



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 01:14 PM UTC

PDB ID : 5RW9 / pdb_00005rw9
Title : INPP5D PanDDA analysis group deposition – Crystal Structure of the phosphatase and C2 domains of SHIP1 in complex with Z203581214
Authors : Bradshaw, W.J.; Newman, J.A.; von Delft, F.; Arrowsmith, C.H.; Edwards, A.M.; Bountra, C.; Gileadi, O.
Deposited on : 2020-10-30
Resolution : 1.45 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

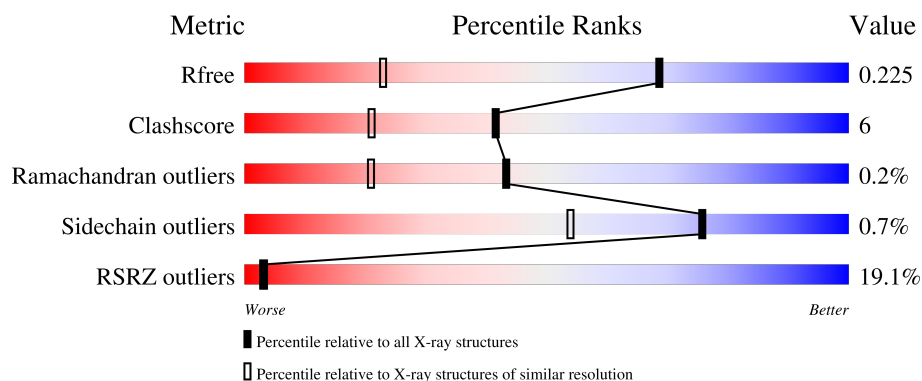
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.45 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	1756 (1.46-1.46)
Clashscore	190562	1795 (1.46-1.46)
Ramachandran outliers	187476	1776 (1.46-1.46)
Sidechain outliers	187428	1776 (1.46-1.46)
RSRZ outliers	180081	1756 (1.46-1.46)

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	463	19% 90% 9%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 4760 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.

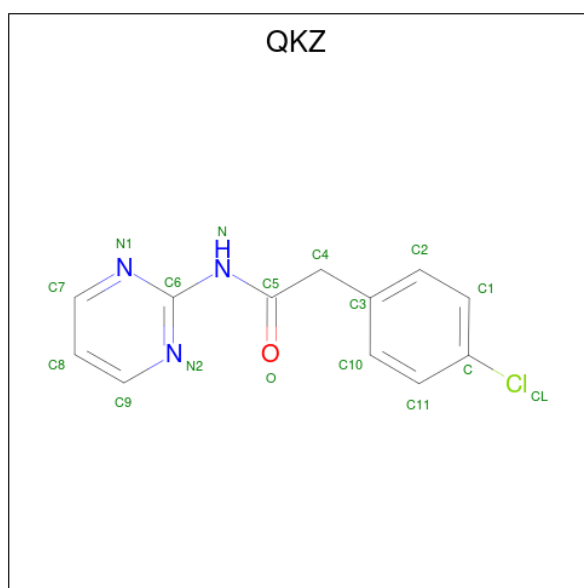
- Molecule 1 is a protein called Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	460	4286	2709	737	822	18	0	34	0

There are 2 discrepancies between the modelled and reference sequences:

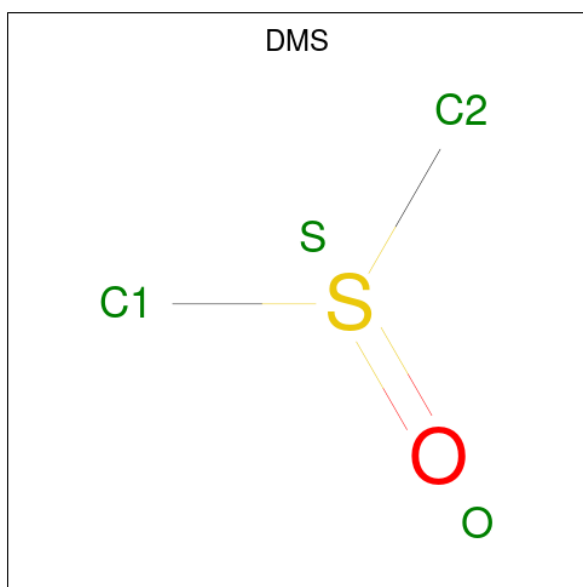
Chain	Residue	Modelled	Actual	Comment	Reference
A	394	SER	-	expression tag	UNP Q92835
A	395	MET	-	expression tag	UNP Q92835

- Molecule 2 is 2-(4-chlorophenyl)- {N}-pyrimidin-2-yl-ethanamide (CCD ID: QKZ) (formula: $C_{12}H_{10}ClN_3O$).



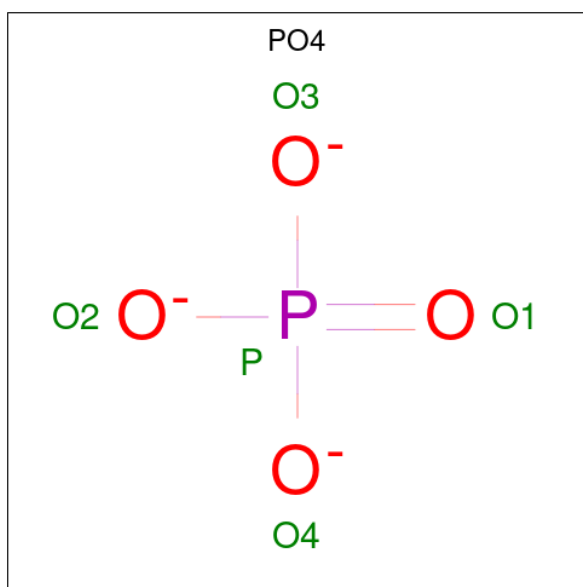
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Cl	N	O		
2	A	1	17	12	1	3	1	0	0

- Molecule 3 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C_2H_6OS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	O	S	0	0
			4	2	1	1		
3	A	1	Total	C	O	S	0	0
			4	2	1	1		
3	A	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 4 is PHOSPHATE ION (CCD ID: PO4) (formula: O_4P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	P	0	0
			5	4	1		

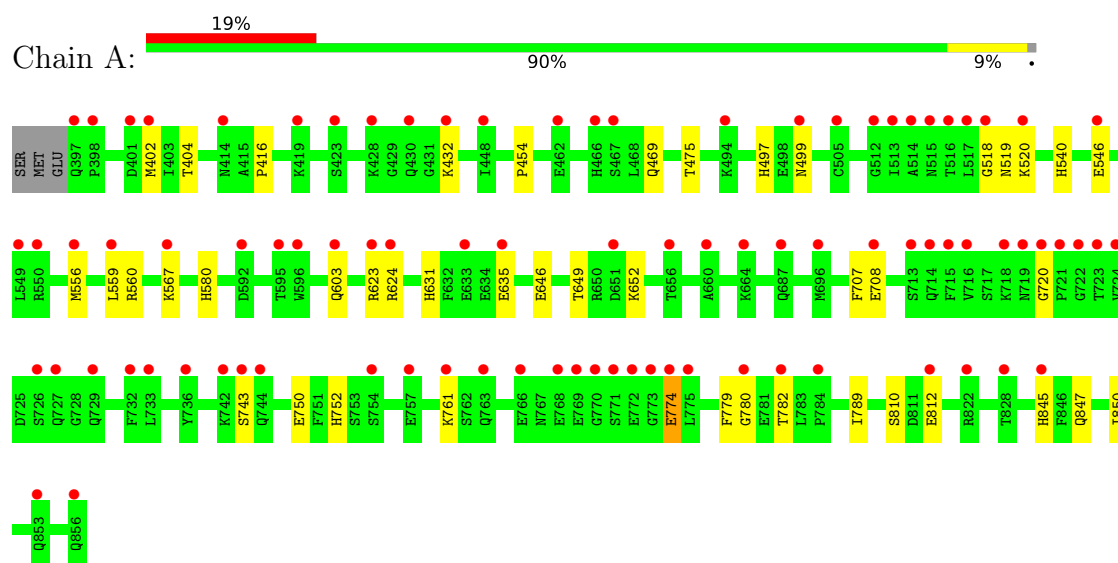
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	436	Total	O	0	9
			440	440		

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: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	62.65Å 79.30Å 89.54Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	59.37 – 1.45 59.37 – 1.45	Depositor EDS
% Data completeness (in resolution range)	99.8 (59.37-1.45) 99.8 (59.37-1.45)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.51 (at 1.45Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.173 , 0.203 0.198 , 0.225	Depositor DCC
R_{free} test set	3994 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	15.8	Xtriage
Anisotropy	0.048	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 29.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4760	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.16% 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: DMS, QKZ, PO4

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	1.00	4/4384 (0.1%)	1.09	2/5919 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	580	HIS	C-O	5.08	1.29	1.24
1	A	631	HIS	CE1-NE2	5.05	1.37	1.32
1	A	497	HIS	CE1-NE2	5.03	1.37	1.32
1	A	518	GLY	C-O	5.00	1.30	1.23

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	850	ILE	O-C-N	5.45	128.76	123.03
1	A	416	PRO	N-CA-CB	5.35	106.19	103.19

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	4286	0	4185	55	0
2	A	17	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	12	0	18	0	0
4	A	5	0	0	0	0
5	A	440	0	0	10	1
All	All	4760	0	4203	55	1

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 6.

All (55) 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:402[A]:MET:HE1	1:A:708[A]:GLU:CD	1.19	1.58
1:A:402[C]:MET:HE1	1:A:708[C]:GLU:CD	1.19	1.58
1:A:402[A]:MET:HE3	1:A:708[A]:GLU:CG	1.54	1.38
1:A:402[C]:MET:HE3	1:A:708[C]:GLU:CG	1.54	1.38
1:A:402[A]:MET:CE	1:A:708[A]:GLU:CG	2.05	1.32
1:A:402[C]:MET:CE	1:A:708[C]:GLU:CG	2.05	1.32
1:A:402[A]:MET:CE	1:A:708[A]:GLU:CD	2.02	1.30
1:A:402[C]:MET:CE	1:A:708[C]:GLU:CD	2.02	1.30
1:A:402[A]:MET:HE1	1:A:708[A]:GLU:OE2	1.34	1.24
1:A:402[C]:MET:HE1	1:A:708[C]:GLU:OE2	1.34	1.24
1:A:402[A]:MET:HE3	1:A:708[A]:GLU:HG2	1.23	1.11
1:A:402[C]:MET:HE3	1:A:708[C]:GLU:HG2	1.23	1.11
1:A:567:LYS:HD2	5:A:1175:HOH:O	1.55	1.03
1:A:402[A]:MET:CE	1:A:708[A]:GLU:HG3	1.90	1.02
1:A:402[C]:MET:CE	1:A:708[C]:GLU:HG3	1.90	1.02
1:A:402[A]:MET:HE3	1:A:708[A]:GLU:HG3	1.44	0.99
1:A:402[C]:MET:HE3	1:A:708[C]:GLU:HG3	1.44	0.99
1:A:810:SER:OG	1:A:812:GLU:HG2	1.74	0.87
1:A:774:GLU:HB3	5:A:1385:HOH:O	1.81	0.81
1:A:567:LYS:CD	5:A:1175:HOH:O	2.23	0.79
1:A:402[A]:MET:CE	1:A:708[A]:GLU:OE2	2.20	0.78
1:A:402[C]:MET:CE	1:A:708[C]:GLU:OE2	2.20	0.78
1:A:499[B]:ASN:ND2	5:A:1001:HOH:O	2.18	0.75
1:A:499[C]:ASN:ND2	5:A:1001:HOH:O	2.18	0.75
1:A:546[A]:GLU:H	1:A:546[A]:GLU:CD	1.95	0.74
1:A:546[C]:GLU:H	1:A:546[C]:GLU:CD	1.95	0.74
1:A:432[A]:LYS:HE3	1:A:635[A]:GLU:OE2	1.94	0.66
1:A:432[C]:LYS:HE3	1:A:635[C]:GLU:OE2	1.94	0.66
1:A:432[B]:LYS:HG2	5:A:1039:HOH:O	1.96	0.65
1:A:519:ASN:HD21	1:A:520[B]:LYS:HE3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:GLN:NE2	1:A:475:THR:OG1	2.32	0.62
1:A:546[A]:GLU:OE2	1:A:546[A]:GLU:N	2.34	0.59
1:A:546[C]:GLU:OE2	1:A:546[C]:GLU:N	2.34	0.59
1:A:556[C]:MET:HE3	1:A:560:ARG:HD2	1.84	0.58
1:A:603[B]:GLN:NE2	5:A:1003:HOH:O	2.31	0.54
1:A:623[B]:ARG:NE	5:A:1087[B]:HOH:O	2.41	0.54
1:A:402[A]:MET:CE	1:A:708[A]:GLU:HG2	2.01	0.53
1:A:402[C]:MET:CE	1:A:708[C]:GLU:HG2	2.01	0.53
1:A:559[B]:LEU:C	1:A:559[B]:LEU:HD12	2.33	0.53
1:A:779:PHE:O	1:A:782:THR:OG1	2.18	0.49
1:A:646:GLU:OE2	1:A:652:LYS:HD2	2.14	0.48
1:A:519:ASN:HD21	1:A:520[C]:LYS:NZ	2.11	0.48
1:A:519:ASN:HD21	1:A:520[A]:LYS:NZ	2.11	0.48
1:A:750:GLU:OE1	1:A:752:HIS:HE1	1.98	0.47
1:A:750:GLU:OE2	1:A:761[B]:LYS:NZ	2.48	0.47
1:A:810:SER:OG	1:A:812:GLU:CG	2.56	0.46
1:A:649:THR:HG23	5:A:1086:HOH:O	2.17	0.44
1:A:845:HIS:CD2	1:A:847:GLN:NE2	2.86	0.44
1:A:624[B]:ARG:NH2	5:A:1024:HOH:O	2.51	0.43
1:A:845:HIS:NE2	1:A:847:GLN:NE2	2.67	0.42
1:A:720:GLY:HA3	1:A:789:ILE:O	2.20	0.42
1:A:520[B]:LYS:HE2	1:A:540:HIS:CE1	2.55	0.41
1:A:432[A]:LYS:CE	1:A:635[A]:GLU:OE2	2.68	0.41
1:A:432[C]:LYS:CE	1:A:635[C]:GLU:OE2	2.68	0.41
1:A:404:THR:HA	1:A:707:PHE:O	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1001:HOH:O	5:A:1312:HOH:O[4_455]	2.08	0.12

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	526/463 (114%)	511 (97%)	14 (3%)	1 (0%)	43 21

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	780	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	481/417 (115%)	478 (99%)	3 (1%)	78 58

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

Mol	Chain	Res	Type
1	A	454	PRO
1	A	743	SER
1	A	774	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	469	GLN
1	A	486	ASN
1	A	519	ASN
1	A	616	HIS
1	A	752	HIS
1	A	839	HIS
1	A	847	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

5 ligands are modelled in this entry.

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	DMS	A	904	-	3,3,3	0.31	0	3,3,3	0.35	0
4	PO4	A	905	-	4,4,4	0.83	0	6,6,6	0.54	0
3	DMS	A	902	-	3,3,3	0.28	0	3,3,3	0.38	0
3	DMS	A	903	-	3,3,3	0.34	0	3,3,3	0.61	0
2	QKZ	A	901	-	18,18,18	1.90	3 (16%)	23,23,23	2.68	6 (26%)

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	QKZ	A	901	-	-	2/8/8/8	0/2/2/2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	901	QKZ	C6-N	5.16	1.45	1.38
2	A	901	QKZ	C5-N	4.76	1.45	1.35
2	A	901	QKZ	O-C5	-2.16	1.19	1.23

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	901	QKZ	C9-N2-C6	7.15	121.39	115.42
2	A	901	QKZ	C7-N1-C6	5.69	120.18	115.42
2	A	901	QKZ	N2-C6-N1	-4.95	121.41	126.43
2	A	901	QKZ	C6-N-C5	-4.84	120.87	129.24
2	A	901	QKZ	C8-C9-N2	-2.74	119.08	123.42
2	A	901	QKZ	C3-C4-C5	2.12	118.64	112.33

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	901	QKZ	N1-C6-N-C5
2	A	901	QKZ	N2-C6-N-C5

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	460/463 (99%)	0.95	88 (19%) 3 3	2, 16, 45, 80	39 (8%)

All (88) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	596[A]	TRP	12.3
1	A	448[A]	ILE	9.5
1	A	559[A]	LEU	8.7
1	A	656[A]	THR	8.2
1	A	549	LEU	8.0
1	A	505	CYS	8.0
1	A	466[A]	HIS	7.7
1	A	853[A]	GLN	7.3
1	A	556[A]	MET	7.3
1	A	761[A]	LYS	7.2
1	A	713[A]	SER	7.1
1	A	467[A]	SER	6.9
1	A	513	ILE	6.8
1	A	603[A]	GLN	6.8
1	A	423[A]	SER	6.8
1	A	595[A]	THR	6.8
1	A	664[A]	LYS	6.8
1	A	754[A]	SER	6.6
1	A	724	VAL	6.5
1	A	402[A]	MET	6.4
1	A	516	THR	6.3
1	A	499[A]	ASN	6.3
1	A	432[A]	LYS	6.3
1	A	401[A]	ASP	6.3
1	A	592[A]	ASP	6.3
1	A	546[A]	GLU	6.2
1	A	520[A]	LYS	6.1

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Mol	Chain	Res	Type	RSRZ
1	A	430[A]	GLN	6.0
1	A	635[A]	GLU	5.8
1	A	696[A]	MET	5.8
1	A	687[A]	GLN	5.7
1	A	708[A]	GLU	5.7
1	A	623[A]	ARG	5.6
1	A	428[A]	LYS	5.5
1	A	822[A]	ARG	5.5
1	A	624[A]	ARG	5.4
1	A	773	GLY	5.4
1	A	771	SER	5.4
1	A	414[A]	ASN	5.2
1	A	845	HIS	5.2
1	A	770	GLY	5.1
1	A	723	THR	5.0
1	A	462[A]	GLU	5.0
1	A	633	GLU	4.7
1	A	517	LEU	4.6
1	A	550	ARG	4.5
1	A	722	GLY	4.3
1	A	812	GLU	4.3
1	A	721	PRO	4.2
1	A	512	GLY	4.0
1	A	716	VAL	4.0
1	A	515	ASN	3.7
1	A	419	LYS	3.6
1	A	744	GLN	3.6
1	A	733	LEU	3.5
1	A	514	ALA	3.5
1	A	732	PHE	3.3
1	A	718	LYS	3.3
1	A	494[A]	LYS	3.2
1	A	715	PHE	3.1
1	A	518	GLY	3.0
1	A	782	THR	2.7
1	A	727	GLN	2.7
1	A	660	ALA	2.6
1	A	772	GLU	2.6
1	A	780	GLY	2.5
1	A	774	GLU	2.5
1	A	719	ASN	2.5
1	A	856	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	769	GLU	2.4
1	A	567	LYS	2.4
1	A	720	GLY	2.4
1	A	743	SER	2.3
1	A	775	LEU	2.3
1	A	736	TYR	2.3
1	A	828	THR	2.3
1	A	742	LYS	2.3
1	A	726	SER	2.3
1	A	398	PRO	2.2
1	A	397	GLN	2.2
1	A	729	GLN	2.2
1	A	763	GLN	2.2
1	A	784	PRO	2.2
1	A	714	GLN	2.2
1	A	766	GLU	2.2
1	A	651	ASP	2.1
1	A	757	GLU	2.0
1	A	768	GLU	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
2	QKZ	A	901	17/17	0.69	0.26	39,48,65,65	17
4	PO4	A	905	5/5	0.89	0.12	17,19,21,22	5
3	DMS	A	903	4/4	0.99	0.05	17,17,19,20	0
3	DMS	A	904	4/4	0.99	0.06	16,16,17,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	DMS	A	902	4/4	0.99	0.07	17,18,18,19	0

6.5 Other polymers [i](#)

There are no such residues in this entry.