



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 07:16 PM GMT

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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

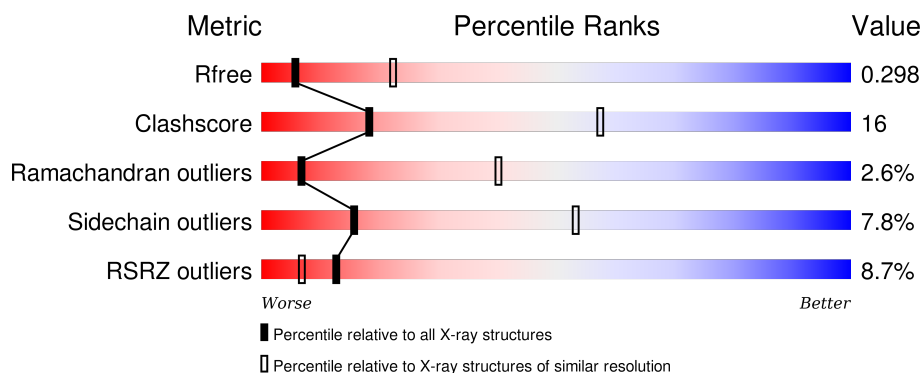
1 Overall quality at a glance

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}	91344	1124 (3.24-3.16)
Clashscore	102246	1024 (3.22-3.18)
Ramachandran outliers	100387	1004 (3.22-3.18)
Sidechain outliers	100360	1003 (3.22-3.18)
RSRZ outliers	91569	1129 (3.24-3.16)

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. 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	<div> <div>7%</div> <div>66%</div> <div>29%</div> <div>• •</div> </div>
2	B	232	<div> <div>13%</div> <div>64%</div> <div>25%</div> <div>• 8%</div> </div>
3	S	111	<div> <div>2%</div> <div>59%</div> <div>23%</div> <div>5% 13%</div> </div>

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
1	A	209	Total	C	N	O	S	0	0	0
			1547	963	260	320	4			

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

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

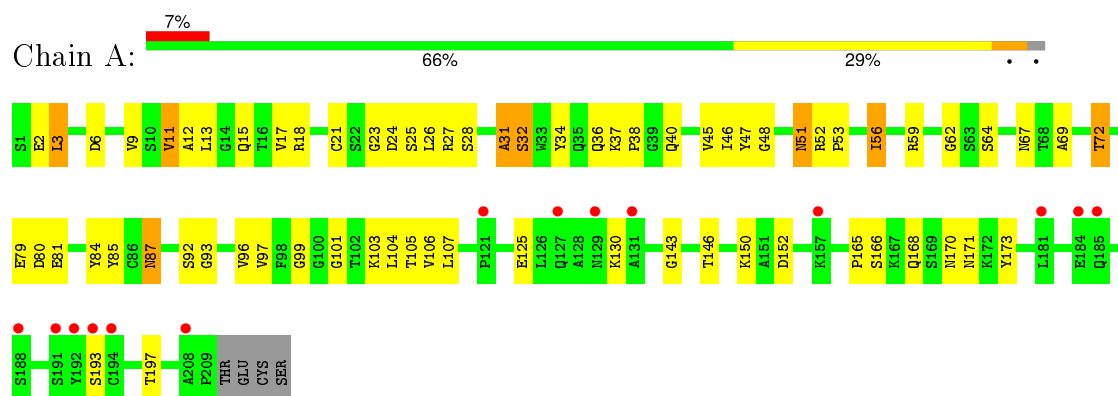
- Molecule 3 is a protein called Tumor necrosis factor receptor superfamily member 10B.

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

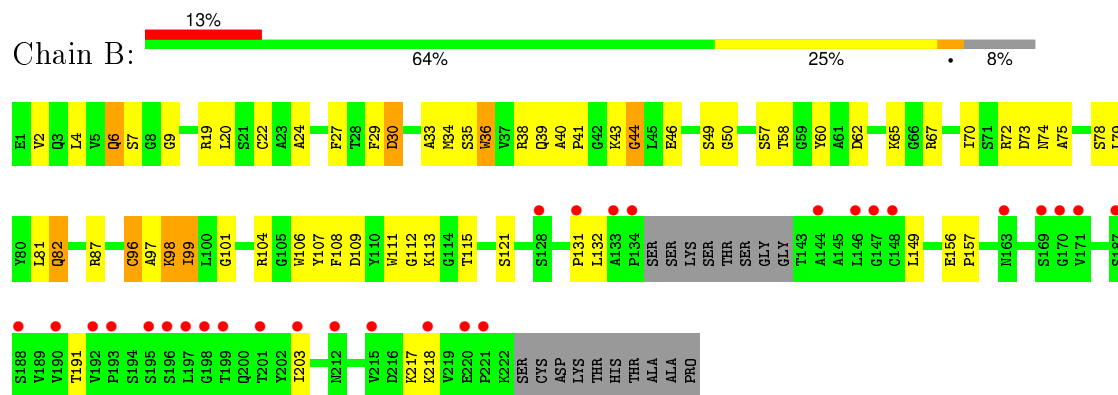
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

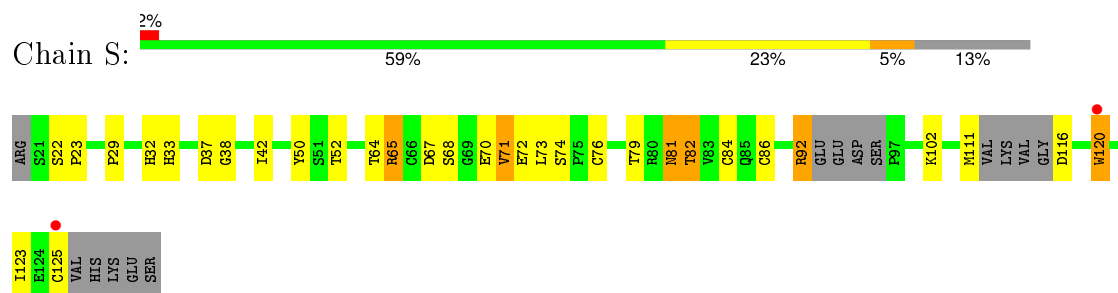
- Molecule 1: Fab fragment of drozitumab, light chain



- Molecule 2: Fab fragment of drozitumab, heavy chain



- Molecule 3: Tumor necrosis factor receptor superfamily member 10B



4 Data and refinement statistics

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)	Xtriage
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 (11.21%)	DCC
Wilson B-factor (Å ²)	71.6	Xtriage
Anisotropy	0.193	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 49.7	EDS
Estimated twinning fraction	0.063 for h,-h-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Outliers	0 of 10513 reflections	Xtriage
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

Xtriage'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, 0.375 respectively for untwinned datasets, and 0.333, 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:CD1	1:A:34:TYR:N	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
3:S:81:ASN:ND2	3:S:82:THR:H	2.08	0.52
1:A:81:GLU:HG3	1:A:105:THR:HA	1.92	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
3:S:76:CYS:HB2	3:S:82:THR:CG2	2.38	0.51
1:A:125:GLU:HG2	1:A:130:LYS:HB2	1.92	0.51
2:B:203:ILE:HG22	2:B:218:LYS:HA	1.92	0.51
2:B:19:ARG:HG3	2:B:82:GLN:HG2	1.93	0.51
2:B:49:SER:HB3	2:B:70:ILE:HD12	1.93	0.51
1:A:64:SER:HB3	3:S:65:ARG:NH1	2.26	0.51
1:A:53:PRO:O	1:A:56:ILE:HD12	2.11	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
3:S:64:THR:O	3:S:82:THR:CG2	2.60	0.49
1:A:87:ASN:HD22	1:A:87:ASN:C	2.15	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:HG22	1:A:46:ILE:O	2.15	0.46
1:A:47:TYR:CE2	1:A:51:ASN:ND2	2.84	0.46
1:A:37:LYS:HB2	1:A:40:GLN:OE1	2.16	0.46
3:S:68:SER:O	3:S:70:GLU:N	2.49	0.45
1:A:31:ALA:HB2	1:A:69:ALA:HB2	1.99	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
3:S:68:SER:C	3:S:70:GLU:H	2.21	0.42
2:B:6:GLN:HB2	2:B:6:GLN:HE21	1.60	0.42
2:B:29:PHE:HE1	2:B:34:MET:HE3	1.84	0.42
1:A:32:SER:HB3	1:A:87:ASN:HD21	1.85	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
3:S:22:SER:HA	3:S:23:PRO:HD3	1.77	0.42
2:B:40:ALA:HB1	2:B:41:PRO:HD2	2.02	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)
3:S:52:THR:HG22	3:S:79:THR:O	2.21	0.41
2:B:73:ASP:OD1	2:B:75:ALA:HB3	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	19
2	B	210/232 (90%)	189 (90%)	19 (9%)	2 (1%)	19	65
3	S	91/111 (82%)	84 (92%)	7 (8%)	0	100	100
All	All	508/556 (91%)	456 (90%)	39 (8%)	13 (3%)	7	40

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 ⓘ

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%)	22	62
2	B	174/188 (93%)	160 (92%)	14 (8%)	15	52
3	S	89/102 (87%)	80 (90%)	9 (10%)	9	36
All	All	435/466 (93%)	401 (92%)	34 (8%)	16	53

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

Some 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 ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates 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%)	0.19	14 (6%) 21 12	54, 107, 226, 279	0
2	B	214/232 (92%)	0.47	29 (13%) 4 2	37, 76, 246, 274	0
3	S	97/111 (87%)	0.06	2 (2%) 67 52	55, 74, 136, 203	1 (1%)
All	All	520/556 (93%)	0.28	45 (8%) 13 7	37, 85, 234, 279	1 (0%)

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	192	VAL	8.8
2	B	218	LYS	6.6
1	A	121	PRO	5.7
2	B	220	GLU	5.6
2	B	144	ALA	5.3
2	B	148	CYS	5.0
1	A	188	SER	4.9
2	B	195	SER	4.7
2	B	169	SER	4.6
2	B	197	LEU	4.5
2	B	193	PRO	4.4
2	B	196	SER	3.8
2	B	128	SER	3.8
1	A	192	TYR	3.8
2	B	221	PRO	3.7
1	A	193	SER	3.7
2	B	147	GLY	3.6
1	A	181	LEU	3.6
2	B	199	THR	3.3
2	B	198	GLY	3.3
2	B	133	ALA	3.2
2	B	163	ASN	3.1
2	B	188	SER	3.1

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Mol	Chain	Res	Type	RSRZ
2	B	187	SER	2.9
1	A	127	GLN	2.9
2	B	190	VAL	2.9
2	B	201	THR	2.8
1	A	191	SER	2.8
2	B	131	PRO	2.7
1	A	184	GLU	2.7
2	B	146	LEU	2.7
1	A	194	CYS	2.7
2	B	212	ASN	2.7
2	B	171	VAL	2.6
1	A	157	LYS	2.6
2	B	215	VAL	2.6
2	B	170	GLY	2.6
1	A	131	ALA	2.5
1	A	185	GLN	2.5
2	B	134	PRO	2.4
1	A	208	ALA	2.4
3	S	120	TRP	2.2
3	S	125	CYS	2.2
1	A	129	ASN	2.2
2	B	203	ILE	2.2

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 carbohydrates 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.