



Full wwPDB X-ray Structure Validation Report i

Mar 1, 2014 – 12:58 AM GMT

PDB ID : 1D0K
Title : THE ESCHERICHIA COLI LYTIC TRANSGLYCOSYLASE SLT35 IN
COMPLEX WITH TWO MURODIPEPTIDES (GLCNAC-MURNAC-L-
ALA-D-GLU)
Authors : van Asselt, E.J.; Kalk, K.H.; Dijkstra, B.W.
Deposited on : 1999-09-12
Resolution : 2.02 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

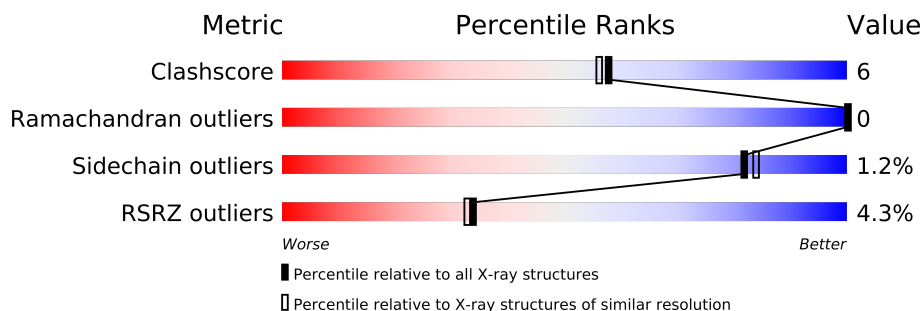
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.15 2013
Xtriage (Phenix)	:	dev-1323
EDS	:	stable22639
Percentile statistics	:	21963
Refmac	:	5.8.0049
CCP4	:	6.3.0 (Settle)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.02 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))
Clashscore	79885	7467 (2.04-2.00)
Ramachandran outliers	78287	7370 (2.04-2.00)
Sidechain outliers	78261	7368 (2.04-2.00)
RSRZ outliers	66119	6006 (2.04-2.00)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	322	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
3	CA	A	400	-	X
4	ALA	A	407	-	X
5	DGL	A	408	-	X
6	GOL	A	3007[B]	-	X

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 3010 atoms, of which 0 are hydrogen and 0 are deuterium.

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 35KD SOLUBLE LYTIC TRANSGLYCOSYLASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	314	Total	C	N	O	S	0	12	0
			2545	1629	445	461	10			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	40	MET	LEU	ENGINEERED	UNP P41052
A	41	VAL	LEU	ENGINEERED	UNP P41052

- Molecule 2 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	2	Total	C	N	O	0	1
			33	19	2	12		
2	A	2	Total	C	N	O	0	0
			33	19	2	12		

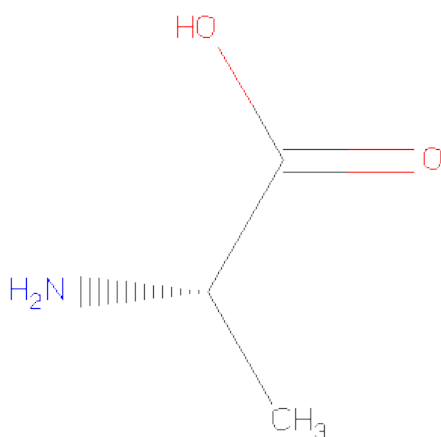
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	40	MET	LEU	ENGINEERED	UNP P41052
A	41	VAL	LEU	ENGINEERED	UNP P41052
A	40	MET	LEU	ENGINEERED	UNP P41052
A	41	VAL	LEU	ENGINEERED	UNP P41052

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

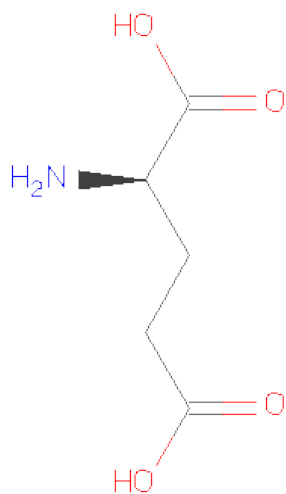
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Ca	0	0
			1	1		

- Molecule 4 is ALANINE (three-letter code: ALA) (formula: C₃H₇NO₂).



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

- Molecule 5 is D-GLUTAMIC ACID (three-letter code: DGL) (formula: $C_5H_9NO_4$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			10	5	1	4		
5	A	1	Total	C	N	O	0	0
			10	5	1	4		

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 7 is water.

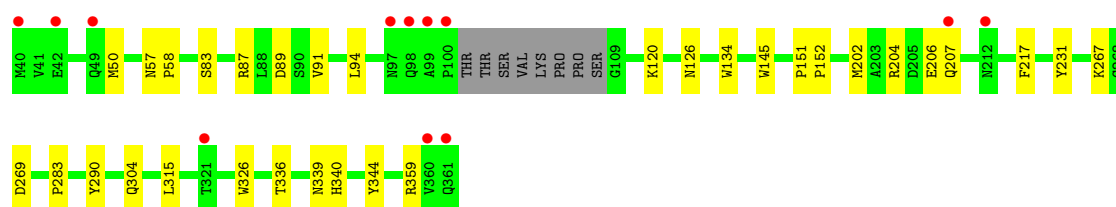
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	362	Total	O	0	0
			362	362		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: 35KD SOLUBLE LYTIC TRANSGLYCOSYLASE

Chain A: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	58.38Å 67.83Å 98.94Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.02 23.24 – 2.02	Depositor EDS
% Data completeness (in resolution range)	97.8 (20.00-2.02) 98.0 (23.24-2.02)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.39 (at 2.03Å)	Xtriage
Refinement program	X-PLOR 3.843	Depositor
R, R_{free}	0.165 , 0.202 0.168 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	14.6	Xtriage
Anisotropy	0.132	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 46.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 25900 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3010	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.11% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, CA, AMU, NAG, DGL

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	0.34	0/2663	0.55	0/3613

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
2	A	1	0

There are no bond length outliers.

There are no bond angle outliers.

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	406	AMU	C1

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2545	0	2446	20	0
2	A	66	0	60	13	0
3	A	1	0	0	0	0
4	A	10	0	8	2	0
5	A	20	0	10	0	0
6	A	6	0	8	10	0
7	A	362	0	0	6	0
All	All	3010	0	2532	33	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 6.

All (33) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A:402:AMU:O4	6:A:3007[B]:GOL:C1	1.75	1.24
1:A:94[B]:LEU:HD23	7:A:2001:HOH:O	1.41	1.16
1:A:94[B]:LEU:CD2	7:A:2001:HOH:O	1.97	1.05
2:A:402:AMU:O4	6:A:3007[B]:GOL:H12	1.38	1.05
2:A:402:AMU:H61	6:A:3007[B]:GOL:H12	1.40	1.00
2:A:402:AMU:C4	6:A:3007[B]:GOL:H12	2.05	0.86
2:A:402:AMU:C6	6:A:3007[B]:GOL:H12	2.10	0.82
1:A:204[A]:ARG:HB3	1:A:204[A]:ARG:HH11	1.46	0.81
2:A:402:AMU:H61	6:A:3007[B]:GOL:C1	2.14	0.78
2:A:402:AMU:O5	7:A:3003:HOH:O	2.05	0.73
1:A:120:LYS:HD2	4:A:407:ALA:HB2	1.73	0.70
1:A:206:GLU:O	1:A:207:GLN:HG2	2.02	0.60
1:A:50:MET:HB2	1:A:83[B]:SER:OG	2.02	0.58
1:A:120:LYS:CD	4:A:407:ALA:HB2	2.33	0.57
2:A:402:AMU:H1	7:A:503:HOH:O	2.03	0.57
2:A:402:AMU:C5	6:A:3007[B]:GOL:H12	2.37	0.54
1:A:91:VAL:HG22	1:A:217[A]:PHE:HD2	1.72	0.53
2:A:402:AMU:C4	6:A:3007[B]:GOL:C1	2.74	0.53
1:A:134:TRP:CD2	1:A:359:ARG:HD2	2.43	0.53
2:A:402:AMU:H61	6:A:3007[B]:GOL:C2	2.39	0.52
2:A:402:AMU:O4	6:A:3007[B]:GOL:H11	1.71	0.51
1:A:339:ASN:HB3	1:A:344:TYR:CD1	2.47	0.49
2:A:402:AMU:H111	7:A:3006:HOH:O	2.15	0.45
1:A:283:PRO:HD2	1:A:290:TYR:OH	2.18	0.44
1:A:202:MET:HG3	1:A:231:TYR:CZ	2.52	0.44
1:A:87:ARG:NH1	1:A:89:ASP:OD1	2.51	0.43
1:A:315:LEU:HB2	1:A:326:TRP:HB2	2.01	0.43
1:A:336:THR:O	1:A:340:HIS:HD2	2.02	0.43
1:A:145[A]:TRP:CZ2	1:A:267:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:134:TRP:CZ2	1:A:152:PRO:HB2	2.55	0.42
1:A:94[B]:LEU:HD21	7:A:2001:HOH:O	1.90	0.41
1:A:57:ASN:HA	1:A:58:PRO:HD3	1.89	0.41
1:A:151:PRO:HA	1:A:152:PRO:HD3	1.86	0.40

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	322/322 (100%)	317 (98%)	5 (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	266/263 (101%)	262 (98%)	4 (2%)	76	78

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	126	ASN
1	A	269[A]	ASP
1	A	269[B]	ASP
1	A	304	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	GLN
1	A	97	ASN
1	A	98	GLN
1	A	212	ASN
1	A	304	GLN

5.3.3 RNA ⓘ

There are no RNA chains 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 ⓘ

4 carbohydrates 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	NAG	A	401[A]	2	12,14,15	0.63	0	15,19,21	1.40	2 (13%)
2	AMU	A	402	2	19,19,20	4.08	2 (10%)	24,26,28	2.23	8 (33%)
2	NAG	A	405	2	12,14,15	0.90	0	15,19,21	1.28	3 (20%)
2	AMU	A	406	2	19,19,20	4.63	2 (10%)	24,26,28	2.07	4 (16%)

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	NAG	A	401[A]	2	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	AMU	A	402	2	-	0/10/32/34	0/1/1/1
2	NAG	A	405	2	-	0/6/23/26	0/1/1/1
2	AMU	A	406	2	1/1/7/9	0/10/32/34	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	406	AMU	O10-C10	19.78	1.25	1.11
2	A	402	AMU	O10-C10	17.49	1.23	1.11
2	A	406	AMU	C3-C2	2.75	1.57	1.53
2	A	402	AMU	C4-C5	2.06	1.57	1.53

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	406	AMU	C11-C9-C10	8.21	112.12	108.46
2	A	402	AMU	C11-C9-C10	6.36	111.29	108.46
2	A	402	AMU	C1-C2-C3	4.18	116.73	110.28
2	A	401[A]	NAG	C3-C2-N2	-3.77	106.02	111.76
2	A	402	AMU	C3-C2-N2	-3.71	104.52	110.99
2	A	402	AMU	O3-C3-C2	-2.93	101.31	108.77
2	A	402	AMU	C1-C2-N2	-2.91	107.47	110.85
2	A	406	AMU	C1-C2-N2	2.62	113.89	110.85
2	A	406	AMU	O4-C4-C3	-2.58	103.84	109.85
2	A	405	NAG	C2-N2-C7	2.49	127.27	123.09
2	A	405	NAG	O7-C7-C8	-2.47	117.21	122.04
2	A	405	NAG	O3-C3-C2	2.39	114.11	109.09
2	A	406	AMU	C3-O3-C9	2.39	119.35	115.38
2	A	402	AMU	O3-C3-C4	2.33	113.14	107.16
2	A	401[A]	NAG	C6-C5-C4	-2.24	107.60	113.00
2	A	402	AMU	C1-O5-C5	2.23	117.40	113.40
2	A	402	AMU	O3-C9-C11	2.11	113.41	107.48

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	406	AMU	C1

There are no torsion outliers.

There are no ring outliers.

5.6 Ligand geometry

Of 6 ligands modelled in this entry, 1 is monoatomic - leaving 5 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$
6	GOL	A	3007[B]	-	5,5,5	0.18	0	5,5,5	0.26	0
4	ALA	A	403	-	4,4,5	8.99	2 (50%)	3,4,6	2.75	2 (66%)
5	DGL	A	404	-	9,9,9	0.82	0	11,11,11	0.61	0
4	ALA	A	407	-	4,4,5	8.64	2 (50%)	3,4,6	24.35	1 (33%)
5	DGL	A	408	-	9,9,9	0.84	0	11,11,11	0.87	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
6	GOL	A	3007[B]	-	-	0/4/4/4	0/0/0/0
4	ALA	A	403	-	-	0/0/2/4	0/0/0/0
5	DGL	A	404	-	-	0/9/9/9	0/0/0/0
4	ALA	A	407	-	-	0/0/2/4	0/0/0/0
5	DGL	A	408	-	-	0/9/9/9	0/0/0/0

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	403	ALA	O-C	17.82	1.23	1.11
4	A	407	ALA	O-C	16.92	1.23	1.11
4	A	407	ALA	CA-C	3.49	1.54	1.48
4	A	403	ALA	CA-C	2.35	1.52	1.48

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	407	ALA	C-CA-N	42.16	118.04	113.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	403	ALA	CB-CA-C	3.46	110.00	108.46
4	A	403	ALA	C-CA-N	3.18	113.63	113.27

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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	314/322 (97%)	-0.16	12 (3%) 38 38	4, 12, 34, 67	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	100	PRO	6.6
1	A	99	ALA	3.5
1	A	98	GLN	3.2
1	A	40	MET	2.8
1	A	207	GLN	2.8
1	A	361	GLN	2.6
1	A	49	GLN	2.5
1	A	212	ASN	2.2
1	A	321	THR	2.1
1	A	97	ASN	2.1
1	A	42	GLU	2.0
1	A	360	VAL	2.0

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 ⓘ

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	NAG	A	401[A]	14/15	0.18	3.64	14,20,22,23	14
2	AMU	A	402	19/20	0.29	2.52	17,23,26,26	19
2	AMU	A	406	19/20	0.26	1.57	35,50,62,62	0
2	NAG	A	405	14/15	0.15	0.68	35,37,39,41	0

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	RSR	LLDF	B-factors(\AA^2)	Q<0.9
5	DGL	A	408	10/10	0.43	20.61	64,67,69,69	0
4	ALA	A	407	5/6	0.49	7.08	64,64,66,67	0
6	GOL	A	3007[B]	6/6	0.18	6.20	18,22,25,30	6
3	CA	A	400	1/1	0.12	2.36	12,12,12,12	0
5	DGL	A	404	10/10	0.42	1.04	24,25,26,26	10
4	ALA	A	403	5/6	0.35	-	23,23,23,24	5

6.5 Other polymers

There are no such residues in this entry.