

Full wwPDB X-ray Structure Validation Report (i)

Nov 6, 2023 – 06:43 PM EST

PDB ID : 6AZK

Title: Structure of cetuximab with aminoheptanoic acid-linked N-(3-hydroxypropyl

)-L-arginine meditope variant

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Deposited on : 2017-09-11

Resolution : 2.48 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.orgA 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:

 $Mol Probity \quad : \quad 4.02b\text{--}467$

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13 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)

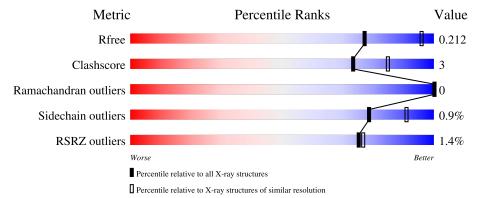
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.48 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	5857 (2.50-2.46)
Clashscore	141614	6594 (2.50-2.46)
Ramachandran outliers	138981	6469 (2.50-2.46)
Sidechain outliers	138945	6471 (2.50-2.46)
RSRZ outliers	127900	5738 (2.50-2.46)

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	213	93%	7%
1	С	213	95%	5%
2	В	221	92%	7% •
2	D	221	92%	7%
3	Е	11	82%	18%

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Mol	Chain	Length	Quality of	chain
3	F	11	55%	45%

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	SO4	С	301	-	-	X	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 7334 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 cetuximab Fab light chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	212	Total 1635	C 1018	N 279	0	S	0	1	0
					210	333	4			
1	C	212	Total	С	Ν	О	\mathbf{S}	0	1	0
1			1629	1015	275	335	4		1	

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	213	ALA	GLU	conflict	UNP P01834
С	213	ALA	GLU	conflict	UNP P01834

• Molecule 2 is a protein called cetuximab Fab heavy chain.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	D	219	Total	С	N	О	S	0	4 0	0
	2 B	219	1670	1061	276	328	5	U		
9	D	220	Total	С	N	О	S	0	0	0
	2 D	220	1662	1056	276	325	5		U	0

There are 2 discrepancies between the modelled and reference sequences:

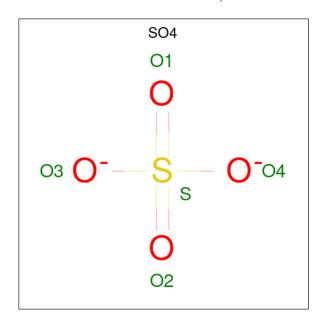
Chain	Residue	Modelled	Actual	Comment	Reference
В	119	ALA	SER	conflict	UNP S6B291
D	119	ALA	SER	conflict	UNP S6B291

• Molecule 3 is a protein called meditope.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
2	E	11	Total	Total C N O	0	0	0		
3	ינו	11	101	65	19	17	0		
9	E	11	Total	С	N	О	0	0	0
3	Г	11	101	65	19	17	0	U	



 \bullet Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	В	1	Total O S 5 4 1	0	0
4	С	1	Total O S 5 4 1	0	0

• Molecule 5 is water.

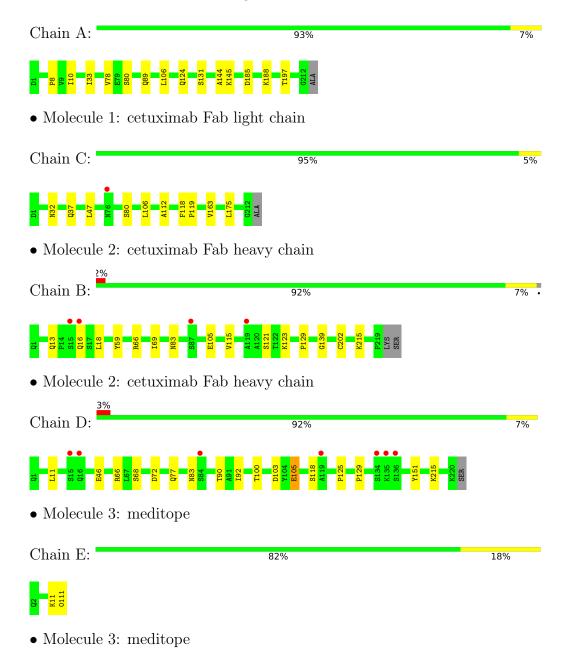
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	135	Total O 135 135	0	0
5	В	121	Total O 121 121	0	0
5	С	142	Total O 142 142	0	0
5	D	113	Total O 113 113	0	0
5	Е	9	Total O 9 9	0	0
5	F	6	Total O 6 6	0	0



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: cetuximab Fab light chain





Chain F: 55% 45%





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	64.36Å 82.93Å 212.05Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	33.11 - 2.48	Depositor
Resolution (A)	33.11 - 2.48	EDS
% Data completeness	98.9 (33.11-2.48)	Depositor
(in resolution range)	98.9 (33.11-2.48)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	4.82 (at 2.48Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
D D.	0.170 , 0.213	Depositor
R, R_{free}	0.170 , 0.212	DCC
R_{free} test set	2039 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	25.7	Xtriage
Anisotropy	0.219	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 39.6	EDS
L-test for twinning ²	$ < L >=0.45, < L^2>=0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7334	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.59% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities 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: C6D, SO4, 011

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	0.29	0/1672	0.46	0/2272	
1	С	0.30	0/1666	0.49	0/2265	
2	В	0.29	0/1726	0.51	0/2358	
2	D	0.29	0/1706	0.51	0/2330	
3	Е	0.25	0/76	0.51	0/98	
3	F	0.27	0/76	0.48	0/98	
All	All	0.29	0/6922	0.49	0/9421	

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	1635	0	1577	12	0
1	С	1629	0	1566	5	0
2	В	1670	0	1634	10	0
2	D	1662	0	1623	11	0
3	Е	101	0	90	2	0
3	F	101	0	90	3	0
4	В	5	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	С	5	0	0	2	0
5	A	135	0	0	7	2
5	В	121	0	0	4	2
5	С	142	0	0	3	2
5	D	113	0	0	4	1
5	Е	9	0	0	0	0
5	F	6	0	0	0	0
All	All	7334	0	6580	44	4

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.

All (44) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A	4.1	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}({\rm \AA})$	overlap (Å)
2:B:123:LYS:NZ	5:B:401:HOH:O	1.88	1.06
4:C:301:SO4:O2	5:C:401:HOH:O	1.85	0.95
2:B:83[A]:ASN:ND2	5:B:403:HOH:O	2.09	0.84
1:A:144:ALA:O	5:A:301:HOH:O	1.95	0.84
4:B:301:SO4:O3	5:B:402:HOH:O	2.07	0.73
4:C:301:SO4:O4	5:C:402:HOH:O	2.07	0.73
2:D:72:ASP:OD2	5:D:301:HOH:O	2.10	0.69
2:D:90:THR:O	5:D:302:HOH:O	2.10	0.68
1:A:131:SER:O	5:A:303:HOH:O	2.12	0.66
1:C:80:SER:HA	1:C:106:LEU:HD22	1.80	0.64
1:A:185:ASP:OD1	5:A:304:HOH:O	2.15	0.64
2:B:129:PRO:HD3	2:B:215:LYS:HE2	1.83	0.61
3:F:11:LYS:O	3:F:1:011:HAVA	2.03	0.58
2:D:103:ASP:OD1	5:D:303:HOH:O	2.17	0.58
1:A:145:LYS:HB2	1:A:197:THR:HB	1.88	0.56
2:D:129:PRO:HD3	2:D:215:LYS:HE2	1.87	0.56
1:A:80:SER:HA	1:A:106:LEU:HD22	1.88	0.55
2:B:13:GLN:HB2	2:B:16:GLN:HG3	1.87	0.55
1:A:188:LYS:O	5:A:305:HOH:O	2.18	0.54
1:C:112:ALA:O	5:C:403:HOH:O	2.19	0.53
3:E:11:LYS:O	3:E:1:011:HAVA	2.08	0.52
2:B:202:CYS:SG	2:B:215:LYS:HB3	2.50	0.51
1:A:124:GLN:OE1	5:A:306:HOH:O	2.19	0.50
1:C:37:GLN:HB2	1:C:47:LEU:HD11	1.93	0.50
1:A:78:VAL:HG11	1:A:106:LEU:HD11	1.96	0.47
2:D:92:ILE:HG13	3:F:5:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}({\rm \AA})$	overlap (Å)
2:D:103:ASP:HB3	2:D:105:GLU:OE1	2.16	0.46
2:D:77:GLN:NE2	5:D:304:HOH:O	2.27	0.44
2:D:125:PRO:HB3	2:D:151:TYR:HB3	2.00	0.44
2:B:66:ARG:HA	2:B:83[B]:ASN:HD21	1.83	0.44
2:B:139:GLY:O	5:B:405:HOH:O	2.21	0.44
2:D:100:THR:OG1	2:D:103:ASP:HB2	2.18	0.43
3:F:3:PHE:HE2	3:F:5:LEU:HD23	1.83	0.43
1:A:10:ILE:HD11	3:E:1:011:HAUA	2.00	0.43
1:A:33:ILE:HA	1:A:89:GLN:O	2.19	0.43
1:C:163:VAL:HG22	1:C:175:LEU:HD12	2.01	0.42
2:D:66:ARG:HB2	2:D:83:ASN:HB2	2.02	0.42
1:A:8:PRO:HD2	5:A:311:HOH:O	2.20	0.42
1:A:185:ASP:OD2	5:A:307:HOH:O	2.20	0.42
2:B:18:LEU:HD13	2:B:115:VAL:HG11	2.02	0.41
2:B:59:TYR:HE1	2:B:69:ILE:HG13	1.84	0.41
2:B:66:ARG:HA	2:B:83[B]:ASN:ND2	2.35	0.41
1:C:118:PHE:HA	1:C:119:PRO:HD2	1.96	0.40
2:D:11:LEU:HD11	2:D:118:SER:HB3	2.02	0.40

All (4) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
5:A:331:HOH:O	5:A:351:HOH:O[3_444]	1.83	0.37
5:A:307:HOH:O	5:D:373:HOH:O[3_554]	1.92	0.28
5:B:513:HOH:O	5:C:453:HOH:O[3_454]	2.06	0.14
5:B:486:HOH:O	5:C:532:HOH:O[4_455]	2.16	0.04

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	ntiles
1	A	$211/213\ (99\%)$	201 (95%)	10 (5%)	0	100	100
1	\mathbf{C}	211/213 (99%)	206 (98%)	5 (2%)	0	100	100
2	В	221/221 (100%)	215 (97%)	6 (3%)	0	100	100
2	D	218/221 (99%)	212 (97%)	6 (3%)	0	100	100
3	E	8/11 (73%)	8 (100%)	0	0	100	100
3	F	8/11 (73%)	8 (100%)	0	0	100	100
All	All	877/890 (98%)	850 (97%)	27 (3%)	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	A	188/188 (100%)	188 (100%)	0	100	100	
1	C	187/188 (100%)	186 (100%)	1 (0%)	88	95	
2	В	192/191 (100%)	190 (99%)	2 (1%)	76	89	
2	D	189/191 (99%)	186 (98%)	3 (2%)	62	82	
3	E	9/9 (100%)	9 (100%)	0	100	100	
3	F	9/9 (100%)	8 (89%)	1 (11%)	6	10	
All	All	774/776 (100%)	767 (99%)	7 (1%)	78	91	

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	В	105	GLU
2	В	121	SER
1	С	32	ASN
2	D	46	GLU
2	D	68	SER
2	2 D		GLU
3	F	2	GLN



Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	С	93	ASN
2	D	83	ASN
2	D	177	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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	B	ond leng	$_{ m gths}$	В	ond ang	gles
MIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	011	F	1	3	8,8,9	0.60	0	7,7,9	0.87	0
3	011	Е	1	3	8,8,9	0.58	0	7,7,9	0.76	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	\mathbf{Type}	Chain	Res	Link	$\mathbf{Chirals}$	Torsions	Rings
3	011	F	1	3	-	4/5/6/7	-
3	011	Ε	1	3	-	4/5/6/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
3	F	1	011	C2-C3-C4-C5
3	Е	1	011	C2-C3-C4-C5
3	Е	1	011	C3-C4-C5-C6
3	F	1	011	C3-C4-C5-C6
3	F	1	011	C5-C6-C7-N
3	Е	1	011	C5-C6-C7-N
3	F	1	011	C4-C5-C6-C7
3	Е	1	011	C4-C5-C6-C7

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	F	1	011	1	0
3	Е	1	011	2	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

2 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				
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
4	SO4	В	301	-	4,4,4	0.13	0	6,6,6	0.15	0
4	SO4	С	301	-	4,4,4	0.13	0	6,6,6	0.09	0

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.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	В	301	SO4	1	0
4	С	301	SO4	2	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	<RSRZ $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	212/213 (99%)	-0.50	0 100 100	12, 22, 35, 44	0
1	C	$212/213 \ (99\%)$	-0.46	1 (0%) 91 91	12, 21, 34, 48	0
2	В	219/221 (99%)	-0.42	4 (1%) 68 70	12, 20, 34, 46	0
2	D	$220/221 \ (99\%)$	-0.37	7 (3%) 47 50	10, 21, 40, 49	0
3	E	9/11 (81%)	-0.84	0 100 100	17, 20, 32, 34	0
3	F	9/11 (81%)	-0.55	0 100 100	21, 24, 33, 39	0
All	All	881/890 (98%)	-0.44	12 (1%) 75 77	10, 21, 36, 49	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	119	ALA	4.3
2	D	135	LYS	2.9
2	В	119	ALA	2.8
1	С	76	ASN	2.6
2	D	15	SER	2.6
2	В	15	SER	2.5
2	D	134	SER	2.3
2	В	87[A]	SER	2.2
2	D	16	GLN	2.2
2	D	136	SER	2.2
2	D	84	SER	2.2
2	В	16	GLN	2.1

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	011	F	1	9/10	0.90	0.28	35,42,49,53	0
3	011	Ε	1	9/10	0.92	0.28	36,43,48,50	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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
4	SO4	В	301	5/5	0.92	0.19	26,31,37,41	5
4	SO4	С	301	5/5	0.95	0.13	18,34,40,40	5

6.5 Other polymers (i)

There are no such residues in this entry.

