



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 7, 2020 – 12:54 AM BST

PDB ID : 5DKV
Title : Crystal Structure of an ABC transporter Solute Binding Protein from *Agrobacterium vitis* (Avis_5339, TARGET EFI-511225) bound with alpha-D-Tagatopyranose
Authors : Yadava, U.; Al Obaidi, N.F.; Morisco, L.L.; Benach, J.; Koss, J.; Wasserman, S.R.; Attonito, J.D.; Scott Glenn, A.; Chamala, S.; Chowdhury, S.; Lafleur, J.; Love, J.; Seidel, R.D.; Whalen, K.L.; Gerlt, J.A.; Almo, S.C.; Enzyme Function Initiative (EFI)
Deposited on : 2015-09-04
Resolution : 1.68 Å (reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 2.13.1
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) : 2.13.1

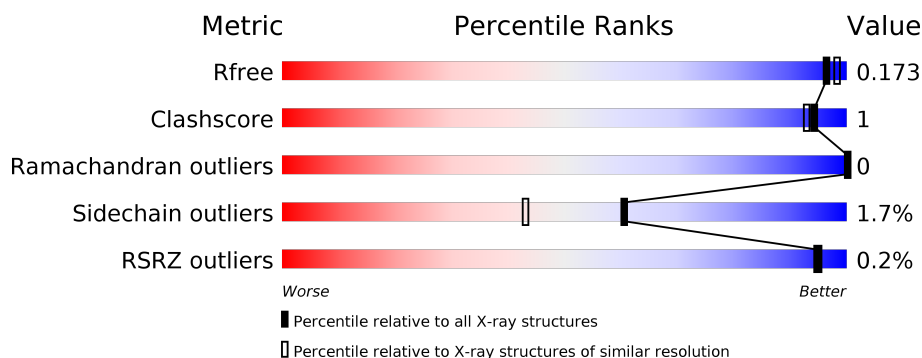
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.68 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	6780 (1.70-1.66)
Clashscore	141614	7310 (1.70-1.66)
Ramachandran outliers	138981	7173 (1.70-1.66)
Sidechain outliers	138945	7172 (1.70-1.66)
RSRZ outliers	127900	6661 (1.70-1.66)

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	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 1%, green 89%, grey 9%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> % 89% 5% 6% </div> </div>
1	B	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, green 90%, yellow 1%, grey 9%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> 90% • 7% </div> </div>
1	C	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, green 87%, yellow 1%, grey 12%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> 87% • 8% </div> </div>
1	D	324	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, green 89%, yellow 1%, grey 10%);"></div> <div style="display: flex; justify-content: space-between; width: 100%;"> 89% • 8% </div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 19427 atoms, of which 8762 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 ABC transporter substrate binding protein (Ribose).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	303	Total	C	H	N	O	S	0	1	0
			4417	1417	2186	374	436	4			
1	B	300	Total	C	H	N	O	S	0	1	0
			4389	1403	2181	371	431	3			
1	C	298	Total	C	H	N	O	S	0	1	0
			4338	1393	2147	367	428	3			
1	D	298	Total	C	H	N	O	S	0	3	0
			4411	1406	2200	373	429	3			

There are 92 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	6	MET	-	initiating methionine	UNP B9K0T2
A	7	HIS	-	expression tag	UNP B9K0T2
A	8	HIS	-	expression tag	UNP B9K0T2
A	9	HIS	-	expression tag	UNP B9K0T2
A	10	HIS	-	expression tag	UNP B9K0T2
A	11	HIS	-	expression tag	UNP B9K0T2
A	12	HIS	-	expression tag	UNP B9K0T2
A	13	SER	-	expression tag	UNP B9K0T2
A	14	SER	-	expression tag	UNP B9K0T2
A	15	GLY	-	expression tag	UNP B9K0T2
A	16	VAL	-	expression tag	UNP B9K0T2
A	17	ASP	-	expression tag	UNP B9K0T2
A	18	LEU	-	expression tag	UNP B9K0T2
A	19	GLY	-	expression tag	UNP B9K0T2
A	20	THR	-	expression tag	UNP B9K0T2
A	21	GLU	-	expression tag	UNP B9K0T2
A	22	ASN	-	expression tag	UNP B9K0T2
A	23	LEU	-	expression tag	UNP B9K0T2
A	24	TYR	-	expression tag	UNP B9K0T2
A	25	PHE	-	expression tag	UNP B9K0T2
A	26	GLN	-	expression tag	UNP B9K0T2

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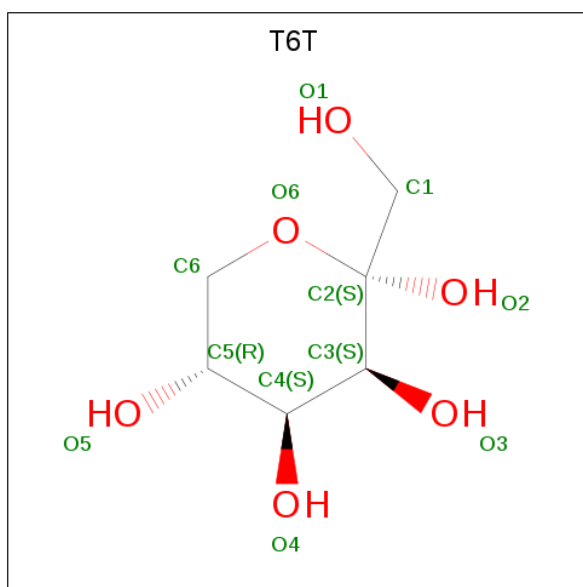
Chain	Residue	Modelled	Actual	Comment	Reference
A	27	SER	-	expression tag	UNP B9K0T2
A	28	MET	-	expression tag	UNP B9K0T2
B	6	MET	-	initiating methionine	UNP B9K0T2
B	7	HIS	-	expression tag	UNP B9K0T2
B	8	HIS	-	expression tag	UNP B9K0T2
B	9	HIS	-	expression tag	UNP B9K0T2
B	10	HIS	-	expression tag	UNP B9K0T2
B	11	HIS	-	expression tag	UNP B9K0T2
B	12	HIS	-	expression tag	UNP B9K0T2
B	13	SER	-	expression tag	UNP B9K0T2
B	14	SER	-	expression tag	UNP B9K0T2
B	15	GLY	-	expression tag	UNP B9K0T2
B	16	VAL	-	expression tag	UNP B9K0T2
B	17	ASP	-	expression tag	UNP B9K0T2
B	18	LEU	-	expression tag	UNP B9K0T2
B	19	GLY	-	expression tag	UNP B9K0T2
B	20	THR	-	expression tag	UNP B9K0T2
B	21	GLU	-	expression tag	UNP B9K0T2
B	22	ASN	-	expression tag	UNP B9K0T2
B	23	LEU	-	expression tag	UNP B9K0T2
B	24	TYR	-	expression tag	UNP B9K0T2
B	25	PHE	-	expression tag	UNP B9K0T2
B	26	GLN	-	expression tag	UNP B9K0T2
B	27	SER	-	expression tag	UNP B9K0T2
B	28	MET	-	expression tag	UNP B9K0T2
C	6	MET	-	initiating methionine	UNP B9K0T2
C	7	HIS	-	expression tag	UNP B9K0T2
C	8	HIS	-	expression tag	UNP B9K0T2
C	9	HIS	-	expression tag	UNP B9K0T2
C	10	HIS	-	expression tag	UNP B9K0T2
C	11	HIS	-	expression tag	UNP B9K0T2
C	12	HIS	-	expression tag	UNP B9K0T2
C	13	SER	-	expression tag	UNP B9K0T2
C	14	SER	-	expression tag	UNP B9K0T2
C	15	GLY	-	expression tag	UNP B9K0T2
C	16	VAL	-	expression tag	UNP B9K0T2
C	17	ASP	-	expression tag	UNP B9K0T2
C	18	LEU	-	expression tag	UNP B9K0T2
C	19	GLY	-	expression tag	UNP B9K0T2
C	20	THR	-	expression tag	UNP B9K0T2
C	21	GLU	-	expression tag	UNP B9K0T2
C	22	ASN	-	expression tag	UNP B9K0T2

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Chain	Residue	Modelled	Actual	Comment	Reference
C	23	LEU	-	expression tag	UNP B9K0T2
C	24	TYR	-	expression tag	UNP B9K0T2
C	25	PHE	-	expression tag	UNP B9K0T2
C	26	GLN	-	expression tag	UNP B9K0T2
C	27	SER	-	expression tag	UNP B9K0T2
C	28	MET	-	expression tag	UNP B9K0T2
D	6	MET	-	initiating methionine	UNP B9K0T2
D	7	HIS	-	expression tag	UNP B9K0T2
D	8	HIS	-	expression tag	UNP B9K0T2
D	9	HIS	-	expression tag	UNP B9K0T2
D	10	HIS	-	expression tag	UNP B9K0T2
D	11	HIS	-	expression tag	UNP B9K0T2
D	12	HIS	-	expression tag	UNP B9K0T2
D	13	SER	-	expression tag	UNP B9K0T2
D	14	SER	-	expression tag	UNP B9K0T2
D	15	GLY	-	expression tag	UNP B9K0T2
D	16	VAL	-	expression tag	UNP B9K0T2
D	17	ASP	-	expression tag	UNP B9K0T2
D	18	LEU	-	expression tag	UNP B9K0T2
D	19	GLY	-	expression tag	UNP B9K0T2
D	20	THR	-	expression tag	UNP B9K0T2
D	21	GLU	-	expression tag	UNP B9K0T2
D	22	ASN	-	expression tag	UNP B9K0T2
D	23	LEU	-	expression tag	UNP B9K0T2
D	24	TYR	-	expression tag	UNP B9K0T2
D	25	PHE	-	expression tag	UNP B9K0T2
D	26	GLN	-	expression tag	UNP B9K0T2
D	27	SER	-	expression tag	UNP B9K0T2
D	28	MET	-	expression tag	UNP B9K0T2

- Molecule 2 is alpha-D-tagatopyranose (three-letter code: T6T) (formula: C₆H₁₂O₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	O	0	0
			24	6	12	6		
2	B	1	Total	C	H	O	0	0
			24	6	12	6		
2	C	1	Total	C	H	O	0	0
			24	6	12	6		
2	D	1	Total	C	H	O	0	0
			24	6	12	6		

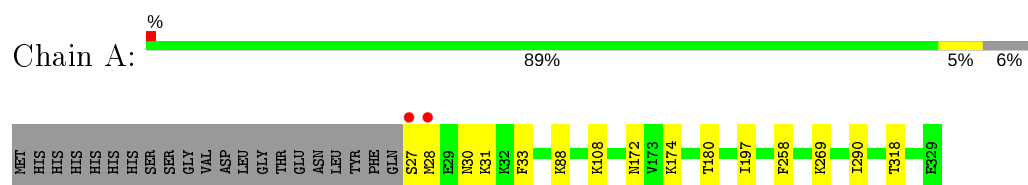
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	444	Total	O	0	0
			444	444		
3	B	428	Total	O	0	3
			431	431		
3	C	461	Total	O	0	3
			464	464		
3	D	437	Total	O	0	0
			437	437		

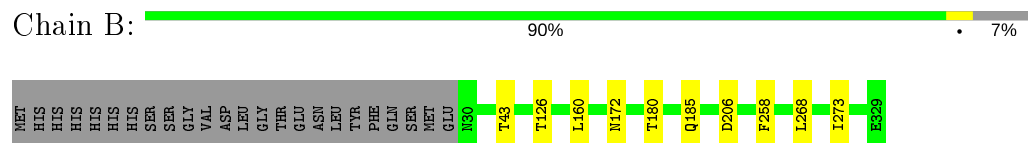
3 Residue-property plots [i](#)

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.

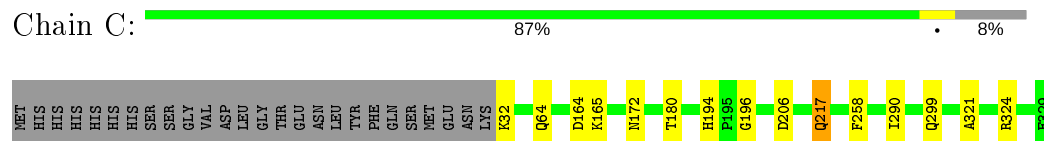
- Molecule 1: ABC transporter substrate binding protein (Ribose)



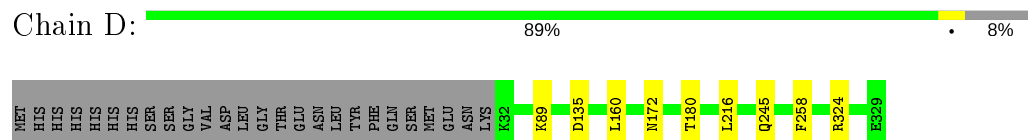
- Molecule 1: ABC transporter substrate binding protein (Ribose)



- Molecule 1: ABC transporter substrate binding protein (Ribose)



- Molecule 1: ABC transporter substrate binding protein (Ribose)



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	56.18Å 65.89Å 79.66Å 87.41° 90.26° 82.23°	Depositor
Resolution (Å)	29.96 – 1.68 49.33 – 1.68	Depositor EDS
% Data completeness (in resolution range)	97.0 (29.96-1.68) 97.0 (49.33-1.68)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.41 (at 1.68Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.133 , 0.171 0.135 , 0.173	Depositor DCC
R_{free} test set	6243 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	13.1	Xtriage
Anisotropy	0.060	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 53.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.056 for -h,-k,l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	19427	wwPDB-VP
Average B, all atoms (Å ²)	18.0	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 21.35 % 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 7.1455e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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](#)

Bond lengths and bond angles in the following residue types are not validated in this section: T6T

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	0.49	0/2273	0.60	0/3091
1	B	0.47	0/2250	0.60	0/3062
1	C	0.49	0/2233	0.61	0/3040
1	D	0.46	0/2253	0.63	0/3064
All	All	0.48	0/9009	0.61	0/12257

There are no bond length outliers.

There are no bond angle outliers.

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	2231	2186	2229	8	0
1	B	2208	2181	2204	5	0
1	C	2191	2147	2185	11	0
1	D	2211	2200	2214	2	0
2	A	12	12	0	0	0
2	B	12	12	0	0	0
2	C	12	12	0	0	0
2	D	12	12	0	0	0
3	A	444	0	0	2	2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	431	0	0	2	1
3	C	464	0	0	4	1
3	D	437	0	0	0	0
All	All	10665	8762	8832	23	2

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 1.

The worst 5 of 23 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:27:SER:N	1:A:30:ASN:HB2	2.09	0.68
1:B:43:THR:O	3:B:501:HOH:O	2.11	0.68
1:B:185:GLN:NE2	3:B:502:HOH:O	2.27	0.66
1:C:206:ASP:OD2	3:C:1401:HOH:O	2.12	0.66
1:A:318:THR:O	3:A:501:HOH:O	2.17	0.58

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:542:HOH:O	3:C:1681:HOH:O[1_645]	2.07	0.13
3:A:516:HOH:O	3:B:693:HOH:O[1_655]	2.16	0.04

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	302/324 (93%)	295 (98%)	7 (2%)	0	100	100
1	B	299/324 (92%)	292 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	297/324 (92%)	290 (98%)	7 (2%)	0	100	100
1	D	299/324 (92%)	292 (98%)	7 (2%)	0	100	100
All	All	1197/1296 (92%)	1169 (98%)	28 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	230/248 (93%)	225 (98%)	5 (2%)	52	32
1	B	227/248 (92%)	224 (99%)	3 (1%)	69	54
1	C	225/248 (91%)	223 (99%)	2 (1%)	78	69
1	D	227/248 (92%)	221 (97%)	6 (3%)	46	25
All	All	909/992 (92%)	893 (98%)	16 (2%)	60	40

5 of 16 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	258	PHE
1	C	217	GLN
1	D	160	LEU
1	B	206	ASP
1	D	216	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	194	HIS
1	D	299	GLN

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 ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

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$
2	T6T	C	401	-	12,12,12	1.85	3 (25%)	18,18,18	1.32	1 (5%)
2	T6T	A	401	-	12,12,12	2.10	5 (41%)	18,18,18	1.26	2 (11%)
2	T6T	D	401	-	12,12,12	1.98	4 (33%)	18,18,18	0.72	0
2	T6T	B	401	-	12,12,12	2.04	5 (41%)	18,18,18	0.99	1 (5%)

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	T6T	C	401	-	-	0/3/23/23	0/1/1/1
2	T6T	A	401	-	-	0/3/23/23	0/1/1/1
2	T6T	D	401	-	-	0/3/23/23	0/1/1/1
2	T6T	B	401	-	-	0/3/23/23	0/1/1/1

The worst 5 of 17 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	401	T6T	O6-C2	4.13	1.46	1.42
2	B	401	T6T	O6-C2	4.11	1.46	1.42
2	A	401	T6T	C5-C4	-3.74	1.47	1.52
2	B	401	T6T	C5-C4	-3.60	1.47	1.52
2	D	401	T6T	O6-C2	3.52	1.45	1.42

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	T6T	O6-C2-C1	-2.74	102.19	105.58
2	A	401	T6T	O5-C5-C6	-2.25	104.54	109.15
2	B	401	T6T	O5-C5-C4	2.17	114.49	110.14
2	C	401	T6T	C6-O6-C2	-2.00	111.82	114.09

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 [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	303/324 (93%)	-0.66	2 (0%) 87 89	7, 13, 29, 62	0
1	B	300/324 (92%)	-0.68	0 100 100	8, 14, 28, 52	0
1	C	298/324 (91%)	-0.73	0 100 100	7, 12, 23, 53	0
1	D	298/324 (91%)	-0.62	0 100 100	8, 14, 26, 53	0
All	All	1199/1296 (92%)	-0.67	2 (0%) 95 95	7, 13, 27, 62	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	27	SER	3.0
1	A	28	MET	2.9

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](#)

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(\AA^2)	Q<0.9
2	T6T	D	401	12/12	0.98	0.05	7,10,12,13	0
2	T6T	B	401	12/12	0.98	0.06	7,10,12,13	0
2	T6T	C	401	12/12	0.99	0.05	6,9,11,12	0
2	T6T	A	401	12/12	0.99	0.05	5,8,10,11	0

6.5 Other polymers [i](#)

There are no such residues in this entry.