



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 11:52 AM UTC

PDB ID : 4V0C / pdb_00004v0c
Title : Crystal Structure of the Kv7.1 proximal C-terminal Domain in Complex with Calmodulin
Authors : Sachyani, D.; Hirsch, J.A.
Deposited on : 2014-09-14
Resolution : 2.86 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

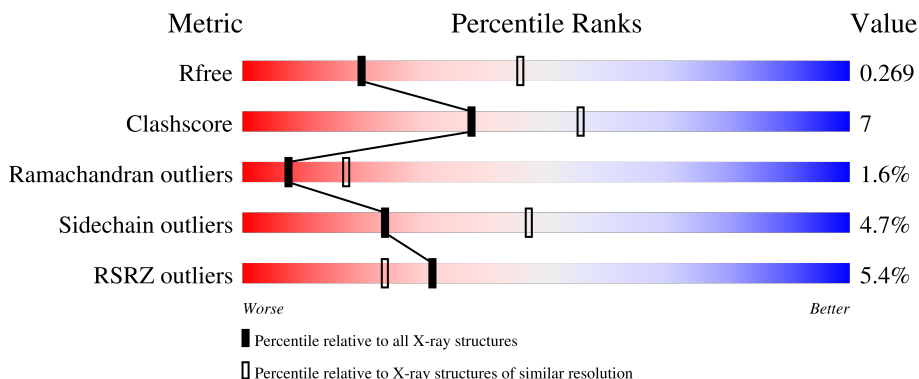
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.86 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	1407 (2.88-2.84)
Clashscore	190562	1446 (2.88-2.84)
Ramachandran outliers	187476	1406 (2.88-2.84)
Sidechain outliers	187428	1407 (2.88-2.84)
RSRZ outliers	180081	1408 (2.88-2.84)

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	112	
1	B	112	
2	C	149	
2	D	149	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3523 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 POTASSIUM VOLTAGE-GATED CHANNEL SUBFAMILY KQT MEMBER 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	96	Total	C	N	O	S	0	0	0
			740	466	144	128	2			
1	B	77	Total	C	N	O	S	0	0	0
			626	397	121	106	2			

There are 62 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	324	MET	-	expression tag	UNP P51787
A	325	GLY	-	expression tag	UNP P51787
A	326	SER	-	expression tag	UNP P51787
A	327	HIS	-	expression tag	UNP P51787
A	328	HIS	-	expression tag	UNP P51787
A	329	HIS	-	expression tag	UNP P51787
A	330	HIS	-	expression tag	UNP P51787
A	331	HIS	-	expression tag	UNP P51787
A	332	HIS	-	expression tag	UNP P51787
A	333	HIS	-	expression tag	UNP P51787
A	334	HIS	-	expression tag	UNP P51787
A	335	GLY	-	expression tag	UNP P51787
A	336	SER	-	expression tag	UNP P51787
A	337	ASP	-	expression tag	UNP P51787
A	338	TYR	-	expression tag	UNP P51787
A	339	ASP	-	expression tag	UNP P51787
A	340	ASP	-	expression tag	UNP P51787
A	341	ILE	-	expression tag	UNP P51787
A	342	PHE	-	expression tag	UNP P51787
A	343	THR	-	expression tag	UNP P51787
A	344	THR	-	expression tag	UNP P51787
A	345	GLU	-	expression tag	UNP P51787
A	346	ASN	-	expression tag	UNP P51787
A	347	LEU	-	expression tag	UNP P51787

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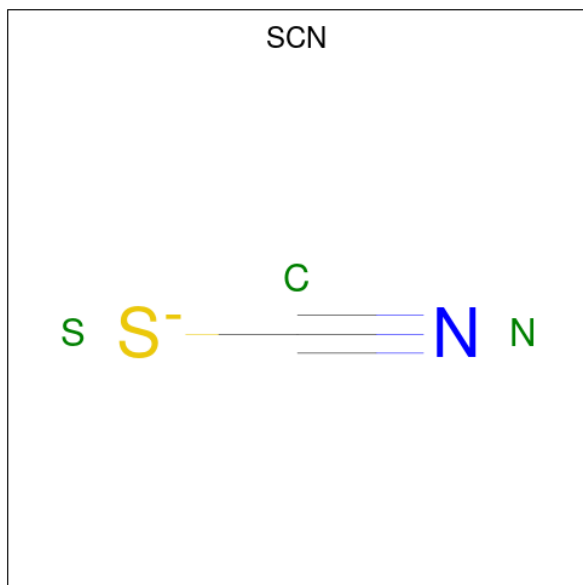
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Chain	Residue	Modelled	Actual	Comment	Reference
A	348	TYR	-	expression tag	UNP P51787
A	349	PHE	-	expression tag	UNP P51787
A	350	GLN	-	expression tag	UNP P51787
A	350A	GLY	-	expression tag	UNP P51787
A	351	SER	-	expression tag	UNP P51787
A	397	GLU	HIS	engineered mutation	UNP P51787
A	398	PHE	ILE	engineered mutation	UNP P51787
B	324	MET	-	expression tag	UNP P51787
B	325	GLY	-	expression tag	UNP P51787
B	326	SER	-	expression tag	UNP P51787
B	327	HIS	-	expression tag	UNP P51787
B	328	HIS	-	expression tag	UNP P51787
B	329	HIS	-	expression tag	UNP P51787
B	330	HIS	-	expression tag	UNP P51787
B	331	HIS	-	expression tag	UNP P51787
B	332	HIS	-	expression tag	UNP P51787
B	333	HIS	-	expression tag	UNP P51787
B	334	HIS	-	expression tag	UNP P51787
B	335	GLY	-	expression tag	UNP P51787
B	336	SER	-	expression tag	UNP P51787
B	337	ASP	-	expression tag	UNP P51787
B	338	TYR	-	expression tag	UNP P51787
B	339	ASP	-	expression tag	UNP P51787
B	340	ASP	-	expression tag	UNP P51787
B	341	ILE	-	expression tag	UNP P51787
B	342	PHE	-	expression tag	UNP P51787
B	343	THR	-	expression tag	UNP P51787
B	344	THR	-	expression tag	UNP P51787
B	345	GLU	-	expression tag	UNP P51787
B	346	ASN	-	expression tag	UNP P51787
B	347	LEU	-	expression tag	UNP P51787
B	348	TYR	-	expression tag	UNP P51787
B	349	PHE	-	expression tag	UNP P51787
B	350	GLN	-	expression tag	UNP P51787
B	350A	GLY	-	expression tag	UNP P51787
B	351	SER	-	expression tag	UNP P51787
B	397	GLU	HIS	engineered mutation	UNP P51787
B	398	PHE	ILE	engineered mutation	UNP P51787

- Molecule 2 is a protein called CALMODULIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	143	Total	C	N	O	S	0	0	0
			1077	662	171	235	9			
2	D	145	Total	C	N	O	S	0	0	0
			1069	655	176	229	9			

- Molecule 3 is THIOCYANATE ION (CCD ID: SCN) (formula: CNS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	S	0	0
			3	1	1	1		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	2	Total	Ca	0	0
			2	2		
4	D	2	Total	Ca	0	0
			2	2		

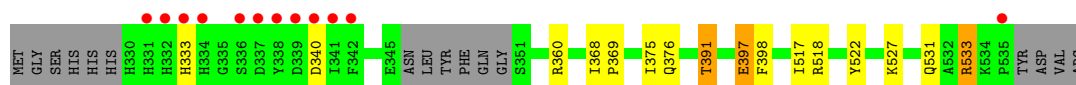
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	2	Total	O	0	0
			2	2		
5	D	2	Total	O	0	0
			2	2		

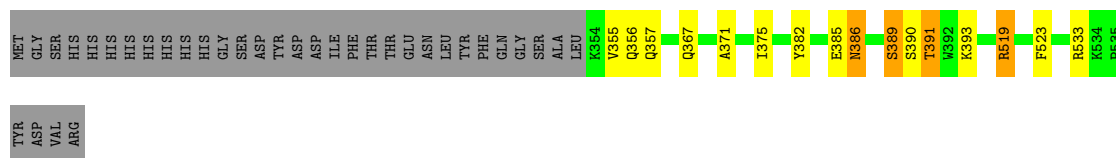
3 Residue-property plots [i](#)

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: POTASSIUM VOLTAGE-GATED CHANNEL SUBFAMILY KQT MEMBER 1



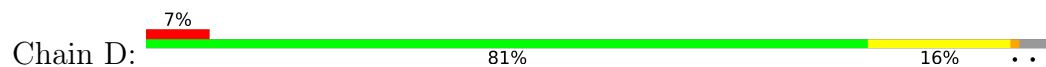
• Molecule 1: POTASSIUM VOLTAGE-GATED CHANNEL SUBFAMILY KQT MEMBER 1



• Molecule 2: CALMODULIN



• Molecule 2: CALMODULIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	152.09Å 152.09Å 56.33Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.78 – 2.86 49.78 – 2.86	Depositor EDS
% Data completeness (in resolution range)	99.8 (49.78-2.86) 99.8 (49.78-2.86)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.74 (at 2.86Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.226 , 0.268 0.231 , 0.269	Depositor DCC
R_{free} test set	883 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	78.1	Xtriage
Anisotropy	0.211	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 76.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.043 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3523	wwPDB-VP
Average B, all atoms (Å ²)	106.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.66% 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: SCN, 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	0.38	0/756	0.86	1/1021 (0.1%)
1	B	0.41	0/642	0.86	3/868 (0.3%)
2	C	0.43	0/1089	0.92	2/1470 (0.1%)
2	D	0.39	0/1081	0.91	1/1460 (0.1%)
All	All	0.40	0/3568	0.89	7/4819 (0.1%)

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	D	0	1

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	134	GLY	N-CA-C	-8.63	92.73	113.18
2	C	132	GLY	N-CA-C	-7.97	103.26	112.50
2	C	133	ASP	N-CA-C	-6.81	106.86	114.62
1	A	391	THR	N-CA-C	-6.54	104.93	113.17
1	B	391	THR	N-CA-C	-5.54	106.47	113.18
1	B	386	ASN	CA-C-N	5.06	125.13	119.87
1	B	386	ASN	C-N-CA	5.06	125.13	119.87

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	D	133	ASP	Peptide

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	740	0	677	13	0
1	B	626	0	595	11	0
2	C	1077	0	965	19	0
2	D	1069	0	935	15	0
3	A	3	0	0	0	0
4	C	2	0	0	0	0
4	D	2	0	0	0	0
5	B	2	0	0	0	0
5	D	2	0	0	0	0
All	All	3523	0	3172	47	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 7.

All (47) 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:D:87:GLU:HA	2:D:90:ARG:HG3	1.65	0.78
2:C:78:ASP:OD1	2:C:80:ASP:N	2.24	0.67
2:C:103:ALA:O	2:C:107:HIS:ND1	2.25	0.67
1:B:519:ARG:HH21	2:D:76:MET:HE2	1.60	0.65
2:C:71:MET:HE3	2:C:72:MET:HE3	1.82	0.61
2:D:79:THR:OG1	2:D:80:ASP:N	2.32	0.61
1:A:527:LYS:O	1:A:531:GLN:HG2	2.03	0.58
2:C:78:ASP:OD1	2:C:79:THR:N	2.37	0.57
1:B:533:ARG:NH1	2:D:87:GLU:OE1	2.39	0.56
1:A:397:GLU:HG3	1:A:398:PHE:N	2.21	0.55
2:C:128:ALA:HB2	2:C:141:PHE:HZ	1.72	0.55
1:B:382:TYR:O	1:B:385:GLU:HG2	2.06	0.55
1:B:355:VAL:C	1:B:357:GLN:H	2.17	0.53
2:C:125:ILE:O	2:C:128:ALA:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:106:ARG:NH1	2:C:118:ASP:OD1	2.42	0.52
2:C:106:ARG:NH2	2:C:122:ASP:OD1	2.36	0.52
1:B:523:PHE:CZ	2:D:76:MET:HE1	2.45	0.52
1:A:375:ILE:HB	2:D:109:MET:HE1	1.91	0.52
1:A:533:ARG:HA	1:B:367:GLN:NE2	2.26	0.51
2:D:46:ALA:O	2:D:48:LEU:N	2.32	0.50
2:D:5:THR:HG22	2:D:8:GLN:HB2	1.92	0.50
1:A:533:ARG:HA	1:B:367:GLN:HE21	1.77	0.50
1:B:390:SER:OG	1:B:393:LYS:HG3	2.11	0.50
2:C:128:ALA:O	2:C:129:ASP:HB3	2.11	0.49
2:D:34:THR:O	2:D:38:SER:N	2.45	0.48
1:A:522:TYR:CD2	2:C:76:MET:HE2	2.47	0.48
1:A:391:THR:HG22	2:D:120:GLU:HG2	1.94	0.48
2:C:78:ASP:OD1	2:C:78:ASP:C	2.56	0.48
1:A:340:ASP:N	1:A:340:ASP:OD1	2.47	0.47
2:D:128:ALA:HA	2:D:141:PHE:HE1	1.80	0.46
2:D:46:ALA:C	2:D:48:LEU:H	2.19	0.46
2:C:105:LEU:HD21	2:C:124:MET:HE2	1.98	0.45
2:C:28:THR:OG1	2:C:31:GLU:HG3	2.17	0.45
2:C:22:ASP:OD2	2:C:31:GLU:CD	2.48	0.45
1:B:386:ASN:HB3	1:B:389:SER:OG	2.17	0.44
1:A:518:ARG:HH12	1:B:391:THR:HG21	1.83	0.43
1:A:360:ARG:HD3	1:A:360:ARG:HA	1.87	0.42
1:A:376:GLN:HG2	2:D:116:LEU:HG	2.01	0.42
1:B:371:ALA:O	1:B:375:ILE:HG12	2.20	0.42
1:A:368:ILE:HB	1:A:369:PRO:HD3	2.00	0.42
2:C:5:THR:O	2:C:9:ILE:HG13	2.19	0.42
2:C:130:ILE:HD12	2:C:130:ILE:N	2.36	0.41
1:A:517:ILE:HD13	2:C:36:MET:HG2	2.03	0.41
2:D:35:VAL:O	2:D:38:SER:OG	2.31	0.41
2:C:129:ASP:O	2:C:129:ASP:CG	2.64	0.40
2:C:8:GLN:HA	2:C:11:GLU:HB3	2.02	0.40
2:D:106:ARG:NH2	2:D:122:ASP:OD1	2.44	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	92/112 (82%)	88 (96%)	4 (4%)	0	100	100
1	B	75/112 (67%)	73 (97%)	0	2 (3%)	4	9
2	C	141/149 (95%)	130 (92%)	8 (6%)	3 (2%)	5	13
2	D	143/149 (96%)	130 (91%)	11 (8%)	2 (1%)	9	19
All	All	451/522 (86%)	421 (93%)	23 (5%)	7 (2%)	7	17

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	81	SER
2	C	128	ALA
1	B	389	SER
2	C	116	LEU
1	B	356	GLN
2	D	115	LYS
2	C	134	GLY

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	65/99 (66%)	62 (95%)	3 (5%)	24	48
1	B	60/99 (61%)	59 (98%)	1 (2%)	53	75
2	C	110/127 (87%)	101 (92%)	9 (8%)	10	23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	D	103/127 (81%)	100 (97%)	3 (3%)	37 61
All	All	338/452 (75%)	322 (95%)	16 (5%)	23 47

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	333	HIS
1	A	397	GLU
1	A	533	ARG
1	B	519	ARG
2	C	5	THR
2	C	21	LYS
2	C	30	LYS
2	C	41	GLN
2	C	72	MET
2	C	78	ASP
2	C	79	THR
2	C	119	GLU
2	C	139	GLU
2	D	4	LEU
2	D	87	GLU
2	D	126	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	363	HIS
1	A	367	GLN
1	B	356	GLN
1	B	367	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, 4 are monoatomic - leaving 1 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	$\# Z > 2$
3	SCN	A	1536	-	1,2,2	0.90	0	0,1,1	-	-

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	96/112 (85%)	0.48	12 (12%) 8 6	58, 97, 165, 195	0
1	B	77/112 (68%)	0.12	0 100 100	63, 82, 161, 185	0
2	C	143/149 (95%)	0.16	3 (2%) 63 55	68, 105, 176, 217	0
2	D	145/149 (97%)	0.48	10 (6%) 23 17	63, 107, 164, 191	0
All	All	461/522 (88%)	0.32	25 (5%) 31 23	58, 103, 171, 217	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	92	PHE	4.3
1	A	337	ASP	3.9
1	A	332	HIS	3.3
1	A	339	ASP	3.2
1	A	331	HIS	3.2
2	C	141	PHE	3.1
1	A	340	ASP	3.1
2	D	4	LEU	3.0
2	D	78	ASP	2.9
2	C	147	ALA	2.7
1	A	336	SER	2.7
1	A	341	ILE	2.6
2	C	61	GLY	2.6
2	D	5	THR	2.6
1	A	535	PRO	2.6
2	D	76	MET	2.6
2	D	6	GLU	2.5
2	D	141	PHE	2.5
1	A	334	HIS	2.4
2	D	3	GLN	2.2
2	D	129	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	342	PHE	2.2
2	D	73	ALA	2.1
1	A	338	TYR	2.1
1	A	333	HIS	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($\text{\AA}^2$)	Q<0.9
3	SCN	A	1536	3/3	0.75	0.34	148,148,150,173	0
4	CA	C	202	1/1	0.95	0.07	105,105,105,105	1
4	CA	D	201	1/1	0.97	0.05	181,181,181,181	0
4	CA	D	202	1/1	0.97	0.06	126,126,126,126	0
4	CA	C	201	1/1	0.98	0.05	135,135,135,135	0

6.5 Other polymers [i](#)

There are no such residues in this entry.