WORLDWIDE wwPDB PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 18, 2023 – 07:59 PM EDT

PDB ID	:	5DTE
Title	:	Crystal Structure of an ABC transporter periplasmic solute binding protein (IPR025997) from Actinobacillus succinogenes 130z(Asuc_0081, TARGET EFI-511065) with bound D-allose
Authors	:	Yadava, U.; Vetting, M.W.; Al Obaidi, N.F.; Toro, R.; 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	:	2015-09-18
Resolution	:	2.70 Å(reported)

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

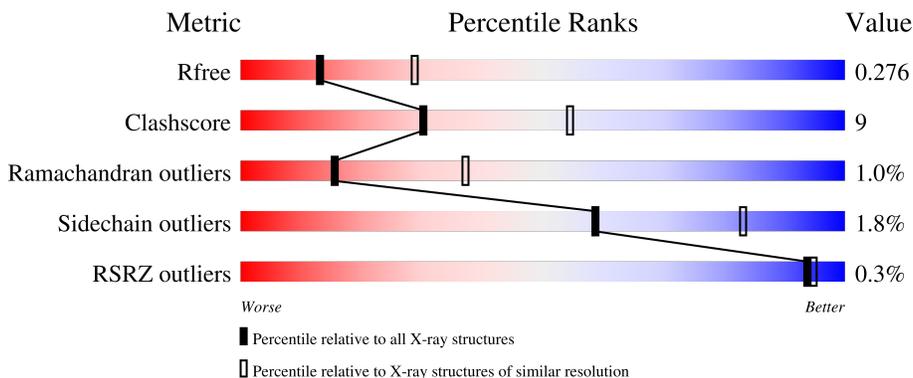|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)

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 2.70 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	Percentile Ranks	Value
Rfree		0.276
Clashscore		9
Ramachandran outliers		1.0%
Sidechain outliers		1.8%
RSRZ outliers		0.3%

Worse ... *Better*

▌ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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	311	72% — 20% • 8%
1	B	311	73% — 18% • 8%
1	C	311	% — 70% — 20% • 8%

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Mol	Chain	Length	Quality of chain
1	D	311	69% 21% · 10%

2   Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 8736 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 Monosaccharide-transporting ATPase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	286	Total	C	N	O	S	0	0	0
			2168	1376	361	426	5			
1	B	287	Total	C	N	O	S	0	0	0
			2176	1380	362	429	5			
1	C	286	Total	C	N	O	S	0	0	0
			2164	1373	360	426	5			
1	D	281	Total	C	N	O	S	0	0	0
			2123	1351	355	412	5			

There are 92 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	3	MET	-	initiating methionine	UNP A6VKG5
A	4	HIS	-	expression tag	UNP A6VKG5
A	5	HIS	-	expression tag	UNP A6VKG5
A	6	HIS	-	expression tag	UNP A6VKG5
A	7	HIS	-	expression tag	UNP A6VKG5
A	8	HIS	-	expression tag	UNP A6VKG5
A	9	HIS	-	expression tag	UNP A6VKG5
A	10	SER	-	expression tag	UNP A6VKG5
A	11	SER	-	expression tag	UNP A6VKG5
A	12	GLY	-	expression tag	UNP A6VKG5
A	13	VAL	-	expression tag	UNP A6VKG5
A	14	ASP	-	expression tag	UNP A6VKG5
A	15	LEU	-	expression tag	UNP A6VKG5
A	16	GLY	-	expression tag	UNP A6VKG5
A	17	THR	-	expression tag	UNP A6VKG5
A	18	GLU	-	expression tag	UNP A6VKG5
A	19	ASN	-	expression tag	UNP A6VKG5
A	20	LEU	-	expression tag	UNP A6VKG5
A	21	TYR	-	expression tag	UNP A6VKG5
A	22	PHE	-	expression tag	UNP A6VKG5
A	23	GLN	-	expression tag	UNP A6VKG5

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Chain	Residue	Modelled	Actual	Comment	Reference
A	24	SER	-	expression tag	UNP A6VKG5
A	25	MET	-	expression tag	UNP A6VKG5
B	3	MET	-	initiating methionine	UNP A6VKG5
B	4	HIS	-	expression tag	UNP A6VKG5
B	5	HIS	-	expression tag	UNP A6VKG5
B	6	HIS	-	expression tag	UNP A6VKG5
B	7	HIS	-	expression tag	UNP A6VKG5
B	8	HIS	-	expression tag	UNP A6VKG5
B	9	HIS	-	expression tag	UNP A6VKG5
B	10	SER	-	expression tag	UNP A6VKG5
B	11	SER	-	expression tag	UNP A6VKG5
B	12	GLY	-	expression tag	UNP A6VKG5
B	13	VAL	-	expression tag	UNP A6VKG5
B	14	ASP	-	expression tag	UNP A6VKG5
B	15	LEU	-	expression tag	UNP A6VKG5
B	16	GLY	-	expression tag	UNP A6VKG5
B	17	THR	-	expression tag	UNP A6VKG5
B	18	GLU	-	expression tag	UNP A6VKG5
B	19	ASN	-	expression tag	UNP A6VKG5
B	20	LEU	-	expression tag	UNP A6VKG5
B	21	TYR	-	expression tag	UNP A6VKG5
B	22	PHE	-	expression tag	UNP A6VKG5
B	23	GLN	-	expression tag	UNP A6VKG5
B	24	SER	-	expression tag	UNP A6VKG5
B	25	MET	-	expression tag	UNP A6VKG5
C	3	MET	-	initiating methionine	UNP A6VKG5
C	4	HIS	-	expression tag	UNP A6VKG5
C	5	HIS	-	expression tag	UNP A6VKG5
C	6	HIS	-	expression tag	UNP A6VKG5
C	7	HIS	-	expression tag	UNP A6VKG5
C	8	HIS	-	expression tag	UNP A6VKG5
C	9	HIS	-	expression tag	UNP A6VKG5
C	10	SER	-	expression tag	UNP A6VKG5
C	11	SER	-	expression tag	UNP A6VKG5
C	12	GLY	-	expression tag	UNP A6VKG5
C	13	VAL	-	expression tag	UNP A6VKG5
C	14	ASP	-	expression tag	UNP A6VKG5
C	15	LEU	-	expression tag	UNP A6VKG5
C	16	GLY	-	expression tag	UNP A6VKG5
C	17	THR	-	expression tag	UNP A6VKG5
C	18	GLU	-	expression tag	UNP A6VKG5
C	19	ASN	-	expression tag	UNP A6VKG5

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Chain	Residue	Modelled	Actual	Comment	Reference
C	20	LEU	-	expression tag	UNP A6VKG5
C	21	TYR	-	expression tag	UNP A6VKG5
C	22	PHE	-	expression tag	UNP A6VKG5
C	23	GLN	-	expression tag	UNP A6VKG5
C	24	SER	-	expression tag	UNP A6VKG5
C	25	MET	-	expression tag	UNP A6VKG5
D	3	MET	-	initiating methionine	UNP A6VKG5
D	4	HIS	-	expression tag	UNP A6VKG5
D	5	HIS	-	expression tag	UNP A6VKG5
D	6	HIS	-	expression tag	UNP A6VKG5
D	7	HIS	-	expression tag	UNP A6VKG5
D	8	HIS	-	expression tag	UNP A6VKG5
D	9	HIS	-	expression tag	UNP A6VKG5
D	10	SER	-	expression tag	UNP A6VKG5
D	11	SER	-	expression tag	UNP A6VKG5
D	12	GLY	-	expression tag	UNP A6VKG5
D	13	VAL	-	expression tag	UNP A6VKG5
D	14	ASP	-	expression tag	UNP A6VKG5
D	15	LEU	-	expression tag	UNP A6VKG5
D	16	GLY	-	expression tag	UNP A6VKG5
D	17	THR	-	expression tag	UNP A6VKG5
D	18	GLU	-	expression tag	UNP A6VKG5
D	19	ASN	-	expression tag	UNP A6VKG5
D	20	LEU	-	expression tag	UNP A6VKG5
D	21	TYR	-	expression tag	UNP A6VKG5
D	22	PHE	-	expression tag	UNP A6VKG5
D	23	GLN	-	expression tag	UNP A6VKG5
D	24	SER	-	expression tag	UNP A6VKG5
D	25	MET	-	expression tag	UNP A6VKG5

- Molecule 2 is beta-D-allopyranose (three-letter code: ALL) (formula: $C_6H_{12}O_6$).
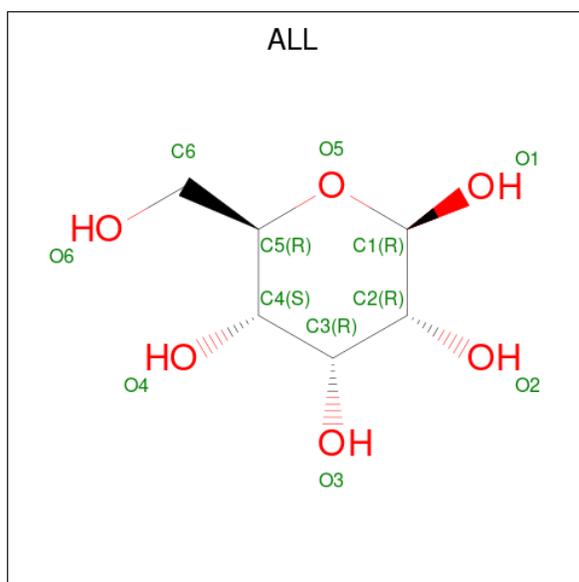
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total 12	C 6	O 6	0	0
2	B	1	Total 12	C 6	O 6	0	0
2	C	1	Total 12	C 6	O 6	0	0
2	D	1	Total 12	C 6	O 6	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	13	Total 13	O 13	0	0
3	B	16	Total 16	O 16	0	0
3	C	11	Total 11	O 11	0	0
3	D	17	Total 17	O 17	0	1

3   Residue-property plots ⓘ

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.
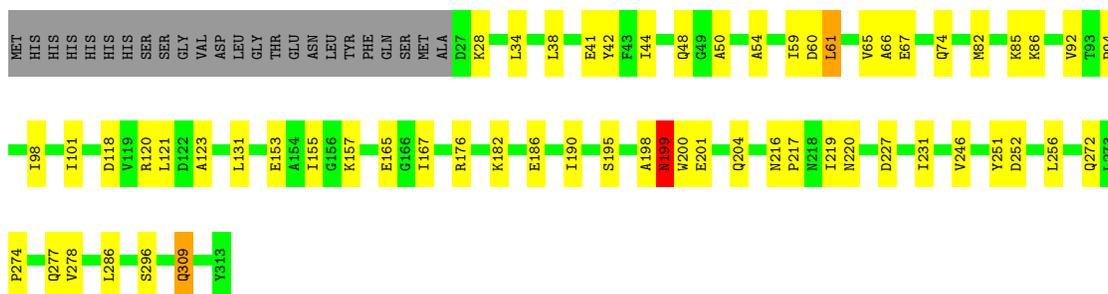
• Molecule 1: Monosaccharide-transporting ATPase
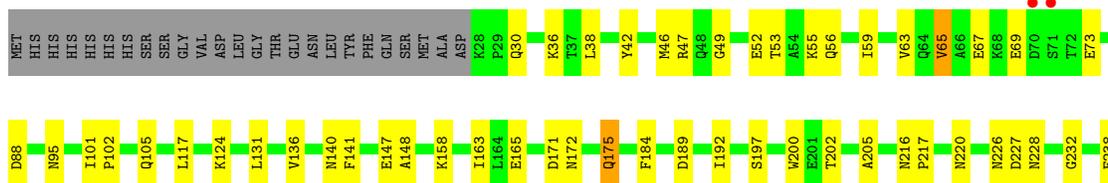
Chain A:
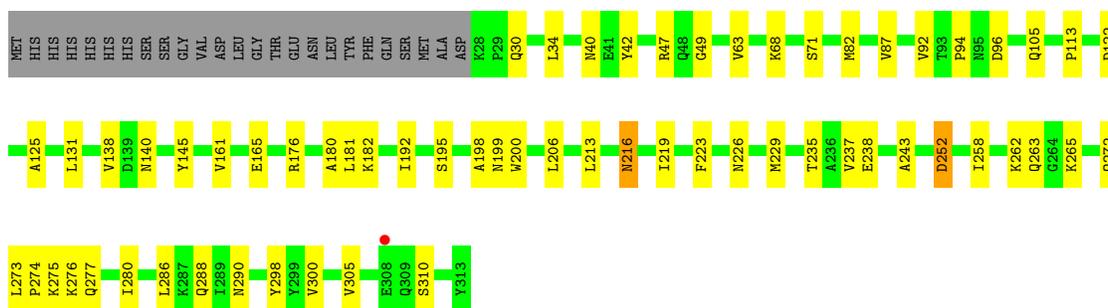
• Molecule 1: Monosaccharide-transporting ATPase

Chain B:

• Molecule 1: Monosaccharide-transporting ATPase

Chain C:

A243 V246 Y251 D252 A257 Y260 V261 M266 I270 D271 Q272 L273 P274 K275 K276 H284 A285 L286 I294 P295 D306 Y313
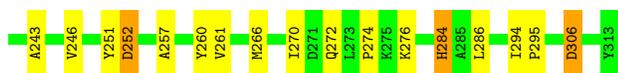
• Molecule 1: Monosaccharide-transporting ATPase

Chain D:

69% 21% • 10%

MET HIS HIS HIS HIS HIS SER SER GLY VAL ASP LEU GLY THR GLU ASN LEU TYR PHE GLN SER MET ALA ASP K28 I31 T37 L38 Y42 K55 Q56 K57 D58 I59 V65 A66 GLU LYS GLU ASP SER T72 L75 V79 V87 I90 I101 P102

K106 I114 R120 K124 L131 Y135 F141 Y145 L146 N150 E153 G159 P168 A180 L181 K182 Y187 A198 L206 N211 M216 I219 N220 F223 D227 N228 M229 A230 I231 G232 A233 A236 V237 L247 Y251 D252

A257 I258 V261 K262 M266 Q267 N268 P274 K275 K276 I280 A281 A285 L286 K287 I294 P295 S296 V297 Y298 Q309 S310 K311 N312 Y313

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	62.19Å 63.22Å 71.20Å 101.13° 103.29° 91.35°	Depositor
Resolution (Å)	33.15 – 2.70 33.15 – 2.30	Depositor EDS
% Data completeness (in resolution range)	87.3 (33.15-2.70) 60.5 (33.15-2.30)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.30 (at 2.29Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.164 , 0.275 0.168 , 0.276	Depositor DCC
R_{free} test set	1354 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å^2)	31.5	Xtriage
Anisotropy	0.063	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 34.9	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.010 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	8736	wwPDB-VP
Average B, all atoms (Å^2)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.91% of the height of the origin peak. No significant pseudotranslation is detected.*

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[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: ALL

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	0.46	0/2197	0.59	0/2974
1	B	0.45	0/2205	0.61	0/2985
1	C	0.45	0/2193	0.59	0/2970
1	D	0.45	0/2151	0.59	0/2912
All	All	0.45	0/8746	0.59	0/11841

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 ⓘ

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	2168	0	2210	37	0
1	B	2176	0	2214	43	0
1	C	2164	0	2199	45	0
1	D	2123	0	2171	38	0
2	A	12	0	0	2	0
2	B	12	0	0	1	0
2	C	12	0	0	2	0
2	D	12	0	0	1	0
3	A	13	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	16	0	0	0	0
3	C	11	0	0	0	0
3	D	17	0	0	0	0
All	All	8736	0	8794	162	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.

The worst 5 of 162 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:D:38:LEU:HB2	1:D:65:VAL:HG11	1.70	0.74
1:B:120:ARG:HH22	1:B:123:ALA:HB2	1.54	0.73
1:B:50:ALA:HB2	1:B:278:VAL:HG21	1.70	0.72
1:C:165:GLU:HB2	1:C:197:SER:HA	1.74	0.69
1:C:284:HIS:CD2	1:C:294:ILE:HB	2.30	0.67

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	284/311 (91%)	273 (96%)	9 (3%)	2 (1%)	22	46
1	B	285/311 (92%)	273 (96%)	9 (3%)	3 (1%)	14	34
1	C	284/311 (91%)	267 (94%)	14 (5%)	3 (1%)	14	34
1	D	277/311 (89%)	263 (95%)	11 (4%)	3 (1%)	14	34
All	All	1130/1244 (91%)	1076 (95%)	43 (4%)	11 (1%)	15	37

5 of 11 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	199	ASN
1	B	252	ASP
1	A	252	ASP
1	C	67	GLU
1	C	252	ASP

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	228/250 (91%)	227 (100%)	1 (0%)	91	97
1	B	229/250 (92%)	224 (98%)	5 (2%)	52	79
1	C	227/250 (91%)	220 (97%)	7 (3%)	40	69
1	D	222/250 (89%)	219 (99%)	3 (1%)	67	86
All	All	906/1000 (91%)	890 (98%)	16 (2%)	59	83

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

Mol	Chain	Res	Type
1	D	276	LYS
1	D	216	ASN
1	C	136	VAL
1	C	306	ASP
1	C	65	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	277	GLN
1	A	309	GLN
1	B	204	GLN
1	B	309	GLN
1	C	175	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	ALL	C	401	-	12,12,12	1.12	1 (8%)	17,17,17	1.24	1 (5%)
2	ALL	B	401	-	12,12,12	1.24	1 (8%)	17,17,17	1.22	2 (11%)
2	ALL	D	401	-	12,12,12	1.28	1 (8%)	17,17,17	1.20	1 (5%)
2	ALL	A	401	-	12,12,12	1.11	1 (8%)	17,17,17	1.14	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	ALL	C	401	-	-	2/2/22/22	0/1/1/1
2	ALL	B	401	-	-	0/2/22/22	0/1/1/1
2	ALL	D	401	-	-	0/2/22/22	0/1/1/1
2	ALL	A	401	-	-	0/2/22/22	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	401	ALL	O5-C1	3.27	1.51	1.42
2	D	401	ALL	O5-C1	3.19	1.50	1.42
2	A	401	ALL	O5-C1	2.74	1.49	1.42
2	C	401	ALL	O5-C1	2.41	1.48	1.42

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	401	ALL	C1-O5-C5	-3.29	107.45	113.66
2	A	401	ALL	C1-O5-C5	-2.91	108.17	113.66
2	C	401	ALL	C1-O5-C5	-2.61	108.75	113.66
2	D	401	ALL	O5-C1-C2	2.54	114.82	110.28
2	B	401	ALL	O5-C1-C2	2.06	113.96	110.28

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	401	ALL	O5-C5-C6-O6
2	C	401	ALL	C4-C5-C6-O6

There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	401	ALL	2	0
2	B	401	ALL	1	0
2	D	401	ALL	1	0
2	A	401	ALL	2	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	286/311 (91%)	-0.65	1 (0%)	94	95	12, 25, 44, 65	0
1	B	287/311 (92%)	-0.62	0	100	100	12, 28, 48, 63	0
1	C	286/311 (91%)	-0.66	2 (0%)	87	89	11, 26, 46, 83	0
1	D	281/311 (90%)	-0.65	0	100	100	12, 27, 45, 65	0
All	All	1140/1244 (91%)	-0.64	3 (0%)	94	95	11, 27, 46, 83	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	308	GLU	2.3
1	C	70	ASP	2.1
1	C	71	SER	2.1

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

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

6.3 Carbohydrates ⓘ

There are no monosaccharides 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($Å^2$)	Q<0.9
2	ALL	A	401	12/12	0.93	0.16	6,25,29,45	0
2	ALL	C	401	12/12	0.93	0.16	23,38,44,49	0
2	ALL	B	401	12/12	0.94	0.14	11,25,35,36	0
2	ALL	D	401	12/12	0.94	0.14	12,23,28,40	0

6.5 Other polymers ⓘ

There are no such residues in this entry.