



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 11, 2024 – 03:24 PM EDT

PDB ID : 8TFM
Title : PorX with Zn (primitive orthorhombic crystal form)
Authors : Saran, A.; Zeytuni, N.
Deposited on : 2023-07-11
Resolution : 2.72 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.36.1
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) : 2.36.1

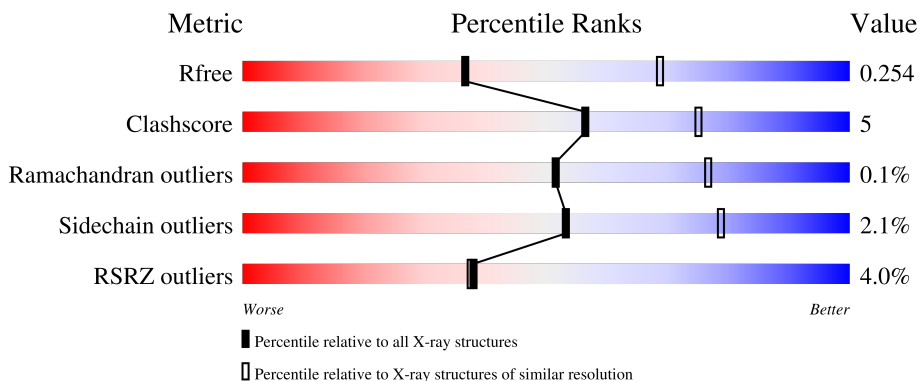
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.72 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	3359 (2.74-2.70)
Clashscore	141614	3686 (2.74-2.70)
Ramachandran outliers	138981	3622 (2.74-2.70)
Sidechain outliers	138945	3623 (2.74-2.70)
RSRZ outliers	127900	3276 (2.74-2.70)

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 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	520	 7% 79% 15% • 5%
1	B	520	 % 87% 11% ••

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 8326 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 Response regulator receiver protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	494	Total	C	N	O	S	21	1	0
			4083	2655	644	770	14			
1	B	511	Total	C	N	O	S	0	0	0
			4199	2727	664	793	15			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP A5FFU4
A	-1	SER	-	expression tag	UNP A5FFU4
A	0	HIS	-	expression tag	UNP A5FFU4
B	-2	GLY	-	expression tag	UNP A5FFU4
B	-1	SER	-	expression tag	UNP A5FFU4
B	0	HIS	-	expression tag	UNP A5FFU4

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0

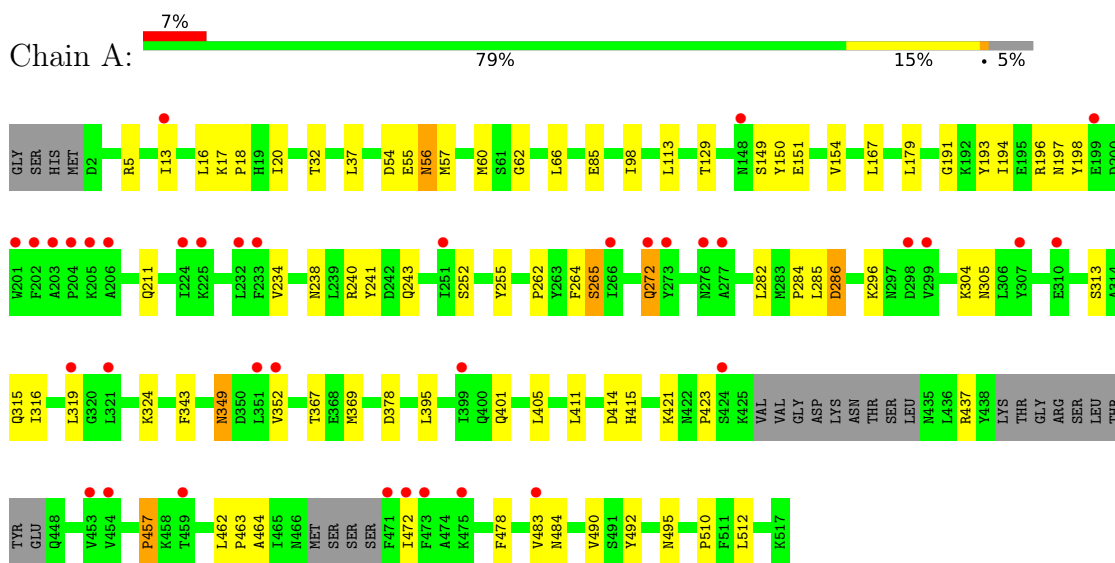
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	11	Total O 11 11	0	0
4	B	15	Total O 15 15	0	0

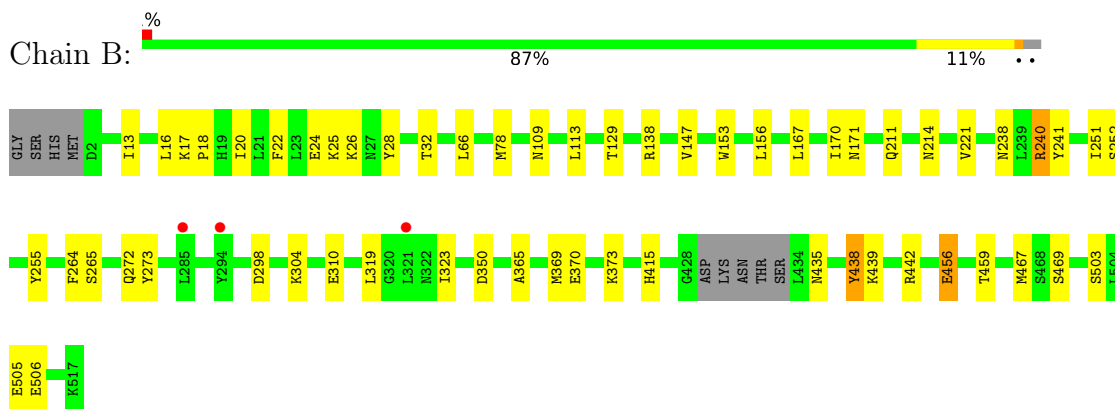
3 Residue-property plots i

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: Response regulator receiver protein



- Molecule 1: Response regulator receiver protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	86.87Å 97.06Å 132.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.58 – 2.72 48.53 – 2.67	Depositor EDS
% Data completeness (in resolution range)	98.0 (48.58-2.72) 98.0 (48.53-2.67)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.08 (at 2.65Å)	Xtrriage
Refinement program	REFMAC 5.8.0411	Depositor
R, R_{free}	0.204 , 0.261 0.208 , 0.254	Depositor DCC
R_{free} test set	1593 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	55.7	Xtrriage
Anisotropy	0.811	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 41.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8326	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.89% 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: GOL, ZN

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	0.37	0/4171	0.66	0/5628
1	B	0.41	0/4290	0.70	0/5791
All	All	0.39	0/8461	0.68	0/11419

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	2
All	All	0	3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	5	ARG	Sidechain
1	B	138	ARG	Sidechain
1	B	240	ARG	Sidechain

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	4083	0	4093	47	0
1	B	4199	0	4219	38	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
3	B	12	0	16	0	0
4	A	11	0	0	2	0
4	B	15	0	0	1	0
All	All	8326	0	8328	83	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 (83) 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:B:365:ALA:HB1	1:B:369:MET:CE	2.14	0.78
1:B:365:ALA:HB1	1:B:369:MET:HE3	1.68	0.76
1:B:22:PHE:O	1:B:25:LYS:HG2	1.86	0.76
1:A:324:LYS:HG3	1:A:349:ASN:ND2	2.01	0.75
1:B:13:ILE:HG12	1:B:32:THR:HB	1.72	0.71
1:A:401:GLN:O	1:A:405:LEU:HD12	1.91	0.71
1:B:129:THR:HB	1:B:170:ILE:HD11	1.73	0.69
1:B:435:ASN:O	1:B:439:LYS:HE2	2.01	0.61
1:A:13:ILE:HG12	1:A:32:THR:HB	1.82	0.61
1:B:467:MET:HG3	1:B:467:MET:O	2.01	0.60
1:B:273:TYR:OH	1:B:298:ASP:OD1	2.18	0.60
1:A:284:PRO:HB2	1:A:463:PRO:HD3	1.82	0.60
1:A:421:LYS:NZ	1:A:495:ASN:OD1	2.35	0.59
1:B:456:GLU:HG3	1:B:459:THR:HG21	1.86	0.58
1:A:167:LEU:HD12	1:A:179:LEU:HD22	1.85	0.58
1:A:315:GLN:O	1:A:319:LEU:HG	2.05	0.55
1:A:510:PRO:HB2	1:A:512:LEU:HD11	1.88	0.55
1:B:435:ASN:HD22	1:B:438:TYR:HD2	1.55	0.54
1:B:113:LEU:C	1:B:113:LEU:HD13	2.27	0.54
1:A:16:LEU:O	1:A:20:ILE:HD12	2.07	0.54
1:A:191:GLY:HA3	4:A:706:HOH:O	2.06	0.54
1:A:369:MET:HG3	1:B:369:MET:SD	2.47	0.54
1:A:411:LEU:O	1:A:512:LEU:HD12	2.07	0.54
1:A:17:LYS:N	1:A:18:PRO:HD2	2.23	0.53
1:B:17:LYS:N	1:B:18:PRO:HD2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:GLN:HA	1:B:264:PHE:O	2.10	0.52
1:B:171:ASN:ND2	4:B:701:HOH:O	2.41	0.52
1:B:221:VAL:HG21	1:B:319:LEU:HD13	1.90	0.52
1:A:194:ILE:O	1:A:198:TYR:HB2	2.10	0.52
1:A:211:GLN:HA	1:A:264:PHE:O	2.10	0.52
1:A:55:GLU:HG3	1:A:56:ASN:HD22	1.76	0.51
1:A:113:LEU:C	1:A:113:LEU:HD13	2.30	0.51
1:B:167:LEU:HD23	1:B:170:ILE:HG13	1.93	0.51
1:A:343:PHE:HE1	1:A:352:VAL:HG11	1.76	0.50
1:A:66:LEU:CD1	1:A:98:ILE:HD13	2.42	0.49
1:B:16:LEU:O	1:B:20:ILE:HD12	2.13	0.49
1:A:316:ILE:HA	1:A:319:LEU:HD12	1.95	0.48
1:A:313:SER:HA	1:A:316:ILE:HD12	1.95	0.47
1:B:503:SER:OG	1:B:506:GLU:OE1	2.19	0.47
1:B:365:ALA:HB1	1:B:369:MET:HE2	1.95	0.47
1:A:149:SER:OG	1:A:151:GLU:OE1	2.33	0.47
1:A:154:VAL:CG1	1:A:262:PRO:HG2	2.45	0.47
1:A:367:THR:HG22	1:A:492:TYR:CZ	2.51	0.46
1:A:129:THR:HG22	1:A:167:LEU:HD23	1.98	0.46
1:A:272:GLN:HA	1:A:305:ASN:HD21	1.79	0.46
1:A:60:MET:HB2	4:A:707:HOH:O	2.14	0.46
1:A:457:PRO:HG3	1:A:464:ALA:HB3	1.97	0.46
1:A:457:PRO:HB2	1:A:462:LEU:O	2.16	0.45
1:B:153:TRP:CZ3	1:B:156:LEU:HD23	2.52	0.45
1:B:240:ARG:NH1	1:B:505:GLU:HG2	2.32	0.45
1:B:456:GLU:HG2	1:B:456:GLU:O	2.16	0.45
1:B:238:ASN:HA	1:B:415:HIS:O	2.16	0.44
1:B:456:GLU:HG3	1:B:459:THR:CG2	2.45	0.44
1:A:285:LEU:N	1:A:463:PRO:HD3	2.33	0.44
1:B:66:LEU:CD2	1:B:78:MET:HG3	2.48	0.44
1:B:252:SER:HA	1:B:255:TYR:O	2.16	0.44
1:A:423:PRO:HB3	1:A:490:VAL:HG22	1.98	0.44
1:A:234:VAL:HG11	1:A:395:LEU:HD11	1.99	0.44
1:A:240:ARG:H	1:A:243:GLN:HE21	1.66	0.44
1:B:24:GLU:HA	1:B:28:TYR:O	2.18	0.44
1:A:54:ASP:O	1:A:62:GLY:HA3	2.18	0.43
1:B:22:PHE:O	1:B:25:LYS:CG	2.62	0.43
1:A:85:GLU:OE1	1:B:109:ASN:ND2	2.52	0.43
1:A:284:PRO:HB2	1:A:463:PRO:CD	2.48	0.43
1:B:25:LYS:HG3	1:B:26:LYS:HG2	2.01	0.42
1:A:238:ASN:HA	1:A:415:HIS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:439:LYS:HA	1:B:439:LYS:HD3	1.93	0.42
1:A:343:PHE:HB3	1:A:401:GLN:HG2	2.02	0.42
1:A:296:LYS:HB3	1:A:304:LYS:HE3	2.01	0.42
1:B:272:GLN:HG3	1:B:304:LYS:HB3	2.01	0.42
1:B:310:GLU:OE1	1:B:310:GLU:N	2.51	0.41
1:B:323:ILE:HG23	1:B:350:ASP:HB2	2.02	0.41
1:A:282:LEU:HD22	1:A:286:ASP:HB3	2.01	0.41
1:A:98:ILE:HD12	1:A:98:ILE:HA	1.96	0.41
1:B:147:VAL:HG11	1:B:153:TRP:CD2	2.56	0.41
1:A:437:ARG:NH1	1:A:478:PHE:O	2.52	0.41
1:A:150:TYR:HB3	1:A:193:TYR:OH	2.20	0.41
1:A:252:SER:HA	1:A:255:TYR:O	2.21	0.41
1:A:265:SER:OG	1:A:414:ASP:O	2.26	0.41
1:A:272:GLN:HA	1:A:305:ASN:ND2	2.35	0.41
1:B:442:ARG:HA	1:B:469:SER:HA	2.03	0.41
1:B:370:GLU:O	1:B:373:LYS:HB2	2.21	0.40
1:A:37:LEU:HD23	1:A:37:LEU:HA	1.95	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	487/520 (94%)	474 (97%)	12 (2%)	1 (0%)	47	72
1	B	507/520 (98%)	490 (97%)	17 (3%)	0	100	100
All	All	994/1040 (96%)	964 (97%)	29 (3%)	1 (0%)	51	77

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	457	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	453/475 (95%)	440 (97%)	13 (3%)	42	70
1	B	467/475 (98%)	461 (99%)	6 (1%)	69	86
All	All	920/950 (97%)	901 (98%)	19 (2%)	53	79

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	56	ASN
1	A	57	MET
1	A	196	ARG
1	A	197	ASN
1	A	241	TYR
1	A	265	SER
1	A	272	GLN
1	A	286	ASP
1	A	349	ASN
1	A	378	ASP
1	A	472	ILE
1	A	483	VAL
1	A	484	ASN
1	B	214	ASN
1	B	241	TYR
1	B	251	ILE
1	B	265	SER
1	B	438	TYR
1	B	456	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	56	ASN
1	A	211	GLN
1	A	213	HIS

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Mol	Chain	Res	Type
1	A	214	ASN
1	A	243	GLN
1	A	305	ASN
1	A	349	ASN
1	A	400	GLN
1	A	487	ASN
1	B	297	ASN
1	B	305	ASN
1	B	515	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	$\# Z > 2$
3	GOL	B	604	-	5,5,5	0.22	0	5,5,5	0.54	0
3	GOL	B	605	-	5,5,5	0.11	0	5,5,5	0.29	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
3	GOL	B	604	-	-	4/4/4/4	-
3	GOL	B	605	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	604	GOL	O1-C1-C2-C3
3	B	604	GOL	C1-C2-C3-O3
3	B	605	GOL	C1-C2-C3-O3
3	B	604	GOL	O1-C1-C2-O2
3	B	605	GOL	O2-C2-C3-O3
3	B	604	GOL	O2-C2-C3-O3

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	494/520 (95%)	0.41	37 (7%) 14 13	38, 82, 131, 155	6 (1%)
1	B	511/520 (98%)	-0.09	3 (0%) 89 90	34, 62, 99, 126	1 (0%)
All	All	1005/1040 (96%)	0.15	40 (3%) 38 37	34, 69, 125, 155	7 (0%)

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	273	TYR	5.3
1	A	233	PHE	4.6
1	A	424	SER	3.8
1	A	203	ALA	3.5
1	A	475	LYS	3.4
1	A	471	PHE	3.4
1	A	472	ILE	3.2
1	A	319	LEU	3.1
1	A	459	THR	3.0
1	A	232	LEU	3.0
1	A	310	GLU	2.9
1	A	299	VAL	2.8
1	A	205	LYS	2.8
1	A	351	LEU	2.7
1	A	454	VAL	2.6
1	A	148	ASN	2.6
1	A	307	TYR	2.6
1	A	266	ILE	2.5
1	A	483	VAL	2.5
1	A	277	ALA	2.5
1	A	224	ILE	2.5
1	A	352	VAL	2.5
1	B	294	TYR	2.5
1	A	298	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	13	ILE	2.4
1	B	321	LEU	2.4
1	A	204	PRO	2.4
1	A	225	LYS	2.4
1	A	399	ILE	2.3
1	A	201	TRP	2.3
1	A	199	GLU	2.3
1	A	321	LEU	2.2
1	A	453	VAL	2.2
1	A	272	GLN	2.1
1	A	251	ILE	2.1
1	A	473	PHE	2.1
1	A	206	ALA	2.1
1	A	276	ASN	2.1
1	B	285	LEU	2.0
1	A	202	PHE	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 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	GOL	B	604	6/6	0.81	0.14	75,82,92,96	0
3	GOL	B	605	6/6	0.86	0.15	77,83,88,91	0
2	ZN	A	603	1/1	0.93	0.09	107,107,107,107	0
2	ZN	A	602	1/1	0.96	0.09	87,87,87,87	0
2	ZN	B	602	1/1	0.97	0.03	67,67,67,67	0
2	ZN	B	603	1/1	0.98	0.03	64,64,64,64	0
2	ZN	B	601	1/1	0.98	0.03	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	ZN	A	601	1/1	0.98	0.06	70,70,70,70	0

6.5 Other polymers [i](#)

There are no such residues in this entry.