



Full wwPDB X-ray Structure Validation Report ⓘ

May 16, 2020 – 06:16 am BST

PDB ID : 4XDJ
Title : Crystal structure of human two pore domain potassium ion channel TREK2 (K2P10.1) in an alternate conformation (FORM 2)
Authors : Pike, A.C.W.; Dong, Y.Y.; Mackenzie, A.; Mukhopadhyay, S.; Arrowsmith, C.H.; Edwards, A.M.; Bountra, C.; Burgess-Brown, N.A.; Carpenter, E.P.; Structural Genomics Consortium (SGC)
Deposited on : 2014-12-19
Resolution : 3.80 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
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)	:	2.11

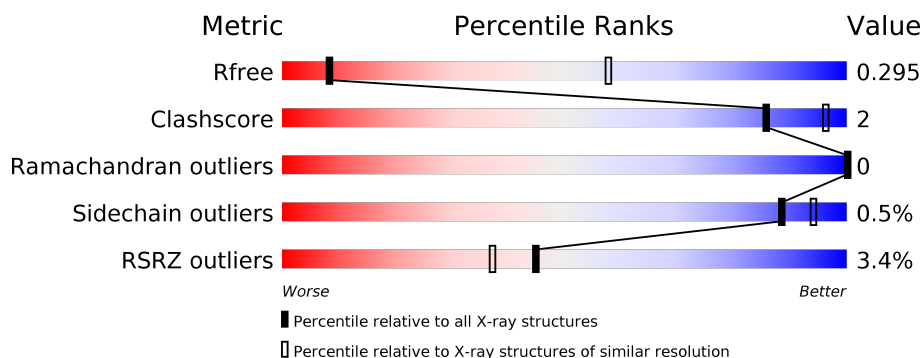
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 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}	130704	1212 (4.00-3.60)
Clashscore	141614	1288 (4.00-3.60)
Ramachandran outliers	138981	1243 (4.00-3.60)
Sidechain outliers	138945	1237 (4.00-3.60)
RSRZ outliers	127900	1121 (4.00-3.60)

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 on 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	282	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 1%, green 83%, grey 15%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> % 83% 6% 11% </div> </div>
1	B	282	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 1%, green 80%, grey 18%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> % 80% 6% 14% </div> </div>
1	C	282	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 5%, orange 1%, yellow 1%, green 76%, grey 17%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> 5% 76% • 21% </div> </div>
1	D	282	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 4%, orange 1%, yellow 1%, green 82%, grey 12%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> 4% 82% • 14% </div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	TRD	A	606	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7058 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 CHANNEL SUBFAMILY K MEMBER 10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	251	Total	C	N	O	S	0	0	0
			1880	1258	292	326	4			
1	B	243	Total	C	N	O	S	0	0	0
			1815	1213	284	314	4			
1	C	224	Total	C	N	O	S	0	0	0
			1591	1061	243	283	4			
1	D	243	Total	C	N	O	S	0	0	0
			1673	1107	266	297	3			

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	66	MET	-	initiating methionine	UNP P57789
A	341	ALA	-	expression tag	UNP P57789
A	342	GLU	-	expression tag	UNP P57789
A	343	ASN	-	expression tag	UNP P57789
A	344	LEU	-	expression tag	UNP P57789
A	345	TYR	-	expression tag	UNP P57789
A	346	PHE	-	expression tag	UNP P57789
A	347	GLN	-	expression tag	UNP P57789
B	66	MET	-	initiating methionine	UNP P57789
B	341	ALA	-	expression tag	UNP P57789
B	342	GLU	-	expression tag	UNP P57789
B	343	ASN	-	expression tag	UNP P57789
B	344	LEU	-	expression tag	UNP P57789
B	345	TYR	-	expression tag	UNP P57789
B	346	PHE	-	expression tag	UNP P57789
B	347	GLN	-	expression tag	UNP P57789
C	66	MET	-	initiating methionine	UNP P57789
C	341	ALA	-	expression tag	UNP P57789
C	342	GLU	-	expression tag	UNP P57789
C	343	ASN	-	expression tag	UNP P57789
C	344	LEU	-	expression tag	UNP P57789

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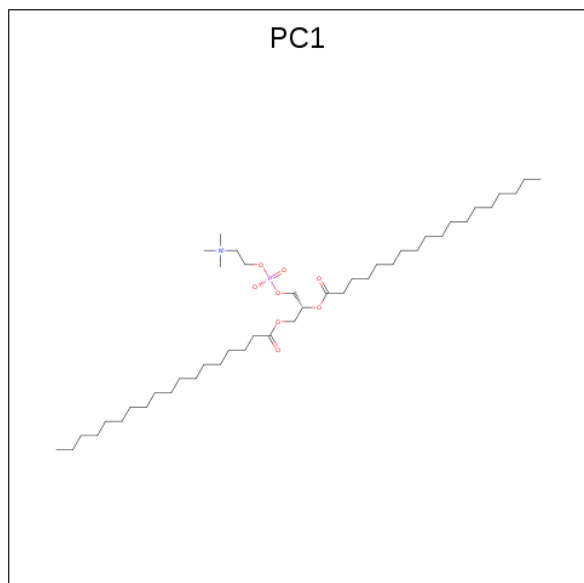
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Chain	Residue	Modelled	Actual	Comment	Reference
C	345	TYR	-	expression tag	UNP P57789
C	346	PHE	-	expression tag	UNP P57789
C	347	GLN	-	expression tag	UNP P57789
D	66	MET	-	initiating methionine	UNP P57789
D	341	ALA	-	expression tag	UNP P57789
D	342	GLU	-	expression tag	UNP P57789
D	343	ASN	-	expression tag	UNP P57789
D	344	LEU	-	expression tag	UNP P57789
D	345	TYR	-	expression tag	UNP P57789
D	346	PHE	-	expression tag	UNP P57789
D	347	GLN	-	expression tag	UNP P57789

- Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	3	Total K 3 3	0	0
2	C	3	Total K 3 3	0	0

- Molecule 3 is 1,2-DIACYL-SN-GLYCERO-3-PHOSPHOCHOLINE (three-letter code: PC1) (formula: $C_{44}H_{88}NO_8P$).



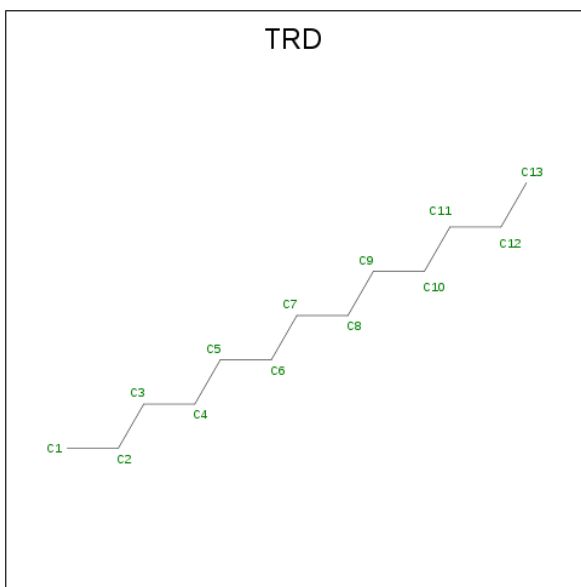
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C 11 11	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C 11 11	0	0
3	B	1	Total C 11 11	0	0
3	B	1	Total C 11 11	0	0

- Molecule 4 is TRIDECANE (three-letter code: TRD) (formula: $C_{13}H_{28}$).

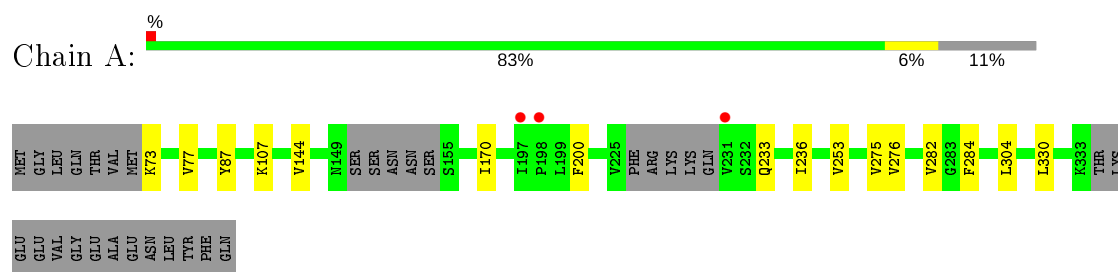


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C 13 13	0	0
4	B	1	Total C 13 13	0	0
4	C	1	Total C 10 10	0	0
4	D	1	Total C 13 13	0	0

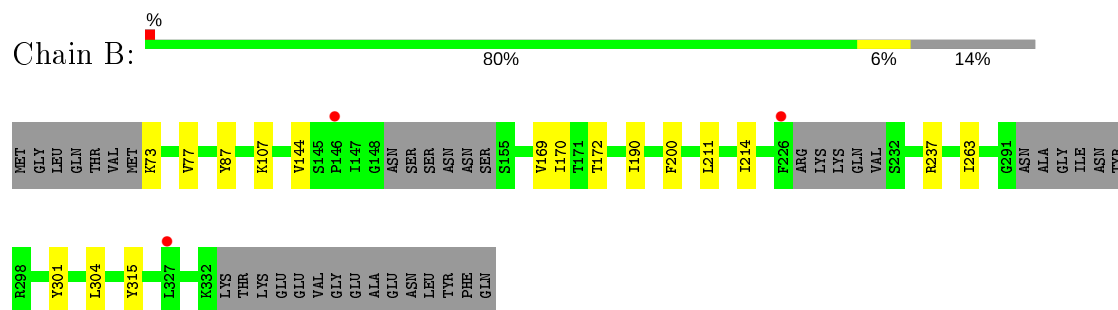
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

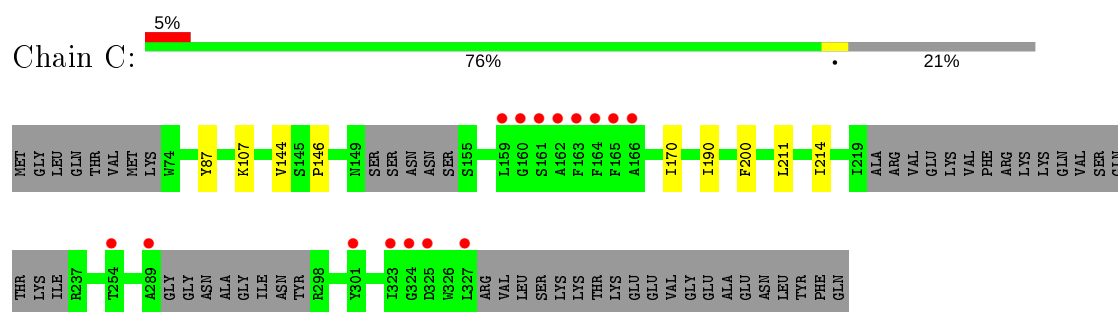
• Molecule 1: POTASSIUM CHANNEL SUBFAMILY K MEMBER 10



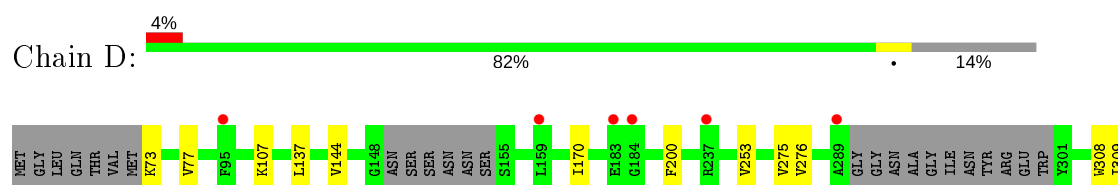
• Molecule 1: POTASSIUM CHANNEL SUBFAMILY K MEMBER 10

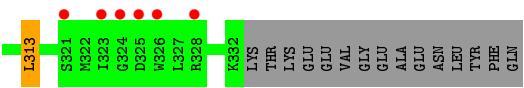


• Molecule 1: POTASSIUM CHANNEL SUBFAMILY K MEMBER 10



• Molecule 1: POTASSIUM CHANNEL SUBFAMILY K MEMBER 10





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	76.75Å 113.87Å 111.78Å 90.00° 90.97° 90.00°	Depositor
Resolution (Å)	37.26 – 3.80 36.48 – 3.80	Depositor EDS
% Data completeness (in resolution range)	99.0 (37.26-3.80) 94.3 (36.48-3.80)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.83 (at 3.76Å)	Xtriage
Refinement program	BUSTER 2.10.1	Depositor
R, R_{free}	0.263 , 0.277 0.271 , 0.295	Depositor DCC
R_{free} test set	978 reflections (5.18%)	wwPDB-VP
Wilson B-factor (Å ²)	147.2	Xtriage
Anisotropy	0.273	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 95.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	0.038 for -h,-l,-k 0.025 for -h,l,k 0.047 for h,-k,-l	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	7058	wwPDB-VP
Average B, all atoms (Å ²)	164.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.89% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: K, PC1, TRD

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	0.43	0/1928	0.55	0/2637
1	B	0.43	0/1860	0.54	0/2543
1	C	0.44	0/1632	0.54	0/2238
1	D	0.44	0/1715	0.54	0/2361
All	All	0.43	0/7135	0.54	0/9779

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	1880	0	1851	12	0
1	B	1815	0	1784	13	0
1	C	1591	0	1450	7	0
1	D	1673	0	1474	10	0
2	A	3	0	0	0	0
2	C	3	0	0	0	0
3	A	22	0	42	1	0
3	B	22	0	42	1	0
4	A	13	0	28	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	13	0	28	0	0
4	C	10	0	19	0	0
4	D	13	0	28	0	0
All	All	7058	0	6746	30	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 (30) 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:A:87:TYR:HE2	1:B:170:ILE:HD11	1.71	0.56
1:C:144:VAL:HG11	1:D:107:LYS:HA	1.88	0.55
1:C:107:LYS:HA	1:D:144:VAL:HG11	1.90	0.54
1:B:211:LEU:HD13	1:B:315:TYR:HA	1.90	0.53
1:A:170:ILE:HD11	1:B:87:TYR:HE2	1.73	0.53
1:B:263:ILE:HG21	1:B:301:TYR:CE1	2.44	0.53
1:A:330:LEU:HD13	3:A:605:PC1:H3I2	1.91	0.52
1:C:190:ILE:HG23	1:D:276:VAL:HG21	1.96	0.48
1:C:211:LEU:HA	1:C:214:ILE:HD12	1.97	0.47
1:B:237:ARG:HH11	3:B:801:PC1:H3H2	1.79	0.46
1:B:170:ILE:HG23	1:B:200:PHE:HB2	1.97	0.46
1:C:170:ILE:HG23	1:C:200:PHE:HB2	1.97	0.46
1:A:73:LYS:O	1:A:77:VAL:HG23	2.17	0.45
1:A:170:ILE:HG23	1:A:200:PHE:HB2	1.99	0.45
1:D:275:VAL:HG13	1:D:308:TRP:HZ2	1.80	0.45
1:B:211:LEU:HA	1:B:214:ILE:HD12	1.99	0.45
1:B:73:LYS:O	1:B:77:VAL:HG23	2.17	0.44
1:D:73:LYS:O	1:D:77:VAL:HG23	2.18	0.44
1:D:170:ILE:HG23	1:D:200:PHE:HB2	1.99	0.43
1:D:309:ILE:O	1:D:313:LEU:HB2	2.19	0.43
1:C:87:TYR:HE2	1:D:170:ILE:HD11	1.85	0.42
1:A:144:VAL:HG11	1:B:107:LYS:HA	2.00	0.42
1:A:233:GLN:HA	1:A:236:ILE:HD12	2.02	0.42
1:A:276:VAL:HG21	1:B:190:ILE:HG23	2.02	0.42
1:C:146:PRO:HG2	1:D:137:LEU:HD11	2.02	0.41
1:A:253:VAL:HA	1:A:275:VAL:HG11	2.03	0.41
1:A:282:VAL:HG22	1:B:172:THR:HA	2.02	0.41
1:D:253:VAL:HA	1:D:275:VAL:HG11	2.03	0.41
1:A:107:LYS:HA	1:B:144:VAL:HG11	2.03	0.40
1:A:284:PHE:HZ	1:B:169:VAL:HG22	1.86	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	A	245/282 (87%)	238 (97%)	7 (3%)	0	100	100
1	B	235/282 (83%)	227 (97%)	8 (3%)	0	100	100
1	C	216/282 (77%)	208 (96%)	8 (4%)	0	100	100
1	D	237/282 (84%)	230 (97%)	7 (3%)	0	100	100
All	All	933/1128 (83%)	903 (97%)	30 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	187/233 (80%)	186 (100%)	1 (0%)	88	94
1	B	180/233 (77%)	179 (99%)	1 (1%)	86	92
1	C	142/233 (61%)	142 (100%)	0	100	100
1	D	139/233 (60%)	138 (99%)	1 (1%)	84	91
All	All	648/932 (70%)	645 (100%)	3 (0%)	88	94

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	304	LEU
1	B	304	LEU
1	D	313	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 14 ligands modelled in this entry, 6 are monoatomic - leaving 8 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	$\# Z > 2$
4	TRD	B	802	-	12,12,12	0.35	0	11,11,11	0.16	0
4	TRD	C	604	-	9,9,12	0.18	0	8,8,11	0.19	0
3	PC1	B	803	-	10,10,53	0.20	0	9,9,61	0.13	0
4	TRD	A	606	-	12,12,12	0.31	0	11,11,11	0.10	0
3	PC1	A	605	-	10,10,53	0.16	0	9,9,61	0.15	0
3	PC1	A	604	-	10,10,53	0.21	0	9,9,61	0.13	0
3	PC1	B	801	-	10,10,53	0.19	0	9,9,61	0.19	0
4	TRD	D	401	-	12,12,12	0.22	0	11,11,11	0.16	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
4	TRD	B	802	-	-	4/10/10/10	-
4	TRD	C	604	-	-	0/7/7/10	-
3	PC1	B	803	-	-	0/8/8/57	-
4	TRD	A	606	-	-	3/10/10/10	-
3	PC1	A	605	-	-	0/8/8/57	-
3	PC1	A	604	-	-	0/8/8/57	-
3	PC1	B	801	-	-	0/8/8/57	-
4	TRD	D	401	-	-	2/10/10/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	D	401	TRD	C11-C10-C9-C8
4	B	802	TRD	C11-C10-C9-C8
4	B	802	TRD	C2-C3-C4-C5
4	B	802	TRD	C7-C8-C9-C10
4	A	606	TRD	C9-C10-C11-C12
4	A	606	TRD	C3-C4-C5-C6
4	D	401	TRD	C9-C10-C11-C12
4	B	802	TRD	C9-C10-C11-C12
4	A	606	TRD	C4-C5-C6-C7

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	605	PC1	1	0
3	B	801	PC1	1	0

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(Å ²)	Q<0.9
1	A	251/282 (89%)	-0.23	3 (1%) 79 72	97, 139, 179, 209	0
1	B	243/282 (86%)	-0.25	3 (1%) 79 72	94, 137, 172, 203	0
1	C	224/282 (79%)	-0.03	15 (6%) 17 14	133, 200, 241, 262	0
1	D	243/282 (86%)	-0.15	12 (4%) 29 25	125, 203, 251, 263	0
All	All	961/1128 (85%)	-0.17	33 (3%) 45 37	94, 159, 234, 263	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	324	GLY	7.6
1	C	327	LEU	6.4
1	C	325	ASP	6.1
1	D	323	ILE	5.6
1	D	324	GLY	4.8
1	C	159	LEU	4.2
1	D	325	ASP	4.0
1	D	289	ALA	3.9
1	C	323	ILE	3.8
1	D	184	GLY	3.7
1	C	162	ALA	3.7
1	C	301	TYR	3.5
1	C	160	GLY	3.4
1	D	95	PHE	3.3
1	D	321	SER	3.3
1	C	165	PHE	3.2
1	B	146	PRO	3.0
1	B	226	PHE	3.0
1	C	163	PHE	2.8
1	C	161	SER	2.8
1	D	328	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
1	D	183	GLU	2.7
1	A	198	PRO	2.7
1	C	254	THR	2.6
1	D	237	ARG	2.5
1	B	327	LEU	2.5
1	D	326	TRP	2.4
1	C	166	ALA	2.4
1	A	231	VAL	2.3
1	C	289	ALA	2.2
1	A	197	ILE	2.2
1	D	159	LEU	2.2
1	C	164	PHE	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 carbohydrates 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	TRD	D	401	13/13	0.53	0.34	148,153,158,158	0
4	TRD	C	604	10/13	0.59	0.36	147,148,151,151	0
2	K	C	601	1/1	0.69	0.05	186,186,186,186	0
4	TRD	A	606	13/13	0.79	0.42	78,83,93,93	0
3	PC1	B	803	11/54	0.81	0.41	115,122,131,131	0
2	K	A	602	1/1	0.84	0.05	112,112,112,112	0
3	PC1	A	604	11/54	0.85	0.38	103,105,108,108	0
4	TRD	B	802	13/13	0.87	0.49	79,84,96,96	0
3	PC1	A	605	11/54	0.87	0.30	108,109,113,113	0
3	PC1	B	801	11/54	0.88	0.27	94,99,107,107	0
2	K	C	602	1/1	0.91	0.08	144,144,144,144	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	K	A	601	1/1	0.95	0.04	132,132,132,132	0
2	K	C	603	1/1	0.98	0.10	132,132,132,132	0
2	K	A	603	1/1	0.98	0.11	88,88,88,88	0

6.5 Other polymers [i](#)

There are no such residues in this entry.