



Full wwPDB X-ray Structure Validation Report ⓘ

May 16, 2020 – 01:06 am BST

PDB ID : 4IGK
Title : Structure of human BRCA1 BRCT in complex with ATRIP peptide
Authors : Liu, X.; Ladas, J.A.A.
Deposited on : 2012-12-17
Resolution : 1.75 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 following versions of software and data (see [references ⓘ](#)) 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 : 2.11
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) : 2.11

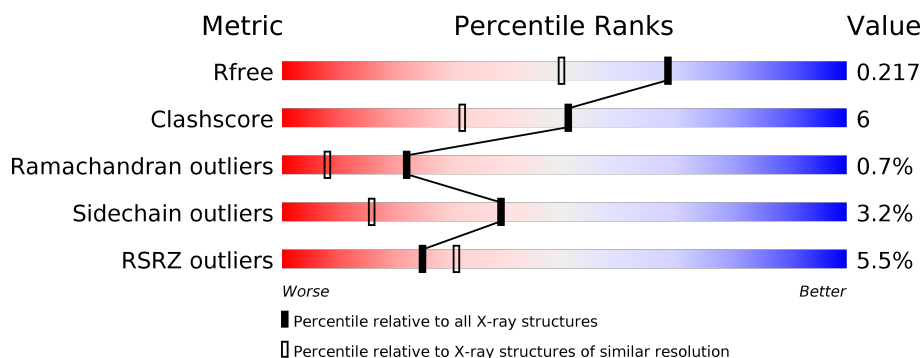
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.75 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	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

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 $\leq 5\%$. 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	214	
1	B	214	
2	C	7	
2	D	7	

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GOL	A	1902	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3918 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.

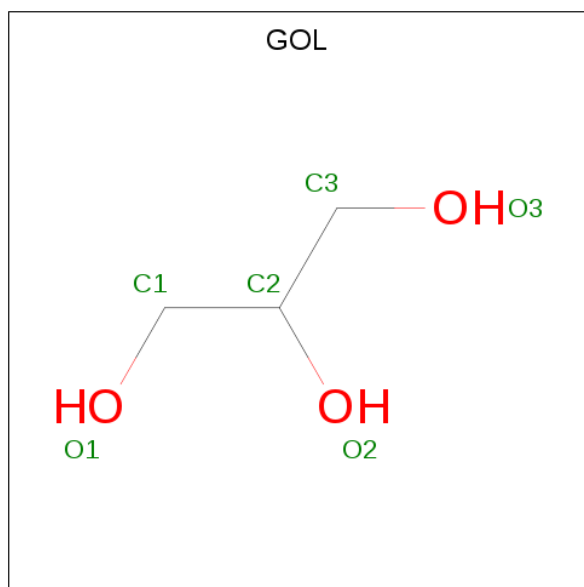
- Molecule 1 is a protein called Breast cancer type 1 susceptibility protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	211	Total	C	N	O	S	0	2	0
			1679	1077	289	299	14			
1	B	211	Total	C	N	O	S	0	1	0
			1683	1076	290	303	14			

- Molecule 2 is a protein called ATRIP peptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	7	Total	C	N	O	P	S	0	0
			52	30	8	12	1	1		
2	D	6	Total	C	N	O	P	S	0	1
			51	29	8	12	1	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).

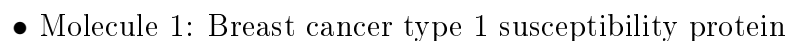


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	189	Total	O	0	0
			189	189		
4	B	212	Total	O	0	0
			212	212		
4	C	14	Total	O	0	0
			14	14		
4	D	14	Total	O	0	0
			14	14		

- Molecule 1: Breast cancer type 1 susceptibility protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	65.67Å 50.31Å 73.98Å 90.00° 116.03° 90.00°	Depositor
Resolution (Å)	27.51 – 1.75 27.50 – 1.75	Depositor EDS
% Data completeness (in resolution range)	99.7 (27.51-1.75) 99.7 (27.50-1.75)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.21 (at 1.75Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.159 , 0.204 0.172 , 0.217	Depositor DCC
R_{free} test set	2204 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	21.9	Xtriage
Anisotropy	0.082	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 57.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.000 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3918	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 83.06 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.3902e-07. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² Theoretical 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](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, SEP

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	0.94	0/1726	1.11	7/2337 (0.3%)
1	B	1.08	2/1726 (0.1%)	1.04	4/2339 (0.2%)
2	C	1.30	0/42	1.15	0/53
2	D	1.02	0/40	1.04	0/48
All	All	1.01	2/3534 (0.1%)	1.08	11/4777 (0.2%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1836	GLU	CD-OE1	8.62	1.35	1.25
1	B	1755	SER	CB-OG	-5.04	1.35	1.42

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1762	ARG	NE-CZ-NH1	-19.14	110.73	120.30
1	A	1762	ARG	NE-CZ-NH2	17.05	128.82	120.30
1	A	1751	ARG	NE-CZ-NH1	8.32	124.46	120.30
1	A	1751	ARG	NE-CZ-NH2	-7.62	116.49	120.30
1	B	1750	LYS	CD-CE-NZ	7.41	128.74	111.70
1	A	1762	ARG	CD-NE-CZ	7.16	133.62	123.60
1	B	1751	ARG	NE-CZ-NH1	6.11	123.35	120.30
1	A	1851	ASP	CB-CG-OD1	5.88	123.59	118.30
1	B	1699	ARG	NE-CZ-NH1	5.85	123.22	120.30
1	A	1754	GLU	OE1-CD-OE2	5.84	130.30	123.30
1	B	1744	ARG	NE-CZ-NH1	5.45	123.03	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	1679	0	1644	25	0
1	B	1683	0	1656	13	0
2	C	52	0	40	0	0
2	D	51	0	38	1	0
3	A	12	0	16	9	0
3	B	12	0	16	0	0
4	A	189	0	0	4	0
4	B	212	0	0	5	0
4	C	14	0	0	0	0
4	D	14	0	0	1	0
All	All	3918	0	3410	39	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 6.

All (39) 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:A:1762:ARG:HD3	4:B:2007:HOH:O	1.63	0.99
1:A:1654:VAL:HG23	3:A:1901:GOL:H31	1.54	0.88
1:A:1753:ARG:CG	3:A:1902:GOL:H11	2.06	0.85
1:B:1699:ARG:HH11	1:B:1742:ASN:HD21	1.32	0.76
1:A:1699:ARG:HH11	1:A:1742:ASN:HD21	1.33	0.74
1:A:1825:GLY:H	1:A:1857:GLN:HE21	1.38	0.71
1:A:1762:ARG:CD	4:B:2007:HOH:O	2.29	0.67
1:A:1698:GLU:OE2	4:A:2129:HOH:O	2.13	0.66
1:A:1699:ARG:NH1	1:A:1742:ASN:HD21	1.96	0.63
1:A:1732:HIS:HD2	4:A:2019:HOH:O	1.81	0.62
1:A:1753:ARG:HD2	3:A:1902:GOL:H11	1.82	0.61
1:A:1753:ARG:CD	3:A:1902:GOL:H11	2.31	0.61
1:A:1753:ARG:CG	3:A:1902:GOL:C1	2.77	0.61
1:A:1654:VAL:CG2	3:A:1901:GOL:H31	2.28	0.61
1:A:1745:ASN:ND2	1:A:1747:GLN:HE21	2.00	0.59
1:A:1825:GLY:H	1:A:1857:GLN:NE2	2.00	0.59
1:B:1735:GLU:OE1	1:B:1750:LYS:HE2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1745:ASN:ND2	1:B:1747:GLN:HE21	2.00	0.57
1:A:1753:ARG:HG2	3:A:1902:GOL:C1	2.37	0.55
1:B:1667:LYS:HE2	4:B:2145:HOH:O	2.05	0.54
1:B:1699:ARG:NH1	1:B:1742:ASN:HD21	2.02	0.54
1:A:1753:ARG:HG3	3:A:1902:GOL:H11	1.89	0.54
1:B:1779:GLN:NE2	4:B:2165:HOH:O	2.41	0.54
1:A:1646:VAL:HG22	1:A:1647:ASN:H	1.75	0.50
2:D:5:CYS:N	4:D:112:HOH:O	2.45	0.49
1:A:1810:VAL:CG2	1:A:1855:ILE:CD1	2.90	0.49
1:A:1711:LYS:HE2	4:A:2169:HOH:O	2.12	0.49
1:A:1745:ASN:HD21	1:A:1747:GLN:HE21	1.60	0.49
1:B:1745:ASN:HD21	1:B:1747:GLN:HE21	1.60	0.48
1:B:1776:PRO:HB2	1:B:1778:ASP:OD1	2.12	0.48
1:B:1819:ASN:CA	4:B:2202:HOH:O	2.62	0.48
1:A:1753:ARG:HG2	3:A:1902:GOL:H11	1.89	0.48
1:B:1810:VAL:CG2	1:B:1855:ILE:CD1	2.92	0.47
1:A:1646:VAL:HG21	4:A:2124:HOH:O	2.15	0.45
1:B:1827:MET:O	1:B:1828:CYS:HB3	2.18	0.44
1:B:1781:GLU:O	1:B:1785:GLN:HG3	2.17	0.43
1:A:1805:HIS:ND1	1:A:1805:HIS:N	2.67	0.43
1:A:1745:ASN:ND2	1:A:1747:GLN:NE2	2.67	0.43
1:B:1646:VAL:HB	1:B:1647:ASN:H	1.73	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	208/214 (97%)	199 (96%)	6 (3%)	3 (1%)	11	2
1	B	208/214 (97%)	203 (98%)	5 (2%)	0	100	100
2	C	4/7 (57%)	4 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D	3/7 (43%)	3 (100%)	0	0	100	100
All	All	423/442 (96%)	409 (97%)	11 (3%)	3 (1%)	22	8

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1798	PHE
1	A	1802	THR
1	A	1804	VAL

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	182/191 (95%)	173 (95%)	9 (5%)	25	7
1	B	184/191 (96%)	182 (99%)	2 (1%)	73	60
2	C	4/4 (100%)	4 (100%)	0	100	100
2	D	4/4 (100%)	3 (75%)	1 (25%)	0	0
All	All	374/390 (96%)	362 (97%)	12 (3%)	39	16

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1649	ARG
1	A	1745	ASN
1	A	1762	ARG
1	A	1792	VAL
1	A	1796	SER
1	A	1802	THR
1	A	1805	HIS
1	A	1828	CYS
1	A	1851	ASP
1	B	1646	VAL
1	B	1745	ASN

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Mol	Chain	Res	Type
2	D	5	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1742	ASN
1	A	1745	ASN
1	A	1785	GLN
1	A	1822	HIS
1	A	1857	GLN
1	B	1742	ASN
1	B	1745	ASN
1	B	1822	HIS
1	B	1826	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	SEP	D	6	2	8,9,10	1.03	1 (12%)	8,12,14	1.47	1 (12%)
2	SEP	C	6	2	8,9,10	1.14	0	8,12,14	1.07	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	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	SEP	D	6	2	-	0/5/8/10	-
2	SEP	C	6	2	-	0/5/8/10	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	6	SEP	P-O3P	-2.03	1.47	1.54

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	6	SEP	O2P-P-OG	-2.58	99.87	106.73

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

4 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		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	B	1901	-	5,5,5	0.70	0	5,5,5	1.69	1 (20%)
3	GOL	A	1902	-	5,5,5	0.18	0	5,5,5	1.10	1 (20%)
3	GOL	A	1901	-	5,5,5	0.83	0	5,5,5	1.15	0
3	GOL	B	1902	-	5,5,5	0.36	0	5,5,5	0.80	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	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	1901	-	-	4/4/4/4	-
3	GOL	A	1902	-	-	4/4/4/4	-
3	GOL	A	1901	-	-	4/4/4/4	-
3	GOL	B	1902	-	-	2/4/4/4	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	1901	GOL	O3-C3-C2	2.55	122.45	110.20
3	A	1902	GOL	O1-C1-C2	2.20	120.77	110.20

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	1901	GOL	O1-C1-C2-C3
3	B	1901	GOL	C1-C2-C3-O3
3	A	1902	GOL	O1-C1-C2-C3
3	A	1901	GOL	C1-C2-C3-O3
3	A	1901	GOL	O2-C2-C3-O3
3	B	1902	GOL	C1-C2-C3-O3
3	B	1902	GOL	O2-C2-C3-O3
3	A	1902	GOL	O1-C1-C2-O2
3	A	1902	GOL	C1-C2-C3-O3
3	A	1901	GOL	O1-C1-C2-C3
3	B	1901	GOL	O1-C1-C2-O2
3	B	1901	GOL	O2-C2-C3-O3
3	A	1901	GOL	O1-C1-C2-O2
3	A	1902	GOL	O2-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1902	GOL	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1901	GOL	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

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	211/214 (98%)	0.30	13 (6%) 20 26	15, 26, 58, 92	0
1	B	211/214 (98%)	0.05	8 (3%) 40 47	15, 23, 44, 55	0
2	C	6/7 (85%)	1.46	2 (33%) 0 0	24, 28, 38, 49	0
2	D	5/7 (71%)	0.55	1 (20%) 1 1	20, 22, 24, 40	0
All	All	433/442 (97%)	0.20	24 (5%) 25 31	15, 24, 49, 92	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1802	THR	7.7
1	A	1800	LEU	7.4
1	A	1804	VAL	5.2
2	C	5	CYS	5.0
1	B	1802	THR	4.9
1	A	1801	GLY	4.9
1	A	1803	GLY	4.3
1	B	1804	VAL	4.1
1	A	1827	MET	3.4
1	A	1796	SER	3.4
1	B	1800	LEU	3.3
1	B	1801	GLY	3.3
2	D	5	CYS	3.3
1	A	1797	SER	3.2
1	B	1803	GLY	2.9
1	A	1678	ASN	2.7
1	B	1799	THR	2.6
1	A	1819	ASN	2.5
1	A	1793	LYS	2.5
2	C	4	ALA	2.3
1	A	1687	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	1688	VAL	2.2
1	B	1714	VAL	2.1
1	B	1688	VAL	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, 95th 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	B-factors(Å ²)	Q<0.9
2	SEP	D	6	10/11	0.97	0.07	15,20,21,25	0
2	SEP	C	6	10/11	0.98	0.07	18,19,20,25	0

6.3 Carbohydrates [i](#)

There are no carbohydrates 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, 95th 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	B-factors(Å ²)	Q<0.9
3	GOL	A	1902	6/6	0.92	0.21	33,37,43,47	0
3	GOL	B	1901	6/6	0.94	0.08	23,30,31,36	0
3	GOL	A	1901	6/6	0.95	0.09	24,30,33,35	0
3	GOL	B	1902	6/6	0.95	0.18	34,39,44,52	0

6.5 Other polymers [i](#)

There are no such residues in this entry.