

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

#### Mar 23, 2024 – 12:28 PM EDT

PDB ID : 5VKE

Title: Open conformation of KcsA deep-inactivated

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Deposited on : 2017-04-21

Resolution : 2.37 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

EDS : 2.36.1

buster-report : 1.1.7 (2018)

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)

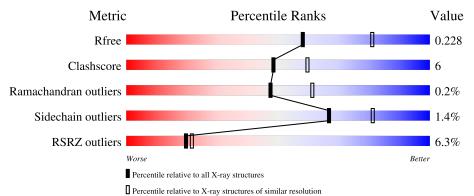
Validation Pipeline (wwPDB-VP) : 2.36.1

## 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.37 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\#  ext{Entries},  ext{ resolution range}(\AA))$
$R_{free}$	130704	5509 (2.40-2.36)
Clashscore	141614	6082 (2.40-2.36)
Ramachandran outliers	138981	5973 (2.40-2.36)
Sidechain outliers	138945	5975 (2.40-2.36)
RSRZ outliers	127900	5397 (2.40-2.36)

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	219	87%	12% •
2	В	212	8%	17%
3	С	96	7% 95%	5%

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:



Mo	l Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	K	С	2005	_	_	-	X



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4054 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 Antibody Light Chain.

$\mathbf{Mol}$	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	A	219	Total 1602	C 1017	N 267	O 312	S 6	0	0	0

• Molecule 2 is a protein called Antibody Heavy Chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	В	212	Total 1634	C 1014	N 280	O 335	S 5	0	0	0

• Molecule 3 is a protein called pH-gated potassium channel KcsA.

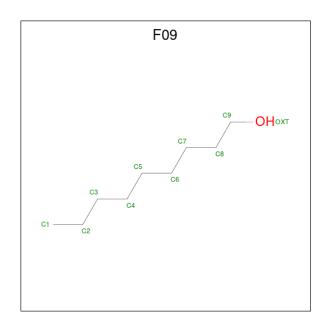
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
3	С	96	Total 690	C 452	N 113	O 121	S 4	0	0	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	28	CYS	ALA	conflict	UNP P0A334
С	82	ALA	TYR	conflict	UNP P0A334
С	90	CYS	LEU	conflict	UNP P0A334
С	117	GLN	ARG	conflict	UNP P0A334
С	118	CYS	GLU	conflict	UNP P0A334
С	120	GLN	GLU	conflict	UNP P0A334
С	121	GLN	ARG	conflict	UNP P0A334

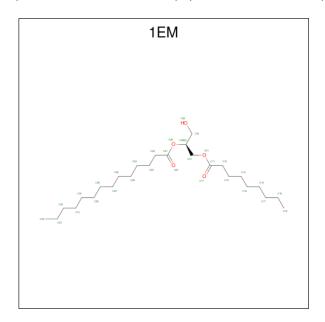
• Molecule 4 is NONAN-1-OL (three-letter code: F09) (formula:  $C_9H_{20}O$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	С	1	Total 10	C 9	O 1	0	0

• Molecule 5 is (1S)-2-HYDROXY-1-[(NONANOYLOXY)METHYL]ETHYL MYRISTATE (three-letter code: 1EM) (formula:  $C_{26}H_{50}O_5$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	С	1	Total 31	C 26	O 5	0	0

• Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	С	3	Total K 3 3	0	0

#### • Molecule 7 is water.

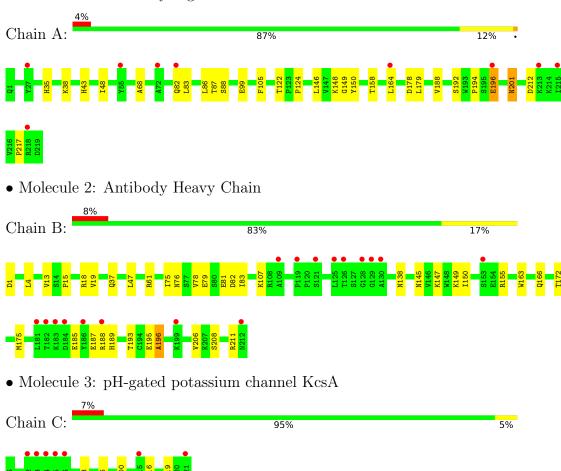
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	25	Total O 25 25	0	0
7	В	37	Total O 37 37	0	0
7	С	22	Total O 22 22	0	0



# 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.

• Molecule 1: Antibody Light Chain





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 4	Depositor
Cell constants	156.19Å 156.19Å 74.17Å	Denogitor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	36.82 - 2.37	Depositor
resolution (A)	36.82 - 2.37	EDS
% Data completeness	99.8 (36.82-2.37)	Depositor
(in resolution range)	99.8 (36.82-2.37)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.95 (at 2.37Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
P.P.	0.196 , $0.228$	Depositor
$R, R_{free}$	0.195 , $0.228$	DCC
$R_{free}$ test set	1620 reflections $(4.46\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	51.1	Xtriage
Anisotropy	0.078	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.30 , 50.8	EDS
L-test for twinning <sup>2</sup>	$< L > = 0.50, < L^2> = 0.33$	Xtriage
Estimated twinning fraction	0.022 for -k,-h,-l	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	4054	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.84% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $<L^2>$  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: K, 1EM, F09

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		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.27	0/1646	0.51	0/2259	
2	В	0.27	0/1671	0.49	0/2270	
3	С	0.25	0/705	0.44	0/972	
All	All	0.27	0/4022	0.49	0/5501	

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	1602	0	1525	15	0
2	В	1634	0	1546	29	0
3	С	690	0	701	3	0
4	С	10	0	20	0	0
5	С	31	0	50	1	0
6	С	3	0	0	0	0
7	A	25	0	0	0	0
7	В	37	0	0	1	0
7	С	22	0	0	0	0
All	All	4054	0	3842	47	0



The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 6.

All (47) 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)  1.20  0.92  0.84  0.70  0.65  0.65  0.58  0.57  0.56  0.55  0.52  0.52  0.52  0.52  0.51  0.51  0.50  0.49  0.49  0.49  0.48  0.48  0.48  0.48  0.48
2:B:187:GLU:HA	2:B:211:ARG:NH1	1.55	- ( /
2:B:187:GLU:HA	2:B:211:ARG:HH12	1.17	
2:B:187:GLU:CA	2:B:211:ARG:HH12	1.91	
2:B:187:GLU:CA	2:B:211:ARG:NH1	2.45	
1:A:83:LEU:HB3	1:A:86:LEU:HD21	1.77	
2:B:37:GLN:HB2	2:B:47:LEU:HD11	1.78	
1:A:194:PRO:HG3	1:A:217:PRO:HG3	1.84	
2:B:145:ASN:O	2:B:196:ALA:HA	2.04	
2:B:149:LYS:HB2	2:B:193:THR:HB	1.87	
2:B:1:ASP:OD1	7:B:301:HOH:O	2.18	0.56
1:A:146:LEU:CD2	1:A:148:LYS:HB2	2.37	0.55
1:A:178:ASP:O	1:A:179:LEU:HD12	2.08	0.52
2:B:15:PRO:HD3	2:B:107:LYS:O	2.09	0.52
2:B:19:VAL:HG12	2:B:75:ILE:HB	1.92	0.52
2:B:13:VAL:HG21	2:B:78:VAL:HG11	1.92	0.52
2:B:61:ARG:NH2	2:B:82:ASP:OD2	2.43	0.51
2:B:195:GLU:HG2	2:B:206:VAL:HG13	1.92	0.51
3:C:116:GLY:O	3:C:119:GLN:HG3	2.11	0.50
3:C:93:VAL:HG21	5:C:2002:1EM:H182	1.93	0.49
2:B:138:ASN:HA	2:B:172:THR:OG1	2.13	0.49
3:C:96:MET:O	3:C:100:ILE:HB	2.13	0.48
2:B:18:ARG:HG3	2:B:76:ASN:HA	1.95	0.48
2:B:163:TRP:HE1	2:B:175:MET:HE3	1.78	0.48
2:B:185:GLU:O	2:B:185:GLU:HG3	2.13	0.48
1:A:124:PRO:HB3	1:A:150:TYR:HB3	1.96	0.47
2:B:187:GLU:O	2:B:188:ARG:HB2	2.14	0.47
1:A:38:LYS:HB3	1:A:48:ILE:HD11	1.97	0.47
2:B:61:ARG:HH22	2:B:82:ASP:CG	2.17	0.47
1:A:192:SER:O	1:A:196:GLU:HG3	2.15	0.46
1:A:87:THR:OG1	1:A:88:SER:N	2.49	0.46
2:B:150:ILE:CD1	2:B:155:ARG:HD2	2.46	0.46
2:B:163:TRP:NE1	2:B:175:MET:HE3	2.31	0.45
2:B:163:TRP:NE1	2:B:175:MET:CE	2.80	0.45
2:B:79:GLU:HG3	2:B:81:GLU:HG2	1.99	0.44
2:B:163:TRP:CE2	2:B:175:MET:HE2	2.52	0.44
1:A:201:ASN:ND2	1:A:212:ASP:OD1	2.41	0.43
1:A:158:THR:OG1	1:A:201:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
2:B:187:GLU:C	2:B:211:ARG:HH12	2.22	0.42
1:A:35:HIS:CD2	1:A:105:PHE:HE1	2.37	0.42
1:A:68:ALA:HA	1:A:82:GLN:O	2.20	0.42
2:B:189:HIS:O	2:B:211:ARG:CZ	2.67	0.42
1:A:164:LEU:HD21	1:A:188:VAL:HG21	2.02	0.42
2:B:150:ILE:HD11	2:B:155:ARG:HD2	2.01	0.41
2:B:147:LYS:HB3	2:B:195:GLU:HB2	2.02	0.41
1:A:122:THR:HG21	1:A:179:LEU:HD21	2.03	0.41
1:A:149:GLY:C	1:A:179:LEU:HD23	2.41	0.41
2:B:83:ILE:HD13	2:B:166:GLN:HG2	2.02	0.41

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	217/219 (99%)	208 (96%)	9 (4%)	0	100	100	
2	В	210/212 (99%)	201 (96%)	8 (4%)	1 (0%)	29	39	
3	С	94/96 (98%)	93 (99%)	1 (1%)	0	100	100	
All	All	521/527 (99%)	502 (96%)	18 (4%)	1 (0%)	47	61	

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	В	196	ALA

#### 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	170/185~(92%)	166 (98%)	4 (2%)	49 66		
2	В	186/190 (98%)	184 (99%)	2 (1%)	73 86		
3	С	67/70 (96%)	67 (100%)	0	100 100		
All	All	423/445 (95%)	417 (99%)	6 (1%)	67 81		

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	43	HIS
1	A	99	GLU
1	A	196	GLU
1	A	201	ASN
2	В	4	LEU
2	В	208	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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 monosaccharides in this entry.

### 5.6 Ligand geometry (i)

Of 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 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		Chain Res	Link	Bond lengths			Bond angles		
IVIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	F09	С	2001	-	9,9,9	0.31	0	8,8,8	0.76	0
5	1EM	С	2002	-	30,30,30	1.30	4 (13%)	32,32,32	1.27	2 (6%)

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	F09	С	2001	-	-	2/7/7/7	-
5	1EM	С	2002	-	-	15/32/32/32	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\mathring{\mathrm{A}})$	$\operatorname{Ideal}(\operatorname{\AA})$
5	С	2002	1EM	O41-C11	3.30	1.43	1.33
5	С	2002	1EM	O42-C21	3.02	1.42	1.34
5	С	2002	1EM	C12-C11	2.06	1.56	1.50
5	С	2002	1EM	O42-C42	-2.05	1.41	1.46

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
5	С	2002	1EM	O42-C21-C22	3.98	120.07	111.50
5	С	2002	1EM	O41-C11-C12	2.83	120.80	111.91

There are no chirality outliers.

All (17) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	С	2002	1EM	C22-C21-O42-C42
5	С	2002	1EM	O42-C42-C43-O43
5	С	2002	1EM	O21-C21-O42-C42

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Mol	Chain	Res	Type	Atoms
5	С	2002	1EM	O41-C41-C42-O42
5	С	2002	1EM	C12-C13-C14-C15
4	С	2001	F09	C2-C3-C4-C5
5	С	2002	1EM	C14-C15-C16-C17
5	С	2002	1EM	O41-C41-C42-C43
5	С	2002	1EM	C16-C17-C18-C19
5	С	2002	1EM	C25-C26-C27-C28
5	С	2002	1EM	C31-C32-C33-C34
4	С	2001	F09	C3-C4-C5-C6
5	С	2002	1EM	C41-C42-C43-O43
5	С	2002	1EM	C26-C27-C28-C29
5	С	2002	1EM	C29-C30-C31-C32
5	С	2002	1EM	C13-C14-C15-C16
5	С	2002	1EM	C24-C25-C26-C27

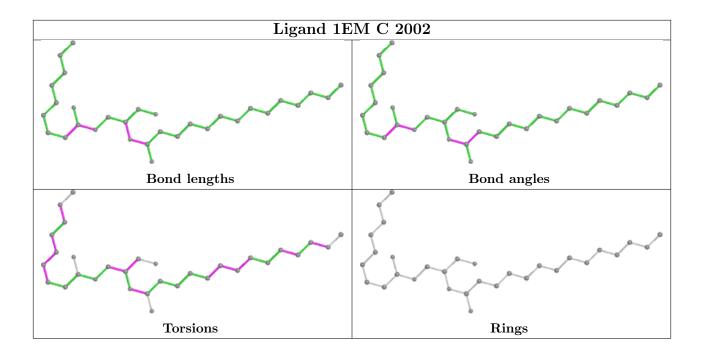
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	С	2002	1EM	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





# 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	<rsrz></rsrz>	$\# \mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	A	219/219 (100%)	0.27	9 (4%) 37 40	38, 72, 99, 140	0
2	В	212/212 (100%)	0.33	17 (8%) 12 13	32, 68, 118, 144	0
3	С	96/96 (100%)	0.41	7 (7%) 15 16	31, 46, 96, 143	0
All	All	527/527 (100%)	0.32	33 (6%) 20 21	31, 67, 107, 144	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	184	ASP	4.4
1	A	218	ARG	4.0
1	A	55	TYR	3.8
2	В	129	GLY	3.3
2	В	153	SER	3.2
1	A	27	TYR	3.0
1	A	213	LYS	3.0
2	В	126	THR	3.0
2	В	130	ALA	2.8
2	В	121	SER	2.7
3	С	76	VAL	2.7
1	A	215	ILE	2.6
2	В	125	LEU	2.6
2	В	128	GLY	2.5
2	В	188	ARG	2.5
2	В	183	LYS	2.5
3	С	75	THR	2.5
2	В	109	ALA	2.5
2	В	199	LYS	2.4
1	A	72	ALA	2.4
3	С	115	VAL	2.3
2	В	182	THR	2.3
1	A	196	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
3	С	72	THR	2.3
2	В	119	PRO	2.3
3	С	121	GLN	2.2
2	В	212	ASN	2.2
1	A	82	GLN	2.1
3	С	73	ALA	2.1
3	С	74	THR	2.1
1	A	164	LEU	2.1
2	В	181	LEU	2.1
2	В	186	TYR	2.1

#### 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 monosaccharides in this entry.

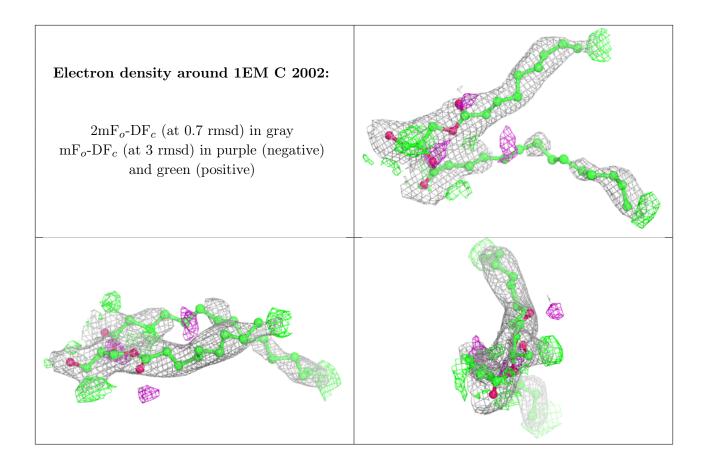
#### 6.4 Ligands (i)

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	$ m B ext{-}factors(\AA^2)$	Q<0.9
6	K	С	2005	1/1	0.64	1.13	87,87,87,87	1
5	1EM	С	2002	31/31	0.76	0.30	51,78,97,104	0
4	F09	С	2001	10/10	0.83	0.37	58,75,84,88	0
6	K	С	2004	1/1	0.96	0.30	58,58,58,58	1
6	K	С	2003	1/1	0.99	0.23	42,42,42,42	1

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





# 6.5 Other polymers (i)

There are no such residues in this entry.

