

Full wwPDB X-ray Structure Validation Report (i)

Nov 7, 2020 - 08:03 AM GMT

PDB ID	:	6ST2
Title	:	Selective Affimers Recognize BCL-2 Family Proteins Through Non-Canonical
		Structural Motifs
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		Wilson, A.J.; Edwards, T.A.
Deposited on		
Resolution	:	1.79 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 following versions of software and data (see references (1)) were used in the production of this report:

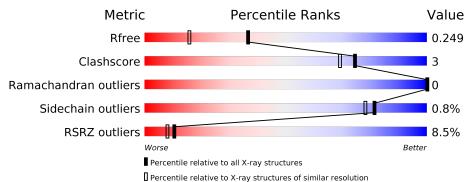
Mogul : $1.8.5$ (274361), CSD as541be (2020) Xtriage (Phenix) : 1.13	$\operatorname{MolProbity}$:	4.02b-467
Xtriage (Phenix) : 1.13	Mogul	:	1.8.5 (274361), CSD as541be (2020)
	Xtriage (Phenix)	:	1.13
EDS : 2.14.6	EDS	:	2.14.6
Percentile statistics : $20191225.v01$ (using entries in the PDB archive December 25th 2019)	Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158	Refmac	:	5.8.0158
$\mathrm{CCP4}$: 7.0.044 (Gargrove)	$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins) : Engh & Huber (2001)	Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)	Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.14.6	Validation Pipeline (wwPDB-VP)	:	2.14.6

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 1.79 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R _{free}	130704	5950(1.80-1.80)
Clashscore	141614	6793(1.80-1.80)
Ramachandran outliers	138981	6697(1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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 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	153	92%	• 7%
1	В	153	5% 88%	5% 7%
2	С	91	15%	13% • •
2	D	91	8%	11% •



$\mathbf{2}$ Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 3861 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Δ	143	Total	С	Ν	Ο	S	0	0	0
	A	140	1156	737	196	218	5	0	0	0
1	В	142	Total	С	Ν	Ο	S	0	0	0
	D	142	1148	732	195	217	4			U

• Molecule 1 is a protein called Bcl-2-like protein 1.

Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	PHE	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	-	ASP	deletion	UNP Q07817
А	?	-	VAL	deletion	UNP Q07817
А	?	-	GLU	deletion	UNP Q07817
А	?	-	GLU	deletion	UNP Q07817
А	?	-	ASN	deletion	UNP Q07817
А	?	-	ARG	deletion	UNP Q07817
А	?	-	THR	deletion	UNP Q07817
А	?	-	GLU	deletion	UNP Q07817
А	?	-	ALA	deletion	UNP Q07817
А	?	-	PRO	deletion	UNP Q07817
A	?	-	GLU	deletion	UNP Q07817
A	?	-	GLY	deletion	UNP Q07817
A	?	-	THR	deletion	UNP Q07817
A	?	-	GLU	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	-	GLU	deletion	UNP Q07817
А	?	-	MET	deletion	UNP Q07817
А	?	-	GLU	deletion	UNP Q07817
А	?	-	THR	deletion	UNP Q07817
А	?	-	PRO	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	-	ALA	deletion	UNP Q07817
А	?	-	ILE	deletion	UNP Q07817

There are 112 discrepancies between the modelled and reference sequences:



Chain	Residue	Modelled	Actual	Comment	Reference
А	?	-	ASN	deletion	UNP Q07817
А	?	-	GLY	deletion	UNP Q07817
А	?	-	ASN	deletion	UNP Q07817
А	?	-	PRO	deletion	UNP Q07817
А	?	_	SER	deletion	UNP Q07817
А	?	_	TRP	deletion	UNP Q07817
А	?	-	HIS	deletion	UNP Q07817
А	?	_	LEU	deletion	UNP Q07817
А	?	-	ALA	deletion	UNP Q07817
А	?	-	ASP	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	_	PRO	deletion	UNP Q07817
А	?	-	ALA	deletion	UNP Q07817
А	?	-	VAL	deletion	UNP Q07817
А	?	-	ASN	deletion	UNP Q07817
А	?	-	GLY	deletion	UNP Q07817
А	?	-	ALA	deletion	UNP Q07817
А	?	-	THR	deletion	UNP Q07817
А	?	-	GLY	deletion	UNP Q07817
А	?	-	HIS	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	-	SER	deletion	UNP Q07817
А	?	-	LEU	deletion	UNP Q07817
А	?	_	ASP	deletion	UNP Q07817
А	?	-	ALA	deletion	UNP Q07817
А	?	-	ARG	deletion	UNP Q07817
А	?	-	GLU	deletion	UNP Q07817
А	?	-	VAL	deletion	UNP Q07817
А	?	-	ILE	deletion	UNP Q07817
А	?	-	PRO	deletion	UNP Q07817
В	?	_	PHE	deletion	UNP Q07817
В	?	-	SER	deletion	UNP Q07817
В	?	-	ASP	deletion	UNP Q07817
В	?	_	VAL	deletion	UNP Q07817
В	?	-	GLU	deletion	UNP Q07817
В	?	-	GLU	deletion	UNP Q07817
В	?	-	ASN	deletion	UNP Q07817
В	?	_	ARG	deletion	UNP Q07817
В	?	-	THR	deletion	UNP Q07817
В	?	-	GLU	deletion	UNP Q07817
В	?	_	ALA	deletion	UNP Q07817
		1	1	~	. .



Chain	Residue	Modelled	Actual	Comment	Reference
В	?	_	PRO	deletion	UNP Q07817
B	?	_	GLU	deletion	UNP Q07817
B	?	_	GLY	deletion	UNP Q07817
В	?	_	THR	deletion	UNP Q07817
В	?	_	GLU	deletion	UNP Q07817
В	?	_	SER	deletion	UNP Q07817
В	?	_	GLU	deletion	UNP Q07817
В	?	-	MET	deletion	UNP Q07817
В	?	-	GLU	deletion	UNP Q07817
В	?	_	THR	deletion	UNP Q07817
В	?	_	PRO	deletion	UNP Q07817
В	?	_	SER	deletion	UNP Q07817
В	?	-	ALA	deletion	UNP Q07817
В	?	-	ILE	deletion	UNP Q07817
В	?	_	ASN	deletion	UNP Q07817
В	?	_	GLY	deletion	UNP Q07817
В	?	_	ASN	deletion	UNP Q07817
В	?	_	PRO	deletion	UNP Q07817
В	?	-	SER	deletion	UNP Q07817
В	?	_	TRP	deletion	UNP Q07817
В	?	-	HIS	deletion	UNP Q07817
В	?	_	LEU	deletion	UNP Q07817
В	?	-	ALA	deletion	UNP Q07817
В	?	_	ASP	deletion	UNP Q07817
В	?	_	SER	deletion	UNP Q07817
В	?	-	PRO	deletion	UNP Q07817
В	?	-	ALA	deletion	UNP Q07817
В	?	-	VAL	deletion	UNP Q07817
В	?	-	ASN	deletion	UNP Q07817
В	?	-	GLY	deletion	UNP Q07817
В	?	-	ALA	deletion	UNP Q07817
В	?	-	THR	deletion	UNP Q07817
В	?	-	GLY	deletion	UNP Q07817
В	?	-	HIS	deletion	UNP Q07817
В	?	-	SER	deletion	UNP Q07817
В	?	-	SER	deletion	UNP Q07817
В	?	-	SER	deletion	UNP Q07817
В	?	-	LEU	deletion	UNP Q07817
В	?	-	ASP	deletion	UNP Q07817
В	?	-	ALA	deletion	UNP Q07817
В	?	-	ARG	deletion	UNP Q07817
В	?	-	GLU	deletion	UNP Q07817
		•		Continued	· .

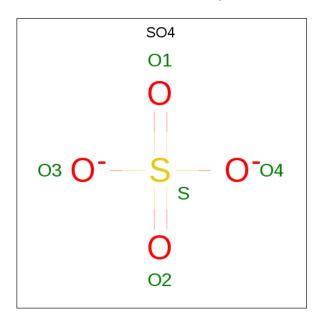


Chain	Residue	Modelled	Actual	Comment	Reference
В	?	-	VAL	deletion	UNP Q07817
В	?	-	ILE	deletion	UNP Q07817
В	?	-	PRO	deletion	UNP Q07817

• Molecule 2 is a protein called Affimer AF6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
0	C	87	Total	С	Ν	Ο	S	0	0	0
		01	729	472	120	136	1	0	0	0
0	р	87	Total	С	Ν	0	S	0	0	0
	D	01	729	472	120	136	1	0	0	0

• Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	В	1	Total 5	0 4	${ m S}$ 1	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	35	Total O 35 35	0	0
4	В	33	Total O 33 33	0	0



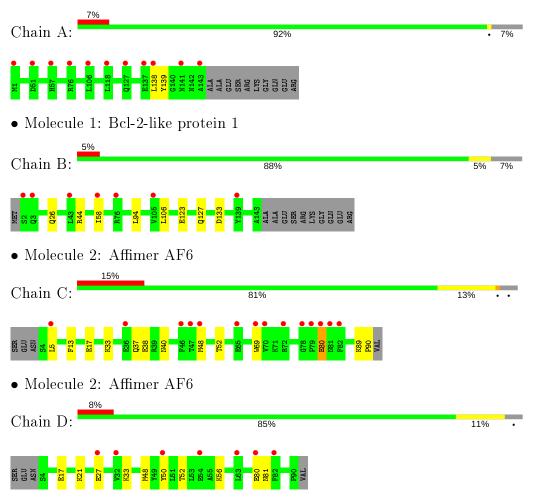
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	С	15	Total O 15 15	0	0
4	D	11	Total O 11 11	0	0



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: Bcl-2-like protein 1



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 2 2	Depositor
Cell constants	71.89Å 71.89Å 204.06Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	71.99 - 1.79	Depositor
Resolution (A)	71.89 - 1.79	EDS
% Data completeness	99.9 (71.99-1.79)	Depositor
(in resolution range)	99.9(71.89-1.79)	EDS
R _{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.58 (at 1.78 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0253	Depositor
D D.	0.214 , 0.241	Depositor
R, R_{free}	0.222 , 0.249	DCC
R_{free} test set	2530 reflections $(4.91%)$	wwPDB-VP
Wilson B-factor (Å ²)	38.7	Xtriage
Anisotropy	0.213	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.35 , 44.4	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3861	wwPDB-VP
Average B, all atoms $(Å^2)$	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.45% of the height of the origin peak. No significant pseudotranslation is detected.

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.



 $^{^1 {\}rm Intensities}$ 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: SO4

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		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.69	0/1184	0.70	0/1603	
1	В	0.67	0/1176	0.72	0/1593	
2	С	0.66	0/743	0.82	0/993	
2	D	0.64	0/743	0.81	0/993	
All	All	0.67	0/3846	0.75	0/5182	

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	1156	0	1100	3	0
1	В	1148	0	1088	7	0
2	С	729	0	729	9	0
2	D	729	0	729	5	0
3	В	5	0	0	0	0
4	А	35	0	0	0	0
4	В	33	0	0	0	0
4	С	15	0	0	0	0
4	D	11	0	0	0	0
All	All	3861	0	3646	24	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.

All (24) close contacts	within the	same asymr	netric unit :	are listed	below, sorted	by their clash
magnitude.						

Atom-1	Atom-2	Interatomic	Clash
	1100III =	distance (Å)	overlap (Å)
1:B:58:ILE:HG22	1:B:106:LEU:HD13	1.45	0.98
2:C:89:LYS:HD2	2:C:90:PRO:HD2	1.46	0.96
1:B:123:GLU:OE2	1:B:127:GLN:HG2	1.84	0.77
1:B:58:ILE:CG2	1:B:106:LEU:HD13	2.22	0.67
1:B:26:GLN:HG2	1:B:133:ASP:OD1	1.98	0.63
1:B:58:ILE:HD11	1:B:94:LEU:HD13	1.80	0.62
2:C:80:GLU:HG2	2:C:80:GLU:O	2.03	0.59
1:B:58:ILE:HD12	1:B:94:LEU:HB3	1.86	0.58
1:A:139:TYR:O	1:A:139:TYR:CD1	2.57	0.57
2:C:33:LYS:HG2	2:C:52:THR:HB	1.87	0.56
2:C:48:MET:HG2	2:C:69:TRP:CD1	2.42	0.55
2:C:48:MET:HG2	2:C:69:TRP:NE1	2.21	0.55
2:C:37:GLN:NE2	2:C:48:MET:SD	2.77	0.54
2:D:27:GLU:HB2	2:D:56:LYS:HE2	1.91	0.52
1:A:139:TYR:C	1:A:139:TYR:CD1	2.85	0.49
2:C:38:GLU:OE1	2:C:40:ASN:ND2	2.43	0.49
2:D:80:GLU:HG2	2:D:81:ASN:O	2.12	0.49
1:A:138:LEU:C	1:A:138:LEU:HD23	2.34	0.47
2:C:13:PHE:CZ	2:C:17:GLU:HG3	2.51	0.46
1:B:26:GLN:CG	1:B:133:ASP:OD1	2.63	0.45
2:D:33:LYS:HG2	2:D:52:THR:OG1	2.17	0.43
2:C:37:GLN:CG	2:C:48:MET:HB2	2.49	0.42
2:D:17:GLU:OE2	2:D:21:LYS:HE3	2.20	0.41
2:D:48:MET:SD	2:D:50:TYR:OH	2.68	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	Perce	ntiles
1	А	141/153~(92%)	140~(99%)	1 (1%)	0	100	100
1	В	140/153~(92%)	138~(99%)	2(1%)	0	100	100
2	С	85/91~(93%)	83~(98%)	2(2%)	0	100	100
2	D	85/91~(93%)	84 (99%)	1 (1%)	0	100	100
All	All	451/488~(92%)	445 (99%)	6 (1%)	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	121/128~(94%)	121~(100%)	0	100 100
1	В	120/128~(94%)	119~(99%)	1 (1%)	81 78
2	С	77/81~(95%)	75~(97%)	2(3%)	46 32
2	D	77/81~(95%)	77~(100%)	0	100 100
All	All	395/418~(94%)	392~(99%)	3~(1%)	81 78

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	44	ARG
2	С	5	LEU
2	С	80	GLU

Some 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)

1 ligand is 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	gths	В	ond ang	gles
IVIOI	туре	Cham	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	SO4	В	201	-	4,4,4	0.20	0	6,6,6	0.17	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.

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 (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 $>$	$\# RSRZ {>}2$	OWAB(Å ²)	Q<0.9
1	А	143/153~(93%)	0.67	11 (7%) 13 10	30, 47, 68, 75	0
1	В	142/153~(92%)	0.65	7 (4%) 29 24	27, 43, 70, 83	0
2	С	87/91~(95%)	1.10	14 (16%) 1 1	35, 52, 72, 95	0
2	D	87/91~(95%)	0.98	7 (8%) 12 9	36, 56, 76, 99	0
All	All	459/488~(94%)	0.81	39 (8%) 10 8	27, 49, 74, 99	0

All (39) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	С	78	GLY	6.8
2	С	79	PRO	6.3
1	А	1	MET	5.0
2	С	48	MET	4.7
2	С	82	PHE	4.5
2	С	69	TRP	4.1
2	D	50	TYR	4.0
2	С	65	GLU	3.7
2	D	63	LEU	3.5
1	В	3	GLN	3.4
2	D	27	GLU	3.3
1	В	105	VAL	3.3
2	С	70	VAL	3.3
2	D	82	PHE	3.2
1	В	58	ILE	3.2
2	С	46	PHE	3.2
1	В	2	SER	3.1
1	А	137	GLU	3.0
1	А	76	ARG	2.8
2	С	36	GLU	2.8
2	D	32	VAL	2.8



Mol	Chain	Res	Type	RSRZ	
2	D	80	GLU	2.7	
1	А	141	ASN	2.7	
1	В	139	TYR	2.6	
1	А	57	HIS	2.5	
1	А	106	LEU	2.5	
2	С	47	THR	2.5	
2	С	5	LEU	2.4	
1	А	143	ALA	2.4	
2	С	80	GLU	2.3	
1	В	76	ARG	2.2	
2	D	54	GLU	2.2	
1	А	51	ASP	2.2	
2	С	72	ARG	2.1	
2	С	81	ASN	2.1	
1	А	127	GLN	2.1	
1	А	138	LEU	2.0	
1	А	118	LEU	2.0	
1	В	43	LEU	2.0	

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	\mathbf{Res}	Atoms	RSCC	RSR	${f B} ext{-factors}({ m \AA}^2)$	Q<0.9
3	SO4	В	201	5/5	0.77	0.26	$60,\!63,\!75,\!83$	0

6.5 Other polymers (i)

There are no such residues in this entry.

