	8 (4%)	0	100	100
2	L	208/213 (98%)	201 (97%)	7 (3%)	0	100	100
3	I	212/219 (97%)	201 (95%)	11 (5%)	0	100	100
3	J	211/219 (96%)	202 (96%)	9 (4%)	0	100	100
All	All	1293/1352 (96%)	1243 (96%)	49 (4%)	1 (0%)	48	50

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	228	ASP

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	197/210 (94%)	189 (96%)	8 (4%)	27	29
1	H	197/210 (94%)	188 (95%)	9 (5%)	24	25
2	B	185/186 (100%)	175 (95%)	10 (5%)	20	18
2	L	185/186 (100%)	176 (95%)	9 (5%)	22	22
3	I	185/189 (98%)	179 (97%)	6 (3%)	34	38
3	J	184/189 (97%)	176 (96%)	8 (4%)	26	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	1133/1170 (97%)	1083 (96%)	50 (4%)	25	26

All (50) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	SER
1	A	88	SER
1	A	123	SER
1	A	145	THR
1	A	188	LEU
1	A	203	THR
1	A	214	ASN
1	A	219	LYS
2	B	7	SER
2	B	56	SER
2	B	67	SER
2	B	89	GLN
2	B	109	VAL
2	B	151	ASN
2	B	153	LEU
2	B	155	SER
2	B	204	VAL
2	B	210	ARG
1	H	7	SER
1	H	44	SER
1	H	141	THR
1	H	145	THR
1	H	153	LYS
1	H	188	LEU
1	H	203	THR
1	H	214	ASN
1	H	219	LYS
3	I	152	SER
3	I	188	VAL
3	I	190	GLU
3	I	191	ASN
3	I	271	THR
3	I	282	ILE
3	J	152	SER
3	J	188	VAL
3	J	191	ASN
3	J	248	THR

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Mol	Chain	Res	Type
3	J	271	THR
3	J	282	ILE
3	J	298	ILE
3	J	320	ASP
2	L	7	SER
2	L	56	SER
2	L	67	SER
2	L	151	ASN
2	L	153	LEU
2	L	155	SER
2	L	170	SER
2	L	204	VAL
2	L	210	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	GLN
1	A	32	GLN
1	A	81	GLN
1	A	85	GLN
1	A	209	ASN
2	B	53	ASN
2	B	89	GLN
2	B	159	GLN
1	H	3	GLN
1	H	32	GLN
1	H	81	GLN
1	H	87	ASN
1	H	174	HIS
1	H	209	ASN
3	I	126	GLN
3	I	129	ASN
3	I	236	GLN
3	I	322	ASN
3	J	129	ASN
2	L	136	ASN
2	L	159	GLN

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 6 ligands modelled in this entry, 6 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

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	229/244 (93%)	0.06	4 (1%) 69 71	31, 45, 65, 89	0
1	H	229/244 (93%)	0.05	3 (1%) 75 77	28, 44, 67, 96	0
2	B	210/213 (98%)	0.12	1 (0%) 87 88	28, 45, 68, 85	0
2	L	210/213 (98%)	0.17	4 (1%) 66 69	26, 49, 76, 92	0
3	I	214/219 (97%)	0.66	22 (10%) 12 12	28, 53, 109, 139	0
3	J	213/219 (97%)	0.93	44 (20%) 2 3	27, 54, 133, 177	0
All	All	1305/1352 (96%)	0.33	78 (5%) 27 29	26, 47, 99, 177	0

All (78) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	229	TYR	6.7
3	J	321	ALA	6.6
3	J	225	LEU	6.0
3	J	319	LEU	5.2
3	J	224	VAL	5.1
1	A	229	TYR	4.9
1	A	227	PHE	4.6
3	I	139	THR	4.4
3	J	229	LEU	4.2
3	I	227	GLY	4.1
3	J	318	ILE	4.1
3	J	286	LEU	3.9
3	J	316	VAL	3.9
3	J	228	VAL	3.6
3	J	110	VAL	3.5
3	I	193	ALA	3.5
3	J	291	VAL	3.5
3	I	140	LYS	3.5
3	I	291	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
3	J	315	VAL	3.4
3	I	109	TRP	3.4
3	I	191	ASN	3.4
3	J	292	PRO	3.4
3	J	294	TYR	3.3
1	H	57	SER	3.3
3	I	286	LEU	3.2
3	I	322	ASN	3.2
3	J	282	ILE	3.2
2	L	18	ARG	3.2
3	I	229	LEU	3.1
3	J	234	VAL	3.1
3	J	281	VAL	3.1
3	J	227	GLY	3.0
3	J	262	PRO	3.0
3	J	109	TRP	3.0
3	I	321	ALA	3.0
2	L	193	CYS	2.9
3	J	230	PRO	2.9
3	J	233	SER	2.9
3	J	232	THR	2.8
3	I	268	LEU	2.8
3	I	195	VAL	2.7
3	J	238	THR	2.7
3	J	223	SER	2.7
3	J	268	LEU	2.7
3	J	111	VAL	2.7
3	J	317	GLU	2.6
3	J	139	THR	2.6
1	H	227	PHE	2.6
3	J	270	PHE	2.6
3	I	141	ILE	2.6
3	J	310	THR	2.6
3	J	295	THR	2.5
2	L	156	GLY	2.5
2	B	1	ASP	2.4
3	J	283	SER	2.4
3	J	269	MET	2.4
3	J	290	LYS	2.4
3	J	266	HIS	2.4
2	L	153	LEU	2.4
3	I	111	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
3	J	137	ARG	2.3
3	J	222	GLY	2.3
3	J	320	ASP	2.3
3	J	313	VAL	2.3
3	I	284	SER	2.2
3	J	298	ILE	2.2
1	A	43	PRO	2.2
1	A	126	THR	2.2
3	J	296	LEU	2.2
3	I	142	PHE	2.1
3	I	163	GLU	2.1
3	I	285	GLY	2.1
3	J	191	ASN	2.1
3	I	134	ASN	2.1
3	J	237	VAL	2.1
3	I	189	SER	2.1
3	I	194	SER	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 ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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
4	CA	I	402	1/1	0.99	0.02	30,30,30,30	0
4	CA	I	403	1/1	0.99	0.03	32,32,32,32	0
4	CA	J	402	1/1	0.99	0.02	34,34,34,34	0
4	CA	J	403	1/1	0.99	0.02	35,35,35,35	0
4	CA	I	401	1/1	1.00	0.02	32,32,32,32	0
4	CA	J	401	1/1	1.00	0.01	33,33,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.