



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 12, 2017 – 11:03 PM EST

PDB ID : 5K0X
Title : Crystal structure of the catalytic domain of the proto-oncogene tyrosine-protein kinase MER in complex with inhibitor UNC2541
Authors : McIver, A.L.; Zhang, W.; Liu, Q.; Jiang, X.; Stashko, M.A.; Nichols, J.; Miley, M.J.; Norris-Drouin, J.; Machius, M.; DeRyckere, D.; Wood, E.; Graham, D.K.; Earp, H.S.; Kireev, D.; Frye, S.V.; Wang, X.
Deposited on : 2016-05-17
Resolution : 2.23 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

<http://wwpdb.org/validation/2016/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 : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20028442
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

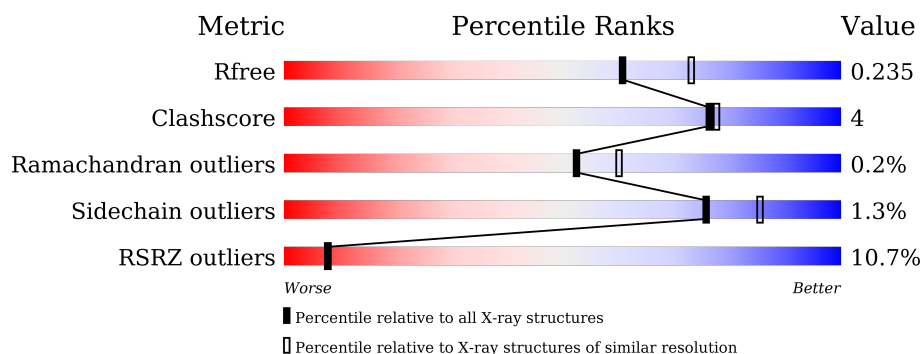
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.23 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}	91344	1611 (2.26-2.22)
Clashscore	102246	1764 (2.26-2.22)
Ramachandran outliers	100387	1724 (2.26-2.22)
Sidechain outliers	100360	1724 (2.26-2.22)
RSRZ outliers	91569	1616 (2.26-2.22)

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. 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	313	<div> <div>9%</div> <div>72%</div> <div>10%</div> <div>18%</div> </div>
1	B	313	<div> <div>8%</div> <div>74%</div> <div>6%</div> <div>19%</div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8547 atoms, of which 4234 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 Tyrosine-protein kinase Mer.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	258	Total	C	H	N	O	S	0	4	0
			4197	1339	2102	349	388	19			
1	B	254	Total	C	H	N	O	S	0	2	0
			4114	1313	2064	343	375	19			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	552	MET	-	initiating methionine	UNP Q12866
A	553	GLY	-	expression tag	UNP Q12866
A	554	SER	-	expression tag	UNP Q12866
A	555	SER	-	expression tag	UNP Q12866
A	556	HIS	-	expression tag	UNP Q12866
A	557	HIS	-	expression tag	UNP Q12866
A	558	HIS	-	expression tag	UNP Q12866
A	559	HIS	-	expression tag	UNP Q12866
A	560	HIS	-	expression tag	UNP Q12866
A	561	HIS	-	expression tag	UNP Q12866
A	562	SER	-	expression tag	UNP Q12866
A	563	SER	-	expression tag	UNP Q12866
A	564	GLY	-	expression tag	UNP Q12866
A	565	LEU	-	expression tag	UNP Q12866
A	566	VAL	-	expression tag	UNP Q12866
A	567	PRO	-	expression tag	UNP Q12866
A	568	ARG	-	expression tag	UNP Q12866
A	569	GLY	-	expression tag	UNP Q12866
B	552	MET	-	initiating methionine	UNP Q12866
B	553	GLY	-	expression tag	UNP Q12866
B	554	SER	-	expression tag	UNP Q12866
B	555	SER	-	expression tag	UNP Q12866
B	556	HIS	-	expression tag	UNP Q12866
B	557	HIS	-	expression tag	UNP Q12866
B	558	HIS	-	expression tag	UNP Q12866

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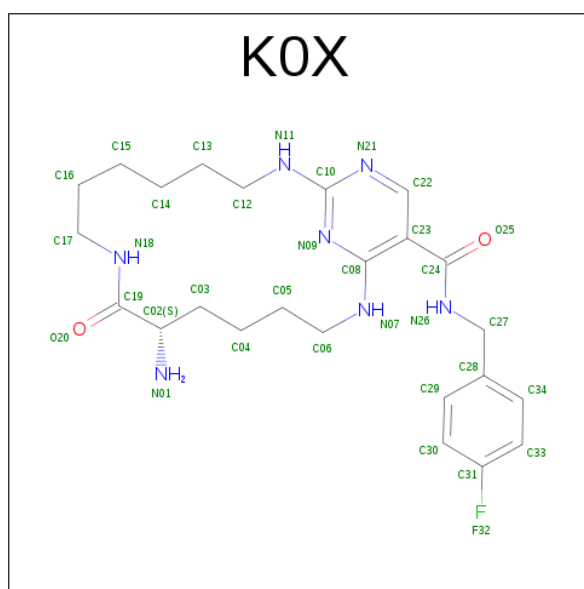
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Chain	Residue	Modelled	Actual	Comment	Reference
B	559	HIS	-	expression tag	UNP Q12866
B	560	HIS	-	expression tag	UNP Q12866
B	561	HIS	-	expression tag	UNP Q12866
B	562	SER	-	expression tag	UNP Q12866
B	563	SER	-	expression tag	UNP Q12866
B	564	GLY	-	expression tag	UNP Q12866
B	565	LEU	-	expression tag	UNP Q12866
B	566	VAL	-	expression tag	UNP Q12866
B	567	PRO	-	expression tag	UNP Q12866
B	568	ARG	-	expression tag	UNP Q12866
B	569	GLY	-	expression tag	UNP Q12866

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	2	Total Cl 2 2	0	0
2	A	3	Total Cl 3 3	0	0

- Molecule 3 is (7S)-7-amino-N-[(4-fluorophenyl)methyl]-8-oxo-2,9,16,18,21-pentaazabicyclo[15.3.1]henicosa-1(21),17,19-triene-20-carboxamide (three-letter code: K0X) (formula: C₂₄H₃₄FN₇O₂).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	F	H	N	O	0	0
			68	24	1	34	7	2		
3	B	1	Total	C	F	H	N	O	0	0
			68	24	1	34	7	2		

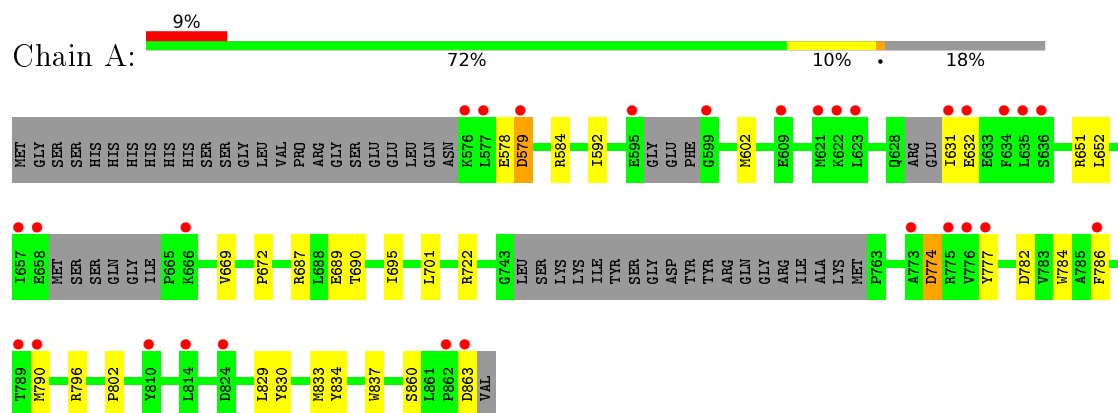
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	50	Total	O	0	0
			50	50		
4	B	45	Total	O	0	0
			45	45		

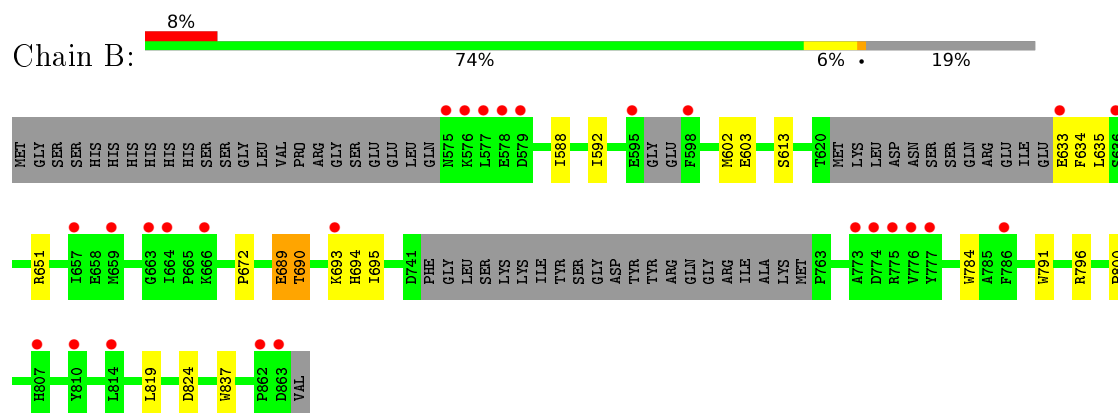
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Tyrosine-protein kinase Mer



• Molecule 1: Tyrosine-protein kinase Mer



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	51.67Å 91.60Å 69.77Å 90.00° 102.37° 90.00°	Depositor
Resolution (Å)	27.86 – 2.23 27.86 – 2.23	Depositor EDS
% Data completeness (in resolution range)	85.0 (27.86-2.23) 80.8 (27.86-2.23)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.39 (at 2.24Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.185 , 0.239 0.183 , 0.235	Depositor DCC
R_{free} test set	1897 reflections (7.58%)	DCC
Wilson B-factor (Å ²)	27.7	Xtriage
Anisotropy	0.324	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 60.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8547	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.15% 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: K0X, 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	0.67	1/2144 (0.0%)	0.75	2/2894 (0.1%)
1	B	0.62	0/2100	0.69	0/2837
All	All	0.65	1/4244 (0.0%)	0.72	2/5731 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	578	GLU	CA-CB	-5.29	1.42	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	687	ARG	NE-CZ-NH1	-9.80	115.40	120.30
1	A	782	ASP	CB-CG-OD1	5.91	123.62	118.30

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	2095	2102	2088	17	0
1	B	2050	2064	2052	15	0
2	A	3	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	2	0	0	0	0
3	A	34	34	0	0	0
3	B	34	34	0	0	0
4	A	50	0	0	1	0
4	B	45	0	0	1	0
All	All	4313	4234	4140	32	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 4.

All (32) 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:584:ARG:NH2	2:A:901:CL:CL	2.55	0.71
1:A:774:ASP:N	1:A:774:ASP:OD1	2.24	0.69
1:B:695:ILE:O	1:B:796:ARG:NH2	2.32	0.57
1:B:592:ILE:HD13	1:B:602:MET:SD	2.48	0.54
1:B:824:ASP:N	1:B:824:ASP:OD1	2.41	0.52
1:A:631:ILE:HG23	1:A:632:GLU:H	1.76	0.50
1:A:592:ILE:CD1	1:A:602:MET:HG2	2.42	0.49
1:A:701:LEU:HD21	1:A:829:LEU:HD13	1.94	0.48
1:A:786:PHE:CE2	1:A:790:MET:SD	3.06	0.48
1:B:651:ARG:O	1:B:672:PRO:HD3	2.14	0.48
1:A:652:LEU:HD11	1:A:669:VAL:HG13	1.99	0.45
1:A:579:ASP:OD1	1:A:579:ASP:N	2.50	0.45
1:B:588:ILE:CD1	4:B:1041:HOH:O	2.64	0.45
1:B:784:TRP:CE3	1:B:837:TRP:HA	2.53	0.44
1:A:651:ARG:O	1:A:672:PRO:HD3	2.17	0.44
1:B:635:LEU:N	1:B:635:LEU:HD12	2.33	0.44
1:B:633:GLU:HG2	1:B:634:PHE:H	1.83	0.44
1:A:802:PRO:HD2	2:A:902:CL:CL	2.56	0.43
1:B:603:GLU:HG3	1:B:603:GLU:O	2.18	0.43
1:B:592:ILE:CD1	1:B:602:MET:SD	3.07	0.42
1:B:689:GLU:O	1:B:690:THR:HG23	2.19	0.42
1:B:693:LYS:O	1:B:694:HIS:C	2.57	0.42
1:A:834:TYR:HA	1:A:837:TRP:CE3	2.54	0.41
1:A:784:TRP:CE3	1:A:837:TRP:HA	2.56	0.41
1:A:830:TYR:HA	1:A:833:MET:HG2	2.03	0.41
1:A:722:ARG:NH2	1:A:777:TYR:CD2	2.89	0.41
1:B:791:TRP:CZ3	1:B:800:PRO:HA	2.55	0.41
1:A:777:TYR:HD1	4:A:1015:HOH:O	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:689:GLU:O	1:B:690:THR:CB	2.68	0.41
1:A:689:GLU:O	1:A:690:THR:CB	2.69	0.40
1:A:695:ILE:O	1:A:796:ARG:NH2	2.46	0.40
1:B:800:PRO:HB3	1:B:819:LEU:HD21	2.02	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	252/313 (80%)	236 (94%)	16 (6%)	0	100	100
1	B	248/313 (79%)	240 (97%)	7 (3%)	1 (0%)	39	42
All	All	500/626 (80%)	476 (95%)	23 (5%)	1 (0%)	52	60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	690	THR

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	237/280 (85%)	233 (98%)	4 (2%)	68	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	231/280 (82%)	229 (99%)	2 (1%)	84	90
All	All	468/560 (84%)	462 (99%)	6 (1%)	76	85

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	579	ASP
1	A	774	ASP
1	A	860	SER
1	A	863	ASP
1	B	613	SER
1	B	689	GLU

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

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 5 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
3	K0X	A	904	-	36,36,36	3.05	11 (30%)	39,46,46	4.00	10 (25%)
3	K0X	B	903	-	36,36,36	3.01	10 (27%)	39,46,46	3.28	6 (15%)

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
3	K0X	A	904	-	-	0/32/32/32	0/1/3/3
3	K0X	B	903	-	-	0/32/32/32	0/1/3/3

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	903	K0X	C08-N09	-3.71	1.27	1.34
3	A	904	K0X	C08-N09	-3.07	1.29	1.34
3	B	903	K0X	C23-C08	-3.02	1.38	1.42
3	B	903	K0X	O25-C24	-2.19	1.18	1.23
3	A	904	K0X	O25-C24	-2.03	1.19	1.23
3	A	904	K0X	C22-C23	2.07	1.44	1.40
3	A	904	K0X	C10-N21	2.59	1.38	1.34
3	A	904	K0X	C27-C28	2.79	1.57	1.51
3	A	904	K0X	C23-C24	2.79	1.56	1.50
3	B	903	K0X	C23-C24	2.85	1.56	1.50
3	A	904	K0X	C22-N21	3.08	1.40	1.34
3	B	903	K0X	C27-C28	3.15	1.58	1.51
3	B	903	K0X	C22-N21	4.26	1.43	1.34
3	A	904	K0X	C19-N18	6.08	1.46	1.33
3	B	903	K0X	C19-N18	6.44	1.47	1.33
3	A	904	K0X	C24-N26	6.45	1.47	1.33
3	B	903	K0X	C24-N26	6.60	1.48	1.33
3	B	903	K0X	C10-N11	7.24	1.46	1.34
3	A	904	K0X	C10-N11	8.95	1.48	1.34
3	B	903	K0X	C08-N07	9.60	1.49	1.34
3	A	904	K0X	C08-N07	9.69	1.49	1.34

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	904	K0X	N21-C10-N09	-16.29	109.31	126.66
3	A	904	K0X	C23-C22-N21	-13.53	105.65	124.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	903	K0X	N21-C10-N09	-12.38	113.48	126.66
3	B	903	K0X	C23-C22-N21	-11.56	108.39	124.41
3	A	904	K0X	O20-C19-N18	-3.14	116.80	123.04
3	A	904	K0X	C30-C31-C33	-2.78	118.82	122.87
3	B	903	K0X	C30-C31-C33	-2.24	119.61	122.87
3	A	904	K0X	C08-C23-C24	-2.20	119.62	121.67
3	A	904	K0X	C17-N18-C19	-2.16	118.30	122.62
3	A	904	K0X	O25-C24-N26	-2.12	118.10	122.52
3	B	903	K0X	N11-C10-N09	2.36	121.78	117.24
3	A	904	K0X	C29-C30-C31	2.78	121.30	118.34
3	A	904	K0X	C22-N21-C10	2.84	121.38	115.95
3	B	903	K0X	C22-N21-C10	4.02	123.62	115.95
3	B	903	K0X	C22-C23-C08	8.74	123.23	114.52
3	A	904	K0X	C22-C23-C08	9.84	124.33	114.52

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	258/313 (82%)	0.55	29 (11%) 7 7	18, 39, 91, 129	0
1	B	254/313 (81%)	0.53	26 (10%) 9 9	17, 39, 85, 101	0
All	All	512/626 (81%)	0.54	55 (10%) 8 8	17, 39, 89, 129	0

All (55) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	631	ILE	8.3
1	A	775	ARG	6.9
1	B	577	LEU	5.8
1	B	598	PHE	5.7
1	A	595	GLU	5.0
1	B	863	ASP	4.7
1	B	657	ILE	4.6
1	B	777	TYR	4.5
1	B	664	ILE	4.3
1	A	814	LEU	4.2
1	B	814	LEU	4.1
1	B	636	SER	3.9
1	B	776	VAL	3.7
1	B	659	MET	3.7
1	A	632	GLU	3.6
1	A	863	ASP	3.6
1	B	663	GLY	3.5
1	B	773	ALA	3.2
1	B	595	GLU	3.1
1	B	666	LYS	3.1
1	A	636	SER	3.0
1	A	824	ASP	3.0
1	A	577	LEU	2.9
1	A	862	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	575	ASN	2.8
1	B	810	TYR	2.8
1	A	776	VAL	2.7
1	B	775	ARG	2.7
1	A	810	TYR	2.7
1	A	657	ILE	2.6
1	A	789	THR	2.6
1	B	774	ASP	2.5
1	A	609	GLU	2.5
1	A	622	LYS	2.5
1	A	599	GLY	2.5
1	A	658	GLU	2.5
1	A	773	ALA	2.4
1	B	807	HIS	2.4
1	B	693	LYS	2.4
1	A	579	ASP	2.4
1	A	666	LYS	2.3
1	A	623	LEU	2.3
1	B	786	PHE	2.3
1	A	777	TYR	2.3
1	A	576	LYS	2.3
1	A	786	PHE	2.2
1	B	576	LYS	2.2
1	B	578	GLU	2.2
1	A	635	LEU	2.2
1	A	621	MET	2.2
1	A	790	MET	2.1
1	B	579	ASP	2.1
1	A	634	PHE	2.1
1	B	862	PRO	2.1
1	B	633	GLU	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	K0X	A	904	34/34	0.93	0.16	-0.06	19,49,72,83	0
3	K0X	B	903	34/34	0.94	0.14	-0.31	23,50,72,86	0
2	CL	A	903	1/1	0.98	0.15	-0.42	33,33,33,33	0
2	CL	A	902	1/1	0.99	0.10	-1.25	25,25,25,25	0
2	CL	B	902	1/1	0.95	0.07	-2.06	51,51,51,51	0
2	CL	B	901	1/1	0.99	0.06	-3.39	24,24,24,24	0
2	CL	A	901	1/1	0.94	0.07	-	51,51,51,51	0

6.5 Other polymers

There are no such residues in this entry.