



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2026 – 11:05 PM UTC

PDB ID : 4UT1 / pdb_00004ut1
Title : The structure of the flagellar hook junction protein FlgK from Burkholderia pseudomallei
Authors : Gourlay, L.J.; Lassaux, P.; Bolognesi, M.
Deposited on : 2014-07-17
Resolution : 1.80 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

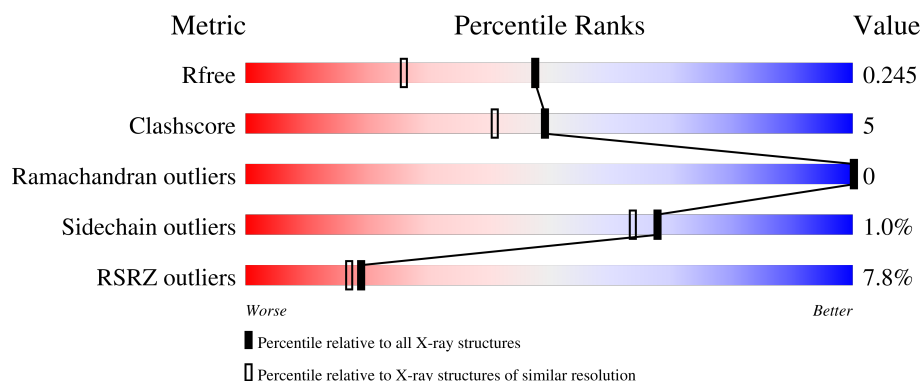
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	673	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	EDO	A	1631	-	-	X	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4201 atoms, of which 6 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 FLAGELLAR HOOK-ASSOCIATED PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	551	Total	C	N	O	S	0	0	0
			3857	2368	660	823	6			

There are 36 discrepancies between the modelled and reference sequences:

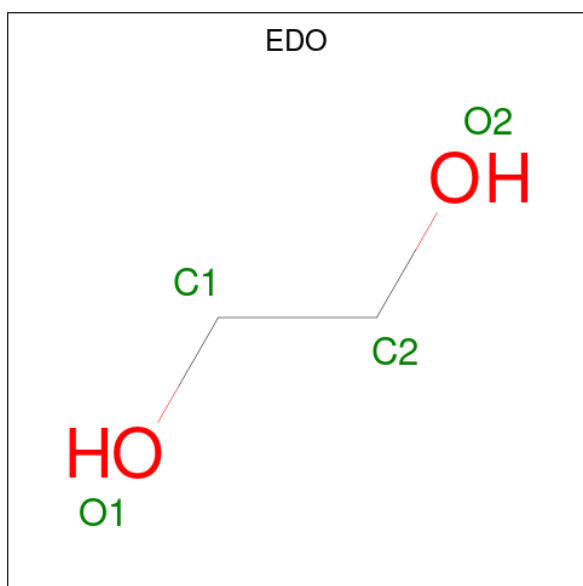
Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	MET	-	expression tag	UNP Q63YA8
A	-4	ARG	-	expression tag	UNP Q63YA8
A	-3	GLY	-	expression tag	UNP Q63YA8
A	-2	SER	-	expression tag	UNP Q63YA8
A	-1	HIS	-	expression tag	UNP Q63YA8
A	0	HIS	-	expression tag	UNP Q63YA8
A	1	HIS	-	expression tag	UNP Q63YA8
A	2	HIS	-	expression tag	UNP Q63YA8
A	3	HIS	-	expression tag	UNP Q63YA8
A	4	HIS	-	expression tag	UNP Q63YA8
A	5	GLY	-	expression tag	UNP Q63YA8
A	6	MET	-	expression tag	UNP Q63YA8
A	7	ALA	-	expression tag	UNP Q63YA8
A	8	SER	-	expression tag	UNP Q63YA8
A	9	MET	-	expression tag	UNP Q63YA8
A	10	THR	-	expression tag	UNP Q63YA8
A	11	GLY	-	expression tag	UNP Q63YA8
A	12	GLY	-	expression tag	UNP Q63YA8
A	13	GLN	-	expression tag	UNP Q63YA8
A	14	GLN	-	expression tag	UNP Q63YA8
A	15	MET	-	expression tag	UNP Q63YA8
A	16	GLY	-	expression tag	UNP Q63YA8
A	17	ARG	-	expression tag	UNP Q63YA8
A	18	ASP	-	expression tag	UNP Q63YA8
A	19	LEU	-	expression tag	UNP Q63YA8
A	20	TYR	-	expression tag	UNP Q63YA8
A	21	ASP	-	expression tag	UNP Q63YA8

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Chain	Residue	Modelled	Actual	Comment	Reference
A	22	ASP	-	expression tag	UNP Q63YA8
A	23	ASP	-	expression tag	UNP Q63YA8
A	24	ASP	-	expression tag	UNP Q63YA8
A	25	LYS	-	expression tag	UNP Q63YA8
A	26	ASP	-	expression tag	UNP Q63YA8
A	27	HIS	-	expression tag	UNP Q63YA8
A	28	PRO	-	expression tag	UNP Q63YA8
A	29	PHE	-	expression tag	UNP Q63YA8
A	30	THR	-	expression tag	UNP Q63YA8

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

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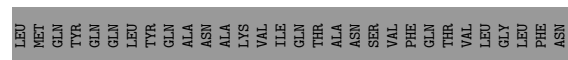
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	O		0	0
			4	2	2			
2	A	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	258	Total	O	0	0
			258	258		

- Molecule 1: FLAGELLAR HOOK-ASSOCIATED PROTEIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	41.60Å 113.00Å 62.23Å 90.00° 106.08° 90.00°	Depositor
Resolution (Å)	39.97 – 1.80 39.97 – 1.80	Depositor EDS
% Data completeness (in resolution range)	97.7 (39.97-1.80) 89.9 (39.97-1.80)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.32 (at 1.79Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.198 , 0.244 0.199 , 0.245	Depositor DCC
R_{free} test set	2537 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	14.1	Xtriage
Anisotropy	0.708	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 38.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4201	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 6.43% 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: EDO

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	0.45	0/3912	0.71	0/5360

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	3857	0	3795	41	0
2	A	80	6	120	10	0
3	A	258	0	0	1	0
All	All	4195	6	3915	42	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 (42) 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:376:LEU:HD23	1:A:385:VAL:HG21	1.42	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:ALA:HB1	2:A:1637:EDO:H11	1.46	0.94
1:A:171:ASN:HB3	2:A:1631:EDO:H12	1.59	0.84
1:A:376:LEU:HD23	1:A:385:VAL:CG2	2.17	0.74
1:A:184:ILE:HD13	1:A:198:LEU:HD23	1.76	0.68
1:A:262:ALA:HB2	2:A:1631:EDO:H22	1.83	0.61
1:A:355:VAL:HA	1:A:403:LYS:HE3	1.82	0.60
1:A:100:VAL:CG1	1:A:595:VAL:HG22	2.33	0.59
1:A:217:VAL:HG13	1:A:224:SER:HB2	1.87	0.57
1:A:241:GLN:HG2	2:A:1631:EDO:C1	2.35	0.56
1:A:266:GLN:HG2	1:A:266:GLN:O	2.06	0.56
1:A:490:VAL:HG12	1:A:508:SER:HA	1.88	0.56
1:A:336:PRO:HB3	1:A:420:PRO:HA	1.88	0.55
1:A:311:GLN:CD	1:A:579:THR:HG21	2.32	0.55
1:A:272:TYR:HB3	2:A:1641:EDO:H11	1.89	0.53
1:A:203:LEU:O	1:A:207:LYS:HG2	2.10	0.52
1:A:315:GLN:HE22	2:A:1640:EDO:H11	1.74	0.51
1:A:93:VAL:HG11	1:A:605:LEU:HD12	1.92	0.51
1:A:496:ILE:HD12	1:A:496:ILE:N	2.25	0.51
1:A:376:LEU:HB3	1:A:385:VAL:HG22	1.92	0.51
1:A:186:SER:O	1:A:189:SER:HB3	2.11	0.51
1:A:108:ALA:HB2	1:A:591:TYR:CD2	2.47	0.50
1:A:446:ALA:HA	1:A:555:THR:O	2.12	0.49
1:A:265:ALA:O	1:A:266:GLN:HG2	2.14	0.48
1:A:100:VAL:HG11	1:A:595:VAL:HG22	1.96	0.48
2:A:1634:EDO:H12	3:A:2042:HOH:O	2.14	0.47
1:A:135:MET:HE3	1:A:434:ASN:O	2.15	0.47
1:A:219:SER:O	1:A:222:ASN:HB2	2.15	0.46
1:A:180:LEU:HD23	1:A:183:GLN:OE1	2.16	0.46
1:A:172:SER:O	1:A:176:GLN:HG3	2.16	0.46
1:A:578:LYS:O	1:A:583:GLY:HA2	2.17	0.45
1:A:241:GLN:CG	2:A:1631:EDO:H11	2.48	0.43
1:A:369:TYR:CE2	1:A:371:GLY:HA2	2.53	0.42
1:A:187:ALA:C	1:A:189:SER:H	2.27	0.42
1:A:442:SER:HB3	1:A:566:ARG:CZ	2.50	0.41
1:A:107:ILE:HB	1:A:591:TYR:CE1	2.56	0.41
1:A:258:SER:OG	1:A:271:GLN:HB2	2.21	0.41
1:A:530:GLN:HA	1:A:531:PRO:C	2.45	0.41
1:A:273:LEU:HA	1:A:274:PRO:HD3	1.94	0.41
1:A:92:LEU:HD11	1:A:286:LEU:HD23	2.03	0.40
1:A:315:GLN:HE22	2:A:1640:EDO:C1	2.34	0.40
1:A:405:SER:OG	2:A:1646:EDO:H21	2.20	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	547/673 (81%)	535 (98%)	12 (2%)	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	419/520 (81%)	415 (99%)	4 (1%)	68	64

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	216	VAL
1	A	217	VAL
1	A	385	VAL
1	A	594	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	80	GLN

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Mol	Chain	Res	Type
1	A	97	ASN
1	A	151	GLN
1	A	215	GLN
1	A	292	GLN
1	A	311	GLN
1	A	315	GLN
1	A	343	ASN
1	A	604	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](#)

20 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	$\# Z > 2$
2	EDO	A	1628	-	3,3,3	0.48	0	2,2,2	0.46	0
2	EDO	A	1637	-	3,3,3	0.40	0	2,2,2	0.39	0
2	EDO	A	1633	-	3,3,3	0.39	0	2,2,2	0.53	0
2	EDO	A	1645	-	3,3,3	0.48	0	2,2,2	0.48	0
2	EDO	A	1629	-	3,3,3	0.50	0	2,2,2	0.26	0
2	EDO	A	1640	-	3,3,3	0.41	0	2,2,2	0.51	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	EDO	A	1646	-	3,3,3	0.39	0	2,2,2	0.52	0
2	EDO	A	1639	-	3,3,3	0.44	0	2,2,2	0.32	0
2	EDO	A	1630	-	3,3,3	0.43	0	2,2,2	0.44	0
2	EDO	A	1631	-	3,3,3	0.38	0	2,2,2	0.10	0
2	EDO	A	1644	-	3,3,3	0.43	0	2,2,2	0.40	0
2	EDO	A	1636	-	3,3,3	0.47	0	2,2,2	0.37	0
2	EDO	A	1635	-	3,3,3	0.44	0	2,2,2	0.43	0
2	EDO	A	1643	-	3,3,3	0.42	0	2,2,2	0.34	0
2	EDO	A	1632	-	3,3,3	0.40	0	2,2,2	0.32	0
2	EDO	A	1634	-	3,3,3	0.31	0	2,2,2	0.45	0
2	EDO	A	1641	-	3,3,3	0.43	0	2,2,2	0.48	0
2	EDO	A	1638	-	3,3,3	0.48	0	2,2,2	0.08	0
2	EDO	A	1647	-	3,3,3	0.35	0	2,2,2	0.24	0
2	EDO	A	1642	-	3,3,3	0.56	0	2,2,2	0.15	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	EDO	A	1628	-	-	1/1/1/1	-
2	EDO	A	1637	-	-	0/1/1/1	-
2	EDO	A	1633	-	-	0/1/1/1	-
2	EDO	A	1645	-	-	0/1/1/1	-
2	EDO	A	1629	-	-	1/1/1/1	-
2	EDO	A	1640	-	-	0/1/1/1	-
2	EDO	A	1646	-	-	0/1/1/1	-
2	EDO	A	1639	-	-	1/1/1/1	-
2	EDO	A	1630	-	-	1/1/1/1	-
2	EDO	A	1631	-	-	1/1/1/1	-
2	EDO	A	1644	-	-	0/1/1/1	-
2	EDO	A	1636	-	-	1/1/1/1	-
2	EDO	A	1635	-	-	0/1/1/1	-
2	EDO	A	1643	-	-	1/1/1/1	-
2	EDO	A	1632	-	-	0/1/1/1	-
2	EDO	A	1634	-	-	1/1/1/1	-
2	EDO	A	1641	-	-	1/1/1/1	-
2	EDO	A	1638	-	-	0/1/1/1	-
2	EDO	A	1647	-	-	0/1/1/1	-
2	EDO	A	1642	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1630	EDO	O1-C1-C2-O2
2	A	1641	EDO	O1-C1-C2-O2
2	A	1643	EDO	O1-C1-C2-O2
2	A	1628	EDO	O1-C1-C2-O2
2	A	1634	EDO	O1-C1-C2-O2
2	A	1629	EDO	O1-C1-C2-O2
2	A	1636	EDO	O1-C1-C2-O2
2	A	1631	EDO	O1-C1-C2-O2
2	A	1639	EDO	O1-C1-C2-O2

There are no ring outliers.

6 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1637	EDO	1	0
2	A	1640	EDO	2	0
2	A	1646	EDO	1	0
2	A	1631	EDO	4	0
2	A	1634	EDO	1	0
2	A	1641	EDO	1	0

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	551/673 (81%)	0.52	43 (7%) 19 17	11, 18, 36, 56	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	268	GLY	6.0
1	A	194	PRO	5.0
1	A	267	PRO	4.7
1	A	219	SER	4.6
1	A	220	ASN	4.4
1	A	561	GLY	4.2
1	A	562	THR	3.9
1	A	560	LYS	3.6
1	A	217	VAL	3.5
1	A	198	LEU	3.4
1	A	563	ASN	3.3
1	A	187	ALA	3.3
1	A	266	GLN	3.2
1	A	196	GLN	3.2
1	A	197	LEU	3.1
1	A	499	THR	3.1
1	A	185	ALA	3.0
1	A	265	ALA	3.0
1	A	189	SER	2.9
1	A	223	TYR	2.9
1	A	269	PRO	2.8
1	A	218	GLN	2.8
1	A	221	GLY	2.8
1	A	73	SER	2.8
1	A	195	ASN	2.7
1	A	582	ASN	2.7
1	A	471	SER	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	534	SER	2.7
1	A	335	ALA	2.7
1	A	203	LEU	2.7
1	A	188	SER	2.6
1	A	222	ASN	2.6
1	A	276	VAL	2.6
1	A	500	PRO	2.6
1	A	472	GLY	2.4
1	A	393	THR	2.3
1	A	76	LEU	2.2
1	A	263	GLY	2.2
1	A	372	ALA	2.1
1	A	184	ILE	2.1
1	A	577	SER	2.1
1	A	75	GLN	2.1
1	A	278	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 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	EDO	A	1636	4/4	0.68	0.20	28,31,32,34	0
2	EDO	A	1640	4/4	0.72	0.19	29,30,30,38	0
2	EDO	A	1641	4/4	0.74	0.20	30,30,33,36	0
2	EDO	A	1642	4/4	0.81	0.16	23,25,26,30	0
2	EDO	A	1628	4/4	0.83	0.17	27,28,28,32	0
2	EDO	A	1633	4/4	0.83	0.19	23,23,26,32	0
2	EDO	A	1630	4/4	0.84	0.15	28,30,32,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	A	1645	4/4	0.84	0.19	20,22,25,30	0
2	EDO	A	1644	4/4	0.85	0.16	27,27,29,30	0
2	EDO	A	1646	4/4	0.85	0.17	25,31,31,33	0
2	EDO	A	1635	4/4	0.86	0.15	22,27,32,33	0
2	EDO	A	1631	4/4	0.86	0.19	22,23,29,31	0
2	EDO	A	1634	4/4	0.87	0.18	19,21,24,25	0
2	EDO	A	1629	4/4	0.88	0.18	18,24,27,28	0
2	EDO	A	1637	4/4	0.88	0.18	26,29,29,34	0
2	EDO	A	1647	4/4	0.89	0.15	19,23,29,35	0
2	EDO	A	1638	4/4	0.91	0.13	19,20,20,25	0
2	EDO	A	1632	4/4	0.91	0.12	28,30,31,36	0
2	EDO	A	1643	4/4	0.93	0.15	21,25,27,30	0
2	EDO	A	1639	4/4	0.95	0.09	26,26,30,32	0

6.5 Other polymers [i](#)

There are no such residues in this entry.