



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 15, 2023 – 03:05 PM JST

PDB ID : 6JH7
Title : Crystal structure of AerF from *Microcystis aeruginosa*
Authors : Qiu, X.
Deposited on : 2019-02-17
Resolution : 1.38 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)
Xtriage (Phenix) : 1.13
EDS : 2.36
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

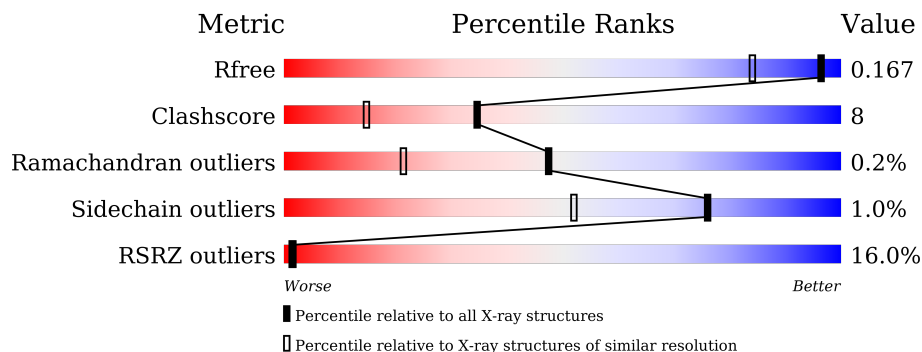
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.38 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	2907 (1.40-1.36)
Clashscore	141614	3037 (1.40-1.36)
Ramachandran outliers	138981	2970 (1.40-1.36)
Sidechain outliers	138945	2969 (1.40-1.36)
RSRZ outliers	127900	2846 (1.40-1.36)

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	274	 17% 84% 10% 5%
1	B	274	 13% 83% 11% 5%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4715 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.

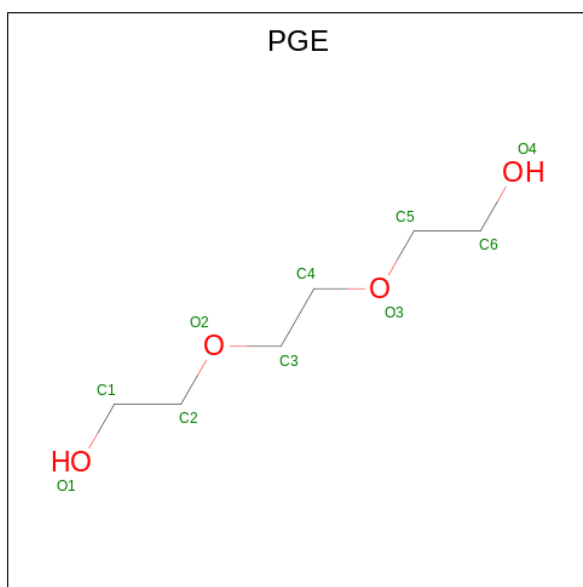
- Molecule 1 is a protein called Short chain dehydrogenase family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	260	2072	1358	333	373	8	0	33	1
1	B	259	2094	1380	333	373	8	0	35	0

There are 16 discrepancies between the modelled and reference sequences:

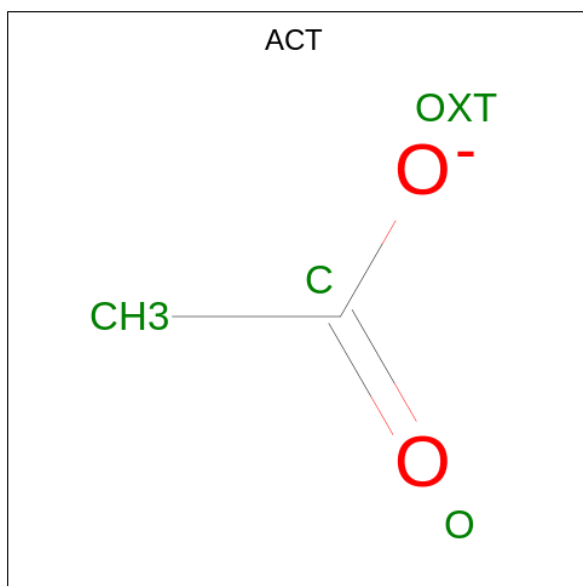
Chain	Residue	Modelled	Actual	Comment	Reference
A	267	LEU	-	expression tag	UNP L8NWH6
A	268	GLU	-	expression tag	UNP L8NWH6
A	269	HIS	-	expression tag	UNP L8NWH6
A	270	HIS	-	expression tag	UNP L8NWH6
A	271	HIS	-	expression tag	UNP L8NWH6
A	272	HIS	-	expression tag	UNP L8NWH6
A	273	HIS	-	expression tag	UNP L8NWH6
A	274	HIS	-	expression tag	UNP L8NWH6
B	267	LEU	-	expression tag	UNP L8NWH6
B	268	GLU	-	expression tag	UNP L8NWH6
B	269	HIS	-	expression tag	UNP L8NWH6
B	270	HIS	-	expression tag	UNP L8NWH6
B	271	HIS	-	expression tag	UNP L8NWH6
B	272	HIS	-	expression tag	UNP L8NWH6
B	273	HIS	-	expression tag	UNP L8NWH6
B	274	HIS	-	expression tag	UNP L8NWH6

- Molecule 2 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



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

- Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).



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

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total C O 5 3 2	0	0

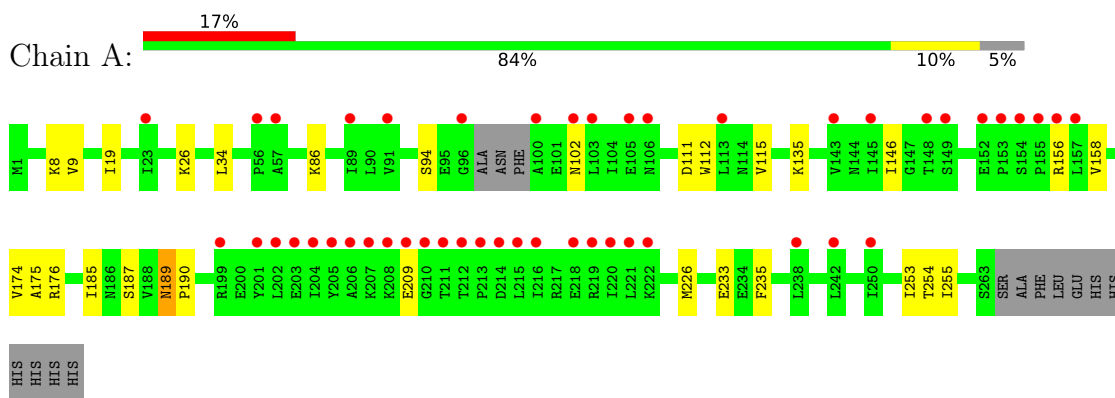
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	239	Total O 257 257	0	17
5	B	262	Total O 279 279	0	15

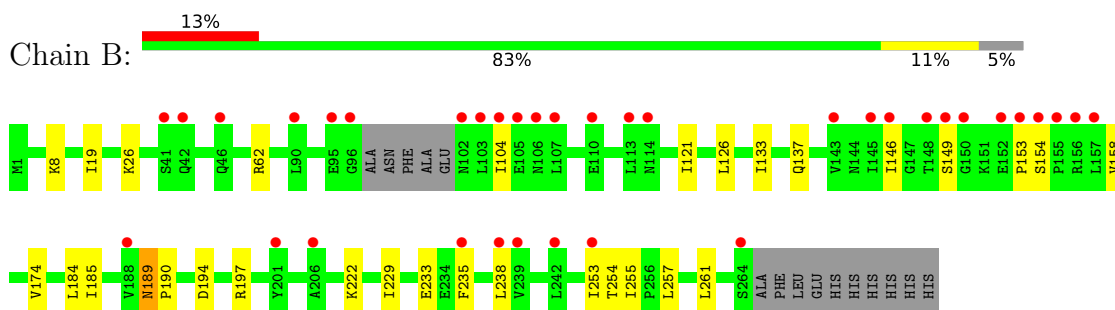
3 Residue-property plots [i](#)

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: Short chain dehydrogenase family protein



- Molecule 1: Short chain dehydrogenase family protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 2 2	Depositor
Cell constants a, b, c, α , β , γ	101.58Å 101.58Å 116.09Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.00 – 1.38 34.31 – 1.38	Depositor EDS
% Data completeness (in resolution range)	98.5 (45.00-1.38) 98.5 (34.31-1.38)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.33 (at 1.38Å)	Xtrriage
Refinement program	REFMAC 5.8.0049	Depositor
R, R_{free}	0.141 , 0.166 0.142 , 0.167	Depositor DCC
R_{free} test set	6158 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	17.0	Xtrriage
Anisotropy	0.104	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 55.4	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	4715	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.19% 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: PEG, ACT, PGE

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	0.30	0/2220	0.53	0/3007
1	B	0.31	0/2264	0.55	0/3066
All	All	0.31	0/4484	0.54	0/6073

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	2072	0	2180	45	0
1	B	2094	0	2201	31	0
2	A	4	0	5	0	0
3	A	4	0	3	0	0
4	B	5	0	5	0	0
5	A	257	0	0	11	0
5	B	279	0	0	8	0
All	All	4715	0	4394	71	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 8.

All (71) 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:174[B]:VAL:HG12	1:A:185[B]:ILE:HD12	1.18	1.16
1:B:26[B]:LYS:HG3	5:B:438[B]:HOH:O	1.44	1.16
1:A:146[B]:ILE:CD1	1:A:189[B]:ASN:OD1	1.98	1.11
1:A:146[B]:ILE:HD11	1:A:189[B]:ASN:OD1	1.51	1.10
1:A:146[B]:ILE:CG1	1:A:189[B]:ASN:OD1	2.04	1.05
1:A:174[B]:VAL:HG12	1:A:185[B]:ILE:CD1	1.89	1.02
1:A:174[B]:VAL:CG1	1:A:185[B]:ILE:CD1	2.39	1.00
1:A:174[B]:VAL:CG1	1:A:185[B]:ILE:HD12	1.95	0.96
1:B:26[A]:LYS:HE3	1:B:233[A]:GLU:HG3	1.48	0.94
1:A:146[B]:ILE:HG13	1:A:189[B]:ASN:OD1	1.65	0.94
1:A:146[B]:ILE:HD11	1:A:189[B]:ASN:CG	1.91	0.91
1:A:185[A]:ILE:HD11	5:A:414:HOH:O	1.75	0.86
1:A:174[B]:VAL:HG11	1:A:185[B]:ILE:HD13	1.64	0.80
1:A:174[B]:VAL:HG11	1:A:185[B]:ILE:CD1	2.10	0.80
1:A:135[B]:LYS:NZ	5:A:401:HOH:O	2.15	0.79
1:A:146[B]:ILE:HD11	1:A:189[B]:ASN:ND2	1.97	0.79
1:B:26[A]:LYS:CE	1:B:233[A]:GLU:HG3	2.14	0.78
1:B:174[A]:VAL:HG13	1:B:185[A]:ILE:HD12	1.65	0.78
1:A:174[A]:VAL:HG13	1:A:185[A]:ILE:HG21	1.64	0.78
1:B:19[B]:ILE:HG13	5:B:504:HOH:O	1.88	0.73
1:A:174[A]:VAL:CG1	1:A:185[A]:ILE:HD13	2.22	0.69
1:A:26[A]:LYS:CE	1:A:233[A]:GLU:HG3	2.24	0.68
1:A:8[B]:LYS:HE3	5:A:418[B]:HOH:O	1.94	0.68
1:B:146[B]:ILE:HD11	1:B:189[B]:ASN:CG	2.14	0.67
1:B:174[A]:VAL:HG13	1:B:185[A]:ILE:CD1	2.26	0.65
1:B:146[B]:ILE:CD1	1:B:189[B]:ASN:CG	2.65	0.64
1:A:26[A]:LYS:HE3	1:A:233[A]:GLU:HG3	1.79	0.64
1:A:146[B]:ILE:CD1	1:A:189[B]:ASN:CG	2.59	0.64
1:B:133:ILE:O	1:B:137[C]:GLN:HG3	1.99	0.62
1:B:254:THR:OG1	5:B:491[B]:HOH:O	2.16	0.61
1:A:146[B]:ILE:HD11	1:A:189[B]:ASN:HD21	1.64	0.60
1:A:94:SER:HB2	5:A:591:HOH:O	2.00	0.60
1:A:135[B]:LYS:HE2	5:A:401:HOH:O	2.02	0.59
1:A:19:ILE:HD13	1:A:235[B]:PHE:CE1	2.37	0.59
1:B:153:PRO:HG2	1:B:261[A]:LEU:HD21	1.84	0.59
1:A:135[B]:LYS:CE	5:A:401:HOH:O	2.48	0.59
1:B:185[B]:ILE:HD11	5:B:410:HOH:O	2.04	0.58
1:B:154:SER:N	5:B:403:HOH:O	2.36	0.57
1:A:174[A]:VAL:HG11	1:A:185[A]:ILE:HD13	1.89	0.55
1:B:189[A]:ASN:ND2	5:B:402:HOH:O	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:26[A]:LYS:NZ	1:B:233[A]:GLU:HG3	2.23	0.54
1:A:102:ASN:ND2	1:A:156:ARG:O	2.31	0.54
1:A:176:ARG:NH2	5:A:404:HOH:O	2.41	0.54
1:A:190:PRO:HB3	1:A:235[B]:PHE:CE1	2.44	0.53
1:B:133:ILE:HG22	1:B:137[C]:GLN:HE21	1.73	0.52
1:A:233[B]:GLU:HG3	5:A:610:HOH:O	2.12	0.50
1:A:111:ASP:O	1:A:115[A]:VAL:HG13	2.12	0.50
1:B:149:SER:O	1:B:197[B]:ARG:HG2	2.12	0.49
1:A:9:VAL:HG23	1:A:86:LYS:HE3	1.96	0.47
1:A:112:TRP:O	1:A:115[A]:VAL:HG22	2.15	0.47
1:A:189[A]:ASN:ND2	5:A:405:HOH:O	2.41	0.47
1:A:185[A]:ILE:CD1	5:A:414:HOH:O	2.49	0.46
1:A:255:ILE:HG23	1:B:253[A]:ILE:HD12	1.98	0.46
1:B:8[A]:LYS:NZ	5:B:404:HOH:O	2.39	0.46
1:A:255:ILE:HG23	1:B:253[A]:ILE:CD1	2.46	0.45
1:A:26[A]:LYS:NZ	1:A:233[A]:GLU:OE1	2.47	0.45
1:B:104:ILE:CD1	1:B:158:VAL:HG11	2.46	0.45
1:A:253[A]:ILE:HD12	1:B:255:ILE:HG23	2.00	0.44
1:A:187[A]:SER:OG	1:A:254:THR:OG1	2.31	0.43
1:B:121[A]:ILE:HD12	1:B:121[A]:ILE:HA	1.91	0.42
1:B:126[B]:LEU:HD23	1:B:126[B]:LEU:HA	1.88	0.42
1:A:175:ALA:HB2	1:A:185[A]:ILE:HG23	2.00	0.42
1:A:226[B]:MET:CE	1:B:184:LEU:HD22	2.50	0.41
1:B:194:ASP:HB2	1:B:229[B]:ILE:HD11	2.03	0.41
1:B:190:PRO:HB3	1:B:235[A]:PHE:CE1	2.56	0.41
1:A:156:ARG:O	1:A:158[B]:VAL:HG13	2.20	0.41
1:B:238:LEU:HD23	1:B:257[A]:LEU:HD12	2.01	0.41
1:A:253[A]:ILE:CD1	1:B:255:ILE:HG23	2.52	0.40
1:B:26[B]:LYS:CG	5:B:438[B]:HOH:O	2.26	0.40
1:A:34:LEU:HG	5:A:545:HOH:O	2.21	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	289/274 (106%)	281 (97%)	7 (2%)	1 (0%)	41	18
1	B	291/274 (106%)	284 (98%)	7 (2%)	0	100	100
All	All	580/548 (106%)	565 (97%)	14 (2%)	1 (0%)	47	21

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	209	GLU

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	225/233 (97%)	223 (99%)	2 (1%)	78	56
1	B	229/233 (98%)	224 (98%)	5 (2%)	52	19
All	All	454/466 (97%)	447 (98%)	7 (2%)	76	36

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

Mol	Chain	Res	Type
1	A	189[A]	ASN
1	A	189[B]	ASN
1	B	62	ARG
1	B	189[A]	ASN
1	B	189[B]	ASN
1	B	222[A]	LYS
1	B	222[B]	LYS

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](#)

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](#)

3 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	ACT	A	302	-	3,3,3	0.77	0	3,3,3	0.69	0
2	PGE	A	301	-	3,3,9	0.41	0	2,2,8	0.29	0
4	PEG	B	301	-	4,4,6	0.44	0	3,3,5	0.34	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	PGE	A	301	-	-	0/1/1/7	-
4	PEG	B	301	-	-	2/2/2/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	301	PEG	O2-C3-C4-O4
4	B	301	PEG	C4-C3-O2-C2

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	260/274 (94%)	1.09	47 (18%) 1 1	11, 20, 46, 55	27 (10%)
1	B	259/274 (94%)	0.69	36 (13%) 2 2	12, 21, 38, 51	20 (7%)
All	All	519/548 (94%)	0.89	83 (15%) 1 1	11, 20, 42, 55	47 (9%)

All (83) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	215	LEU	11.1
1	A	205	TYR	10.8
1	A	212	THR	9.9
1	A	155	PRO	9.9
1	A	210	GLY	9.5
1	A	211	THR	9.5
1	A	206	ALA	9.0
1	B	103	LEU	8.7
1	A	209	GLU	8.6
1	B	155	PRO	8.5
1	A	100	ALA	8.1
1	A	213	PRO	8.1
1	B	96	GLY	8.0
1	A	201	TYR	7.7
1	A	204	ILE	6.7
1	A	154	SER	5.9
1	B	105	GLU	5.6
1	B	102	ASN	5.6
1	B	106	ASN	5.5
1	A	216	ILE	5.1
1	B	154	SER	5.1
1	B	153	PRO	5.1
1	A	208	LYS	4.9
1	A	57	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
1	A	207	LYS	4.7
1	A	220	ILE	4.7
1	B	157	LEU	4.7
1	A	102	ASN	4.6
1	A	219	ARG	4.6
1	B	104	ILE	4.5
1	A	214	ASP	4.5
1	A	152	GLU	4.3
1	A	157	LEU	4.1
1	B	152[A]	GLU	4.1
1	B	156	ARG	4.1
1	A	156	ARG	4.0
1	A	153	PRO	4.0
1	A	103	LEU	4.0
1	A	202	LEU	3.9
1	A	149[A]	SER	3.8
1	B	95	GLU	3.4
1	B	235[A]	PHE	3.3
1	B	150	GLY	3.3
1	A	96	GLY	3.2
1	A	105	GLU	3.1
1	B	149	SER	2.9
1	A	203	GLU	2.9
1	A	23	ILE	2.8
1	A	106	ASN	2.7
1	B	42	GLN	2.7
1	A	218	GLU	2.7
1	B	206	ALA	2.7
1	B	107	LEU	2.7
1	B	201	TYR	2.6
1	B	264	SER	2.6
1	B	113	LEU	2.6
1	B	253[A]	ILE	2.6
1	A	222	LYS	2.5
1	B	188	VAL	2.5
1	B	238	LEU	2.4
1	B	239	VAL	2.4
1	B	145	ILE	2.4
1	B	146[A]	ILE	2.4
1	B	110	GLU	2.4
1	B	114	ASN	2.4
1	A	238	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	41	SER	2.3
1	A	91	VAL	2.3
1	A	221	LEU	2.3
1	B	90	LEU	2.2
1	A	145[A]	ILE	2.2
1	A	148	THR	2.2
1	B	148	THR	2.2
1	B	242	LEU	2.2
1	A	143	VAL	2.2
1	B	46	GLN	2.2
1	B	143	VAL	2.1
1	A	56	PRO	2.0
1	A	199[A]	ARG	2.0
1	A	89	ILE	2.0
1	A	250	ILE	2.0
1	A	113	LEU	2.0
1	A	242	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 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
2	PGE	A	301	4/10	0.51	0.31	39,40,42,51	1
4	PEG	B	301	5/7	0.86	0.23	32,33,36,40	1
3	ACT	A	302	4/4	0.91	0.46	28,31,36,38	3

6.5 Other polymers [i](#)

There are no such residues in this entry.