



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 01:19 PM GMT

PDB ID : 3TN3
Title : Crystal structure of GkaP from Geobacillus kaustophilus HTA426
Authors : An, J.; Zhang, Z.; Zhang, Y.; Feng, Y.; Wu, G.
Deposited on : 2011-09-01
Resolution : 1.60 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

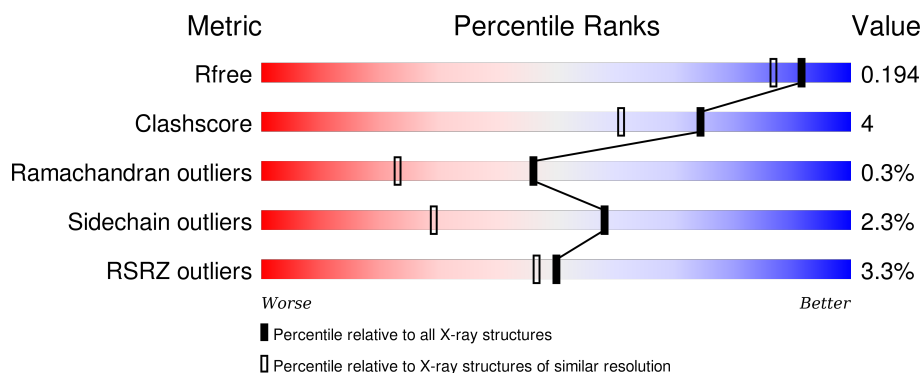
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


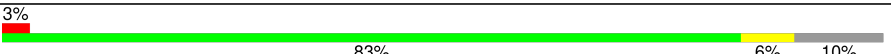
The reported resolution of this entry is 1.60 Å.

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}	91344	2475 (1.60-1.60)
Clashscore	102246	2732 (1.60-1.60)
Ramachandran outliers	100387	2654 (1.60-1.60)
Sidechain outliers	100360	2653 (1.60-1.60)
RSRZ outliers	91569	2479 (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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	360	 3% 83% 7% 10%
1	B	360	 3% 83% 6% 10%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5830 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 Phosphotriesterase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	323	Total	C	N	O	S	0	0	0
			2541	1615	435	475	16			
1	B	324	Total	C	N	O	S	0	0	0
			2548	1620	436	476	16			

There are 68 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-33	MET	-	EXPRESSION TAG	UNP Q5KZU5
A	-32	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	-31	SER	-	EXPRESSION TAG	UNP Q5KZU5
A	-30	SER	-	EXPRESSION TAG	UNP Q5KZU5
A	-29	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-28	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-27	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-26	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-25	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-24	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-23	SER	-	EXPRESSION TAG	UNP Q5KZU5
A	-22	SER	-	EXPRESSION TAG	UNP Q5KZU5
A	-21	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	-20	LEU	-	EXPRESSION TAG	UNP Q5KZU5
A	-19	VAL	-	EXPRESSION TAG	UNP Q5KZU5
A	-18	PRO	-	EXPRESSION TAG	UNP Q5KZU5
A	-17	ARG	-	EXPRESSION TAG	UNP Q5KZU5
A	-16	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	-15	SER	-	EXPRESSION TAG	UNP Q5KZU5
A	-14	HIS	-	EXPRESSION TAG	UNP Q5KZU5
A	-13	MET	-	EXPRESSION TAG	UNP Q5KZU5
A	-12	ALA	-	EXPRESSION TAG	UNP Q5KZU5
A	-11	SER	-	EXPRESSION TAG	UNP Q5KZU5
A	-10	MET	-	EXPRESSION TAG	UNP Q5KZU5
A	-9	THR	-	EXPRESSION TAG	UNP Q5KZU5

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-8	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	-7	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	-6	GLN	-	EXPRESSION TAG	UNP Q5KZU5
A	-5	GLN	-	EXPRESSION TAG	UNP Q5KZU5
A	-4	MET	-	EXPRESSION TAG	UNP Q5KZU5
A	-3	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	-2	ARG	-	EXPRESSION TAG	UNP Q5KZU5
A	-1	GLY	-	EXPRESSION TAG	UNP Q5KZU5
A	0	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-33	MET	-	EXPRESSION TAG	UNP Q5KZU5
B	-32	GLY	-	EXPRESSION TAG	UNP Q5KZU5
B	-31	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-30	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-29	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-28	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-27	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-26	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-25	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-24	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-23	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-22	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-21	GLY	-	EXPRESSION TAG	UNP Q5KZU5
B	-20	LEU	-	EXPRESSION TAG	UNP Q5KZU5
B	-19	VAL	-	EXPRESSION TAG	UNP Q5KZU5
B	-18	PRO	-	EXPRESSION TAG	UNP Q5KZU5
B	-17	ARG	-	EXPRESSION TAG	UNP Q5KZU5
B	-16	GLY	-	EXPRESSION TAG	UNP Q5KZU5
B	-15	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-14	HIS	-	EXPRESSION TAG	UNP Q5KZU5
B	-13	MET	-	EXPRESSION TAG	UNP Q5KZU5
B	-12	ALA	-	EXPRESSION TAG	UNP Q5KZU5
B	-11	SER	-	EXPRESSION TAG	UNP Q5KZU5
B	-10	MET	-	EXPRESSION TAG	UNP Q5KZU5
B	-9	THR	-	EXPRESSION TAG	UNP Q5KZU5
B	-8	GLY	-	EXPRESSION TAG	UNP Q5KZU5
B	-7	GLY	-	EXPRESSION TAG	UNP Q5KZU5
B	-6	GLN	-	EXPRESSION TAG	UNP Q5KZU5
B	-5	GLN	-	EXPRESSION TAG	UNP Q5KZU5
B	-4	MET	-	EXPRESSION TAG	UNP Q5KZU5
B	-3	GLY	-	EXPRESSION TAG	UNP Q5KZU5
B	-2	ARG	-	EXPRESSION TAG	UNP Q5KZU5
B	-1	GLY	-	EXPRESSION TAG	UNP Q5KZU5

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Chain	Residue	Modelled	Actual	Comment	Reference
B	0	SER	-	EXPRESSION TAG	UNP Q5KZU5

- Molecule 2 is COBALT (II) ION (three-letter code: CO) (formula: Co).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	2	Total Co 2 2	0	0
2	A	2	Total Co 2 2	0	0


- Molecule 3 is water.

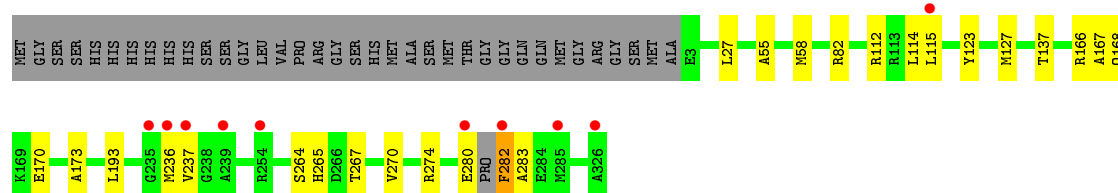
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	372	Total O 372 372	0	0
3	B	365	Total O 365 365	0	0

3 Residue-property plots [i](#)


These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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 ($\text{RSRZ} > 2$). 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.

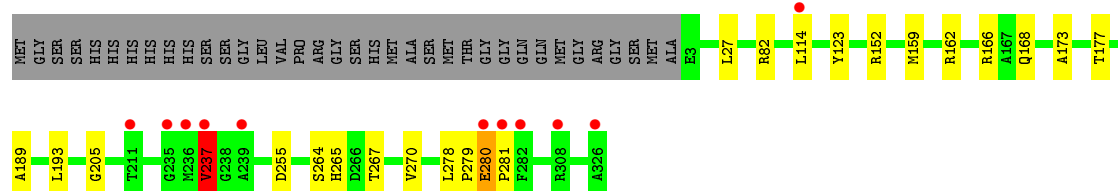
• Molecule 1: Phosphotriesterase

Chain A: 



• Molecule 1: Phosphotriesterase

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	51.31Å 88.15Å 89.99Å 90.00° 99.19° 90.00°	Depositor
Resolution (Å)	44.07 – 1.60 44.07 – 1.60	Depositor EDS
% Data completeness (in resolution range)	95.6 (44.07-1.60) 95.6 (44.07-1.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.45 (at 1.60Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.178 , 0.194 0.178 , 0.194	Depositor DCC
R_{free} test set	4942 reflections (5.25%)	DCC
Wilson B-factor (Å ²)	19.5	Xtriage
Anisotropy	0.039	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 99109 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5830	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.00% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: CO, KCX

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	0/2585	0.53	0/3495
1	B	0.36	0/2594	0.53	0/3510
All	All	0.37	0/5179	0.53	0/7005

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	2541	0	2483	16	0
1	B	2548	0	2491	24	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	372	0	0	0	0
3	B	365	0	0	3	0
All	All	5830	0	4974	40	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 4.

All (40) 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:279:PRO:C	1:B:281:PRO:HD2	1.49	1.31
1:B:279:PRO:C	1:B:281:PRO:CD	2.36	0.92
1:A:123:TYR:CE1	1:A:127:MET:HE2	2.04	0.92
1:B:280:GLU:N	1:B:281:PRO:HD2	1.84	0.92
1:A:127:MET:HE1	1:A:170:GLU:HB2	1.60	0.80
1:A:123:TYR:HE1	1:A:127:MET:HE2	1.47	0.80
1:B:279:PRO:HB2	1:B:281:PRO:CG	2.12	0.78
1:B:159:MET:HG2	3:B:659:HOH:O	1.84	0.78
1:B:280:GLU:N	1:B:281:PRO:CD	2.49	0.72
1:B:279:PRO:CA	1:B:281:PRO:HD2	2.23	0.69
1:B:279:PRO:CB	1:B:281:PRO:HD2	2.24	0.67
1:B:82:ARG:NH1	3:B:406:HOH:O	2.28	0.66
1:B:162:ARG:NH2	3:B:659:HOH:O	2.27	0.65
1:A:55:ALA:HA	1:A:58:MET:HE2	1.79	0.64
1:B:280:GLU:OE1	1:B:280:GLU:HA	1.96	0.64
1:B:279:PRO:HB2	1:B:281:PRO:HG2	1.81	0.62
1:B:279:PRO:O	1:B:281:PRO:HD2	2.00	0.60
1:B:279:PRO:HB2	1:B:281:PRO:CD	2.32	0.59
1:A:168:GLN:HG3	1:A:173:ALA:O	2.02	0.59
1:B:123:TYR:CE1	1:B:166:ARG:HG2	2.38	0.58
1:A:55:ALA:HA	1:A:58:MET:CE	2.34	0.57
1:B:279:PRO:HB2	1:B:281:PRO:HD2	1.87	0.57
1:A:127:MET:CE	1:A:167:ALA:HA	2.36	0.56
1:A:127:MET:CE	1:A:170:GLU:HB2	2.33	0.56
1:B:168:GLN:HG3	1:B:173:ALA:O	2.07	0.55
1:B:237:VAL:HG13	1:B:237:VAL:O	2.07	0.54
1:B:279:PRO:O	1:B:281:PRO:CD	2.55	0.54
1:B:265:HIS:HB2	1:B:267:THR:HG23	1.89	0.53
1:A:123:TYR:CE1	1:A:166:ARG:HG2	2.43	0.53
1:A:127:MET:HE1	1:A:167:ALA:HA	1.94	0.49
1:A:265:HIS:HB2	1:A:267:THR:HG23	1.98	0.46
1:A:280:GLU:HG2	1:A:283:ALA:HB3	1.98	0.46
1:B:27:LEU:HD23	1:B:270:VAL:HB	1.97	0.45
1:A:236:MET:HG2	1:A:282:PHE:CE2	2.52	0.45
1:B:279:PRO:CB	1:B:281:PRO:CD	2.92	0.43
1:A:27:LEU:HD23	1:A:270:VAL:HB	1.99	0.43
1:A:82:ARG:NH2	1:A:137:THR:O	2.45	0.42
1:B:189:ALA:O	1:B:193:LEU:HG	2.20	0.41
1:A:112:ARG:HA	1:A:115:LEU:HD12	2.02	0.40
1:B:177:THR:O	1:B:205:GLY:HA3	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	318/360 (88%)	313 (98%)	4 (1%)	1 (0%)	46	23
1	B	321/360 (89%)	312 (97%)	8 (2%)	1 (0%)	46	23
All	All	639/720 (89%)	625 (98%)	12 (2%)	2 (0%)	46	23

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	237	VAL
1	A	237	VAL

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	262/290 (90%)	257 (98%)	5 (2%)	65	39
1	B	263/290 (91%)	256 (97%)	7 (3%)	52	23
All	All	525/580 (90%)	513 (98%)	12 (2%)	58	29

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	114	LEU

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Mol	Chain	Res	Type
1	A	193	LEU
1	A	264	SER
1	A	274	ARG
1	A	282	PHE
1	B	114	LEU
1	B	152	ARG
1	B	237	VAL
1	B	255	ASP
1	B	264	SER
1	B	278	LEU
1	B	280	GLU

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

Mol	Chain	Res	Type
1	A	16	GLN
1	A	64	GLN
1	A	304	ASN
1	B	195	HIS
1	B	304	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	KCX	A	145	1,2	7,11,12	0.77	0	7,12,14	1.14	2 (28%)
1	KCX	B	145	1,2	7,11,12	0.67	0	7,12,14	1.03	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
1	KCX	A	145	1,2	-	0/6/10/12	0/0/0/0
1	KCX	B	145	1,2	-	0/6/10/12	0/0/0/0

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	145	KCX	O-C-CA	-2.04	120.17	125.49
1	A	145	KCX	CE-NZ-CX	-2.03	121.20	123.49

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

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 [i](#)

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	322/360 (89%)	-0.11	10 (3%)	52	50	13, 21, 32, 45	5 (1%)
1	B	323/360 (89%)	0.03	11 (3%)	49	45	14, 22, 33, 46	4 (1%)
All	All	645/720 (89%)	-0.04	21 (3%)	50	47	13, 22, 33, 46	9 (1%)

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	326	ALA	7.3
1	A	282	PHE	7.0
1	B	282	PHE	6.5
1	B	280	GLU	3.9
1	B	237	VAL	3.9
1	B	326	ALA	3.9
1	B	235	GLY	3.7
1	B	239	ALA	3.6
1	A	235	GLY	3.1
1	B	211	THR	3.1
1	A	280	GLU	2.9
1	A	115	LEU	2.7
1	B	281	PRO	2.6
1	A	237	VAL	2.5
1	A	236	MET	2.4
1	A	254	ARG	2.4
1	B	308	ARG	2.4
1	A	285	MET	2.3
1	A	239	ALA	2.2
1	B	236	MET	2.1
1	B	114	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
1	KCX	A	145	12/13	0.96	0.09	-	12,13,17,17	0
1	KCX	B	145	12/13	0.92	0.10	-	14,15,18,18	0

6.3 Carbohydrates [i](#)

There are no carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	CO	B	328	1/1	0.96	0.14	1.69	23,23,23,23	1
2	CO	A	328	1/1	0.94	0.09	0.18	27,27,27,27	0
2	CO	B	327	1/1	0.96	0.15	-	22,22,22,22	1
2	CO	A	327	1/1	0.95	0.11	-	27,27,27,27	0

6.5 Other polymers [i](#)

There are no such residues in this entry.