



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 01:53 PM UTC

PDB ID : 4ZFO / pdb_00004zfo
Title : J22.9-xi: chimeric mouse/human antibody against human BCMA (CD269)
Authors : Marino, S.F.; Daumke, O.; Olal, D.
Deposited on : 2015-04-21
Resolution : 1.90 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
Mogul : 2022.3.0, CSD as543be (2022)
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

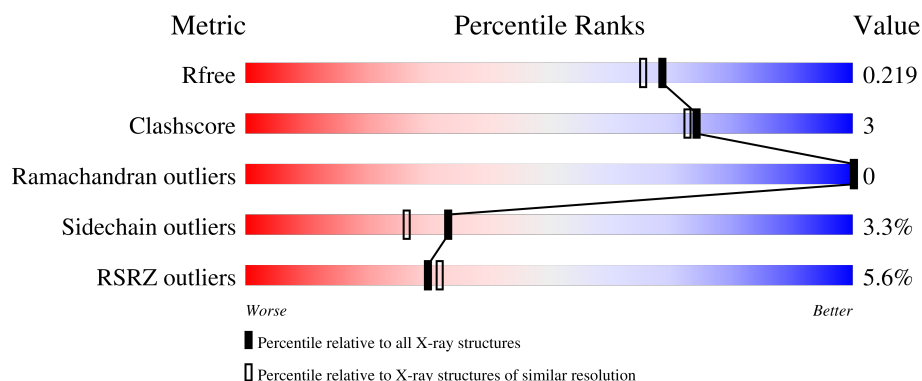
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	F	54	22% 65% 33%
1	K	54	24% 48% 17% 35%
2	L	214	3% 92% 7%
3	A	221	% 92% 5%
3	H	221	4% 90% 8%

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Mol	Chain	Length	Quality of chain
4	B	213	4% 91% 8% •

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 7946 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 Tumor necrosis factor receptor superfamily member 17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	F	36	Total	C	N	O	S	0	0	0
			260	159	44	51	6			
1	K	35	Total	C	N	O	S	0	0	0
			256	157	43	50	6			

- Molecule 2 is a protein called J22.9-xi Fab, Light Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	214	Total	C	N	O	S	0	3	0
			1669	1041	283	339	6			

- Molecule 3 is a protein called J22.9-xi Fab, Heavy Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	H	216	Total	C	N	O	S	0	4	0
			1648	1044	273	324	7			
3	A	215	Total	C	N	O	S	0	3	0
			1638	1035	272	324	7			

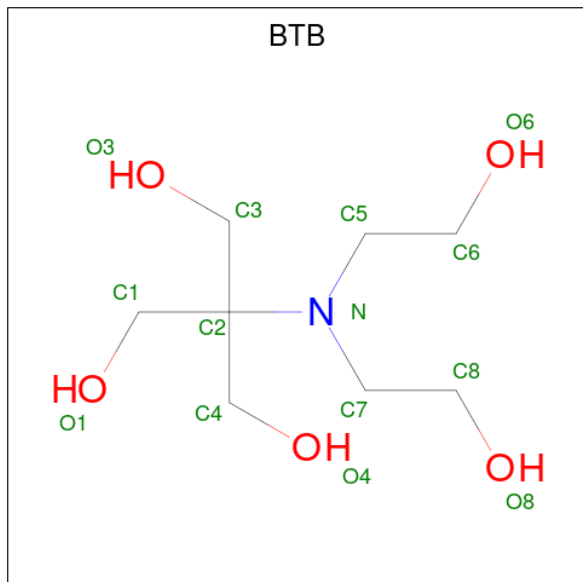
- Molecule 4 is a protein called J22.9-xi Fab, Light Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	B	213	Total	C	N	O	S	0	4	0
			1675	1047	285	337	6			

- Molecule 5 is COPPER (II) ION (CCD ID: CU) (formula: Cu).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	L	2	Total	Cu	0	0
			2	2		
5	B	1	Total	Cu	0	0
			1	1		

- Molecule 6 is 2-[BIS-(2-HYDROXY-ETHYL)-AMINO]-2-HYDROXYMETHYL-PROPAN E-1,3-DIOL (CCD ID: BTB) (formula: $C_8H_{19}NO_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	L	1	Total	C	N	O	0	0
			14	8	1	5		
6	B	1	Total	C	N	O	0	0
			14	8	1	5		

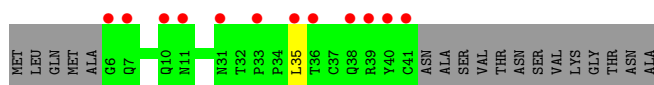
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	F	19	Total	O	0	0
			19	19		
7	L	194	Total	O	0	0
			194	194		
7	H	193	Total	O	0	0
			193	193		
7	B	171	Total	O	0	0
			171	171		
7	A	184	Total	O	0	0
			184	184		
7	K	8	Total	O	0	0
			8	8		

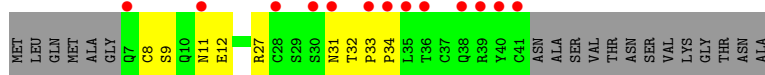
3 Residue-property plots

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.

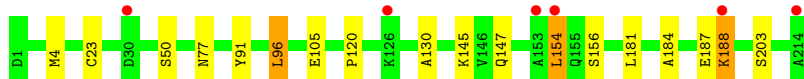
- Molecule 1: Tumor necrosis factor receptor superfamily member 17



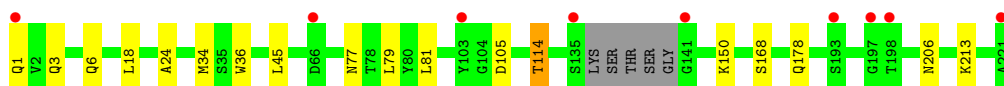
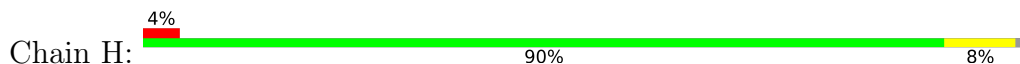
- Molecule 1: Tumor necrosis factor receptor superfamily member 17



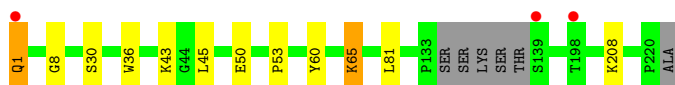
- Molecule 2: J22.9-xi Fab, Light Chain



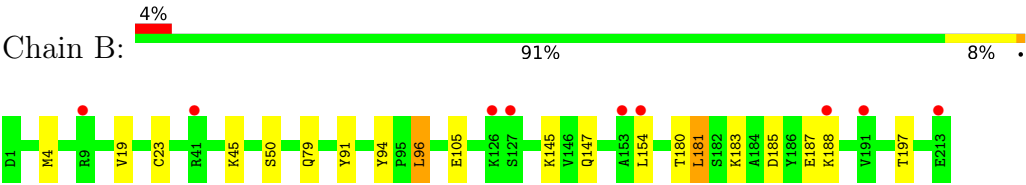
- Molecule 3: J22.9-xi Fab, Heavy Chain



- Molecule 3: J22.9-xi Fab, Heavy Chain



- Molecule 4: J22.9-xi Fab, Light Chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	72.80Å 110.14Å 137.28Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.26 – 1.90 42.26 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.7 (42.26-1.90) 99.6 (42.26-1.90)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.53 (at 1.89Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.176 , 0.209 0.189 , 0.219	Depositor DCC
R_{free} test set	4397 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	17.9	Xtriage
Anisotropy	0.425	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 36.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7946	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.88% 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: BTB, CU

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	F	0.48	0/266	0.72	0/363
1	K	0.43	0/262	0.81	0/358
2	L	0.51	0/1705	0.77	0/2312
3	A	0.49	0/1681	0.74	1/2289 (0.0%)
3	H	0.53	0/1691	0.77	0/2304
4	B	0.49	0/1714	0.77	0/2323
All	All	0.50	0/7319	0.76	1/9949 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	8	GLY	N-CA-C	6.06	124.29	115.32

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	F	260	0	219	1	0
1	K	256	0	216	5	0
2	L	1669	0	1621	8	0
3	A	1638	0	1596	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	H	1648	0	1612	12	0
4	B	1675	0	1637	12	0
5	B	1	0	0	0	0
5	L	2	0	0	0	0
6	B	14	0	17	3	0
6	L	14	0	15	0	0
7	A	184	0	0	0	0
7	B	171	0	0	1	0
7	F	19	0	0	1	0
7	H	193	0	0	3	0
7	K	8	0	0	0	0
7	L	194	0	0	0	0
All	All	7946	0	6933	44	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 3.

All (44) 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)
3:H:77:ASN:HD22	3:A:1:GLN:HE22	1.30	0.74
1:K:8:CYS:HB3	1:K:12:GLU:HG3	1.70	0.72
3:H:77:ASN:HD22	3:A:1:GLN:NE2	1.91	0.68
4:B:185:ASP:HA	4:B:188:LYS:HE2	1.79	0.63
3:A:1:GLN:OE1	3:A:1:GLN:N	2.30	0.63
3:H:105:ASP:OD1	7:H:301:HOH:O	2.16	0.62
3:A:1:GLN:H3	3:A:1:GLN:CD	2.07	0.62
4:B:4:MET:HE3	4:B:23:CYS:SG	2.43	0.59
4:B:188:LYS:HZ2	6:B:302:BTB:H82	1.69	0.58
3:H:24:ALA:O	3:A:1:GLN:NE2	2.40	0.55
2:L:184:ALA:O	2:L:188:LYS:HG2	2.09	0.53
3:H:6:GLN:HB3	3:H:114:THR:HG22	1.91	0.53
4:B:91:TYR:HA	4:B:96[A]:LEU:HD22	1.91	0.52
1:K:9:SER:OG	1:K:11:ASN:OD1	2.25	0.52
3:H:1:GLN:NE2	7:H:303:HOH:O	2.38	0.51
4:B:180:THR:O	4:B:181:LEU:HD13	2.12	0.49
4:B:147:GLN:OE1	4:B:154:LEU:HD22	2.14	0.48
4:B:91:TYR:HB3	4:B:96[A]:LEU:HD13	1.96	0.47
3:A:30:SER:O	3:A:53:PRO:HB3	2.14	0.47
2:L:120:PRO:HG3	2:L:130:ALA:HB1	1.96	0.47
4:B:94:TYR:OH	3:A:50:GLU:OE2	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B:302:BTB:H52	6:B:302:BTB:H31	1.59	0.46
2:L:147:GLN:CG	2:L:154:LEU:HD11	2.45	0.46
3:H:36:TRP:CE2	3:H:81:LEU:HB2	2.51	0.46
2:L:91:TYR:HA	2:L:96:LEU:HD22	1.99	0.45
3:A:60:TYR:CD1	3:A:65:LYS:HG2	2.52	0.45
1:K:27:ARG:CZ	1:K:34:PRO:HD3	2.47	0.44
3:A:36:TRP:CE2	3:A:81:LEU:HB2	2.52	0.44
3:H:6:GLN:HB3	3:H:114:THR:CG2	2.48	0.44
4:B:45:LYS:NZ	7:B:403:HOH:O	2.37	0.43
2:L:187:GLU:C	2:L:188:LYS:HE3	2.44	0.43
4:B:188:LYS:NZ	6:B:302:BTB:H82	2.33	0.43
3:H:150:LYS:NZ	3:H:178:GLN:OE1	2.53	0.42
2:L:4:MET:HE3	2:L:23:CYS:SG	2.60	0.42
2:L:147:GLN:HG3	2:L:154:LEU:HD11	2.01	0.42
3:H:206:ASN:OD1	3:H:213:LYS:HG2	2.20	0.41
1:F:35:LEU:N	7:F:102:HOH:O	2.53	0.41
4:B:183:LYS:HE2	4:B:187:GLU:OE2	2.21	0.41
1:K:32:THR:N	1:K:33:PRO:HD3	2.36	0.41
3:H:34:MET:HB3	3:H:79:LEU:HD22	2.02	0.41
1:K:31:ASN:C	1:K:33:PRO:HD3	2.46	0.40
4:B:145:LYS:HB3	4:B:197:THR:HB	2.03	0.40
2:L:154:LEU:HD13	2:L:154:LEU:HA	1.54	0.40
3:H:114:THR:HB	7:H:458:HOH:O	2.21	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	F	34/54 (63%)	34 (100%)	0	0	100	100
1	K	33/54 (61%)	32 (97%)	1 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	L	215/214 (100%)	210 (98%)	5 (2%)	0	100	100
3	A	214/221 (97%)	212 (99%)	2 (1%)	0	100	100
3	H	215/221 (97%)	213 (99%)	2 (1%)	0	100	100
4	B	215/213 (101%)	209 (97%)	6 (3%)	0	100	100
All	All	926/977 (95%)	910 (98%)	16 (2%)	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	F	29/48 (60%)	29 (100%)	0	100	100
1	K	29/48 (60%)	29 (100%)	0	100	100
2	L	191/188 (102%)	181 (95%)	10 (5%)	21	13
3	A	184/186 (99%)	179 (97%)	5 (3%)	39	34
3	H	185/186 (100%)	180 (97%)	5 (3%)	39	34
4	B	192/188 (102%)	185 (96%)	7 (4%)	31	23
All	All	810/844 (96%)	783 (97%)	27 (3%)	33	26

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

Mol	Chain	Res	Type
2	L	50	SER
2	L	77	ASN
2	L	96	LEU
2	L	105	GLU
2	L	145	LYS
2	L	154	LEU
2	L	156	SER
2	L	181	LEU
2	L	188	LYS

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Mol	Chain	Res	Type
2	L	203	SER
3	H	3	GLN
3	H	18	LEU
3	H	45	LEU
3	H	114	THR
3	H	168	SER
4	B	19	VAL
4	B	50	SER
4	B	79	GLN
4	B	96[A]	LEU
4	B	96[B]	LEU
4	B	105	GLU
4	B	181	LEU
3	A	1	GLN
3	A	43	LYS
3	A	45	LEU
3	A	65	LYS
3	A	208	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
2	L	8	GLN
2	L	38	GLN
2	L	77	ASN
2	L	79	GLN
2	L	160	GLN
4	B	8	GLN
4	B	160	GLN
3	A	1	GLN
3	A	199	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	BTB	L	303	5	13,13,13	0.89	1 (7%)	7,16,16	0.73	0
6	BTB	B	302	5	13,13,13	0.75	0	7,16,16	0.44	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	BTB	L	303	5	-	0/21/21/21	-
6	BTB	B	302	5	-	5/21/21/21	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	L	303	BTB	C7-N	-2.13	1.44	1.48

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	B	302	BTB	O1-C1-C2-C3
6	B	302	BTB	O1-C1-C2-C4
6	B	302	BTB	O1-C1-C2-N

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Mol	Chain	Res	Type	Atoms
6	B	302	BTB	N-C7-C8-O8
6	B	302	BTB	N-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	302	BTB	3	0

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	F	36/54 (66%)	1.36	12 (33%)	1 1	12, 37, 57, 69	1 (2%)
1	K	35/54 (64%)	1.66	13 (37%)	1 0	16, 46, 76, 94	0
2	L	214/214 (100%)	-0.14	6 (2%)	55 59	8, 19, 32, 50	4 (1%)
3	A	215/221 (97%)	-0.10	3 (1%)	73 76	7, 19, 33, 48	3 (1%)
3	H	216/221 (97%)	-0.06	9 (4%)	40 43	6, 18, 39, 57	3 (1%)
4	B	213/213 (100%)	0.04	9 (4%)	40 43	10, 21, 45, 72	5 (2%)
All	All	929/977 (95%)	0.05	52 (5%)	30 32	6, 19, 45, 94	16 (1%)

All (52) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	7	GLN	9.9
3	H	221	ALA	6.3
1	F	35	LEU	5.9
1	K	35	LEU	5.5
1	K	40	TYR	4.9
4	B	126	LYS	4.6
3	H	1	GLN	4.4
2	L	214	ALA	3.9
1	K	30	SER	3.9
3	H	198	THR	3.7
1	K	36	THR	3.6
1	K	39	ARG	3.4
1	K	31	ASN	3.4
1	F	40	TYR	3.3
1	K	41	CYS	3.3
3	H	197	GLY	3.3
1	K	38	GLN	3.3
1	F	6	GLY	3.2
2	L	126	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
4	B	9[A]	ARG	3.2
3	A	198	THR	3.2
2	L	30	ASP	3.0
1	F	36	THR	2.9
1	K	28	CYS	2.8
3	H	135	SER	2.8
4	B	154	LEU	2.8
1	F	39	ARG	2.8
1	F	38	GLN	2.7
3	A	1	GLN	2.7
1	K	33	PRO	2.6
3	H	141	GLY	2.6
1	F	33	PRO	2.6
3	H	103	TYR	2.5
4	B	191	VAL	2.5
4	B	213	GLU	2.4
3	A	139	SER	2.4
1	F	11	ASN	2.4
1	F	41	CYS	2.4
1	K	34	PRO	2.4
4	B	127	SER	2.4
1	F	10	GLN	2.3
1	K	11	ASN	2.3
4	B	41	ARG	2.3
1	K	7	GLN	2.2
2	L	188	LYS	2.2
4	B	188	LYS	2.2
3	H	66	ASP	2.2
2	L	153	ALA	2.2
4	B	153	ALA	2.1
1	F	31	ASN	2.1
3	H	193	SER	2.1
2	L	154	LEU	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
6	BTB	B	302	14/14	0.72	0.30	78,81,83,84	14
6	BTB	L	303	14/14	0.89	0.12	28,38,41,42	0
5	CU	B	301	1/1	0.96	0.06	55,55,55,55	1
5	CU	L	302	1/1	1.00	0.02	19,19,19,19	1
5	CU	L	301	1/1	1.00	0.02	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.