



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 12:59 AM UTC

PDB ID : 2Y2K / pdb_00002y2k
Title : PENICILLIN-BINDING PROTEIN 1B (PBP-1B) IN COMPLEX WITH AN ALKYL BORONATE (ZA5)
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Deposited on : 2010-12-15
Resolution : 2.09 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	:	4-5-2 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

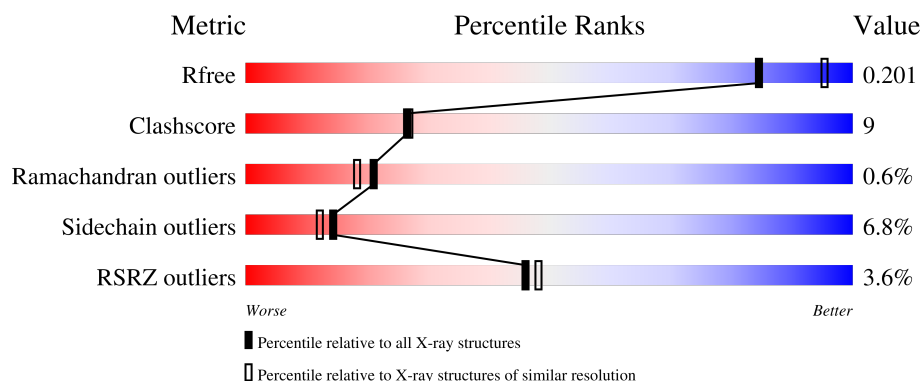
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

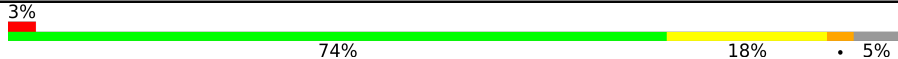
The reported resolution of this entry is 2.09 Å.

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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	494	

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	CL	A	1217	-	-	X	-

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 3888 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.

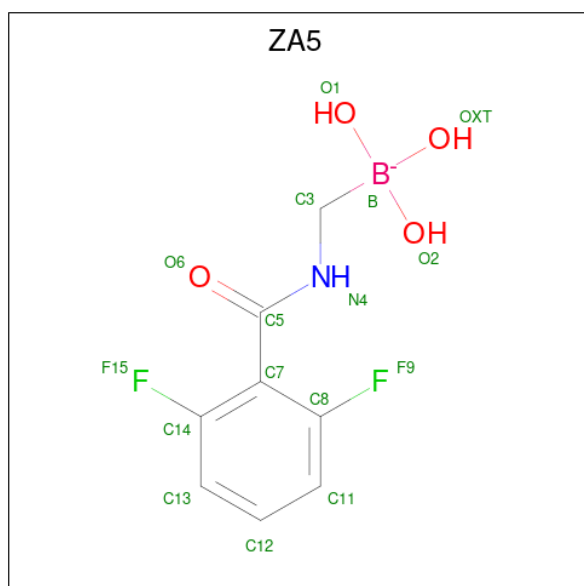
- Molecule 1 is a protein called PENICILLIN-BINDING PROTEIN 1B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	469	3637	2276	621	725	15	0	3	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	656	GLY	ASN	engineered mutation	UNP Q7CRA4
A	686	GLN	ARG	engineered mutation	UNP Q7CRA4
A	687	GLN	ARG	engineered mutation	UNP Q7CRA4

- Molecule 2 is [(2,6-DIFLUOROPHENYL)CARBONYLAMINO]METHYL-TRIHYDROXY-BORON (CCD ID: ZA5) (formula: C₈H₉BF₂NO₄).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	B	C	F	N	O	
2	A	1	15	1	8	2	1	3	0

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	17	Total	Cl	0	0
			17	17		

- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Na	0	0
			1	1		

- Molecule 6 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			4	2	2		

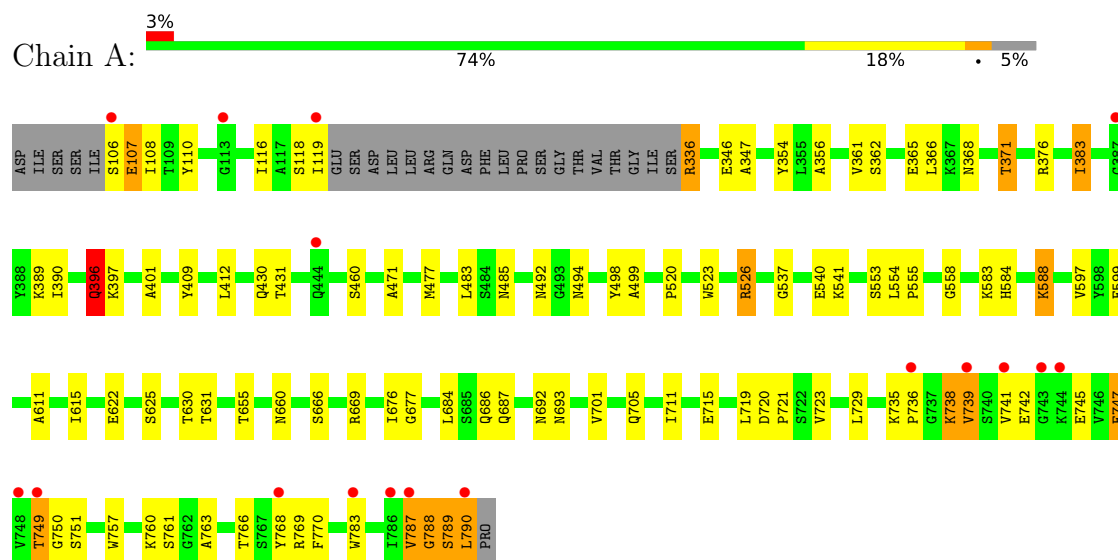
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	209	Total	O	0	0
			209	209		

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: PENICILLIN-BINDING PROTEIN 1B



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	98.31Å 149.91Å 97.58Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.55 – 2.09 44.55 – 2.09	Depositor EDS
% Data completeness (in resolution range)	93.0 (44.55-2.09) 93.0 (44.55-2.09)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.36 (at 2.08Å)	Xtriage
Refinement program	REFMAC 5.6.0095	Depositor
R, R_{free}	0.202 , 0.263 (Not available) , 0.201	Depositor DCC
R_{free} test set	4009 reflections (10.04%)	wwPDB-VP
Wilson B-factor (Å ²)	33.1	Xtriage
Anisotropy	0.119	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3888	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.09% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: NA, SO4, EDO, CL, ZA5

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	0.96	1/3719 (0.0%)	1.05	10/5045 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	789	SER	C-N	-17.79	1.08	1.33

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	383	ILE	N-CA-C	6.79	116.91	110.53
1	A	789	SER	CA-C-N	-6.63	109.76	121.70
1	A	789	SER	C-N-CA	-6.63	109.76	121.70
1	A	107	GLU	N-CA-C	5.90	118.38	109.23
1	A	471	ALA	N-CA-C	-5.72	105.12	111.36
1	A	401	ALA	N-CA-C	-5.47	105.48	111.82
1	A	631	THR	N-CA-C	-5.40	106.36	113.17
1	A	396	GLN	N-CA-C	5.20	116.63	111.07
1	A	460	SER	N-CA-C	5.17	118.69	112.38
1	A	705	GLN	N-CA-C	5.17	116.60	111.07

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	498	TYR	Peptide
1	A	666	SER	Peptide

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	3637	0	3520	67	0
2	A	15	0	8	0	0
3	A	5	0	0	0	0
4	A	17	0	0	4	0
5	A	1	0	0	0	0
6	A	4	0	6	0	0
7	A	209	0	0	12	0
All	All	3888	0	3534	67	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 9.

All (67) 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:526[B]:ARG:HD3	7:A:2111:HOH:O	1.65	0.96
1:A:738:LYS:HD3	1:A:745:GLU:OE1	1.68	0.92
1:A:336:ARG:O	1:A:336:ARG:HG2	1.70	0.90
1:A:361:VAL:HG13	1:A:365:GLU:HG3	1.64	0.77
1:A:768:TYR:CE1	1:A:783:TRP:CD1	2.78	0.72
1:A:540:GLU:OE2	7:A:2100:HOH:O	2.08	0.70
1:A:749:THR:HG23	1:A:750:GLY:N	2.07	0.69
1:A:365:GLU:HB2	7:A:2017:HOH:O	1.95	0.67
1:A:361:VAL:CG1	1:A:365:GLU:HG3	2.28	0.64
1:A:770:PHE:HD2	1:A:783:TRP:CZ2	2.17	0.63
1:A:108:ILE:HG22	1:A:116:ILE:HD12	1.81	0.62
1:A:787:VAL:HG12	1:A:788:GLY:N	2.15	0.61
1:A:749:THR:HG22	1:A:790:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376[B]:ARG:HD2	7:A:2025:HOH:O	2.01	0.60
1:A:770:PHE:CD2	1:A:783:TRP:CZ2	2.92	0.58
1:A:356:ALA:HB1	1:A:366:LEU:HD11	1.85	0.58
1:A:110:TYR:CE2	1:A:396:GLN:HG3	2.40	0.56
1:A:361:VAL:HA	1:A:365:GLU:OE2	2.05	0.56
1:A:526[A]:ARG:HD2	7:A:2092:HOH:O	2.05	0.56
1:A:494:ASN:ND2	4:A:1792:CL:CL	2.68	0.54
1:A:110:TYR:CG	1:A:396:GLN:HB2	2.43	0.54
1:A:729:LEU:HB3	4:A:1217:CL:CL	2.45	0.53
1:A:554:LEU:N	1:A:555:PRO:CD	2.71	0.52
1:A:747:GLU:OE1	1:A:747:GLU:HA	2.07	0.52
1:A:347:ALA:HB1	1:A:390:ILE:HD13	1.92	0.51
1:A:553:SER:C	1:A:555:PRO:HD2	2.36	0.51
1:A:119:ILE:HD13	1:A:119:ILE:N	2.24	0.51
1:A:554:LEU:N	1:A:555:PRO:HD2	2.24	0.51
1:A:739:VAL:HG21	1:A:766:THR:HG22	1.93	0.51
1:A:110:TYR:CZ	1:A:396:GLN:HG3	2.47	0.50
1:A:677:GLY:HA2	1:A:684:LEU:HD11	1.93	0.50
1:A:787:VAL:C	1:A:789:SER:H	2.20	0.50
1:A:720:ASP:CG	1:A:721:PRO:HD2	2.38	0.49
1:A:362:SER:O	1:A:365:GLU:HG2	2.12	0.49
1:A:346:GLU:HG2	4:A:1212:CL:CL	2.50	0.48
1:A:376[B]:ARG:NE	7:A:2025:HOH:O	2.46	0.48
1:A:741:VAL:O	1:A:742:GLU:C	2.56	0.48
1:A:749:THR:CG2	1:A:750:GLY:N	2.74	0.48
1:A:676:ILE:HD13	1:A:693:ASN:HB2	1.95	0.47
1:A:354:TYR:CG	1:A:597:VAL:HG13	2.49	0.47
1:A:376[B]:ARG:CD	7:A:2025:HOH:O	2.61	0.47
1:A:787:VAL:O	1:A:789:SER:N	2.48	0.47
1:A:371:THR:HG21	7:A:2017:HOH:O	2.15	0.46
1:A:368:ASN:OD1	1:A:371:THR:HG23	2.16	0.45
1:A:622:GLU:HA	1:A:625[B]:SER:OG	2.16	0.45
1:A:523:TRP:HZ3	1:A:526[A]:ARG:HE	1.63	0.45
1:A:611:ALA:O	1:A:615:ILE:HG13	2.17	0.44
1:A:583:LYS:HD2	7:A:2125:HOH:O	2.18	0.44
1:A:757:TRP:NE1	1:A:763:ALA:HB2	2.32	0.44
1:A:751:SER:O	4:A:1217:CL:CL	2.73	0.43
1:A:336:ARG:CZ	1:A:336:ARG:HB3	2.49	0.43
1:A:749:THR:HG22	1:A:790:LEU:CD2	2.47	0.43
1:A:409:TYR:HB3	1:A:412:LEU:HD12	2.01	0.42
1:A:492:ASN:OD1	1:A:492:ASN:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:669:ARG:NH2	1:A:715:GLU:OE2	2.51	0.42
1:A:787:VAL:CG1	1:A:788:GLY:N	2.78	0.42
1:A:431:THR:O	1:A:584:HIS:HE1	2.03	0.41
1:A:655:THR:HG21	1:A:660:ASN:HD22	1.85	0.41
1:A:537:GLY:O	1:A:541:LYS:HG3	2.21	0.41
1:A:376[A]:ARG:NH2	7:A:2023:HOH:O	2.32	0.41
1:A:554:LEU:HD12	1:A:558:GLY:O	2.21	0.41
1:A:687:GLN:HB2	7:A:2174:HOH:O	2.20	0.41
1:A:430:GLN:OE1	7:A:2056:HOH:O	2.22	0.41
1:A:485:ASN:OD1	1:A:520:PRO:HD3	2.21	0.41
1:A:588:LYS:HG3	1:A:599:GLU:HG3	2.02	0.41
1:A:719:LEU:HD22	1:A:723:VAL:HG21	2.01	0.40
1:A:735:LYS:HA	1:A:736:PRO:HD2	1.89	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	468/494 (95%)	446 (95%)	19 (4%)	3 (1%)	21	18

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	788	GLY
1	A	769	ARG
1	A	499	ALA

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	388/408 (95%)	361 (93%)	27 (7%)	14	11

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	106	SER
1	A	107	GLU
1	A	118	SER
1	A	336	ARG
1	A	371	THR
1	A	383	ILE
1	A	389	LYS
1	A	396	GLN
1	A	397	LYS
1	A	477	MET
1	A	483	LEU
1	A	526[A]	ARG
1	A	526[B]	ARG
1	A	588	LYS
1	A	630	THR
1	A	686	GLN
1	A	692	ASN
1	A	701	VAL
1	A	711	ILE
1	A	738	LYS
1	A	739	VAL
1	A	747	GLU
1	A	749	THR
1	A	760	LYS
1	A	761	SER
1	A	787	VAL
1	A	790	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	424	ASN
1	A	448	ASN
1	A	635	ASN
1	A	645	ASN
1	A	681	ASN
1	A	692	ASN
1	A	695	ASN
1	A	706	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](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 21 ligands modelled in this entry, 18 are monoatomic - leaving 3 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	$\# Z > 2$
3	SO4	A	1100	-	4,4,4	0.71	0	6,6,6	0.41	0
2	ZA5	A	1000	5,1	15,15,16	1.98	2 (13%)	15,20,23	2.07	6 (40%)
6	EDO	A	1400	-	3,3,3	0.59	0	2,2,2	0.34	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	ZA5	A	1000	5,1	-	0/6/9/10	0/1/1/1
6	EDO	A	1400	-	-	0/1/1/1	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1000	ZA5	C3-N4	-5.90	1.38	1.45
2	A	1000	ZA5	C5-N4	2.52	1.39	1.33

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1000	ZA5	C14-C7-C5	-3.80	116.45	122.21
2	A	1000	ZA5	O6-C5-C7	-3.73	115.58	121.06
2	A	1000	ZA5	C8-C7-C14	3.00	120.10	114.93
2	A	1000	ZA5	C13-C14-C7	-2.75	118.44	123.48
2	A	1000	ZA5	C12-C13-C14	2.20	121.90	118.49
2	A	1000	ZA5	F15-C14-C13	2.14	123.63	118.65

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	789:SER	C	790:LEU	N	1.08

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, 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	469/494 (94%)	-0.05	17 (3%) 46 48	20, 41, 91, 167	3 (0%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	744	LYS	4.0
1	A	790	LEU	3.9
1	A	783	TRP	3.3
1	A	387	GLY	3.3
1	A	741	VAL	3.2
1	A	748	VAL	3.1
1	A	119	ILE	3.1
1	A	768	TYR	3.1
1	A	739	VAL	3.0
1	A	787	VAL	2.9
1	A	736	PRO	2.8
1	A	743	GLY	2.7
1	A	786	ILE	2.7
1	A	749	THR	2.6
1	A	113	GLY	2.2
1	A	444	GLN	2.1
1	A	106	SER	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 oligosaccharides in this entry.

6.4 Ligands

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($\text{\AA}^2$)	Q<0.9
4	CL	A	1237	1/1	0.87	0.14	74,74,74,74	0
4	CL	A	1217	1/1	0.89	0.13	83,83,83,83	0
4	CL	A	1208	1/1	0.90	0.15	69,69,69,69	0
4	CL	A	1203	1/1	0.92	0.19	66,66,66,66	0
2	ZA5	A	1000	15/16	0.92	0.10	33,49,61,61	0
6	EDO	A	1400	4/4	0.92	0.14	47,51,52,54	0
4	CL	A	1792	1/1	0.95	0.07	59,59,59,59	1
4	CL	A	1214	1/1	0.95	0.14	56,56,56,56	0
4	CL	A	1216	1/1	0.96	0.12	76,76,76,76	0
4	CL	A	1202	1/1	0.97	0.06	52,52,52,52	0
3	SO4	A	1100	5/5	0.97	0.12	42,43,47,49	0
4	CL	A	1229	1/1	0.97	0.11	49,49,49,49	0
4	CL	A	1200	1/1	0.97	0.08	41,41,41,41	0
4	CL	A	1211	1/1	0.97	0.09	43,43,43,43	0
4	CL	A	1201	1/1	0.97	0.07	46,46,46,46	0
4	CL	A	1212	1/1	0.98	0.13	42,42,42,42	0
4	CL	A	1213	1/1	0.98	0.15	51,51,51,51	0
5	NA	A	1300	1/1	0.98	0.05	27,27,27,27	0
4	CL	A	1206	1/1	0.98	0.23	50,50,50,50	0
4	CL	A	1791	1/1	0.99	0.03	31,31,31,31	1
4	CL	A	1224	1/1	0.99	0.04	51,51,51,51	0

6.5 Other polymers

There are no such residues in this entry.