Full wwPDB X-ray Structure Validation Report (i)

Mar 5, 2026 – 07:08 AM UTC

PDB ID	:	1Y98 / pdb_00001y98
Title	:	Structure of the BRCT repeats of BRCA1 bound to a CtIP phosphopeptide.
Authors	:	Varma, A.K.; Brown, R.S.; Birrane, G.; Ladias, J.A.A.
Deposited on	:	2004-12-14
Resolution	:	2.50 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 types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

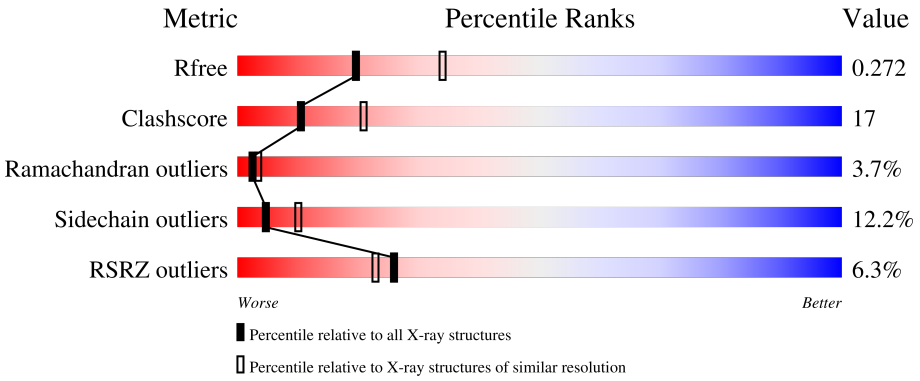
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

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 2.50 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}	180053	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	214	5% 59% 29% 9%
2	B	12	33% 58% 17% 25%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 1840 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
			Total	C	N	O	S			
1	A	211	1696	1082	289	311	14	0	0	0

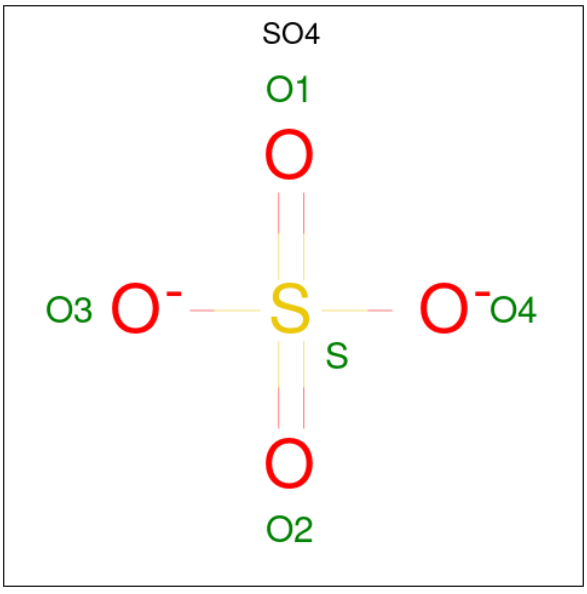
- Molecule 2 is a protein called CtIP PHOSPHORYLATED PEPTIDE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	B	12	90	54	15	20	1	0	0	0

- Molecule 3 is COBALT (II) ION (CCD ID: CO) (formula: Co).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Co		
3	A	1	1	1	0	0

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula: O_4S).



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

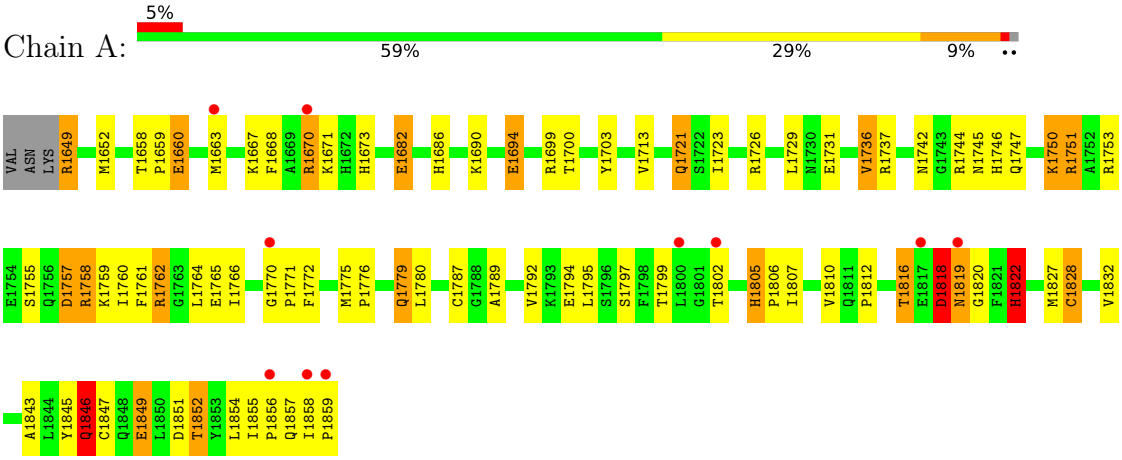
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	40	Total O 40 40	0	0
5	B	8	Total O 8 8	0	0

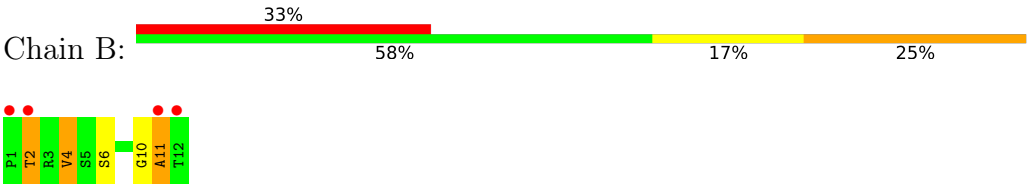
3 Residue-property plots (i)

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: Breast cancer type 1 susceptibility protein



• Molecule 2: CtIP PHOSPHORYLATED PEPTIDE



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α, β, γ	113.12Å 113.12Å 121.88Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	19.59 – 2.50 19.59 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.3 (19.59-2.50) 99.0 (19.59-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.13	Depositor
$< I/\sigma(I) >$ [1]	2.92 (at 2.50Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.234 , 0.270 0.233 , 0.272	Depositor DCC
R_{free} test set	1008 reflections (6.15%)	wwPDB-VP
Wilson B-factor (Å^2)	43.5	Xtriage
Anisotropy	0.181	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 32.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.44$, $< L^2 > = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	1840	wwPDB-VP
Average B, all atoms (Å^2)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.48% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical 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.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SEP, SO4, CO

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	1.05	7/1737 (0.4%)	1.21	15/2355 (0.6%)
2	B	1.07	0/81	2.30	4/106 (3.8%)
All	All	1.05	7/1818 (0.4%)	1.27	19/2461 (0.8%)

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1673	HIS	ND1-CE1	5.60	1.38	1.32
1	A	1805	HIS	ND1-CE1	5.44	1.38	1.32
1	A	1846	GLN	CD-OE1	5.40	1.33	1.23
1	A	1822	HIS	ND1-CE1	5.39	1.38	1.32
1	A	1746	HIS	ND1-CE1	5.14	1.37	1.32
1	A	1745	ASN	CG-OD1	5.10	1.33	1.23
1	A	1779	GLN	CD-OE1	5.01	1.33	1.23

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	2	THR	N-CA-CB	15.26	136.28	110.49
2	B	2	THR	CA-CB-CG2	8.96	125.73	110.50
1	A	1855	ILE	CA-C-N	-7.62	109.96	120.25
1	A	1855	ILE	C-N-CA	-7.62	109.96	120.25
2	B	2	THR	CB-CA-C	-7.39	95.72	110.42
1	A	1658	THR	N-CA-C	-7.21	101.84	110.13
1	A	1822	HIS	CB-CG-CD2	-6.81	122.35	131.20
1	A	1746	HIS	CB-CG-CD2	-6.76	122.41	131.20
1	A	1805	HIS	CB-CG-CD2	-6.55	122.68	131.20
1	A	1673	HIS	CB-CG-CD2	-6.06	123.33	131.20
2	B	4	VAL	CB-CA-C	5.75	116.12	111.06
1	A	1746	HIS	CB-CG-ND1	5.71	131.27	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1822	HIS	CB-CG-ND1	5.68	131.22	122.70
1	A	1805	HIS	CB-CG-ND1	5.65	131.18	122.70
1	A	1775	MET	CA-C-N	-5.38	114.22	119.76
1	A	1775	MET	C-N-CA	-5.38	114.22	119.76
1	A	1670	ARG	N-CA-C	-5.34	105.36	111.07
1	A	1673	HIS	CB-CG-ND1	5.33	130.70	122.70
1	A	1832	VAL	N-CA-C	5.20	114.24	106.85

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	1696	0	1671	58	0
2	B	90	0	87	2	0
3	A	1	0	0	0	0
4	A	5	0	0	0	0
5	A	40	0	0	5	0
5	B	8	0	0	1	0
All	All	1840	0	1758	60	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 17.

All (60) 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:1699:ARG:HH11	1:A:1742:ASN:HD21	1.20	0.84
1:A:1682:GLU:H	1:A:1682:GLU:CD	1.87	0.82
1:A:1799:THR:HG22	1:A:1799:THR:O	1.78	0.81
1:A:1776:PRO:HG2	1:A:1779:GLN:HG2	1.64	0.79
1:A:1699:ARG:HH11	1:A:1742:ASN:ND2	1.85	0.75
1:A:1649:ARG:O	1:A:1649:ARG:HG2	1.89	0.72
1:A:1649:ARG:N	1:A:1649:ARG:HE	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1827:MET:O	1:A:1828:CYS:HB3	1.93	0.68
1:A:1652:MET:HB3	1:A:1686:HIS:HB2	1.73	0.68
1:A:1852:THR:HG23	5:A:46:HOH:O	1.92	0.68
1:A:1757:ASP:HB3	5:A:21:HOH:O	1.94	0.67
1:A:1699:ARG:NH1	1:A:1742:ASN:HD21	1.93	0.65
1:A:1747:GLN:O	1:A:1751:ARG:HG2	1.99	0.62
1:A:1849:GLU:HB2	1:A:1851:ASP:OD1	1.99	0.62
1:A:1742:ASN:ND2	1:A:1843:ALA:CB	2.66	0.58
1:A:1659:PRO:O	1:A:1663:MET:HG2	2.04	0.56
2:B:2:THR:O	5:B:18:HOH:O	2.18	0.56
1:A:1700:THR:O	1:A:1703:TYR:HB3	2.06	0.56
1:A:1846:GLN:O	1:A:1846:GLN:CG	2.54	0.56
1:A:1682:GLU:CD	1:A:1682:GLU:N	2.62	0.55
1:A:1851:ASP:HA	1:A:1854:LEU:HD12	1.87	0.55
1:A:1819:ASN:O	1:A:1822:HIS:HB2	2.06	0.55
1:A:1846:GLN:O	1:A:1846:GLN:HG3	2.06	0.54
1:A:1660:GLU:H	1:A:1660:GLU:CD	2.16	0.53
1:A:1713:VAL:O	1:A:1736:VAL:HG13	2.10	0.51
1:A:1737:ARG:NH2	5:A:44:HOH:O	2.44	0.51
1:A:1810:VAL:HG23	1:A:1812:PRO:HD3	1.94	0.50
1:A:1858:ILE:HG22	1:A:1859:PRO:O	2.11	0.50
1:A:1750:LYS:O	1:A:1751:ARG:C	2.55	0.49
1:A:1757:ASP:O	1:A:1759:LYS:N	2.45	0.49
1:A:1690:LYS:HE2	5:A:19:HOH:O	2.13	0.48
1:A:1770:GLY:HA2	1:A:1772:PHE:CE2	2.50	0.47
1:A:1818:ASP:C	1:A:1820:GLY:H	2.23	0.47
1:A:1758:ARG:HD2	1:A:1762:ARG:NH1	2.30	0.46
1:A:1668:PHE:HB2	1:A:1723:ILE:HD11	1.97	0.46
1:A:1792:VAL:HG12	1:A:1794:GLU:H	1.80	0.46
1:A:1799:THR:O	1:A:1799:THR:CG2	2.50	0.46
1:A:1759:LYS:HG2	1:A:1787:CYS:C	2.41	0.46
1:A:1822:HIS:HD2	1:A:1856:PRO:O	1.99	0.46
1:A:1726:ARG:HD2	5:A:43:HOH:O	2.16	0.45
1:A:1857:GLN:O	1:A:1859:PRO:HD3	2.16	0.45
1:A:1694:GLU:HG3	1:A:1744:ARG:HH21	1.82	0.45
1:A:1780:LEU:HD12	1:A:1780:LEU:HA	1.80	0.45
1:A:1827:MET:O	1:A:1828:CYS:CB	2.61	0.45
1:A:1822:HIS:CD2	1:A:1856:PRO:O	2.70	0.44
1:A:1742:ASN:HD22	1:A:1843:ALA:CB	2.31	0.44
1:A:1792:VAL:HG13	1:A:1797:SER:HB2	2.01	0.43
1:A:1760:ILE:HG23	1:A:1845:TYR:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1805:HIS:HA	1:A:1806:PRO:HD3	1.93	0.42
2:B:10:GLY:O	2:B:11:ALA:C	2.62	0.42
1:A:1721:GLN:HB3	1:A:1729:LEU:HD12	2.01	0.42
1:A:1761:PHE:O	1:A:1762:ARG:C	2.62	0.42
1:A:1753:ARG:HH11	1:A:1753:ARG:HG2	1.84	0.42
1:A:1795:LEU:HD23	1:A:1795:LEU:HA	1.81	0.41
1:A:1822:HIS:HE2	1:A:1856:PRO:HD2	1.85	0.41
1:A:1822:HIS:HB3	1:A:1858:ILE:HD11	2.02	0.41
1:A:1731:GLU:OE1	1:A:1731:GLU:N	2.51	0.40
1:A:1765:GLU:OE1	1:A:1799:THR:HB	2.21	0.40
1:A:1766:ILE:HD12	1:A:1789:ALA:CB	2.52	0.40
1:A:1849:GLU:H	1:A:1849:GLU:HG2	1.69	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	209/214 (98%)	180 (86%)	22 (10%)	7 (3%)	3	4
2	B	9/12 (75%)	5 (56%)	3 (33%)	1 (11%)	0	0
All	All	218/226 (96%)	185 (85%)	25 (12%)	8 (4%)	2	3

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1758	ARG
1	A	1819	ASN
2	B	11	ALA
1	A	1816	THR
1	A	1818	ASP
1	A	1762	ARG

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Mol	Chain	Res	Type
1	A	1847	CYS
1	A	1828	CYS

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	188/191 (98%)	165 (88%)	23 (12%)	5 10
2	B	9/9 (100%)	8 (89%)	1 (11%)	6 12
All	All	197/200 (98%)	173 (88%)	24 (12%)	5 10

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1649	ARG
1	A	1660	GLU
1	A	1667	LYS
1	A	1670	ARG
1	A	1671	LYS
1	A	1682	GLU
1	A	1694	GLU
1	A	1721	GLN
1	A	1736	VAL
1	A	1750	LYS
1	A	1751	ARG
1	A	1755	SER
1	A	1757	ASP
1	A	1764	LEU
1	A	1771	PRO
1	A	1802	THR
1	A	1807	ILE
1	A	1816	THR
1	A	1818	ASP
1	A	1822	HIS
1	A	1846	GLN

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Mol	Chain	Res	Type
1	A	1849	GLU
1	A	1852	THR
2	B	4	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1672	HIS
1	A	1721	GLN
1	A	1742	ASN
1	A	1819	ASN
1	A	1846	GLN
1	A	1848	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)

1 non-standard protein/DNA/RNA residue 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	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	SEP	B	6	2	8,9,10	1.56	2 (25%)	7,12,14	0.89	1 (14%)

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	B	6	2	-	1/6/8/10	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	6	SEP	P-O1P	3.11	1.60	1.50
2	B	6	SEP	P-O2P	2.10	1.62	1.54

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	6	SEP	OG-P-O1P	2.06	112.00	106.44

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	6	SEP	CA-CB-OG-P

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

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	$\#\|Z\| > 2$
4	SO4	A	201	-	4,4,4	0.38	0	6,6,6	0.46	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

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, 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	A	211/214 (98%)	0.16	10 (4%) 36 32	32, 51, 76, 94	0
2	B	11/12 (91%)	1.31	4 (36%) 1 1	51, 63, 78, 80	0
All	All	222/226 (98%)	0.21	14 (6%) 26 23	32, 51, 78, 94	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	1	PRO	5.3
2	B	2	THR	3.4
1	A	1817	GLU	3.4
1	A	1802	THR	3.1
1	A	1663	MET	3.0
1	A	1819	ASN	3.0
2	B	12	THR	2.9
1	A	1800	LEU	2.9
1	A	1856	PRO	2.7
1	A	1770	GLY	2.7
1	A	1858	ILE	2.2
1	A	1859	PRO	2.2
2	B	11	ALA	2.2
1	A	1670	ARG	2.1

6.2 Non-standard residues in protein, DNA, RNA chains

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	B-factors(Å^2)	Q<0.9
2	SEP	B	6	10/11	0.97	0.08	41,48,52,52	0

6.3 Carbohydrates (i)

There are no oligosaccharides 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	B-factors(Å^2)	Q<0.9
4	SO4	A	201	5/5	0.78	0.34	99,99,99,101	0
3	CO	A	101	1/1	0.91	0.08	72,72,72,72	0

6.5 Other polymers (i)

There are no such residues in this entry.