



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 05:22 AM UTC

PDB ID : 5KOB / pdb_00005kob
Title : Crystal structure of a peptide deformylase from Burkholderia xenovorans
Authors : SSGCID; Seattle Structural Genomics Center for Infectious Disease (SSGCID)
Deposited on : 2016-06-30
Resolution : 1.60 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

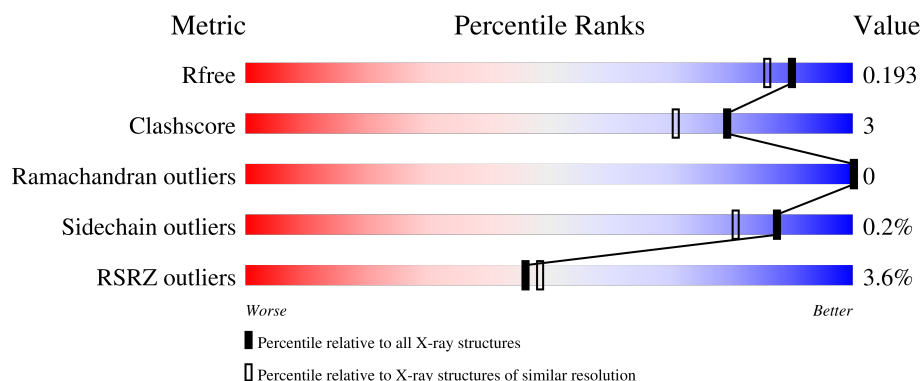
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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	4673 (1.60-1.60)
Clashscore	190562	4931 (1.60-1.60)
Ramachandran outliers	187476	4831 (1.60-1.60)
Sidechain outliers	187428	4830 (1.60-1.60)
RSRZ outliers	180081	4672 (1.60-1.60)

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	185	2% 91% 8%
1	B	185	5% 82% 5% 13%
1	C	185	4% 85% 6% 8%
1	D	185	2% 78% 6% 15%

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
4	EDO	B	208	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6066 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 Peptide deformylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	171	Total	C	N	O	S	0	9	0
			1399	905	236	248	10			
1	B	161	Total	C	N	O	S	0	6	0
			1275	824	214	229	8			
1	C	170	Total	C	N	O	S	0	11	0
			1372	890	232	238	12			
1	D	157	Total	C	N	O	S	0	5	0
			1248	809	213	217	9			

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	MET	-	initiating methionine	UNP Q13XB1
A	-6	ALA	-	expression tag	UNP Q13XB1
A	-5	HIS	-	expression tag	UNP Q13XB1
A	-4	HIS	-	expression tag	UNP Q13XB1
A	-3	HIS	-	expression tag	UNP Q13XB1
A	-2	HIS	-	expression tag	UNP Q13XB1
A	-1	HIS	-	expression tag	UNP Q13XB1
A	0	HIS	-	expression tag	UNP Q13XB1
B	-7	MET	-	initiating methionine	UNP Q13XB1
B	-6	ALA	-	expression tag	UNP Q13XB1
B	-5	HIS	-	expression tag	UNP Q13XB1
B	-4	HIS	-	expression tag	UNP Q13XB1
B	-3	HIS	-	expression tag	UNP Q13XB1
B	-2	HIS	-	expression tag	UNP Q13XB1
B	-1	HIS	-	expression tag	UNP Q13XB1
B	0	HIS	-	expression tag	UNP Q13XB1
C	-7	MET	-	initiating methionine	UNP Q13XB1
C	-6	ALA	-	expression tag	UNP Q13XB1
C	-5	HIS	-	expression tag	UNP Q13XB1
C	-4	HIS	-	expression tag	UNP Q13XB1
C	-3	HIS	-	expression tag	UNP Q13XB1

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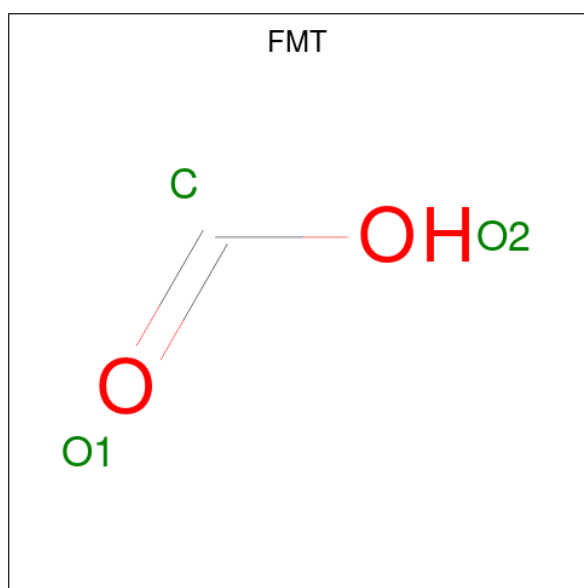
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Chain	Residue	Modelled	Actual	Comment	Reference
C	-2	HIS	-	expression tag	UNP Q13XB1
C	-1	HIS	-	expression tag	UNP Q13XB1
C	0	HIS	-	expression tag	UNP Q13XB1
D	-7	MET	-	initiating methionine	UNP Q13XB1
D	-6	ALA	-	expression tag	UNP Q13XB1
D	-5	HIS	-	expression tag	UNP Q13XB1
D	-4	HIS	-	expression tag	UNP Q13XB1
D	-3	HIS	-	expression tag	UNP Q13XB1
D	-2	HIS	-	expression tag	UNP Q13XB1
D	-1	HIS	-	expression tag	UNP Q13XB1
D	0	HIS	-	expression tag	UNP Q13XB1

- Molecule 2 is FE (II) ION (CCD ID: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Fe 1 1	0	0
2	B	1	Total Fe 1 1	0	0
2	C	1	Total Fe 1 1	0	0
2	D	1	Total Fe 1 1	0	0

- Molecule 3 is FORMIC ACID (CCD ID: FMT) (formula: CH₂O₂).



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

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

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



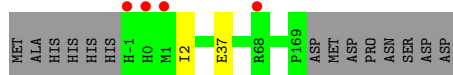
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			4	2	2		
4	D	1	Total	C	O	0	0
			4	2	2		
4	D	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	213	Total	O	0	1
			214	214		
5	B	177	Total	O	0	2
			179	179		
5	C	142	Total	O	0	0
			142	142		
5	D	149	Total	O	0	0
			149	149		

i

- Molecule 1: Peptide deformylase



- MET
ALA
HIS
HIS
HIS
HIS
HIS
HIS
M1
I2
L14
D18
P19
V20
D21
A42
F63
G64
HIS
ASN
GLU
ARG
TVR
PR0
ASP
ALA
P73
P74
H118
D128
R129
V130
C143
M153
F158
E165
P169
ASP
MET
ASP
PR0
ASN
SER
ASP
ASP

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| MET | ALA | HIS | HIS | HIS | HIS | HIS | HIS | HIS | MET | I2 | R3 | V88 | M92 | V102 | L105 | S110 | R111 | F112 | S113 | M114 | H118 | D121 | Q122 | Y123 | G124 | K125 | P126 | I127 | V130 | M153 | E165 | D170 | M171 | ASP | PRO | ASN | SER | ASP | ASP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|

- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MET | ALA | HIS | HIS | HIS | HIS | HIS | MET | I2 | R12 | R15 | F36 | N43 | F63 | GLY | HIS | ASN | GLU | ARG | TYR | PRO | ASP | ALA | PRO | PRO | V75 | E94 | E97 | L105 | Y117 | H135 | F158 | F161 | E165 | P169 | ASP | ASP | ASP | PRO | PRO | ASN | ASN | SER | ASP | ASP |
|-----|-----|-----|-----|-----|-----|-----|-----|----|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	63.55Å 92.00Å 142.11Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.07 – 1.60 49.07 – 1.60	Depositor EDS
% Data completeness (in resolution range)	99.3 (49.07-1.60) 99.3 (49.07-1.60)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.95 (at 1.60Å)	Xtriage
Refinement program	PHENIX (dev_2443: ???)	Depositor
R, R_{free}	0.165 , 0.192 0.165 , 0.193	Depositor DCC
R_{free} test set	1932 reflections (1.75%)	wwPDB-VP
Wilson B-factor (Å ²)	20.4	Xtriage
Anisotropy	0.574	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 51.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6066	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.28% 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: EDO, FE2, FMT

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	0.32	0/1466	0.52	0/1989
1	B	0.29	0/1324	0.53	0/1798
1	C	0.26	0/1445	0.49	0/1962
1	D	0.26	0/1295	0.49	0/1754
All	All	0.28	0/5530	0.51	0/7503

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 [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	1399	0	1393	2	0
1	B	1275	0	1241	10	0
1	C	1372	0	1360	10	0
1	D	1248	0	1240	8	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	18	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	18	0	6	2	0
3	C	27	0	9	0	0
3	D	9	0	3	0	0
4	B	4	0	6	4	0
4	D	8	0	12	1	0
5	A	214	0	0	1	0
5	B	179	0	0	2	0
5	C	142	0	0	1	0
5	D	149	0	0	1	0
All	All	6066	0	5276	29	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 3.

The worst 5 of 29 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:130:VAL:H	4:B:208:EDO:H22	1.27	0.98
1:B:130:VAL:N	4:B:208:EDO:H22	1.93	0.82
1:C:165:GLU:OE1	5:C:301:HOH:O	1.99	0.81
1:B:130:VAL:H	4:B:208:EDO:C2	2.03	0.70
1:D:94:GLU:OE2	5:D:301:HOH:O	2.14	0.64

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	178/185 (96%)	176 (99%)	2 (1%)	0	100	100
1	B	163/185 (88%)	161 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	179/185 (97%)	176 (98%)	3 (2%)	0	100	100
1	D	158/185 (85%)	156 (99%)	2 (1%)	0	100	100
All	All	678/740 (92%)	669 (99%)	9 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	154/159 (97%)	154 (100%)	0	100	100
1	B	136/159 (86%)	136 (100%)	0	100	100
1	C	149/159 (94%)	149 (100%)	0	100	100
1	D	134/159 (84%)	133 (99%)	1 (1%)	76	63
All	All	573/636 (90%)	572 (100%)	1 (0%)	87	81

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	165	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	90	GLN
1	C	65	HIS
1	C	118	HIS
1	C	156	ASN
1	D	135	HIS

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](#)

Of 31 ligands modelled in this entry, 4 are monoatomic - leaving 27 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	FMT	A	204	-	2,2,2	0.72	0	1,1,1	0.13	0
3	FMT	B	207	-	2,2,2	0.65	0	1,1,1	0.01	0
3	FMT	A	205	-	2,2,2	0.75	0	1,1,1	0.25	0
3	FMT	B	205	-	2,2,2	0.72	0	1,1,1	0.17	0
4	EDO	B	208	-	3,3,3	0.31	0	2,2,2	0.48	0
3	FMT	C	208	-	2,2,2	0.72	0	1,1,1	0.17	0
3	FMT	A	206	-	2,2,2	0.68	0	1,1,1	0.06	0
3	FMT	B	203	-	2,2,2	0.75	0	1,1,1	0.27	0
3	FMT	A	202	-	2,2,2	0.74	0	1,1,1	0.28	0
3	FMT	C	204	-	2,2,2	0.73	0	1,1,1	0.14	0
3	FMT	D	203	-	2,2,2	0.72	0	1,1,1	0.16	0
3	FMT	D	204	-	2,2,2	0.72	0	1,1,1	0.18	0
3	FMT	B	206	-	2,2,2	0.68	0	1,1,1	0.08	0
3	FMT	A	207	-	2,2,2	0.69	0	1,1,1	0.15	0
3	FMT	C	210	-	2,2,2	0.73	0	1,1,1	0.30	0
3	FMT	C	205	-	2,2,2	0.72	0	1,1,1	0.15	0
3	FMT	B	204	-	2,2,2	0.73	0	1,1,1	0.17	0
4	EDO	D	205	-	3,3,3	0.42	0	2,2,2	0.36	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	FMT	C	206	-	2,2,2	0.72	0	1,1,1	0.22	0
3	FMT	C	207	-	2,2,2	0.73	0	1,1,1	0.12	0
3	FMT	C	203	-	2,2,2	0.72	0	1,1,1	0.37	0
4	EDO	D	206	-	3,3,3	0.47	0	2,2,2	0.19	0
3	FMT	C	202	-	2,2,2	0.76	0	1,1,1	0.38	0
3	FMT	C	209	-	2,2,2	0.70	0	1,1,1	0.10	0
3	FMT	A	203	-	2,2,2	0.74	0	1,1,1	0.29	0
3	FMT	D	202	-	2,2,2	0.68	0	1,1,1	0.21	0
3	FMT	B	202	-	2,2,2	0.71	0	1,1,1	0.19	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
4	EDO	D	206	-	-	1/1/1/1	-
4	EDO	D	205	-	-	1/1/1/1	-
4	EDO	B	208	-	-	0/1/1/1	-

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	D	206	EDO	O1-C1-C2-O2
4	D	205	EDO	O1-C1-C2-O2

There are no ring outliers.

4 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	208	EDO	4	0
3	B	204	FMT	1	0
4	D	205	EDO	1	0
3	B	202	FMT	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 [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	171/185 (92%)	-0.06	4 (2%) 61 64	11, 23, 45, 62	9 (5%)
1	B	161/185 (87%)	-0.01	9 (5%) 30 31	10, 22, 50, 69	6 (3%)
1	C	170/185 (91%)	0.14	7 (4%) 41 43	11, 28, 50, 69	11 (6%)
1	D	157/185 (84%)	0.10	4 (2%) 58 61	12, 27, 51, 60	5 (3%)
All	All	659/740 (89%)	0.04	24 (3%) 46 48	10, 25, 50, 69	31 (4%)

The worst 5 of 24 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	2	ILE	5.7
1	B	74	PRO	4.9
1	D	2	ILE	4.9
1	B	2	ILE	4.6
1	A	-1	HIS	4.5

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
3	FMT	C	205	3/3	0.75	0.18	69,69,69,71	0
3	FMT	C	210	3/3	0.76	0.15	73,73,74,75	0
4	EDO	D	205	4/4	0.79	0.18	45,46,48,52	0
3	FMT	C	203	3/3	0.80	0.20	45,45,46,50	0
3	FMT	B	203	3/3	0.81	0.17	62,62,64,64	0
3	FMT	B	205	3/3	0.84	0.14	50,50,51,54	0
4	EDO	D	206	4/4	0.84	0.16	53,61,66,68	0
3	FMT	D	204	3/3	0.85	0.15	63,63,64,66	0
3	FMT	A	207	3/3	0.85	0.11	53,53,56,59	0
3	FMT	A	205	3/3	0.85	0.12	58,58,61,61	0
3	FMT	C	208	3/3	0.86	0.10	56,56,57,58	0
3	FMT	A	203	3/3	0.86	0.14	39,39,42,42	0
3	FMT	D	203	3/3	0.86	0.15	50,50,52,56	0
3	FMT	C	206	3/3	0.87	0.11	61,61,62,63	0
3	FMT	C	207	3/3	0.87	0.12	64,64,66,66	0
3	FMT	B	204	3/3	0.87	0.15	51,51,54,55	0
3	FMT	A	204	3/3	0.87	0.15	56,56,56,61	0
3	FMT	A	202	3/3	0.88	0.14	46,46,47,50	0
3	FMT	A	206	3/3	0.90	0.15	38,38,59,59	0
3	FMT	B	207	3/3	0.90	0.14	24,24,47,52	0
3	FMT	B	206	3/3	0.91	0.12	41,41,55,59	0
4	EDO	B	208	4/4	0.91	0.12	29,39,45,48	0
3	FMT	D	202	3/3	0.92	0.11	52,52,53,54	0
3	FMT	C	202	3/3	0.92	0.10	29,29,36,37	0
3	FMT	C	209	3/3	0.94	0.09	41,41,46,50	0
3	FMT	B	202	3/3	0.95	0.08	33,33,48,51	0
3	FMT	C	204	3/3	0.95	0.13	31,31,41,41	0
2	FE2	D	201	1/1	0.99	0.03	19,19,19,19	1
2	FE2	B	201	1/1	1.00	0.03	18,18,18,18	1
2	FE2	C	201	1/1	1.00	0.02	17,17,17,17	1
2	FE2	A	201	1/1	1.00	0.02	15,15,15,15	1

6.5 Other polymers ⓘ

There are no such residues in this entry.