



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2026 – 10:50 AM UTC

PDB ID : 5RXE / pdb_00005rx
Title : INPP5D PanDDA analysis group deposition – Crystal Structure of the phosphatase and C2 domains of SHIP1 in complex with Z240654968
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 : 1.25 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

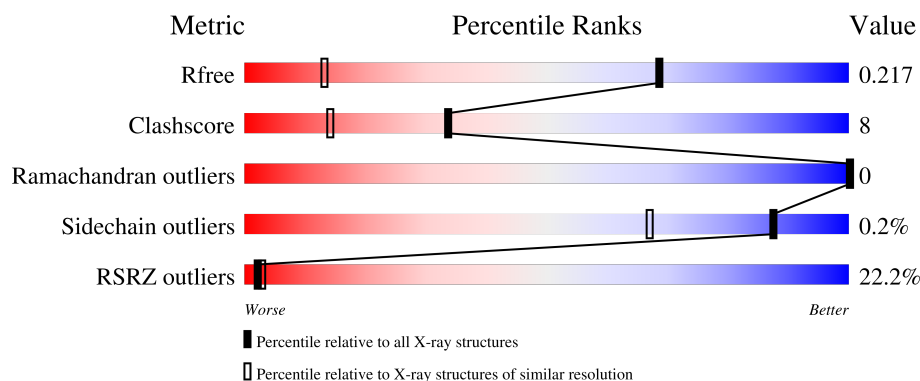
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.25 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	1693 (1.28-1.24)
Clashscore	190562	1730 (1.28-1.24)
Ramachandran outliers	187476	1695 (1.28-1.24)
Sidechain outliers	187428	1694 (1.28-1.24)
RSRZ outliers	180081	1693 (1.28-1.24)

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	22% 90% 9%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4804 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.

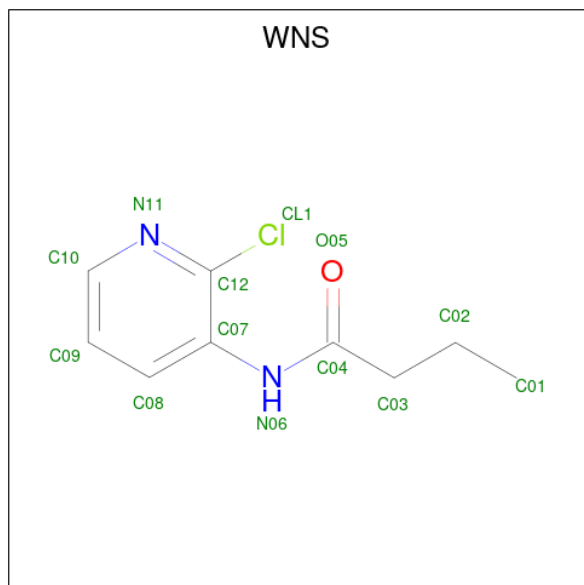
- Molecule 1 is a protein called Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	460	4338	2737	749	832	20	0	37	0

There are 2 discrepancies between the modelled and reference sequences:

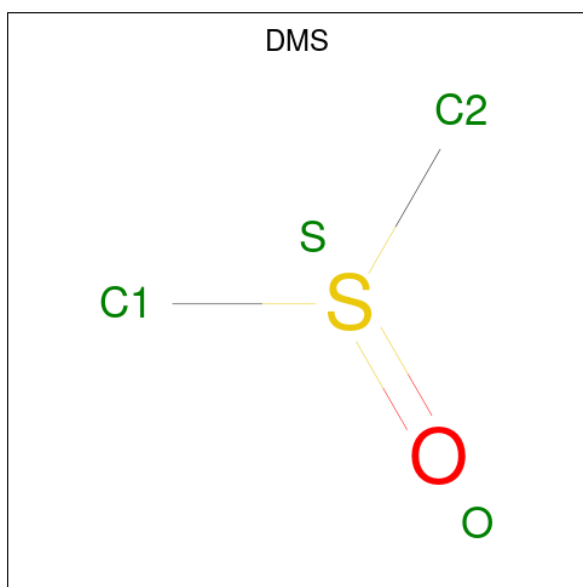
Chain	Residue	Modelled	Actual	Comment	Reference
A	394	SER	-	expression tag	UNP Q92835
A	395	MET	-	expression tag	UNP Q92835

- Molecule 2 is N-(2-chloropyridin-3-yl)butanamide (CCD ID: WNS) (formula: $C_9H_{11}ClN_2O$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Cl	N	O		
2	A	1	13	9	1	2	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		

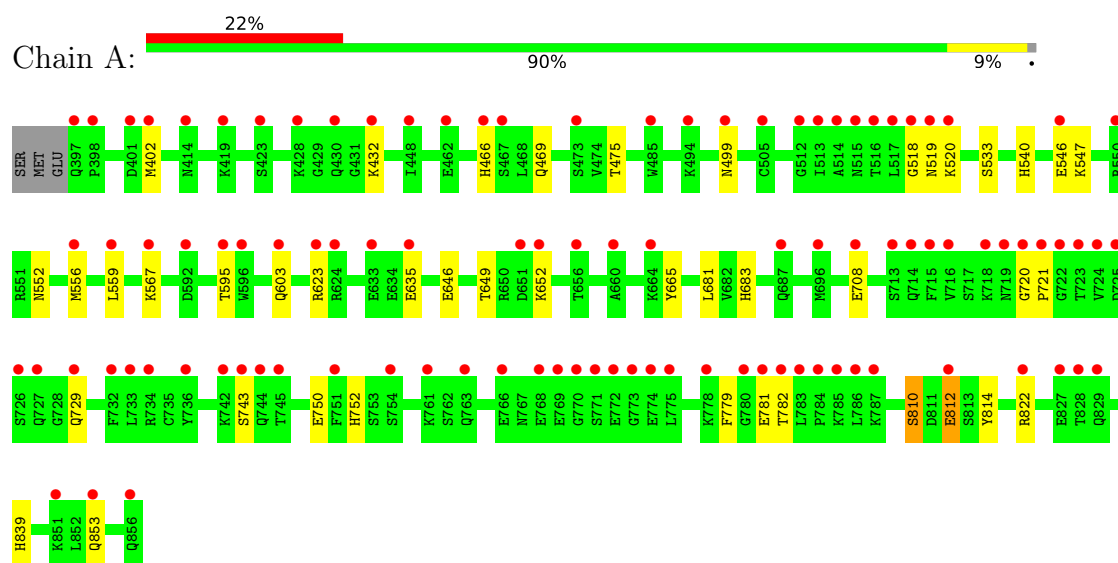
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	437	Total	O	0	9
			441	441		

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	62.24Å 78.89Å 88.92Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	59.01 – 1.25 59.01 – 1.25	Depositor EDS
% Data completeness (in resolution range)	99.9 (59.01-1.25) 99.9 (59.01-1.25)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.37 (at 1.25Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.173 , 0.192 0.197 , 0.217	Depositor DCC
R_{free} test set	6084 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	13.0	Xtriage
Anisotropy	0.038	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 27.5	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	0.96	EDS
Total number of atoms	4804	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.13% 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: WNS, DMS

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	1.01	4/4436 (0.1%)	1.06	2/5987 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	812	GLU	C-N	6.79	1.42	1.33
1	A	518	GLY	C-O	6.19	1.32	1.23
1	A	810	SER	CA-CB	-6.12	1.45	1.54
1	A	533	SER	CA-CB	-5.24	1.46	1.53

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	781	GLU	N-CA-C	-5.84	105.47	112.59
1	A	649	THR	CA-C-O	-5.56	115.28	121.51

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	4338	0	4230	67	0
2	A	13	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	441	0	0	14	1
All	All	4804	0	4248	67	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 8.

All (67) 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	1.23	1.54
1:A:402[C]:MET:HE1	1:A:708[C]:GLU:CD	1.23	1.54
1:A:402[A]:MET:CE	1:A:708[A]:GLU:CG	2.02	1.36
1:A:402[C]:MET:CE	1:A:708[C]:GLU:CG	2.02	1.36
1:A:402[A]:MET:CE	1:A:708[A]:GLU:CD	2.08	1.27
1:A:402[C]:MET:CE	1:A:708[C]:GLU:CD	2.08	1.27
1:A:402[A]:MET:HE3	1:A:708[A]:GLU:CG	1.71	1.15
1:A:402[C]:MET:HE3	1:A:708[C]:GLU:CG	1.71	1.15
1:A:567:LYS:HD2	4:A:1202:HOH:O	1.47	1.12
1:A:402[A]:MET:HE3	1:A:708[A]:GLU:HG2	1.13	1.09
1:A:402[C]:MET:HE3	1:A:708[C]:GLU:HG2	1.13	1.09
1:A:499[B]:ASN:ND2	4:A:1001:HOH:O	1.85	1.08
1:A:499[C]:ASN:ND2	4:A:1001:HOH:O	1.85	1.08
1:A:810:SER:OG	1:A:812:GLU:HG2	1.59	1.02
1:A:567:LYS:CD	4:A:1202:HOH:O	2.10	0.93
1:A:402[A]:MET:CE	1:A:708[A]:GLU:HG3	1.99	0.90
1:A:402[C]:MET:CE	1:A:708[C]:GLU:HG3	1.99	0.90
1:A:402[A]:MET:CE	1:A:708[A]:GLU:HG2	1.83	0.87
1:A:402[C]:MET:CE	1:A:708[C]:GLU:HG2	1.83	0.87
1:A:402[A]:MET:HE1	1:A:708[A]:GLU:OE2	1.75	0.84
1:A:402[C]:MET:HE1	1:A:708[C]:GLU:OE2	1.75	0.84
1:A:779:PHE:O	1:A:782:THR:OG1	1.95	0.84
1:A:469:GLN:NE2	1:A:475:THR:OG1	2.13	0.81
1:A:402[A]:MET:HE1	1:A:708[A]:GLU:CG	1.83	0.76
1:A:402[C]:MET:HE1	1:A:708[C]:GLU:CG	1.83	0.76
1:A:402[A]:MET:HE1	1:A:708[A]:GLU:OE1	1.86	0.73
1:A:402[C]:MET:HE1	1:A:708[C]:GLU:OE1	1.86	0.73
1:A:432[B]:LYS:HG2	4:A:1106:HOH:O	1.91	0.70
1:A:646:GLU:OE2	1:A:652:LYS:HD2	1.95	0.67
1:A:519:ASN:HD21	1:A:520[C]:LYS:NZ	1.97	0.63
1:A:519:ASN:HD21	1:A:520[A]:LYS:NZ	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:432[A]:LYS:HE3	1:A:635[A]:GLU:OE2	1.99	0.62
1:A:432[C]:LYS:HE3	1:A:635[C]:GLU:OE2	1.99	0.62
1:A:623[B]:ARG:NE	4:A:1103[B]:HOH:O	2.31	0.61
1:A:546[A]:GLU:H	1:A:546[A]:GLU:CD	2.11	0.59
1:A:546[C]:GLU:H	1:A:546[C]:GLU:CD	2.11	0.59
1:A:810:SER:OG	1:A:812:GLU:CG	2.44	0.59
1:A:519:ASN:HD21	1:A:520[B]:LYS:HE3	1.68	0.58
1:A:402[A]:MET:HE2	1:A:708[A]:GLU:HG3	1.81	0.58
1:A:402[C]:MET:HE2	1:A:708[C]:GLU:HG3	1.81	0.58
1:A:519:ASN:HD21	1:A:520[C]:LYS:HZ3	1.55	0.53
1:A:567:LYS:HG2	4:A:1293:HOH:O	2.09	0.53
1:A:556[C]:MET:SD	1:A:839:HIS:HB3	2.50	0.51
1:A:546[A]:GLU:OE2	4:A:1002:HOH:O	2.18	0.51
1:A:546[C]:GLU:OE2	4:A:1002:HOH:O	2.18	0.51
1:A:603[B]:GLN:NE2	4:A:1008:HOH:O	2.36	0.50
1:A:750:GLU:OE1	1:A:752:HIS:HE1	1.95	0.50
1:A:519:ASN:HD21	1:A:520[A]:LYS:HZ3	1.55	0.50
1:A:402[B]:MET:SD	1:A:683:HIS:CD2	3.06	0.49
1:A:567:LYS:HE3	4:A:1202:HOH:O	2.14	0.47
1:A:729:GLN:HG2	1:A:853[C]:GLN:HB3	1.95	0.47
1:A:729:GLN:HG2	1:A:853[A]:GLN:HB3	1.95	0.47
1:A:546[C]:GLU:HG2	1:A:547:LYS:HG3	1.97	0.47
1:A:546[A]:GLU:HG2	1:A:547:LYS:HG3	1.97	0.46
1:A:681:LEU:O	1:A:822[B]:ARG:NH2	2.48	0.46
1:A:559[B]:LEU:C	1:A:559[B]:LEU:HD12	2.41	0.45
1:A:595[B]:THR:HG21	1:A:665:TYR:CE2	2.52	0.44
1:A:466[A]:HIS:HD2	4:A:1130:HOH:O	2.00	0.43
1:A:466[C]:HIS:HD2	4:A:1130:HOH:O	2.00	0.43
1:A:810:SER:HG	1:A:812:GLU:HG2	1.77	0.42
1:A:402[A]:MET:CE	1:A:708[A]:GLU:OE2	2.48	0.42
1:A:402[C]:MET:CE	1:A:708[C]:GLU:OE2	2.48	0.42
1:A:720:GLY:HA2	1:A:721:PRO:C	2.45	0.41
1:A:752:HIS:HD2	4:A:1384:HOH:O	2.03	0.41
1:A:520[B]:LYS:HE2	1:A:540:HIS:CE1	2.55	0.41
1:A:552:ASN:O	1:A:556[B]:MET:HG2	2.20	0.41
1:A:812:GLU:HG3	1:A:814:TYR:CE1	2.56	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)
4:A:1001:HOH:O	4:A:1275:HOH:O[4_455]	2.11	0.09

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	532/463 (115%)	518 (97%)	14 (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	487/417 (117%)	486 (100%)	1 (0%)	87	67

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	743	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	469	GLN
1	A	486	ASN

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Mol	Chain	Res	Type
1	A	519	ASN
1	A	752	HIS
1	A	839	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

4 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	903	-	3,3,3	0.29	0	3,3,3	0.50	0
3	DMS	A	904	-	3,3,3	0.16	0	3,3,3	0.22	0
2	WNS	A	901	-	13,13,13	1.73	3 (23%)	14,16,16	2.05	4 (28%)
3	DMS	A	902	-	3,3,3	0.13	0	3,3,3	0.39	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
2	WNS	A	901	-	-	2/7/7/7	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	901	WNS	C04-N06	4.65	1.45	1.35
2	A	901	WNS	C07-N06	2.32	1.46	1.41
2	A	901	WNS	O05-C04	-2.20	1.18	1.23

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	901	WNS	C10-N11-C12	5.63	121.39	116.80
2	A	901	WNS	C03-C04-N06	2.61	119.14	114.59
2	A	901	WNS	C08-C07-C12	2.43	118.64	116.00
2	A	901	WNS	CL1-C12-N11	2.22	119.34	115.98

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	901	WNS	C01-C02-C03-C04
2	A	901	WNS	C02-C03-C04-O05

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%)	1.25	102 (22%) 2 3	2, 13, 38, 73	38 (8%)

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	596[A]	TRP	13.2
1	A	448[A]	ILE	11.1
1	A	513	ILE	10.6
1	A	559[A]	LEU	10.0
1	A	505[A]	CYS	9.6
1	A	656[A]	THR	9.6
1	A	556[A]	MET	8.2
1	A	516	THR	8.1
1	A	467[A]	SER	7.9
1	A	550[A]	ARG	7.7
1	A	595[A]	THR	7.7
1	A	853[A]	GLN	7.5
1	A	466[A]	HIS	7.3
1	A	499[A]	ASN	7.3
1	A	603[A]	GLN	7.3
1	A	423[A]	SER	7.2
1	A	761[A]	LYS	7.2
1	A	402[A]	MET	7.1
1	A	733	LEU	7.0
1	A	401[A]	ASP	6.9
1	A	592[A]	ASP	6.9
1	A	771	SER	6.9
1	A	713[A]	SER	6.9
1	A	512	GLY	6.8
1	A	432[A]	LYS	6.8
1	A	754[A]	SER	6.7
1	A	430[A]	GLN	6.7

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Mol	Chain	Res	Type	RSRZ
1	A	664[A]	LYS	6.7
1	A	494[A]	LYS	6.5
1	A	517	LEU	6.4
1	A	633[A]	GLU	6.4
1	A	428[A]	LYS	6.4
1	A	520[A]	LYS	6.4
1	A	696[A]	MET	6.4
1	A	822[A]	ARG	6.3
1	A	414[A]	ASN	6.3
1	A	687[A]	GLN	6.2
1	A	546[A]	GLU	6.2
1	A	624[A]	ARG	6.1
1	A	773	GLY	6.1
1	A	708[A]	GLU	5.8
1	A	732	PHE	5.7
1	A	635[A]	GLU	5.7
1	A	623[A]	ARG	5.7
1	A	724	VAL	5.5
1	A	514	ALA	5.4
1	A	515	ASN	5.1
1	A	721	PRO	4.8
1	A	462[A]	GLU	4.8
1	A	744	GLN	4.7
1	A	518	GLY	4.7
1	A	782	THR	4.6
1	A	770	GLY	4.5
1	A	723	THR	4.3
1	A	716	VAL	4.3
1	A	812	GLU	4.3
1	A	722	GLY	4.0
1	A	567	LYS	4.0
1	A	784	PRO	3.8
1	A	742	LYS	3.6
1	A	828	THR	3.5
1	A	715	PHE	3.5
1	A	734	ARG	3.4
1	A	769	GLU	3.4
1	A	718	LYS	3.4
1	A	856	GLN	3.4
1	A	736	TYR	3.3
1	A	772	GLU	3.2
1	A	720	GLY	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	419	LYS	3.1
1	A	660	ALA	3.1
1	A	781	GLU	2.9
1	A	719	ASN	2.9
1	A	743	SER	2.9
1	A	783	LEU	2.9
1	A	775	LEU	2.8
1	A	780	GLY	2.8
1	A	398	PRO	2.6
1	A	851	LYS	2.6
1	A	726	SER	2.6
1	A	729	GLN	2.6
1	A	829	GLN	2.5
1	A	725	ASP	2.5
1	A	768	GLU	2.5
1	A	778	LYS	2.4
1	A	785	LYS	2.4
1	A	727	GLN	2.4
1	A	397	GLN	2.3
1	A	763	GLN	2.3
1	A	827	GLU	2.3
1	A	519	ASN	2.3
1	A	774	GLU	2.2
1	A	485	TRP	2.2
1	A	745	THR	2.2
1	A	714	GLN	2.2
1	A	652	LYS	2.2
1	A	751	PHE	2.1
1	A	787	LYS	2.1
1	A	651	ASP	2.1
1	A	766	GLU	2.1
1	A	786	LEU	2.0
1	A	473	SER	2.0

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 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	WNS	A	901	13/13	0.63	0.28	27,28,32,34	13
3	DMS	A	902	4/4	0.99	0.06	13,13,13,14	0
3	DMS	A	903	4/4	0.99	0.06	13,14,15,16	0
3	DMS	A	904	4/4	0.99	0.06	11,12,12,13	0

6.5 Other polymers [i](#)

There are no such residues in this entry.