W O R L D W I D E
wwPDB
PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report (i)

Oct 9, 2023 – 10:15 AM EDT

PDB ID	:	7KF1
Title	:	Crystal structure of bH1 Fab variant (CDR H3 loop design 14_0130) in complex with VEGF
Authors	:	Shi, R.; Picard, M.-E.; Manenda, M.S.
Deposited on	:	2020-10-13
Resolution	:	2.45 Å(reported)

The following versions of software and data (see references (i)) were used in the production of this report:

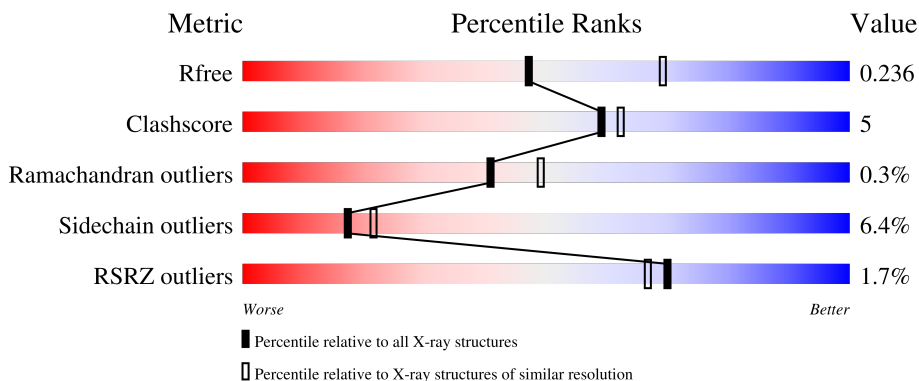|		
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 2.45 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	Percentile Ranks	Value
Rfree		0.236
Clashscore		5
Ramachandran outliers		0.3%
Sidechain outliers		6.4%
RSRZ outliers		1.7%

Worse   *Better*

■ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R$_{free}$	130704	1544 (2.48-2.44)
Clashscore	141614	1613 (2.48-2.44)
Ramachandran outliers	138981	1598 (2.48-2.44)
Sidechain outliers	138945	1598 (2.48-2.44)
RSRZ outliers	127900	1523 (2.48-2.44)

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 <=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	237	81% 9% 9%
1	D	237	79% 11% · 9%
1	G	237	77% 11% · 8%
1	H	237	80% 13% · 5%
2	B	218	86% 12% ··

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Mol	Chain	Length	Quality of chain
2	E	218	86% 12% ·
2	I	218	87% 11% ·
2	L	218	88% 11% ·
3	C	116	7% 65% 16% · 19%
3	F	116	% 74% 7% · 18%
3	J	116	4% 71% 10% 19%
3	V	116	2% 66% 15% · 18%

2 Entry composition ⓘ

There are 5 unique types of molecules in this entry. The entry contains 17155 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 anti-VEGF-A Fab bH1 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	225	Total 1684	C 1066	N 281	O 330	S 7	0	0	0
1	A	215	Total 1615	C 1028	N 269	O 312	S 6	0	0	0
1	D	216	Total 1626	C 1035	N 271	O 314	S 6	0	0	0
1	G	217	Total 1632	C 1038	N 272	O 316	S 6	0	0	0

- Molecule 2 is a protein called anti-VEGF-A Fab bH1 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	217	Total 1679	C 1056	N 280	O 338	S 5	0	0	0
2	B	216	Total 1670	C 1051	N 279	O 335	S 5	0	0	0
2	E	217	Total 1679	C 1056	N 280	O 338	S 5	0	0	0
2	I	217	Total 1685	C 1060	N 280	O 340	S 5	0	1	0

- Molecule 3 is a protein called Isoform L-VEGF206 of Vascular endothelial growth factor A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	V	95	Total 770	C 483	N 129	O 145	S 13	0	0	0
3	C	94	Total 761	C 478	N 128	O 142	S 13	0	0	0
3	F	95	Total 770	C 483	N 129	O 145	S 13	0	0	0
3	J	94	Total 761	C 478	N 128	O 142	S 13	0	0	0

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
V	111	HIS	-	expression tag	UNP P15692-14
V	112	HIS	-	expression tag	UNP P15692-14
V	113	HIS	-	expression tag	UNP P15692-14
V	114	HIS	-	expression tag	UNP P15692-14
V	115	HIS	-	expression tag	UNP P15692-14
V	116	HIS	-	expression tag	UNP P15692-14
C	111	HIS	-	expression tag	UNP P15692-14
C	112	HIS	-	expression tag	UNP P15692-14
C	113	HIS	-	expression tag	UNP P15692-14
C	114	HIS	-	expression tag	UNP P15692-14
C	115	HIS	-	expression tag	UNP P15692-14
C	116	HIS	-	expression tag	UNP P15692-14
F	111	HIS	-	expression tag	UNP P15692-14
F	112	HIS	-	expression tag	UNP P15692-14
F	113	HIS	-	expression tag	UNP P15692-14
F	114	HIS	-	expression tag	UNP P15692-14
F	115	HIS	-	expression tag	UNP P15692-14
F	116	HIS	-	expression tag	UNP P15692-14
J	111	HIS	-	expression tag	UNP P15692-14
J	112	HIS	-	expression tag	UNP P15692-14
J	113	HIS	-	expression tag	UNP P15692-14
J	114	HIS	-	expression tag	UNP P15692-14
J	115	HIS	-	expression tag	UNP P15692-14
J	116	HIS	-	expression tag	UNP P15692-14

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	H	3	Total 3	Cl 3	0	0
4	L	1	Total 1	Cl 1	0	0
4	A	3	Total 3	Cl 3	0	0
4	D	3	Total 3	Cl 3	0	0
4	G	2	Total 2	Cl 2	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	H	131	Total 131	O 131	0	0
5	L	173	Total 173	O 173	0	0
5	V	30	Total 30	O 30	0	0
5	A	55	Total 55	O 55	0	0
5	B	70	Total 70	O 70	0	0
5	C	5	Total 5	O 5	0	0
5	D	110	Total 110	O 110	0	0
5	E	94	Total 94	O 94	0	0
5	F	8	Total 8	O 8	0	0
5	G	36	Total 36	O 36	0	0
5	I	87	Total 87	O 87	0	0
5	J	12	Total 12	O 12	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.
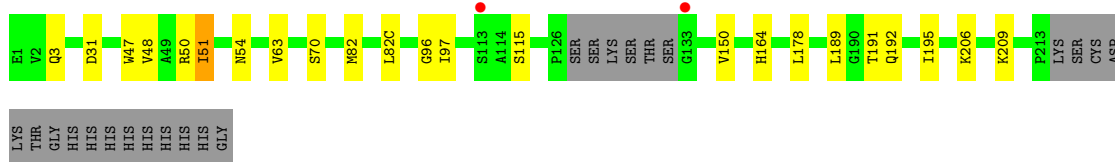
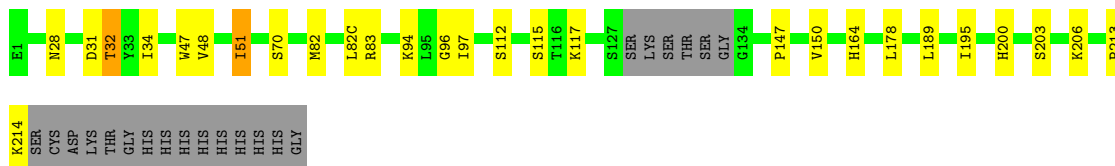• Molecule 1: anti-VEGF-A Fab bH1 heavy chain

Chain H:
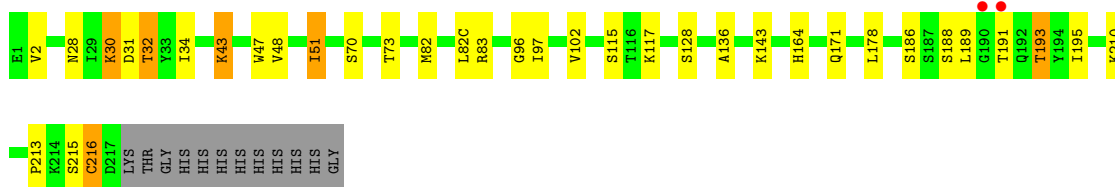
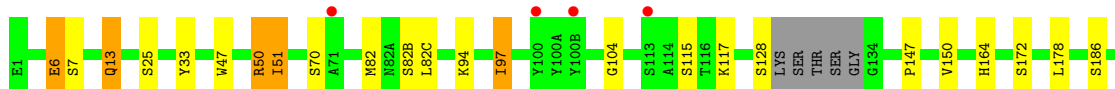• Molecule 1: anti-VEGF-A Fab bH1 heavy chain

Chain A:
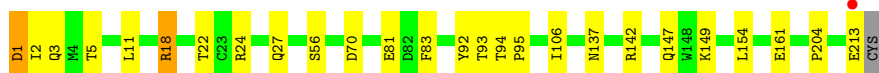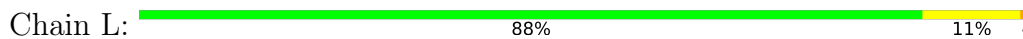

• Molecule 1: anti-VEGF-A Fab bH1 heavy chain

Chain D:

• Molecule 1: anti-VEGF-A Fab bH1 heavy chain

Chain G:

L189 Q192 I195 H200 K201 P202 S203 K210 V211 E212 P213 K214 SER CYS ASP LYS THR GLY HIS HIS HIS HIS HIS HIS GLY

• Molecule 2: anti-VEGF-A Fab bH1 light chain

Chain L:

D1 I2 Q3 M4 T5 L11 R18 T22 C23 R24 Q27 S56 D70 E81 D82 F83 Y92 T93 T94 P95 I106 N137 R142 Q147 W148 K149 L154 E161 P204 E213 CYS

• Molecule 2: anti-VEGF-A Fab bH1 light chain

Chain B:

D1 I2 Q3 S9 S10 L11 R18 V19 T20 I21 T22 C23 R24 R27D Q37 L47 S56 T72 F83 T94 P95 K103 V104 E105 I106 E123 A130 N137 R142 V150 D151 L154 Q155 S156 V163 L181 S182 K183 E187 K188

V191 Y192 A193 P204 R211 G212 GLU CYS

• Molecule 2: anti-VEGF-A Fab bH1 light chain

Chain E:

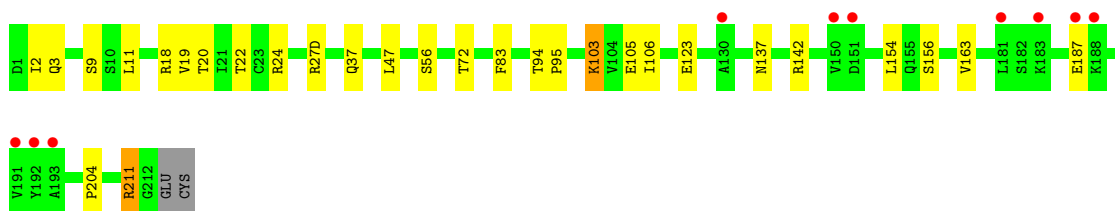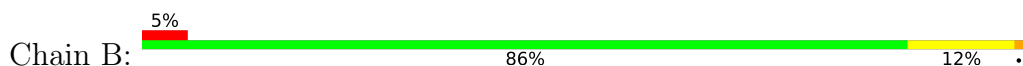D1 I2 Q3 M4 T5 L11 R18 V19 T20 I21 T22 C23 R24 D27A R27D Q37 P40 L47 D70 F71 T72 T94 P95 Q100 L136 N137 R142 K145 V163 K169 K183 A184 D185 Y186 H189 K190 S203 R211 G212 E213 CYS

• Molecule 2: anti-VEGF-A Fab bH1 light chain

Chain I:

D1 T5 L11 R18 T22 D27A R27D Q37 L47 T72 F83 T94 P95 Q100 K103 I106 N137 K145 D151 N152 A153 L154 Q155 S156 V163 Y186 K190 V191 Q199 S203 R211 G212 E213 CYS

• Molecule 3: Isoform L-VEGF206 of Vascular endothelial growth factor A

Chain V:

ALA PRO MET ALA GLU GLY GLY GLN ASN HIS HIS E13 M18 D19 C26 D34 E38 E42 I43 E44 Y45 I46 F47 K48 R56 D63 E64 G65 V69 P70 P85 L97 K101 C102 E103 K107 LYS ASP ARG HIS HIS HIS HIS HIS HIS

• Molecule 3: Isoform L-VEGF206 of Vascular endothelial growth factor A

Chain C:
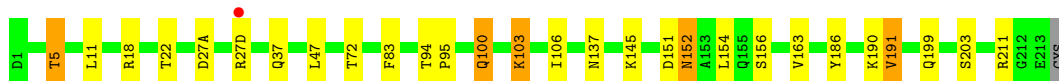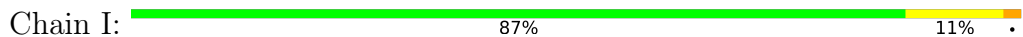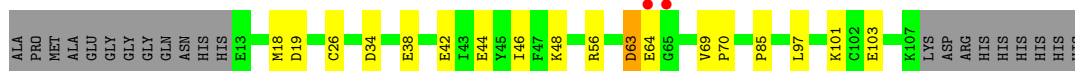
ALA PRO MET ALA GLU GLY GLY GLN ASN HIS HIS GLU V14 D19 R23 S24 Y25 C26 H27 P28 F36 E42 R56 C60 C61 E64 G65 L66 V69 P70 E73 K84 Q87 S95 F96 L97 K101 C102 E103 C104 R105 P106 K107 LYS ASP ARG

HIS HIS HIS HIS HIS

• Molecule 3: Isoform L-VEGF206 of Vascular endothelial growth factor A

Chain F:

• Molecule 3: Isoform L-VEGF206 of Vascular endothelial growth factor A

Chain J:

4   Data and refinement statistics (i)

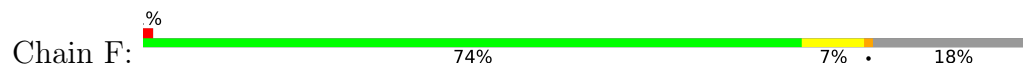| Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	194.17Å 100.75Å 153.51Å 90.00° 91.69° 90.00°	Depositor
Resolution (Å)	48.57 – 2.45 48.52 – 2.45	Depositor EDS
% Data completeness (in resolution range)	98.6 (48.57-2.45) 98.6 (48.52-2.45)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.41 (at 2.45Å)	Xtriage
Refinement program	REFMAC 5.8.0222	Depositor
R, R_{free}	0.189 , 0.232 0.194 , 0.236	Depositor DCC
R_{free} test set	5376 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å^2)	37.8	Xtriage
Anisotropy	0.137	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 42.3	EDS
L-test for twinning[2]	$< |L| > = 0.48, < L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.027 for -h,-k,l	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	17155	wwPDB-VP
Average B, all atoms (Å^2)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 25.50 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.1331e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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:
CL

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	0.56	0/1655	0.71	0/2257
1	D	0.55	0/1666	0.74	0/2271
1	G	0.55	0/1672	0.74	0/2279
1	H	0.72	0/1725	0.77	0/2351
2	B	0.56	0/1711	0.71	0/2327
2	E	0.61	0/1720	0.74	0/2339
2	I	0.56	0/1729	0.72	0/2351
2	L	0.62	0/1720	0.72	0/2339
3	C	0.48	0/779	0.67	0/1050
3	F	0.46	0/788	0.68	1/1062 (0.1%)
3	J	0.47	0/779	0.66	0/1050
3	V	0.57	0/788	0.78	1/1062 (0.1%)
All	All	0.58	0/16732	0.73	2/22738 (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
2	E	0	1
2	I	0	1
All	All	0	2

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	F	19	ASP	CB-CA-C	5.47	121.35	110.40
3	V	63	ASP	CB-CG-OD1	5.37	123.13	118.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	E	27(D)	ARG	Sidechain
2	I	27(D)	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	1615	0	1586	15	0
1	D	1626	0	1601	16	0
1	G	1632	0	1606	20	0
1	H	1684	0	1654	23	0
2	B	1670	0	1619	24	0
2	E	1679	0	1625	21	0
2	I	1685	0	1631	28	0
2	L	1679	0	1625	20	0
3	C	761	0	728	6	0
3	F	770	0	734	3	0
3	J	761	0	728	4	0
3	V	770	0	734	4	0
4	A	3	0	0	0	0
4	D	3	0	0	0	0
4	G	2	0	0	0	0
4	H	3	0	0	0	0
4	L	1	0	0	0	0
5	A	55	0	0	0	0
5	B	70	0	0	2	0
5	C	5	0	0	0	0
5	D	110	0	0	0	0
5	E	94	0	0	2	0
5	F	8	0	0	1	0
5	G	36	0	0	0	0
5	H	131	0	0	3	0
5	I	87	0	0	3	0
5	J	12	0	0	1	0
5	L	173	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	V	30	0	0	0	0
All	All	17155	0	15871	151	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.

The worst 5 of 151 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:G:50:ARG:NH2	2:I:94:THR:HG21	1.76	0.99
1:H:216:CYS:HB2	2:L:213:GLU:HB3	1.45	0.98
1:G:13:GLN:HE21	1:G:13:GLN:H	1.08	0.97
2:B:24:ARG:HH12	2:I:18:ARG:HH11	1.03	0.95
2:E:142:ARG:HH11	2:E:142:ARG:HG2	1.32	0.91

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	211/237 (89%)	209 (99%)	2 (1%)	0	100	100
1	D	212/237 (90%)	210 (99%)	2 (1%)	0	100	100
1	G	213/237 (90%)	208 (98%)	5 (2%)	0	100	100
1	H	223/237 (94%)	218 (98%)	3 (1%)	2 (1%)	17	19
2	B	214/218 (98%)	206 (96%)	8 (4%)	0	100	100
2	E	215/218 (99%)	209 (97%)	6 (3%)	0	100	100
2	I	216/218 (99%)	208 (96%)	7 (3%)	1 (0%)	29	34
2	L	215/218 (99%)	209 (97%)	6 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	C	92/116 (79%)	90 (98%)	1 (1%)	1 (1%)	14	14
3	F	93/116 (80%)	91 (98%)	1 (1%)	1 (1%)	14	14
3	J	92/116 (79%)	88 (96%)	3 (3%)	1 (1%)	14	14
3	V	93/116 (80%)	89 (96%)	3 (3%)	1 (1%)	14	14
All	All	2089/2284 (92%)	2035 (97%)	47 (2%)	7 (0%)	41	49

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	I	152	ASN
1	H	216	CYS
1	H	215	SER
3	V	26	CYS
3	C	26	CYS

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	176/196 (90%)	167 (95%)	9 (5%)	24	31
1	D	178/196 (91%)	167 (94%)	11 (6%)	18	23
1	G	179/196 (91%)	160 (89%)	19 (11%)	6	6
1	H	186/196 (95%)	173 (93%)	13 (7%)	15	18
2	B	190/192 (99%)	181 (95%)	9 (5%)	26	34
2	E	191/192 (100%)	177 (93%)	14 (7%)	14	16
2	I	192/192 (100%)	182 (95%)	10 (5%)	23	30
2	L	191/192 (100%)	183 (96%)	8 (4%)	30	39
3	C	89/106 (84%)	82 (92%)	7 (8%)	12	14
3	F	90/106 (85%)	87 (97%)	3 (3%)	38	49
3	J	89/106 (84%)	84 (94%)	5 (6%)	21	27
3	V	90/106 (85%)	80 (89%)	10 (11%)	6	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	1841/1976 (93%)	1723 (94%)	118 (6%)	17 21

5 of 118 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	32	THR
2	I	191	VAL
2	E	27(D)	ARG
2	I	190	LYS
1	G	189	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 25 such sidechains are listed below:

Mol	Chain	Res	Type
2	E	137	ASN
1	G	3	GLN
3	J	37	GLN
3	F	100	ASN
1	G	13	GLN

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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 12 ligands modelled in this entry, 12 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 ⓘ

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(Å²)	Q<0.9
1	A	215/237 (90%)	-0.07	2 (0%)	84	85	32, 53, 73, 94	0
1	D	216/237 (91%)	-0.32	0	100	100	25, 40, 64, 85	0
1	G	217/237 (91%)	0.16	4 (1%)	68	65	29, 59, 86, 107	0
1	H	225/237 (94%)	-0.27	2 (0%)	84	85	19, 33, 65, 108	0
2	B	216/218 (99%)	0.16	10 (4%)	32	30	24, 47, 91, 106	0
2	E	217/218 (99%)	-0.25	0	100	100	20, 35, 62, 91	0
2	I	217/218 (99%)	-0.07	1 (0%)	91	92	24, 41, 76, 99	0
2	L	217/218 (99%)	-0.23	1 (0%)	91	92	16, 28, 51, 98	0
3	C	94/116 (81%)	0.69	8 (8%)	10	8	46, 73, 108, 119	0
3	F	95/116 (81%)	0.21	1 (1%)	80	80	33, 60, 96, 107	0
3	J	94/116 (81%)	0.28	5 (5%)	26	23	43, 62, 101, 119	0
3	V	95/116 (81%)	-0.13	2 (2%)	63	60	24, 42, 77, 106	0
All	All	2118/2284 (92%)	-0.05	36 (1%)	70	67	16, 44, 85, 119	0

The worst 5 of 36 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	V	65	GLY	5.6
2	B	191	VAL	3.7
2	B	192	TYR	3.5
2	B	188	LYS	3.5
2	B	130	ALA	3.3

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 monosaccharides 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	CL	G	302	1/1	0.91	0.10	59,59,59,59	0
4	CL	G	301	1/1	0.95	0.19	44,44,44,44	0
4	CL	H	302	1/1	0.97	0.11	31,31,31,31	0
4	CL	A	303	1/1	0.97	0.07	54,54,54,54	0
4	CL	L	301	1/1	0.98	0.08	42,42,42,42	0
4	CL	D	302	1/1	0.98	0.08	42,42,42,42	0
4	CL	H	303	1/1	0.99	0.09	34,34,34,34	0
4	CL	H	301	1/1	0.99	0.12	22,22,22,22	0
4	CL	D	303	1/1	0.99	0.08	46,46,46,46	0
4	CL	A	301	1/1	0.99	0.07	34,34,34,34	0
4	CL	A	302	1/1	0.99	0.07	55,55,55,55	0
4	CL	D	301	1/1	1.00	0.12	30,30,30,30	0

6.5 Other polymers ⓘ

There are no such residues in this entry.