



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 23, 2021 – 01:34 PM GMT

PDB ID : 6RXG
Title : Crystal Structure of Bifidobacterium longum Multiple Inositol Polyphosphate Phosphatase Complex with Phosphate
Authors : Zietek, M.A.Z.; Brearley, C.A.; Hemmings, A.M.
Deposited on : 2019-06-07
Resolution : 1.71 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 : 2.16
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) : 2.16

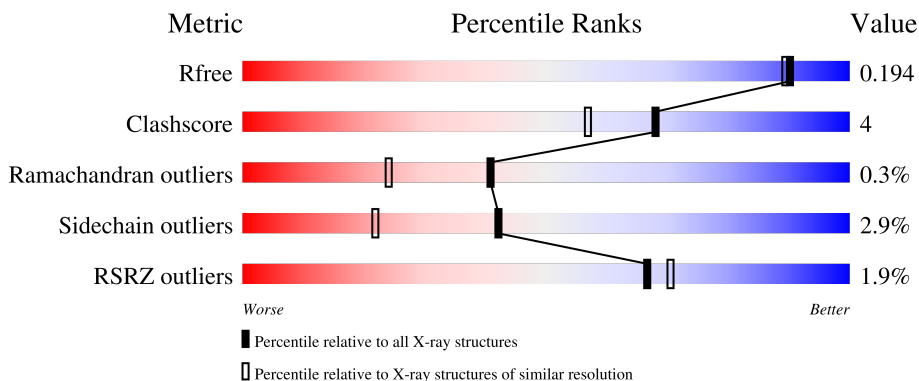
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.71 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	5722 (1.74-1.70)
Clashscore	141614	6152 (1.74-1.70)
Ramachandran outliers	138981	6051 (1.74-1.70)
Sidechain outliers	138945	6051 (1.74-1.70)
RSRZ outliers	127900	5629 (1.74-1.70)

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 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	519	 90% 7% ..
2	B	519	 91% 7% ..

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 15951 atoms, of which 7307 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 Histidine acid phosphatase.

Mol	Chain	Residues	Atoms							ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S	P			
1	A	509	7558	2429	3652	671	791	15	0	0	0	

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	expression tag	UNP B7GTV0
A	-2	SER	-	expression tag	UNP B7GTV0
A	-1	HIS	-	expression tag	UNP B7GTV0
A	0	MET	-	expression tag	UNP B7GTV0
A	1	ALA	-	expression tag	UNP B7GTV0
A	2	SER	-	expression tag	UNP B7GTV0
A	401	GLN	GLU	engineered mutation	UNP B7GTV0

- Molecule 2 is a protein called Histidine acid phosphatase.

Mol	Chain	Residues	Atoms							ZeroOcc	AltConf	Trace
			Total	C	H	N	O	P	S			
2	B	509	7568	2431	3655	671	795	1	15	0	1	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-3	GLY	-	expression tag	UNP B7GTV0
B	-2	SER	-	expression tag	UNP B7GTV0
B	-1	HIS	-	expression tag	UNP B7GTV0
B	0	MET	-	expression tag	UNP B7GTV0
B	2	SER	-	insertion	UNP B7GTV0
B	401	GLN	GLU	engineered mutation	UNP B7GTV0

- Molecule 3 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



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

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

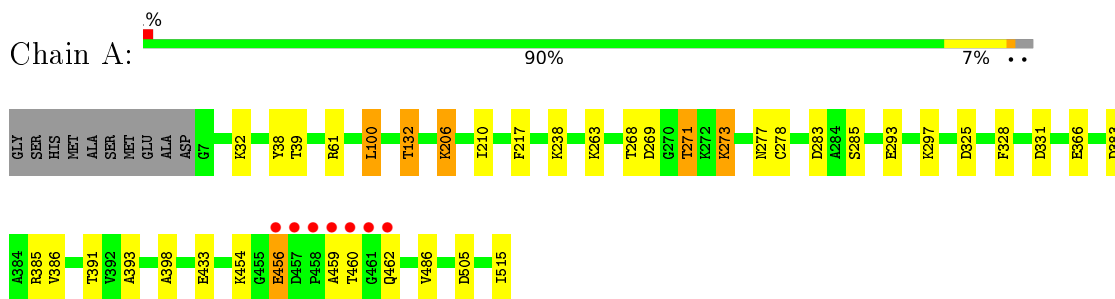
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	380	Total O 380 380	0	0
5	B	425	Total O 425 425	0	0

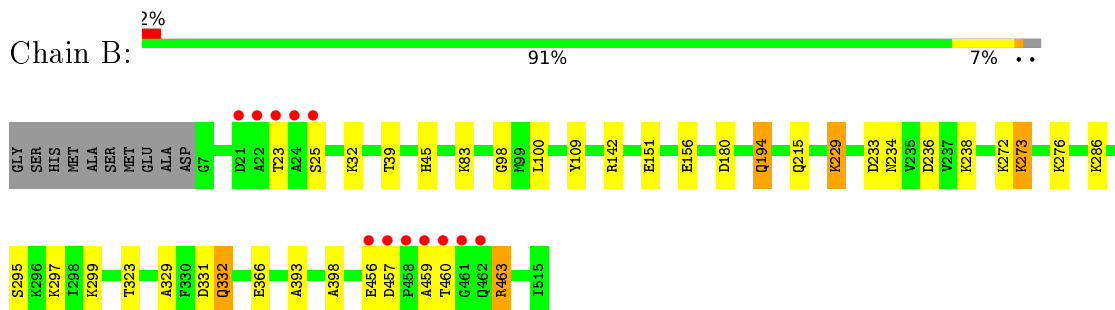
3 Residue-property plots [i](#)

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: Histidine acid phosphatase



- Molecule 2: Histidine acid phosphatase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	54.60Å 72.76Å 87.33Å 71.43° 72.21° 76.75°	Depositor
Resolution (Å)	68.23 – 1.71 68.23 – 1.71	Depositor EDS
% Data completeness (in resolution range)	95.5 (68.23-1.71) 95.5 (68.23-1.71)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.48 (at 1.71Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.147 , 0.194 0.147 , 0.194	Depositor DCC
R_{free} test set	6116 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	20.0	Xtrriage
Anisotropy	0.057	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.49 , 67.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	15951	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.87% 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: ZN, PO4, NEP

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	0/3995	0.59	1/5412 (0.0%)
2	B	0.46	0/3989	0.59	0/5402
All	All	0.44	0/7984	0.59	1/10814 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	100	LEU	CA-CB-CG	5.47	127.88	115.30

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	3906	3652	3658	27	0
2	B	3913	3655	3661	30	0
3	A	10	0	0	0	0
3	B	5	0	0	0	0
4	A	2	0	0	0	0
4	B	3	0	0	0	0
5	A	380	0	0	9	2
5	B	425	0	0	18	4

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	8644	7307	7319	57	4

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 (57) 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)
2:B:83:LYS:NZ	5:B:701:HOH:O	1.96	0.95
1:A:459:ALA:O	5:A:702:HOH:O	1.96	0.82
1:A:277:ASN:ND2	5:A:701:HOH:O	1.93	0.79
1:A:325:ASP:OD2	5:A:703:HOH:O	2.00	0.79
1:A:293:GLU:OE2	5:A:704:HOH:O	2.01	0.78
1:A:456:GLU:OE1	5:A:705:HOH:O	2.03	0.77
2:B:272:LYS:CE	5:B:705:HOH:O	2.35	0.72
2:B:276:LYS:NZ	5:B:706:HOH:O	2.22	0.69
2:B:215:GLN:HG3	5:B:735:HOH:O	1.93	0.67
2:B:463:ARG:N	5:B:709:HOH:O	2.30	0.64
2:B:456:GLU:OE1	5:B:703:HOH:O	2.15	0.64
2:B:98:GLY:O	2:B:142:ARG:NH2	2.32	0.62
2:B:272:LYS:HE3	5:B:705:HOH:O	2.00	0.61
1:A:433:GLU:OE1	5:A:706:HOH:O	2.17	0.59
1:A:293:GLU:HG3	5:A:704:HOH:O	2.03	0.58
2:B:329:ALA:O	2:B:332:GLN:HG3	2.04	0.58
2:B:299:LYS:NZ	5:B:711:HOH:O	2.38	0.56
2:B:229:LYS:HE2	2:B:233:ASP:OD1	2.08	0.53
1:A:283:ASP:OD1	1:A:285:SER:OG	2.25	0.53
2:B:39:THR:O	2:B:393:ALA:HA	2.09	0.53
1:A:269:ASP:OD1	1:A:271:THR:HG22	2.08	0.52
1:A:61:ARG:HA	1:A:61:ARG:HE	1.75	0.52
2:B:23:THR:OG1	5:B:704:HOH:O	2.17	0.50
2:B:83:LYS:NZ	5:B:702:HOH:O	2.04	0.50
1:A:206:LYS:HD3	1:A:210:ILE:CD1	2.42	0.48
1:A:206:LYS:HD3	1:A:210:ILE:HD11	1.94	0.48
1:A:132:THR:HG23	1:A:391:THR:HA	1.94	0.48
2:B:272:LYS:NZ	5:B:705:HOH:O	2.19	0.48
1:A:331:ASP:N	1:A:331:ASP:OD1	2.46	0.48
2:B:456:GLU:HG3	5:B:709:HOH:O	2.13	0.48
1:A:271:THR:HG23	1:A:273:LYS:H	1.78	0.47
2:B:456:GLU:HA	5:B:709:HOH:O	2.14	0.47
1:A:32:LYS:NZ	5:A:714:HOH:O	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:PHE:CG	1:A:366:GLU:HG2	2.50	0.47
1:A:39:THR:O	1:A:393:ALA:HA	2.15	0.47
2:B:194:GLN:CD	2:B:194:GLN:H	2.19	0.46
1:A:456:GLU:OE1	1:A:456:GLU:N	2.49	0.46
1:A:278:CYS:HB2	5:A:961:HOH:O	2.15	0.46
1:A:460:THR:HG23	1:A:462:GLN:H	1.82	0.45
2:B:457:ASP:OD1	2:B:459:ALA:N	2.50	0.45
2:B:234:ASN:OD1	2:B:236:ASP:HB2	2.16	0.45
2:B:109:TYR:OH	2:B:156:GLU:HG3	2.17	0.45
2:B:273:LYS:HG2	2:B:273:LYS:O	2.16	0.44
1:A:383:ASP:HA	1:A:386:VAL:HG22	2.00	0.43
2:B:456:GLU:CB	5:B:709:HOH:O	2.66	0.43
1:A:271:THR:CG2	1:A:273:LYS:HG3	2.50	0.42
2:B:295:SER:O	2:B:297:LYS:HE2	2.19	0.42
2:B:456:GLU:HG2	5:B:1040:HOH:O	2.20	0.42
2:B:457:ASP:HB3	2:B:460:THR:HG22	2.02	0.42
2:B:151:GLU:OE1	2:B:180:ASP:OD2	2.38	0.42
1:A:206:LYS:CD	1:A:210:ILE:HD12	2.50	0.41
2:B:25:SER:HA	5:B:1062:HOH:O	2.19	0.41
2:B:456:GLU:CD	5:B:703:HOH:O	2.58	0.41
1:A:38:TYR:HB2	1:A:385:ARG:HG2	2.02	0.41
1:A:486:VAL:HB	1:A:515:ILE:HG23	2.02	0.41
1:A:61:ARG:NH2	1:A:268:THR:O	2.54	0.40
2:B:25:SER:CB	5:B:1062:HOH:O	2.69	0.40

All (4) 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:842:HOH:O	5:B:817:HOH:O[1_556]	1.33	0.87
5:B:1027:HOH:O	5:B:1070:HOH:O[1_455]	1.78	0.42
5:B:1083:HOH:O	5:B:1116:HOH:O[1_655]	1.99	0.21
5:A:705:HOH:O	5:B:1053:HOH:O[1_456]	2.16	0.04

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	507/519 (98%)	495 (98%)	11 (2%)	1 (0%)	47	30
2	B	507/519 (98%)	496 (98%)	9 (2%)	2 (0%)	34	18
All	All	1014/1038 (98%)	991 (98%)	20 (2%)	3 (0%)	41	24

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	463	ARG
2	B	398	ALA
1	A	398	ALA

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	396/403 (98%)	384 (97%)	12 (3%)	41	21
2	B	396/402 (98%)	385 (97%)	11 (3%)	43	23
All	All	792/805 (98%)	769 (97%)	23 (3%)	42	22

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	100	LEU
1	A	132	THR
1	A	206	LYS
1	A	238	LYS
1	A	263	LYS
1	A	271	THR
1	A	273	LYS
1	A	297	LYS
1	A	328	PHE

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Mol	Chain	Res	Type
1	A	454	LYS
1	A	456	GLU
1	A	505	ASP
2	B	32	LYS
2	B	100	LEU
2	B	194	GLN
2	B	229	LYS
2	B	238	LYS
2	B	273	LYS
2	B	286	LYS
2	B	323	THR
2	B	331	ASP
2	B	332	GLN
2	B	366	GLU

Sometimes 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](#)

1 non-standard protein/DNA/RNA residue is 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	$\# Z > 2$
2	NEP	B	45	2	10,14,15	4.73	4 (40%)	5,20,22	2.31	1 (20%)

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	NEP	B	45	2	-	0/5/12/14	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	45	NEP	P-O3P	13.31	1.58	1.47
2	B	45	NEP	CD2-CG	4.59	1.43	1.36
2	B	45	NEP	P-O1P	2.97	1.61	1.54
2	B	45	NEP	P-O2P	-2.87	1.48	1.54

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	45	NEP	O1P-P-O3P	-4.29	104.16	113.44

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 5 are monoatomic - leaving 3 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	PO4	A	602	-	4,4,4	0.97	0	6,6,6	0.54	0
3	PO4	B	601	-	4,4,4	1.10	0	6,6,6	0.64	0
3	PO4	A	601	-	4,4,4	0.94	0	6,6,6	0.53	0

There are no bond length outliers.

There are no bond angle outliers.

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	509/519 (98%)	-0.28	7 (1%) 75 79	15, 23, 44, 77	3 (0%)
2	B	508/519 (97%)	-0.25	12 (2%) 59 63	14, 21, 38, 78	4 (0%)
All	All	1017/1038 (97%)	-0.27	19 (1%) 66 70	14, 22, 42, 78	7 (0%)

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	461	GLY	9.0
1	A	459	ALA	9.0
1	A	460	THR	8.5
2	B	462	GLN	7.6
2	B	459	ALA	7.2
1	A	458	PRO	6.2
2	B	461	GLY	5.9
2	B	458	PRO	5.9
2	B	460	THR	5.4
1	A	462	GLN	4.9
2	B	21	ASP	4.4
2	B	22	ALA	4.2
2	B	24	ALA	3.9
1	A	456	GLU	3.4
2	B	25	SER	3.2
2	B	457	ASP	2.5
2	B	456	GLU	2.5
1	A	457	ASP	2.1
2	B	23	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	NEP	B	45	14/15	0.92	0.11	16,22,34,41	0

6.3 Carbohydrates [i](#)

There are no monosaccharides 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
3	PO4	B	601	5/5	0.96	0.09	54,54,56,57	0
3	PO4	A	602	5/5	0.97	0.09	42,42,45,47	0
3	PO4	A	601	5/5	0.99	0.07	33,35,36,38	0
4	ZN	A	604	1/1	1.00	0.10	23,23,23,23	0
4	ZN	A	603	1/1	1.00	0.10	27,27,27,27	0
4	ZN	B	603	1/1	1.00	0.10	23,23,23,23	0
4	ZN	B	604	1/1	1.00	0.07	24,24,24,24	0
4	ZN	B	602	1/1	1.00	0.04	43,43,43,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.