

# Full wwPDB X-ray Structure Validation Report (i)

#### Nov 4, 2023 – 03:49 PM EDT

PDB ID	:	5QA4
Title	:	OXA-48 IN COMPLEX WITH COMPOUND 3a
Authors	:	Lund, B.A.
Deposited on	:	2017-07-11
Resolution	:	1.95 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 (i) 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 (1)) were used in the production of this report:

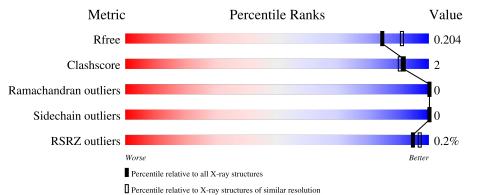
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber $(2001)$
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 1.95 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	А	243	95%	5%
1	В	243	93%	7%
1	С	243	97%	<del>.</del>
1	D	243	% 98%	•



# 2 Entry composition (i)

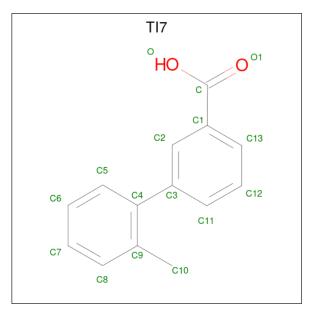
There are 5 unique types of molecules in this entry. The entry contains 17212 atoms, of which 7900 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	А	242	Total	С	Η	Ν	0	$\mathbf{S}$	0	6	0
	A	242	3992	1288	1967	355	373	9	0		0
1	В	242	Total	С	Η	Ν	0	S	0	5	0
1	D		3980	1285	1962	354	371	8			
1	С	242	Total	С	Н	Ν	0	S	0	F	0
1	U	242	3981	1285	1962	354	371	9	0	5	0
1	1 D	242	Total	С	Н	Ν	0	S	0	5	0
	D	242	3978	1285	1959	354	371	9	0		0

• Molecule 1 is a protein called Beta-lactamase.

• Molecule 2 is 3-(2-methylphenyl)benzoic acid (three-letter code: TI7) (formula:  $C_{14}H_{12}O_2$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
9	2 A	1	Total	С	Η	Ο	0	0
		1	27	14	11	2	0	0
9	В	1	Total	С	Η	Ο	0	0
	D	1	27	14	11	2	0	

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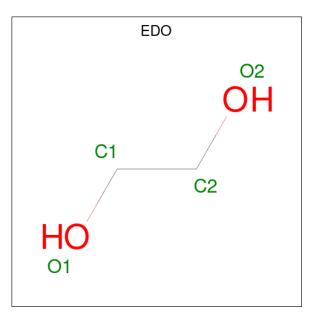


	Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
	2 C	1	Total	С	Η	Ο	0	0	
		1	27	14	11	2	0		
	0	Л	1	Total	С	Η	Ο	0	0
	Z	D	1	27	14	11	2	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	2	Total Cl 2 2	0	0
3	С	1	Total Cl 1 1	0	0

• Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $C_2H_6O_2$ ).



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

• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	317	Total O 317 317	0	0
5	В	287	Total O 287 287	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	С	282	Total         O           282         282	0	0
5	D	274	Total         O           274         274	0	0



# 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.

Chain A:	95%	5%
LYS E24 W25 W73 A65 A65 A65 C26 V256 V226 V226 V233 V233 V233 V238 V238 V238	7244 0266 7265	
• Molecule 1: Beta-lactama	se	
Chain B:	93%	7%
LYS E24 W25 W25 W25 W25 W29 W31 W31 W31 M57 M57 M57 M57 M57 M57 M57 M57 M57 M57	4103 1226 1230 1230 1230 1230 1226 1226 1226 1226 1226 1226 1226	
• Molecule 1: Beta-lactama	se	
Chain C:	97%	
LYS E24 W31 W57 W57 W57 K73 K73 K73 K73 K73 K73 K73 K73 K73 K7		
• Molecule 1: Beta-lactama	se	
Chain D:	98%	
LYS 24 10 10 10 10 10 10 10 10 10 10 10 10 10		

• Molecule 1: Beta-lactamase



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	89.10Å 108.94Å 124.91Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	43.56 - 1.95	Depositor
Resolution (A)	46.47 - 1.82	EDS
% Data completeness	99.6 (43.56-1.95)	Depositor
(in resolution range)	88.1 (46.47-1.82)	EDS
R <sub>merge</sub>	0.13	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.06 (at 1.82 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
D D.	0.166 , $0.203$	Depositor
$R, R_{free}$	0.167 , $0.204$	DCC
$R_{free}$ test set	2000 reflections $(1.84\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	15.9	Xtriage
Anisotropy	0.463	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.38, 51.3	EDS
L-test for twinning <sup>2</sup>	$ \langle L  \rangle = 0.51, \langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	17212	wwPDB-VP
Average B, all atoms $(Å^2)$	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 48.52 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 8.5037e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: CL, TI7, KCX, 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	Mol Chain		lengths	Bond angles	
	Unam	RMSZ   #  Z  > 5		RMSZ	# Z  > 5
1	А	0.40	0/2061	0.56	0/2786
1	В	0.40	0/2054	0.58	0/2778
1	С	0.38	0/2055	0.55	0/2778
1	D	0.38	0/2055	0.56	0/2778
All	All	0.39	0/8225	0.56	0/11120

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	А	2025	1967	1972	6	0
1	В	2018	1962	1968	11	0
1	С	2019	1962	1968	4	0
1	D	2019	1959	1968	2	0
2	А	16	11	0	1	0
2	В	16	11	0	1	0
2	С	16	11	0	1	0
2	D	16	11	0	0	0
3	В	2	0	0	1	0

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Mol	Ű	-	H(model)	H(added)	Clashes	Symm-Clashes
3	С	1	0	0	0	0
4	В	4	6	6	0	0
5	А	317	0	0	3	5
5	В	287	0	0	7	2
5	С	282	0	0	2	5
5	D	274	0	0	1	2
All	All	9312	7900	7882	26	7

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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 2.

All (26) 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:C:24:GLU:OE1	5:C:401:HOH:O	1.98	0.81
1:B:129:GLN:OE1	5:B:401:HOH:O	1.99	0.79
3:B:303:CL:CL	5:B:453:HOH:O	2.38	0.78
1:B:36:THR:OG1	5:B:402:HOH:O	2.03	0.77
1:A:243:THR:HG22	1:A:245:ASP:H	1.52	0.74
2:A:301:TI7:O	5:A:401:HOH:O	2.08	0.72
2:C:301:TI7:O	5:C:402:HOH:O	2.12	0.66
1:D:98:GLN:OE1	5:D:401:HOH:O	2.13	0.65
1:B:265:PRO:O	5:B:403:HOH:O	2.13	0.65
2:B:301:TI7:O1	5:B:404:HOH:O	2.15	0.65
1:B:230:ASP:OD1	5:B:405:HOH:O	2.15	0.62
1:B:24:GLU:HG3	1:B:25:TRP:CD1	2.40	0.55
1:A:260:GLN:NE2	5:A:406:HOH:O	2.41	0.54
1:B:65:ALA:HB1	1:B:163:ARG:HB3	1.89	0.54
1:D:31:TRP:HB2	1:D:57:ASN:HB3	1.89	0.53
1:A:26:GLN:OE1	5:A:402:HOH:O	2.17	0.53
1:A:65:ALA:HB1	1:A:163:ARG:HB3	1.92	0.52
1:B:31:TRP:HB2	1:B:57:ASN:HB3	1.93	0.48
1:B:252:ALA:O	1:B:256:GLU:HG3	2.13	0.48
1:C:31:TRP:HB2	1:C:57:ASN:HB3	1.99	0.44
1:B:226[A]:VAL:CG1	1:B:233:TRP:HB2	2.49	0.42
1:C:252:ALA:O	1:C:256:GLU:HG3	2.19	0.42
1:A:226[A]:VAL:CG1	1:A:233:TRP:HB2	2.50	0.41
1:B:147:GLU:OE2	1:C:60:LYS:HE3	2.20	0.41
1:A:220:GLY:O	1:A:238:ASN:HA	2.21	0.41
1:B:29:LYS:NZ	5:B:417:HOH:O	2.53	0.40



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:668:HOH:O	5:D:606:HOH:O[2_794]	1.88	0.32
5:A:622:HOH:O	5:C:662:HOH:O[3_755]	1.95	0.25
5:A:647:HOH:O	5:C:674:HOH:O[3_755]	1.96	0.24
5:A:687:HOH:O	5:C:616:HOH:O[3_755]	2.00	0.20
5:A:550:HOH:O	5:C:501:HOH:O[3_755]	2.16	0.04
5:A:647:HOH:O	5:C:610:HOH:O[3_755]	2.19	0.01
5:B:582:HOH:O	5:D:506:HOH:O[2_794]	2.19	0.01

All (7) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

#### 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	Perce	entiles
1	А	245/243~(101%)	240 (98%)	5(2%)	0	100	100
1	В	244/243~(100%)	239~(98%)	5(2%)	0	100	100
1	$\mathbf{C}$	244/243~(100%)	239~(98%)	5(2%)	0	100	100
1	D	244/243~(100%)	239~(98%)	5 (2%)	0	100	100
All	All	977/972~(100%)	957~(98%)	20~(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	А	216/211~(102%)	216 (100%)	0	100 100
1	В	$215/211 \ (102\%)$	215 (100%)	0	100 100
1	С	215/211 (102%)	215 (100%)	0	100 100
1	D	215/211~(102%)	215 (100%)	0	100 100
All	All	861/844 (102%)	861 (100%)	0	100 100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	В	38	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)

4 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	Turne	Chain	Res	Link	B	ond leng	gths	В	Bond ang	gles
INIOI	Type	Unam	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
1	KCX	В	73	1	9,11,12	0.95	0	$5,\!12,\!14$	1.64	1 (20%)
1	KCX	А	73	1	9,11,12	1.03	1 (11%)	5,12,14	1.66	1 (20%)
1	KCX	D	73	1	9,11,12	1.19	0	5,12,14	1.56	1 (20%)
1	KCX	С	73	1	9,11,12	1.21	1 (11%)	$5,\!12,\!14$	1.96	1 (20%)

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	В	73	1	-	0/9/10/12	-
1	KCX	А	73	1	-	0/9/10/12	-
1	KCX	D	73	1	-	0/9/10/12	-
1	KCX	С	73	1	-	0/9/10/12	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
1	С	73	KCX	CE-NZ	2.69	1.52	1.46
1	А	73	KCX	OQ1-CX	2.43	1.26	1.21

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	С	73	KCX	OQ1-CX-NZ	-4.30	118.29	124.96
1	А	73	KCX	OQ1-CX-NZ	-3.65	119.30	124.96
1	В	73	KCX	OQ1-CX-NZ	-3.42	119.65	124.96
1	D	73	KCX	OQ1-CX-NZ	-3.31	119.82	124.96

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 monosaccharides in this entry.

#### 5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 3 are monoatomic - leaving 5 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	Turne	Chain	Res	Link	Bo	Bond lengths			Bond angles		
	Type	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
2	TI7	А	301	-	$17,\!17,\!17$	0.52	0	$23,\!23,\!23$	0.48	0	
2	TI7	С	301	-	17,17,17	0.55	0	$23,\!23,\!23$	0.45	0	
4	EDO	В	304	-	$3,\!3,\!3$	0.44	0	$2,\!2,\!2$	0.26	0	
2	TI7	D	301	-	17,17,17	0.53	0	23,23,23	0.46	0	
2	TI7	В	301	-	17,17,17	0.55	0	23,23,23	0.44	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	TI7	А	301	-	-	0/8/8/8	0/2/2/2
2	TI7	С	301	-	-	0/8/8/8	0/2/2/2
4	EDO	В	304	-	-	0/1/1/1	-
2	TI7	D	301	-	-	4/8/8/8	0/2/2/2
2	TI7	В	301	-	-	0/8/8/8	0/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D	301	TI7	O-C-C1-C2
2	D	301	TI7	O-C-C1-C13
2	D	301	TI7	O1-C-C1-C2
2	D	301	TI7	O1-C-C1-C13

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	301	TI7	1	0
2	С	301	TI7	1	0
2	В	301	TI7	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,  $95^{th}$  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	$\langle RSRZ \rangle$	#RSRZ>2		$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q<0.9		
1	А	241/243~(99%)	-0.58	0	100		100	14, 20, 42, 52	0
1	В	241/243~(99%)	-0.57	0	100	1	100	12, 19, 40, 61	0
1	С	241/243~(99%)	-0.47	0	100		100	12, 20, 42, 59	0
1	D	241/243~(99%)	-0.38	2 (0	%) 8	86	90	13, 21, 42, 62	0
All	All	964/972~(99%)	-0.50	2 (0	%) 9	95	97	12, 20, 42, 62	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	99	THR	2.6
1	D	95	TRP	2.2

### 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. The B-factors column lists the minimum, median,  $95^{th}$  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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
1	KCX	С	73	12/13	0.97	0.08	13,16,20,24	0
1	KCX	В	73	12/13	0.98	0.07	$9,\!12,\!17,\!17$	0
1	KCX	А	73	12/13	0.98	0.07	13,16,21,21	0
1	KCX	D	73	12/13	0.98	0.06	13,16,18,19	0

### 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,  $95^{th}$  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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	TI7	С	301	16/16	0.88	0.14	$26,\!41,\!91,\!91$	27
2	TI7	В	301	16/16	0.89	0.15	$21,\!30,\!45,\!52$	27
2	TI7	А	301	16/16	0.90	0.14	23,33,83,83	27
2	TI7	D	301	16/16	0.90	0.15	34,41,78,78	27
3	CL	В	303	1/1	0.92	0.06	43,43,43,43	0
4	EDO	В	304	4/4	0.94	0.17	$35,\!50,\!61,\!69$	0
3	CL	С	302	1/1	0.99	0.08	21,21,21,21	0
3	CL	В	302	1/1	0.99	0.06	$17,\!17,\!17,\!17$	0

### 6.5 Other polymers (i)

There are no such residues in this entry.

