



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2018 – 08:19 pm GMT

PDB ID : 3TCP
Title : Crystal structure of the catalytic domain of the proto-oncogene tyrosine-protein kinase MER in complex with inhibitor UNC569
Authors : Liu, J.; Yang, C.; Simpson, C.; DeRyckere, D.; Van Deusen, A.; Miley, M.; Kireev, D.B.; Norris-Drouin, J.; Sather, S.; Hunter, D.; Patel, H.S.; Janzen, W.P.; Machius, M.; Johnson, G.; Earp, H.S.; Graham, D.K.; Frye, S.; Wang, X.
Deposited on : 2011-08-09
Resolution : 2.69 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 : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk30967
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30967

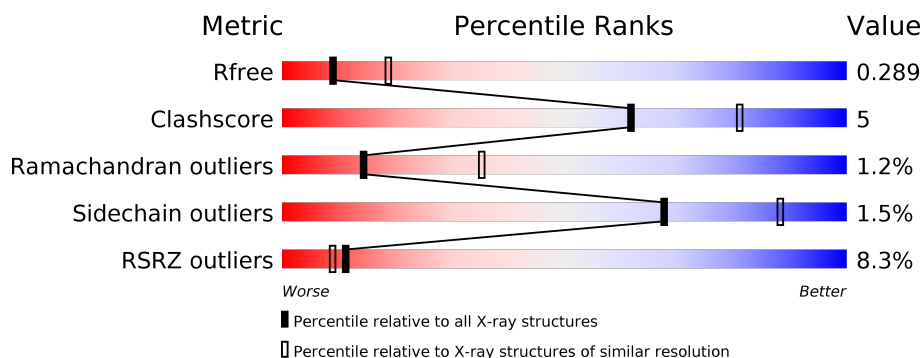
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.69 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}	111664	2449 (2.70-2.70)
Clashscore	122126	2756 (2.70-2.70)
Ramachandran outliers	120053	2716 (2.70-2.70)
Sidechain outliers	120020	2716 (2.70-2.70)
RSRZ outliers	108989	2376 (2.70-2.70)

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	
1	B	313	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4159 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 Tyrosine-protein kinase Mer.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	256	Total	C	N	O	S	0	0	0
			2063	1322	343	379	19			
1	B	250	Total	C	N	O	S	0	0	0
			1996	1280	335	361	20			

There are 36 discrepancies between the modelled and reference sequences:

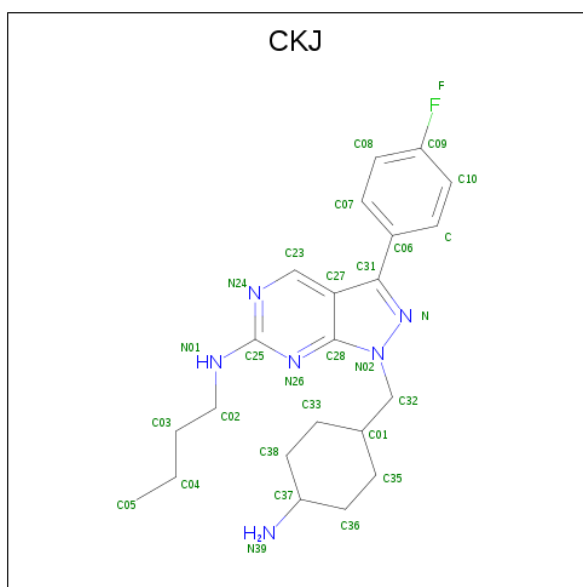
Chain	Residue	Modelled	Actual	Comment	Reference
A	552	MET	-	EXPRESSION TAG	UNP Q12866
A	553	GLY	-	EXPRESSION TAG	UNP Q12866
A	554	SER	-	EXPRESSION TAG	UNP Q12866
A	555	SER	-	EXPRESSION TAG	UNP Q12866
A	556	HIS	-	EXPRESSION TAG	UNP Q12866
A	557	HIS	-	EXPRESSION TAG	UNP Q12866
A	558	HIS	-	EXPRESSION TAG	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	-	EXPRESSION TAG	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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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 1-[(trans-4-aminocyclohexyl)methyl]-N-butyl-3-(4-fluorophenyl)-1H-pyrazolo[3,4-d]pyrimidin-6-amine (three-letter code: CKJ) (formula: C₂₂H₂₉FN₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	F	N	0	0
			29	22	1	6		
2	B	1	Total	C	F	N	0	0
			29	22	1	6		

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Ca	0	0
			1	1		
4	A	2	Total	Ca	0	0
			2	2		

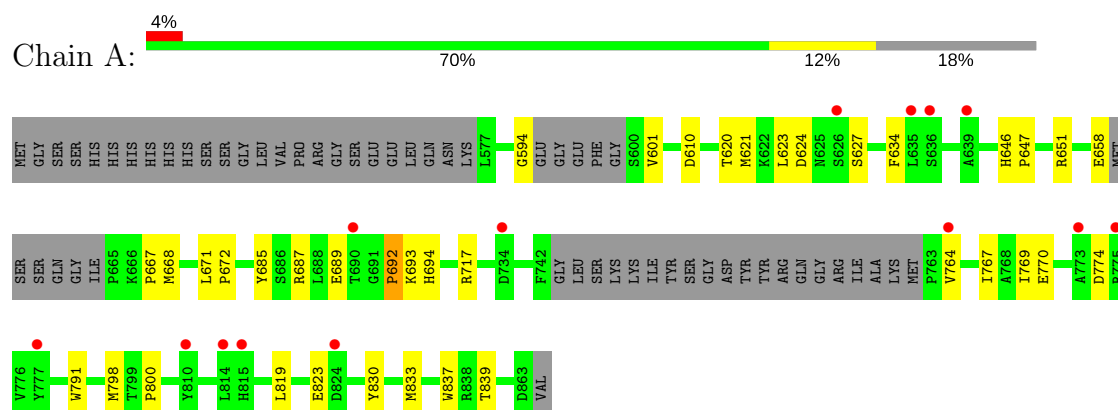
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	17	Total	O	0	0
			17	17		
5	B	19	Total	O	0	0
			19	19		

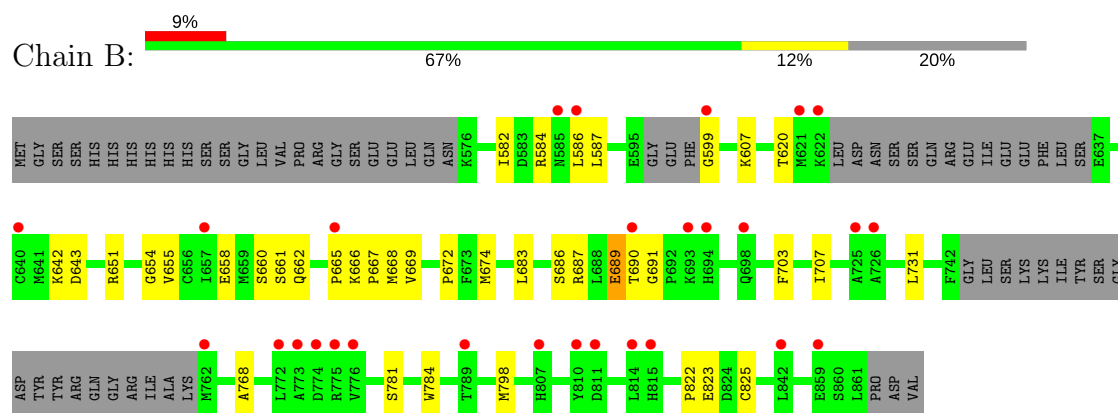
3 Residue-property plots

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: 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	51.16Å 91.14Å 68.36Å 90.00° 100.35° 90.00°	Depositor
Resolution (Å)	29.02 – 2.69 29.02 – 2.69	Depositor EDS
% Data completeness (in resolution range)	95.9 (29.02-2.69) 96.0 (29.02-2.69)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.87 (at 2.68Å)	Xtriage
Refinement program	REFMAC 5.5.0110	Depositor
R, R_{free}	0.225 , 0.298 0.223 , 0.289	Depositor DCC
R_{free} test set	840 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	51.3	Xtriage
Anisotropy	0.801	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 48.1	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	0.93	EDS
Total number of atoms	4159	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.14% 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: CA, CL, CKJ

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	0.40	0/2105	0.53	0/2844
1	B	0.39	0/2036	0.52	0/2750
All	All	0.40	0/4141	0.52	0/5594

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

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	2063	0	2073	21	0
1	B	1996	0	2009	21	0
2	A	29	0	29	1	0
2	B	29	0	29	2	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
4	A	2	0	0	0	0
4	B	1	0	0	0	0
5	A	17	0	0	0	0
5	B	19	0	0	1	0
All	All	4159	0	4140	40	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.

All (40) 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:621:MET:HG3	1:A:634:PHE:HE1	1.13	1.12
1:A:621:MET:HG3	1:A:634:PHE:CE1	2.00	0.97
1:B:703:PHE:O	1:B:707:ILE:HD12	1.84	0.77
1:B:689:GLU:O	1:B:691:GLY:N	2.31	0.63
1:B:655:VAL:HG22	1:B:669:VAL:HG12	1.84	0.58
1:B:658:GLU:HB2	1:B:666:LYS:HB2	1.87	0.57
1:B:607:LYS:NZ	5:B:32:HOH:O	2.38	0.55
1:A:620:THR:HG22	1:A:668:MET:HG2	1.88	0.55
1:A:621:MET:HB2	1:A:667:PRO:HG2	1.90	0.54
1:A:658:GLU:HG2	1:A:668:MET:HE1	1.90	0.53
1:A:769:ILE:HG13	1:A:770:GLU:N	2.24	0.52
1:B:599:GLY:HA3	1:B:620:THR:O	2.10	0.51
1:B:642:LYS:HD3	1:B:643:ASP:OD1	2.11	0.51
1:B:683:LEU:O	1:B:686:SER:OG	2.29	0.51
1:A:623:LEU:HD22	1:A:667:PRO:HG3	1.94	0.50
1:A:830:TYR:HA	1:A:833:MET:HG2	1.95	0.48
1:B:582:ILE:HD12	1:B:654:GLY:HA3	1.95	0.48
1:A:689:GLU:HG2	1:B:823:GLU:HA	1.95	0.48
1:A:693:LYS:HG2	1:A:694:HIS:N	2.29	0.47
1:A:671:LEU:HD13	2:A:1:CKJ:H04	1.95	0.46
2:B:2:CKJ:H	2:B:2:CKJ:H23	1.98	0.46
1:A:791:TRP:CZ3	1:A:800:PRO:HA	2.51	0.45
1:B:660:SER:C	1:B:662:GLN:H	2.19	0.45
1:B:651:ARG:O	1:B:672:PRO:HD3	2.17	0.45
1:B:768:ALA:HA	1:B:784:TRP:CE2	2.52	0.45
1:A:685:TYR:HB3	1:A:692:PRO:HD2	1.99	0.44
1:B:584:ARG:NH1	1:B:587:LEU:O	2.48	0.44
1:B:674:MET:HB3	1:B:731:LEU:O	2.18	0.43
1:A:819:LEU:HB2	1:A:837:TRP:CH2	2.54	0.43
1:B:665:PRO:O	1:B:667:PRO:HD3	2.18	0.43
1:A:798:MET:HG3	1:B:687:ARG:NH1	2.35	0.42
1:A:687:ARG:NH1	1:B:798:MET:HG3	2.35	0.41
1:A:764:VAL:HA	1:A:767:ILE:HD12	2.01	0.41
1:B:822:PRO:HB2	1:B:825:CYS:HB2	2.01	0.41
1:B:582:ILE:HG23	1:B:586:LEU:HD12	2.03	0.41
1:A:651:ARG:O	1:A:672:PRO:HD3	2.21	0.41
1:B:674:MET:O	2:B:2:CKJ:H23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:GLY:H	1:A:601:VAL:HG13	1.86	0.41
1:A:693:LYS:HE2	1:A:693:LYS:HB3	1.92	0.40
1:A:646:HIS:CG	1:A:647:PRO:HD2	2.56	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	248/313 (79%)	236 (95%)	9 (4%)	3 (1%)	14	35
1	B	242/313 (77%)	232 (96%)	7 (3%)	3 (1%)	14	35
All	All	490/626 (78%)	468 (96%)	16 (3%)	6 (1%)	14	35

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	823	GLU
1	B	689	GLU
1	B	690	THR
1	B	661	SER
1	A	627	SER
1	A	692	PRO

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	232/280 (83%)	227 (98%)	5 (2%)	55	83
1	B	221/280 (79%)	219 (99%)	2 (1%)	81	93
All	All	453/560 (81%)	446 (98%)	7 (2%)	67	88

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	610	ASP
1	A	624	ASP
1	A	717	ARG
1	A	774	ASP
1	A	839	THR
1	B	668	MET
1	B	781	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	608	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 8 ligands modelled in this entry, 6 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
2	CKJ	A	1	-	29,32,32	1.34	4 (13%)	34,44,44	1.85	5 (14%)
2	CKJ	B	2	-	29,32,32	1.31	3 (10%)	34,44,44	1.72	5 (14%)

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
2	CKJ	A	1	-	-	0/11/23/23	0/4/4/4
2	CKJ	B	2	-	-	0/11/23/23	0/4/4/4

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1	CKJ	C27-C28	-4.58	1.32	1.43
2	B	2	CKJ	C27-C28	-4.17	1.33	1.43
2	A	1	CKJ	C23-C27	-2.20	1.39	1.42
2	A	1	CKJ	C28-N26	2.39	1.39	1.35
2	A	1	CKJ	C31-N	2.63	1.37	1.35
2	B	2	CKJ	C31-N	2.77	1.37	1.35
2	B	2	CKJ	C28-N26	2.83	1.40	1.35

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1	CKJ	N24-C25-N26	-6.66	120.08	126.63
2	B	2	CKJ	N24-C25-N26	-6.19	120.54	126.63
2	B	2	CKJ	C10-C09-C08	-2.01	120.11	122.86
2	A	1	CKJ	C25-N26-C28	2.25	117.69	115.11
2	A	1	CKJ	N01-C25-N24	2.38	120.73	117.23
2	B	2	CKJ	C25-N26-C28	2.56	118.03	115.11
2	B	2	CKJ	C23-N24-C25	3.47	121.45	115.84
2	B	2	CKJ	C32-N02-N	3.50	123.97	117.21
2	A	1	CKJ	C23-N24-C25	3.91	122.17	115.84
2	A	1	CKJ	C32-N02-N	4.32	125.56	117.21

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1	CKJ	1	0
2	B	2	CKJ	2	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	A	256/313 (81%)	0.35	14 (5%) 25 23	37, 55, 92, 114	0
1	B	250/313 (79%)	0.49	28 (11%) 5 4	37, 54, 85, 163	0
All	All	506/626 (80%)	0.42	42 (8%) 11 9	37, 55, 91, 163	0

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	622	LYS	4.9
1	B	621	MET	4.3
1	A	639	ALA	4.3
1	A	775	ARG	3.9
1	B	775	ARG	3.5
1	A	690	THR	3.4
1	B	762	MET	3.4
1	A	810	TYR	3.3
1	A	773	ALA	3.3
1	B	690	THR	3.2
1	B	815	HIS	3.2
1	B	810	TYR	3.2
1	B	776	VAL	3.1
1	B	859	GLU	3.0
1	B	693	LYS	2.8
1	B	586	LEU	2.8
1	B	814	LEU	2.7
1	B	842	LEU	2.6
1	B	811	ASP	2.6
1	B	657	ILE	2.6
1	A	636	SER	2.6
1	B	665	PRO	2.4
1	A	815	HIS	2.4
1	A	824	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	734	ASP	2.4
1	A	635	LEU	2.3
1	B	640	CYS	2.3
1	A	777	TYR	2.3
1	A	814	LEU	2.3
1	B	773	ALA	2.3
1	B	789	THR	2.2
1	B	807	HIS	2.2
1	B	694	HIS	2.2
1	B	774	ASP	2.2
1	B	599	GLY	2.2
1	A	764	VAL	2.1
1	B	698	GLN	2.1
1	B	585	ASN	2.1
1	A	626	SER	2.1
1	B	726	ALA	2.0
1	B	725	ALA	2.0
1	B	772	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 carbohydrates 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
4	CA	A	12	1/1	0.83	0.08	82,82,82,82	0
2	CKJ	B	2	29/29	0.90	0.19	46,50,51,52	0
4	CA	B	11	1/1	0.91	0.09	71,71,71,71	0
4	CA	A	13	1/1	0.93	0.07	68,68,68,68	0
2	CKJ	A	1	29/29	0.95	0.15	42,47,48,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	CL	A	865	1/1	0.96	0.10	49,49,49,49	0
3	CL	B	865	1/1	0.97	0.18	57,57,57,57	0
3	CL	B	3	1/1	0.98	0.10	50,50,50,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.