WORLDWIDE PDB PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report ⓘ

Dec 21, 2024 – 04:17 pm GMT

PDB ID	:	8RG3
Title	:	Crystal structure of PbFucA from Planctomycetes bacterium K23_9 in P 1 21 1
Authors	:	Perez-Curz, C.; Moraleda-Montoya, A.; Liebana, R.; Lorizate, M.; Arriza-balaga, U.; Garcia-Alija, M.; Terrones, O.; Contreras, F.X.; Guerin, M.E.; Trastoy, B.; Alonso-Saez, L.
Deposited on	:	2023-12-13
Resolution	:	2.50 Å(reported)

The following versions of software and data (see references ⓘ) were used in the production of this report:

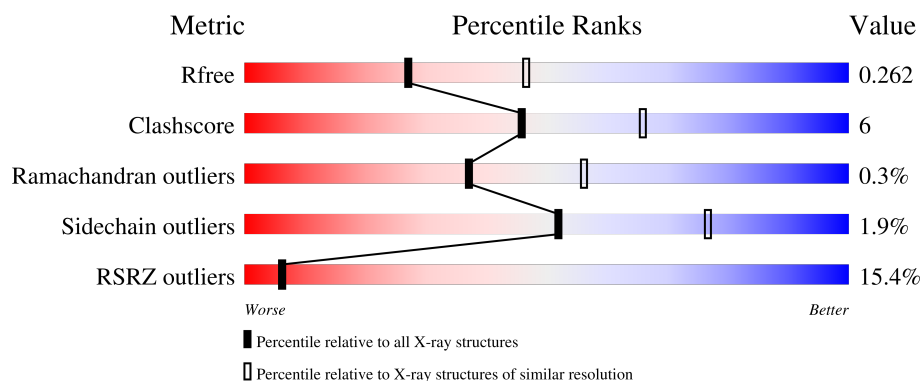|		
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

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 2.50 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	Percentile Ranks	Value
Rfree		0.262
Clashscore		6
Ramachandran outliers		0.3%
Sidechain outliers		1.9%
RSRZ outliers		15.4%

Worse   *Better*

▌ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	5504 (2.50-2.50)
Clashscore	180529	6282 (2.50-2.50)
Ramachandran outliers	177936	6191 (2.50-2.50)
Sidechain outliers	177891	6193 (2.50-2.50)
RSRZ outliers	164620	5504 (2.50-2.50)

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 <=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	373	.% 86% 9% 5%
1	B	373	.% 83% 12% 5%
1	C	373	5% 86% 9% · 5%
1	D	373	13% 86% 10% 5%

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Mol	Chain	Length	Quality of chain
1	E	373	17% 79% 16% 5%
1	F	373	52% 74% 20% 5%

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 16917 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 Glycoside-hydrolase family GH114 TIM-barrel domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	356	Total 2853	C 1831	N 501	O 506	S 15	0	1	0
1	B	355	Total 2813	C 1805	N 485	O 508	S 15	0	1	0
1	C	356	Total 2809	C 1806	N 484	O 504	S 15	0	1	0
1	D	356	Total 2733	C 1758	N 468	O 492	S 15	0	0	0
1	E	355	Total 2792	C 1793	N 479	O 504	S 16	0	3	0
1	F	356	Total 2739	C 1765	N 467	O 493	S 14	0	1	0

There are 96 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	20	MET	-	initiating methionine	UNP A0A517NMB4
A	21	HIS	-	expression tag	UNP A0A517NMB4
A	22	HIS	-	expression tag	UNP A0A517NMB4
A	23	HIS	-	expression tag	UNP A0A517NMB4
A	24	HIS	-	expression tag	UNP A0A517NMB4
A	25	HIS	-	expression tag	UNP A0A517NMB4
A	26	HIS	-	expression tag	UNP A0A517NMB4
A	27	GLU	-	expression tag	UNP A0A517NMB4
A	28	ASN	-	expression tag	UNP A0A517NMB4
A	29	LEU	-	expression tag	UNP A0A517NMB4
A	30	TYR	-	expression tag	UNP A0A517NMB4
A	31	PHE	-	expression tag	UNP A0A517NMB4
A	32	GLN	-	expression tag	UNP A0A517NMB4
A	33	GLY	-	expression tag	UNP A0A517NMB4
A	34	SER	-	expression tag	UNP A0A517NMB4
A	35	GLY	-	expression tag	UNP A0A517NMB4

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Chain	Residue	Modelled	Actual	Comment	Reference
B	20	MET	-	initiating methionine	UNP A0A517NMB4
B	21	HIS	-	expression tag	UNP A0A517NMB4
B	22	HIS	-	expression tag	UNP A0A517NMB4
B	23	HIS	-	expression tag	UNP A0A517NMB4
B	24	HIS	-	expression tag	UNP A0A517NMB4
B	25	HIS	-	expression tag	UNP A0A517NMB4
B	26	HIS	-	expression tag	UNP A0A517NMB4
B	27	GLU	-	expression tag	UNP A0A517NMB4
B	28	ASN	-	expression tag	UNP A0A517NMB4
B	29	LEU	-	expression tag	UNP A0A517NMB4
B	30	TYR	-	expression tag	UNP A0A517NMB4
B	31	PHE	-	expression tag	UNP A0A517NMB4
B	32	GLN	-	expression tag	UNP A0A517NMB4
B	33	GLY	-	expression tag	UNP A0A517NMB4
B	34	SER	-	expression tag	UNP A0A517NMB4
B	35	GLY	-	expression tag	UNP A0A517NMB4
C	20	MET	-	initiating methionine	UNP A0A517NMB4
C	21	HIS	-	expression tag	UNP A0A517NMB4
C	22	HIS	-	expression tag	UNP A0A517NMB4
C	23	HIS	-	expression tag	UNP A0A517NMB4
C	24	HIS	-	expression tag	UNP A0A517NMB4
C	25	HIS	-	expression tag	UNP A0A517NMB4
C	26	HIS	-	expression tag	UNP A0A517NMB4
C	27	GLU	-	expression tag	UNP A0A517NMB4
C	28	ASN	-	expression tag	UNP A0A517NMB4
C	29	LEU	-	expression tag	UNP A0A517NMB4
C	30	TYR	-	expression tag	UNP A0A517NMB4
C	31	PHE	-	expression tag	UNP A0A517NMB4
C	32	GLN	-	expression tag	UNP A0A517NMB4
C	33	GLY	-	expression tag	UNP A0A517NMB4
C	34	SER	-	expression tag	UNP A0A517NMB4
C	35	GLY	-	expression tag	UNP A0A517NMB4
D	20	MET	-	initiating methionine	UNP A0A517NMB4
D	21	HIS	-	expression tag	UNP A0A517NMB4
D	22	HIS	-	expression tag	UNP A0A517NMB4
D	23	HIS	-	expression tag	UNP A0A517NMB4
D	24	HIS	-	expression tag	UNP A0A517NMB4
D	25	HIS	-	expression tag	UNP A0A517NMB4
D	26	HIS	-	expression tag	UNP A0A517NMB4
D	27	GLU	-	expression tag	UNP A0A517NMB4
D	28	ASN	-	expression tag	UNP A0A517NMB4
D	29	LEU	-	expression tag	UNP A0A517NMB4

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Chain	Residue	Modelled	Actual	Comment	Reference
D	30	TYR	-	expression tag	UNP A0A517NMB4
D	31	PHE	-	expression tag	UNP A0A517NMB4
D	32	GLN	-	expression tag	UNP A0A517NMB4
D	33	GLY	-	expression tag	UNP A0A517NMB4
D	34	SER	-	expression tag	UNP A0A517NMB4
D	35	GLY	-	expression tag	UNP A0A517NMB4
E	20	MET	-	initiating methionine	UNP A0A517NMB4
E	21	HIS	-	expression tag	UNP A0A517NMB4
E	22	HIS	-	expression tag	UNP A0A517NMB4
E	23	HIS	-	expression tag	UNP A0A517NMB4
E	24	HIS	-	expression tag	UNP A0A517NMB4
E	25	HIS	-	expression tag	UNP A0A517NMB4
E	26	HIS	-	expression tag	UNP A0A517NMB4
E	27	GLU	-	expression tag	UNP A0A517NMB4
E	28	ASN	-	expression tag	UNP A0A517NMB4
E	29	LEU	-	expression tag	UNP A0A517NMB4
E	30	TYR	-	expression tag	UNP A0A517NMB4
E	31	PHE	-	expression tag	UNP A0A517NMB4
E	32	GLN	-	expression tag	UNP A0A517NMB4
E	33	GLY	-	expression tag	UNP A0A517NMB4
E	34	SER	-	expression tag	UNP A0A517NMB4
E	35	GLY	-	expression tag	UNP A0A517NMB4
F	20	MET	-	initiating methionine	UNP A0A517NMB4
F	21	HIS	-	expression tag	UNP A0A517NMB4
F	22	HIS	-	expression tag	UNP A0A517NMB4
F	23	HIS	-	expression tag	UNP A0A517NMB4
F	24	HIS	-	expression tag	UNP A0A517NMB4
F	25	HIS	-	expression tag	UNP A0A517NMB4
F	26	HIS	-	expression tag	UNP A0A517NMB4
F	27	GLU	-	expression tag	UNP A0A517NMB4
F	28	ASN	-	expression tag	UNP A0A517NMB4
F	29	LEU	-	expression tag	UNP A0A517NMB4
F	30	TYR	-	expression tag	UNP A0A517NMB4
F	31	PHE	-	expression tag	UNP A0A517NMB4
F	32	GLN	-	expression tag	UNP A0A517NMB4
F	33	GLY	-	expression tag	UNP A0A517NMB4
F	34	SER	-	expression tag	UNP A0A517NMB4
F	35	GLY	-	expression tag	UNP A0A517NMB4

- Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).

EDO

O2
OH

C1

C2

HO
O1

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

- Molecule 3 is water.

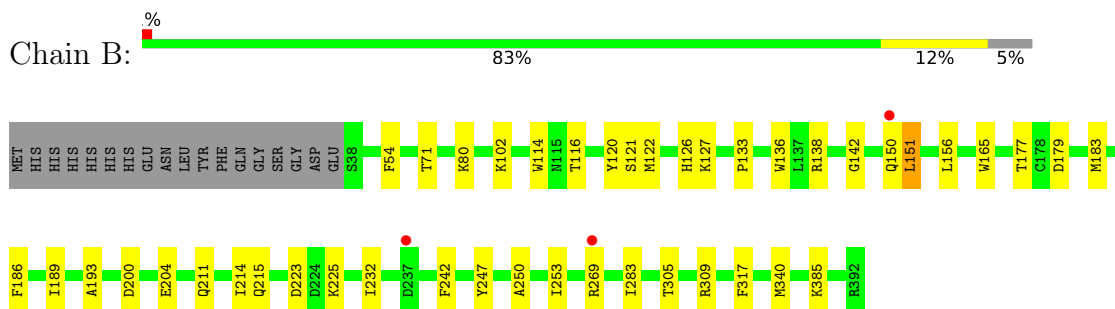| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	33	Total 33	O 33	0	0
3	B	47	Total 47	O 47	0	0
3	C	32	Total 32	O 32	0	0
3	D	27	Total 27	O 27	0	0
3	E	22	Total 22	O 22	0	0
3	F	5	Total 5	O 5	0	0

3 Residue-property plots ⓘ

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.
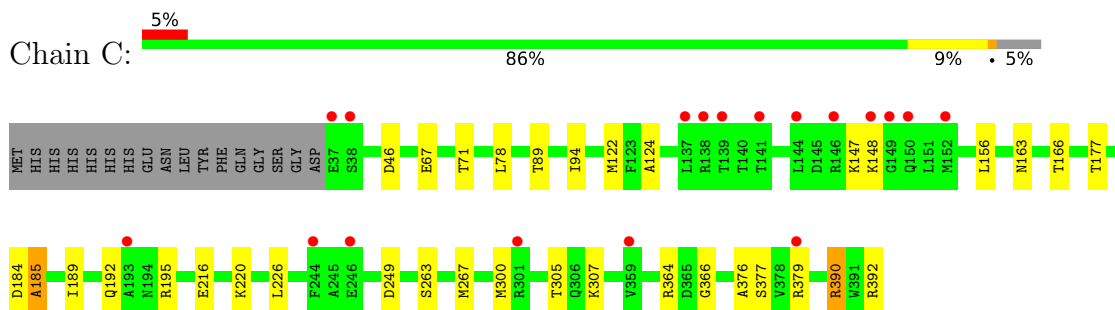
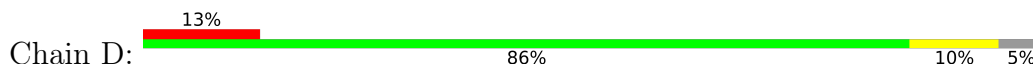• Molecule 1: Glycoside-hydrolase family GH114 TIM-barrel domain-containing protein

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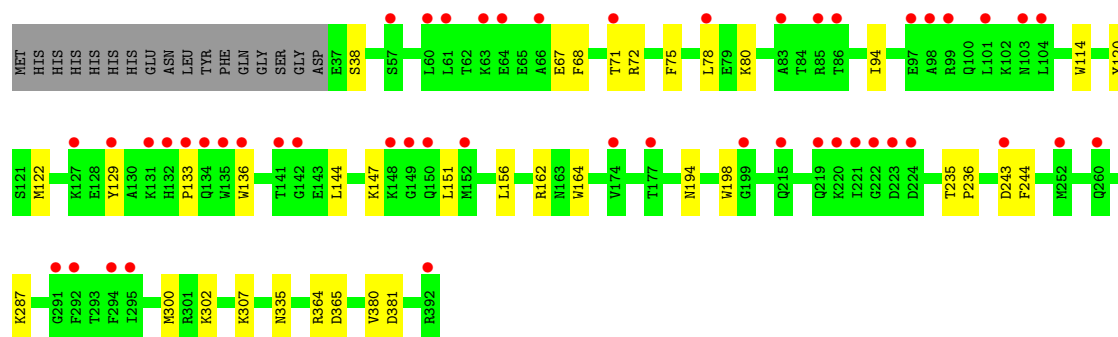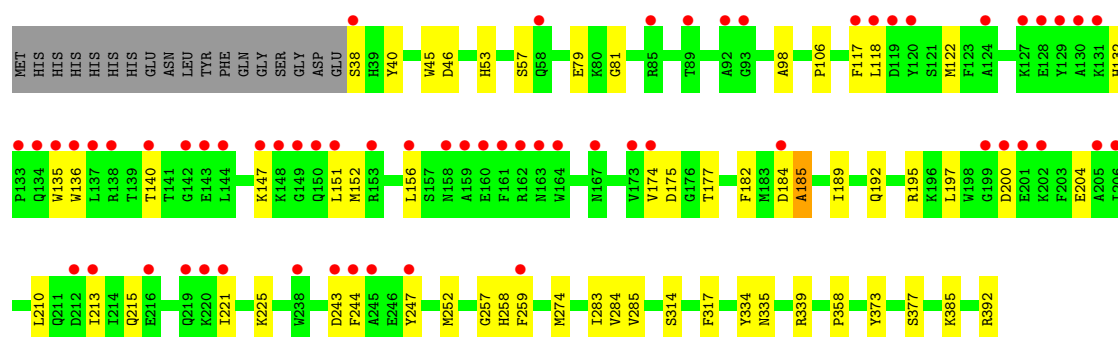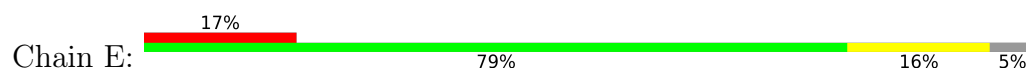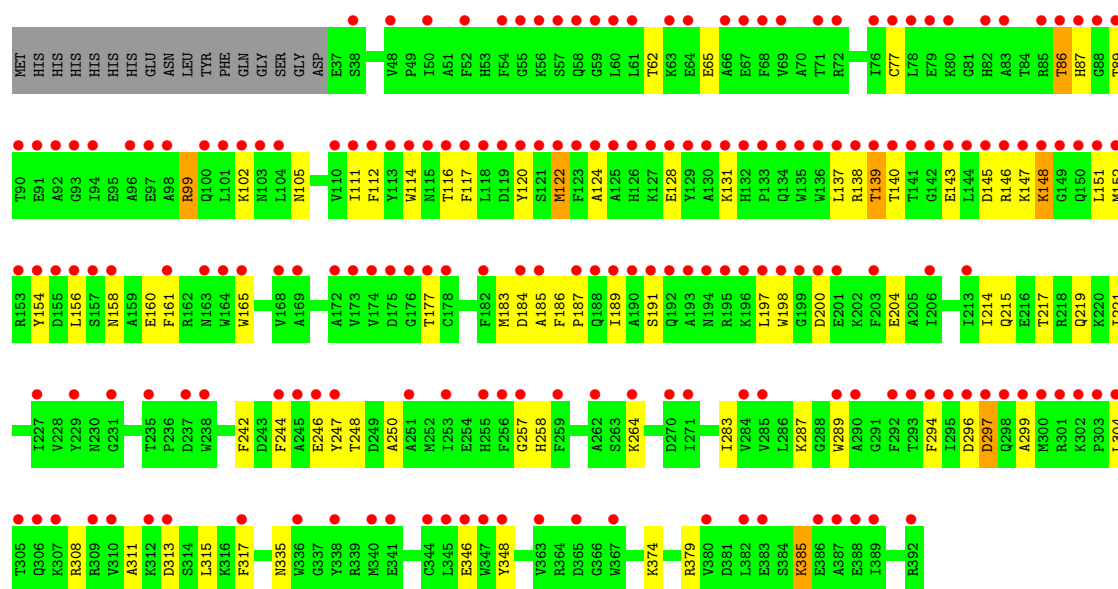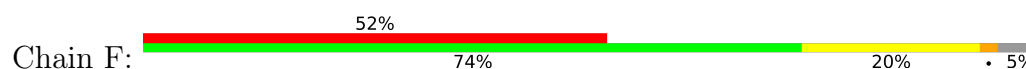
• Molecule 1: Glycoside-hydrolase family GH114 TIM-barrel domain-containing protein

Chain E:

• Molecule 1: Glycoside-hydrolase family GH114 TIM-barrel domain-containing protein

Chain F:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	91.84Å 81.90Å 160.31Å 90.00° 95.49° 90.00°	Depositor
Resolution (Å)	91.42 – 2.50 91.42 – 2.50	Depositor EDS
% Data completeness (in resolution range)	98.7 (91.42-2.50) 89.5 (91.42-2.50)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.47 (at 2.48Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.203 , 0.253 0.227 , 0.262	Depositor DCC
R_{free} test set	80205 reflections (2.42%)	wwPDB-VP
Wilson B-factor (Å^2)	32.3	Xtriage
Anisotropy	0.465	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 32.4	EDS
L-test for twinning[2]	$< \lvert L \rvert > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	16917	wwPDB-VP
Average B, all atoms (Å^2)	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 12.71% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< \lvert L \rvert >$, $< L^2 >$ 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	0.71	0/2932	0.77	0/3965
1	B	0.68	0/2892	0.77	0/3921
1	C	0.64	0/2888	0.74	0/3915
1	D	0.61	0/2810	0.72	0/3821
1	E	0.62	0/2881	0.70	0/3909
1	F	0.51	0/2818	0.68	0/3834
All	All	0.63	0/17221	0.73	0/23365

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	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	269	ARG	Sidechain

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	2853	0	2729	18	0
1	B	2813	0	2643	26	0
1	C	2809	0	2644	20	0
1	D	2733	0	2507	19	0
1	E	2792	0	2595	41	0
1	F	2739	0	2510	62	0
2	A	4	0	6	0	0
2	B	4	0	6	0	0
2	C	4	0	6	0	0
3	A	33	0	0	1	0
3	B	47	0	0	1	0
3	C	32	0	0	0	0
3	D	27	0	0	0	0
3	E	22	0	0	1	0
3	F	5	0	0	0	0
All	All	16917	0	15646	183	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 6.

The worst 5 of 183 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:E:221:ILE:HD12	1:E:225:LYS:HB2	1.54	0.88
1:E:156:LEU:HD11	1:E:189:ILE:HD13	1.61	0.81
1:F:102:LYS:HE3	1:F:177:THR:HG22	1.71	0.72
1:F:183:MET:HE1	1:F:214:ILE:HG12	1.74	0.69
1:F:147:LYS:N	1:F:151:LEU:O	2.26	0.69

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	355/373 (95%)	347 (98%)	8 (2%)	0	100	100
1	B	354/373 (95%)	341 (96%)	12 (3%)	1 (0%)	37	56
1	C	355/373 (95%)	345 (97%)	9 (2%)	1 (0%)	37	56
1	D	354/373 (95%)	344 (97%)	10 (3%)	0	100	100
1	E	356/373 (95%)	345 (97%)	9 (2%)	2 (1%)	22	39
1	F	355/373 (95%)	335 (94%)	18 (5%)	2 (1%)	22	39
All	All	2129/2238 (95%)	2057 (97%)	66 (3%)	6 (0%)	37	56

5 of 6 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	151	LEU
1	E	185	ALA
1	C	185	ALA
1	F	148	LYS
1	F	297	ASP

5.3.2 Protein sidechains ⓘ

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	282/313 (90%)	277 (98%)	5 (2%)	54	78
1	B	276/313 (88%)	271 (98%)	5 (2%)	54	78
1	C	274/313 (88%)	270 (98%)	4 (2%)	60	82
1	D	255/313 (82%)	251 (98%)	4 (2%)	58	80
1	E	270/313 (86%)	267 (99%)	3 (1%)	70	87
1	F	257/313 (82%)	247 (96%)	10 (4%)	27	52
All	All	1614/1878 (86%)	1583 (98%)	31 (2%)	52	77

5 of 31 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	38	SER
1	F	264	LYS
1	D	302	LYS
1	F	379	ARG
1	F	139	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	342	ASN
1	E	53	HIS
1	F	219	GLN
1	B	39	HIS
1	A	215	GLN

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 ⓘ

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	$\#|Z| > 2$
2	EDO	A	401	-	3,3,3	0.63	0	2,2,2	0.97	0
2	EDO	C	401	-	3,3,3	0.69	0	2,2,2	0.68	0
2	EDO	B	401	-	3,3,3	0.57	0	2,2,2	0.92	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	401	-	-	0/1/1/1	-
2	EDO	C	401	-	-	0/1/1/1	-
2	EDO	B	401	-	-	0/1/1/1	-

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 ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	356/373 (95%)	0.13	3 (0%)	82	79	18, 34, 46, 54	1 (0%)
1	B	355/373 (95%)	0.27	3 (0%)	82	79	19, 38, 48, 56	1 (0%)
1	C	356/373 (95%)	0.76	18 (5%)	34	32	23, 45, 68, 86	1 (0%)
1	D	356/373 (95%)	0.99	49 (13%)	8	7	34, 51, 69, 81	0
1	E	355/373 (95%)	1.07	62 (17%)	5	5	25, 49, 83, 97	3 (0%)
1	F	356/373 (95%)	2.27	193 (54%)	0	0	48, 75, 103, 122	1 (0%)
All	All	2134/2238 (95%)	0.92	328 (15%)	6	6	18, 45, 86, 122	7 (0%)

The worst 5 of 328 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	152	MET	5.7
1	F	298	GLN	5.7
1	F	144	LEU	5.6
1	F	145	ASP	5.5
1	E	219	GLN	5.5

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 monosaccharides in this entry.

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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	EDO	C	401	4/4	0.84	0.14	43,45,45,46	0
2	EDO	B	401	4/4	0.94	0.09	37,38,39,40	0
2	EDO	A	401	4/4	0.94	0.10	34,36,36,37	0

6.5 Other polymers (i)

There are no such residues in this entry.