



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 12, 2023 – 06:42 AM EDT

PDB ID : 4OD2
Title : Crystal structure of the Fab fragment of an anti-DR5 antibody bound to DR5
Authors : Hymowitz, S.G.; Compaan, D.
Deposited on : 2014-01-09
Resolution : 3.20 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.35.1
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) : 2.35.1

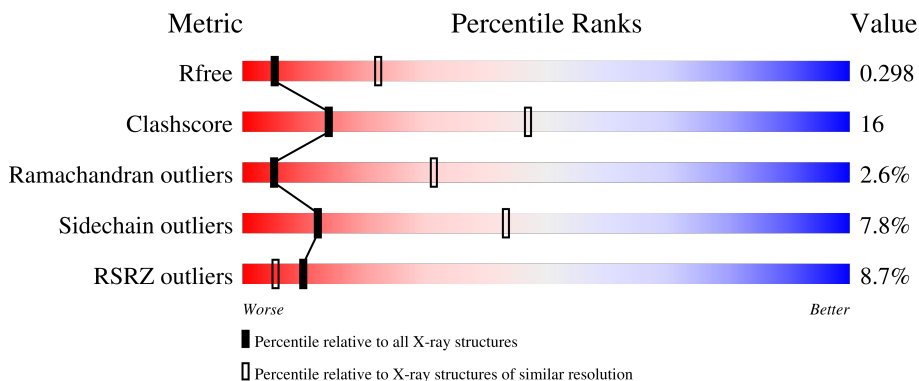
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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}	130704	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)

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 $\leq 5\%$. 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	213	
2	B	232	
3	S	111	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3896 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 Fab fragment of drozitumab, light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	209	1547	963	260	320	4	0	0	0

- Molecule 2 is a protein called Fab fragment of drozitumab, heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	214	1601	1013	272	310	6	0	0	0

- Molecule 3 is a protein called Tumor necrosis factor receptor superfamily member 10B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	S	97	748	446	135	151	16	3	0	0

4 Data and refinement statistics i

Property	Value	Source
Space group	P 6	Depositor
Cell constants a, b, c, α , β , γ	128.32Å 128.32Å 68.39Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.20 28.10 – 3.20	Depositor EDS
% Data completeness (in resolution range)	97.6 (30.00-3.20) 97.7 (28.10-3.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.75 (at 3.17Å)	Xtrriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.241 , 0.305 0.240 , 0.298	Depositor DCC
R_{free} test set	1060 reflections (10.08%)	wwPDB-VP
Wilson B-factor (Å ²)	71.6	Xtrriage
Anisotropy	0.193	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 49.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	0.063 for h,-h-k,-l	Xtrriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	3896	wwPDB-VP
Average B, all atoms (Å ²)	111.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.53% 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, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.48	0/1583	0.58	0/2163
2	B	0.56	2/1640 (0.1%)	0.65	0/2232
3	S	0.69	2/763 (0.3%)	0.77	2/1028 (0.2%)
All	All	0.56	4/3986 (0.1%)	0.65	2/5423 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	S	123	ILE	CB-CG1	-10.69	1.24	1.54
2	B	36	TRP	CD2-CE2	5.31	1.47	1.41
2	B	111	TRP	CD2-CE2	5.08	1.47	1.41
3	S	120	TRP	CD2-CE2	5.07	1.47	1.41

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S	123	ILE	CG1-CB-CG2	10.01	133.42	111.40
3	S	123	ILE	CA-CB-CG2	-7.21	96.48	110.90

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	1547	0	1490	54	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	1601	0	1566	52	0
3	S	748	0	670	27	0
All	All	3896	0	3726	119	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 16.

All (119) 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)
2:B:72:ARG:HE	2:B:74:ASN:HD21	1.03	1.02
3:S:67:ASP:HB2	3:S:70:GLU:OE1	1.71	0.90
2:B:33:ALA:HB3	2:B:99:ILE:HG12	1.60	0.84
1:A:11:VAL:CG1	1:A:17:VAL:HB	2.10	0.81
2:B:72:ARG:HE	2:B:74:ASN:ND2	1.79	0.81
3:S:76:CYS:HB2	3:S:82:THR:HG22	1.66	0.77
2:B:72:ARG:NE	2:B:74:ASN:HD21	1.82	0.77
3:S:64:THR:H	3:S:81:ASN:HD21	1.34	0.75
3:S:64:THR:O	3:S:82:THR:HG21	1.88	0.74
2:B:34:MET:HB3	2:B:79:LEU:HD22	1.70	0.73
2:B:62:ASP:HA	2:B:65:LYS:HD3	1.69	0.72
1:A:11:VAL:HG13	1:A:17:VAL:HB	1.72	0.71
2:B:6:GLN:HE22	2:B:112:GLY:HA3	1.55	0.71
1:A:36:GLN:HE22	2:B:39:GLN:HE22	1.41	0.69
1:A:27:ARG:HG3	1:A:67:ASN:HB3	1.78	0.65
2:B:98:LYS:HE2	2:B:109:ASP:OD1	1.97	0.65
2:B:131:PRO:HD3	2:B:217:LYS:HE2	1.79	0.65
1:A:11:VAL:HG11	1:A:17:VAL:HB	1.79	0.65
2:B:4:LEU:CD2	2:B:24:ALA:HB2	2.27	0.64
1:A:18:ARG:HG3	1:A:72:THR:HG23	1.80	0.64
1:A:3:LEU:HD13	1:A:21:CYS:SG	2.38	0.64
1:A:23:GLY:O	1:A:25:SER:N	2.33	0.61
1:A:64:SER:CB	3:S:65:ARG:NH1	2.64	0.61
2:B:107:TYR:CD2	3:S:68:SER:HB3	2.36	0.60
2:B:33:ALA:C	2:B:99:ILE:HG23	2.22	0.60
1:A:46:ILE:HD13	1:A:52:ARG:HB3	1.85	0.59
1:A:12:ALA:O	1:A:15:GLN:HB2	2.03	0.59
1:A:81:GLU:HG3	1:A:106:VAL:H	1.68	0.59
2:B:107:TYR:CE2	3:S:68:SER:HB3	2.38	0.58
1:A:34:TYR:N	1:A:34:TYR:CD1	2.71	0.58
1:A:168:GLN:HB2	1:A:170:ASN:OD1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:ILE:CD1	1:A:52:ARG:HB3	2.35	0.57
2:B:4:LEU:HD23	2:B:24:ALA:HB2	1.87	0.56
2:B:2:VAL:HG13	2:B:27:PHE:CE1	2.43	0.54
1:A:87:ASN:O	1:A:87:ASN:ND2	2.41	0.53
1:A:36:GLN:HE22	2:B:39:GLN:NE2	2.07	0.53
1:A:47:TYR:HB2	2:B:107:TYR:CD1	2.44	0.53
3:S:37:ASP:OD1	3:S:38:GLY:N	2.41	0.53
2:B:6:GLN:OE1	2:B:96:CYS:N	2.36	0.52
1:A:32:SER:HB3	1:A:87:ASN:ND2	2.25	0.52
1:A:46:ILE:HG21	1:A:62:GLY:HA3	1.91	0.52
1:A:146:THR:HB	1:A:197:THR:HB	1.92	0.52
1:A:81:GLU:HG3	1:A:105:THR:HA	1.92	0.52
3:S:81:ASN:ND2	3:S:82:THR:H	2.08	0.52
3:S:111:MET:HB3	3:S:125:CYS:HB3	1.92	0.51
2:B:36:TRP:HD1	2:B:70:ILE:HD11	1.75	0.51
1:A:125:GLU:HG2	1:A:130:LYS:HB2	1.92	0.51
3:S:76:CYS:HB2	3:S:82:THR:CG2	2.38	0.51
2:B:19:ARG:HG3	2:B:82:GLN:HG2	1.93	0.51
2:B:203:ILE:HG22	2:B:218:LYS:HA	1.92	0.51
2:B:49:SER:HB3	2:B:70:ILE:HD12	1.93	0.51
1:A:53:PRO:O	1:A:56:ILE:HD12	2.11	0.51
1:A:64:SER:HB3	3:S:65:ARG:NH1	2.26	0.51
2:B:67:ARG:CZ	2:B:87:ARG:HD2	2.41	0.50
1:A:9:VAL:HG13	1:A:104:LEU:HD12	1.93	0.50
2:B:99:ILE:CD1	2:B:101:GLY:H	2.24	0.50
1:A:150:LYS:HB2	1:A:193:SER:HB2	1.93	0.50
2:B:30:ASP:OD1	3:S:102:LYS:NZ	2.43	0.50
2:B:38:ARG:O	2:B:39:GLN:HB2	2.12	0.49
2:B:2:VAL:HG13	2:B:27:PHE:CD1	2.47	0.49
1:A:96:VAL:HG12	1:A:97:VAL:N	2.28	0.49
2:B:33:ALA:O	2:B:99:ILE:HG23	2.12	0.49
1:A:87:ASN:HD22	1:A:87:ASN:C	2.15	0.49
3:S:64:THR:O	3:S:82:THR:CG2	2.60	0.49
2:B:6:GLN:NE2	2:B:112:GLY:HA3	2.27	0.48
2:B:6:GLN:HE22	2:B:112:GLY:CA	2.22	0.48
2:B:4:LEU:HD21	2:B:24:ALA:HB2	1.94	0.48
3:S:29:PRO:HG2	3:S:32:HIS:CD2	2.49	0.47
2:B:50:GLY:O	2:B:58:THR:HA	2.14	0.47
2:B:33:ALA:HB3	2:B:99:ILE:CG1	2.37	0.47
1:A:53:PRO:HG2	1:A:56:ILE:HD11	1.97	0.47
1:A:3:LEU:HD22	1:A:26:LEU:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:ASN:ND2	1:A:87:ASN:C	2.69	0.46
2:B:106:TRP:CZ2	3:S:68:SER:HA	2.50	0.46
2:B:38:ARG:NE	2:B:46:GLU:OE1	2.38	0.46
1:A:46:ILE:O	1:A:46:ILE:HG22	2.15	0.46
1:A:37:LYS:HB2	1:A:40:GLN:OE1	2.16	0.46
1:A:47:TYR:CE2	1:A:51:ASN:ND2	2.84	0.46
1:A:31:ALA:HB2	1:A:69:ALA:HB2	1.99	0.45
3:S:68:SER:O	3:S:70:GLU:N	2.49	0.45
1:A:170:ASN:O	1:A:171:ASN:HB2	2.17	0.45
2:B:20:LEU:HD12	2:B:81:LEU:HD23	1.99	0.45
1:A:64:SER:HB3	3:S:65:ARG:HH12	1.82	0.44
3:S:33:HIS:CE1	3:S:42:ILE:HB	2.52	0.44
1:A:80:ASP:O	1:A:104:LEU:HD23	2.17	0.44
2:B:34:MET:CB	2:B:79:LEU:HD22	2.41	0.44
2:B:43:LYS:O	2:B:44:GLY:O	2.35	0.44
3:S:71:VAL:O	3:S:84:CYS:HA	2.18	0.44
1:A:34:TYR:O	1:A:84:TYR:HA	2.18	0.44
3:S:86:CYS:SG	3:S:92:ARG:HD3	2.57	0.44
1:A:45:VAL:O	1:A:56:ILE:HD13	2.17	0.44
1:A:23:GLY:C	1:A:25:SER:H	2.20	0.43
2:B:97:ALA:HB1	2:B:108:PHE:HB3	2.00	0.43
2:B:4:LEU:HD22	2:B:22:CYS:SG	2.59	0.43
2:B:36:TRP:HD1	2:B:70:ILE:CD1	2.32	0.43
1:A:12:ALA:HA	1:A:107:LEU:HB2	2.00	0.43
2:B:6:GLN:HE21	2:B:6:GLN:HB2	1.60	0.42
3:S:68:SER:C	3:S:70:GLU:H	2.21	0.42
1:A:32:SER:HB3	1:A:87:ASN:HD21	1.85	0.42
2:B:29:PHE:HE1	2:B:34:MET:HE3	1.84	0.42
1:A:17:VAL:HG11	1:A:104:LEU:HD11	2.02	0.42
2:B:6:GLN:O	2:B:7:SER:HB2	2.19	0.42
2:B:132:LEU:HD21	2:B:149:LEU:HB2	2.00	0.42
1:A:53:PRO:CG	1:A:56:ILE:HD11	2.49	0.42
1:A:26:LEU:HG	3:S:65:ARG:NH2	2.35	0.42
2:B:40:ALA:HB1	2:B:41:PRO:HD2	2.02	0.42
3:S:22:SER:HA	3:S:23:PRO:HD3	1.77	0.42
3:S:50:TYR:CE2	3:S:81:ASN:HB2	2.54	0.41
1:A:143:GLY:HA3	1:A:173:TYR:CG	2.54	0.41
1:A:47:TYR:HB2	2:B:107:TYR:CE1	2.56	0.41
1:A:99:GLY:C	1:A:101:GLY:H	2.23	0.41
1:A:87:ASN:HB2	1:A:97:VAL:O	2.21	0.41
2:B:60:TYR:OH	2:B:70:ILE:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:ASP:OD1	2:B:75:ALA:HB3	2.21	0.41
3:S:52:THR:HG22	3:S:79:THR:O	2.21	0.41
1:A:85:TYR:HE2	2:B:44:GLY:HA2	1.86	0.41
2:B:156:GLU:HG3	2:B:157:PRO:CA	2.51	0.41
1:A:3:LEU:CD2	1:A:26:LEU:HD11	2.50	0.40
1:A:28:SER:HB2	3:S:72:GLU:OE1	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	207/213 (97%)	183 (88%)	13 (6%)	11 (5%)	2	15
2	B	210/232 (90%)	189 (90%)	19 (9%)	2 (1%)	15	54
3	S	91/111 (82%)	84 (92%)	7 (8%)	0	100	100
All	All	508/556 (91%)	456 (90%)	39 (8%)	13 (3%)	5	31

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	2	GLU
1	A	24	ASP
1	A	32	SER
2	B	44	GLY
1	A	31	ALA
1	A	59	ARG
2	B	9	GLY
1	A	92	SER
1	A	152	ASP
1	A	93	GLY
1	A	38	PRO

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Mol	Chain	Res	Type
1	A	48	GLY
1	A	165	PRO

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	172/176 (98%)	161 (94%)	11 (6%)	17	52
2	B	174/188 (93%)	160 (92%)	14 (8%)	12	42
3	S	89/102 (87%)	80 (90%)	9 (10%)	7	29
All	All	435/466 (93%)	401 (92%)	34 (8%)	12	43

All (34) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	LEU
1	A	6	ASP
1	A	11	VAL
1	A	13	LEU
1	A	51	ASN
1	A	56	ILE
1	A	72	THR
1	A	79	GLU
1	A	87	ASN
1	A	103	LYS
1	A	166	SER
2	B	6	GLN
2	B	30	ASP
2	B	35	SER
2	B	57	SER
2	B	78	SER
2	B	82	GLN
2	B	96	CYS
2	B	98	LYS
2	B	99	ILE

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Mol	Chain	Res	Type
2	B	104	ARG
2	B	113	LYS
2	B	115	THR
2	B	121	SER
2	B	191	THR
3	S	65	ARG
3	S	71	VAL
3	S	73	LEU
3	S	74	SER
3	S	81	ASN
3	S	82	THR
3	S	92	ARG
3	S	116	ASP
3	S	120	TRP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	GLN
1	A	51	ASN
1	A	87	ASN
1	A	109	GLN
2	B	39	GLN
2	B	54	GLN
2	B	74	ASN
2	B	82	GLN
2	B	172	HIS
3	S	33	HIS
3	S	81	ASN

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](#)

There are no ligands in this entry.

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

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	209/213 (98%)	0.17	14 (6%) 17 10	54, 107, 226, 279	0
2	B	214/232 (92%)	0.44	29 (13%) 3 2	37, 76, 246, 274	0
3	S	97/111 (87%)	0.03	2 (2%) 63 49	55, 74, 136, 203	1 (1%)
All	All	520/556 (93%)	0.25	45 (8%) 10 5	37, 85, 234, 279	1 (0%)

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	192	VAL	8.5
2	B	218	LYS	6.4
1	A	121	PRO	5.5
2	B	220	GLU	5.5
2	B	144	ALA	5.1
2	B	148	CYS	4.9
1	A	188	SER	4.8
2	B	195	SER	4.6
2	B	169	SER	4.4
2	B	197	LEU	4.4
2	B	193	PRO	4.3
2	B	196	SER	3.7
2	B	128	SER	3.7
2	B	221	PRO	3.6
1	A	192	TYR	3.6
1	A	193	SER	3.6
2	B	147	GLY	3.5
1	A	181	LEU	3.5
2	B	199	THR	3.2
2	B	198	GLY	3.2
2	B	133	ALA	3.1
2	B	163	ASN	3.0
2	B	188	SER	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	127	GLN	2.8
2	B	187	SER	2.8
2	B	190	VAL	2.8
2	B	201	THR	2.7
1	A	191	SER	2.7
1	A	184	GLU	2.6
2	B	131	PRO	2.6
2	B	146	LEU	2.6
2	B	212	ASN	2.6
1	A	194	CYS	2.6
2	B	171	VAL	2.5
1	A	157	LYS	2.5
2	B	215	VAL	2.5
2	B	170	GLY	2.5
1	A	131	ALA	2.4
1	A	185	GLN	2.4
2	B	134	PRO	2.4
1	A	208	ALA	2.3
3	S	120	TRP	2.2
2	B	203	ILE	2.1
1	A	129	ASN	2.1
3	S	125	CYS	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 [\(i\)](#)

There are no ligands in this entry.

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.