



# Full wwPDB X-ray Structure Validation Report ⓘ

May 26, 2020 – 07:14 am BST

PDB ID : 2UYE  
Title : Double mutant Y110S,F111V DntR from Burkholderia sp. strain DNT in complex with thiocyanate  
Authors : Lonneborg, R.; Smirova, I.; Dian, C.; leonard, G.A.; McSweeney, S.; Brzezinski, P.  
Deposited on : 2007-04-04  
Resolution : 2.20 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](mailto: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.

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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 : 2.11  
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) : 2.11

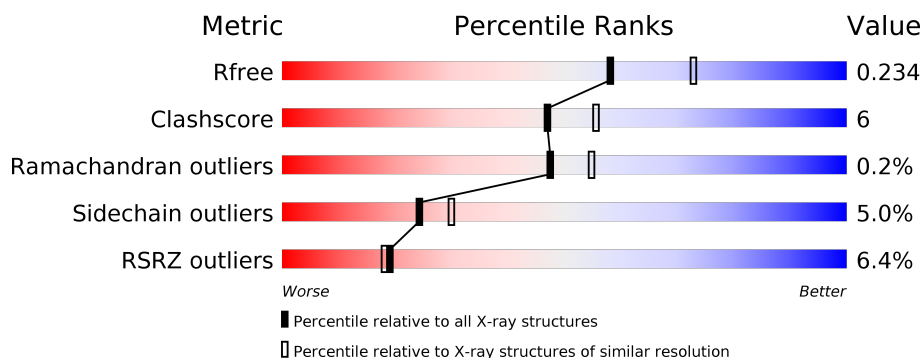
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.20 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	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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  $\geq 3$ , 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	307	<div> <div>3%</div> <div> <div></div> <div>55%</div> <div>12%</div> <div>•</div> <div>30%</div> </div> </div>
1	B	307	<div> <div>6%</div> <div> <div></div> <div>65%</div> <div>7%</div> <div>•</div> <div>27%</div> </div> </div>

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
3	GOL	A	1311	-	-	X	-

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3718 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.

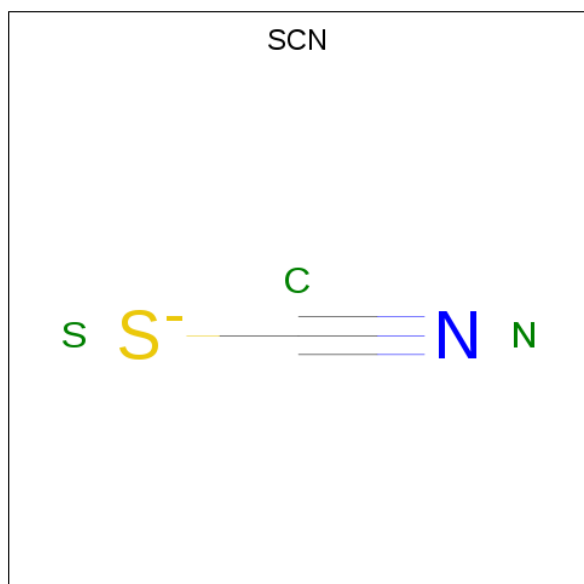
- Molecule 1 is a protein called REGULATORY PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	215	Total	C	N	O	S	0	7	0
			1716	1100	308	295	13			
1	B	225	Total	C	N	O	S	0	2	0
			1729	1107	304	306	12			

There are 4 discrepancies between the modelled and reference sequences:

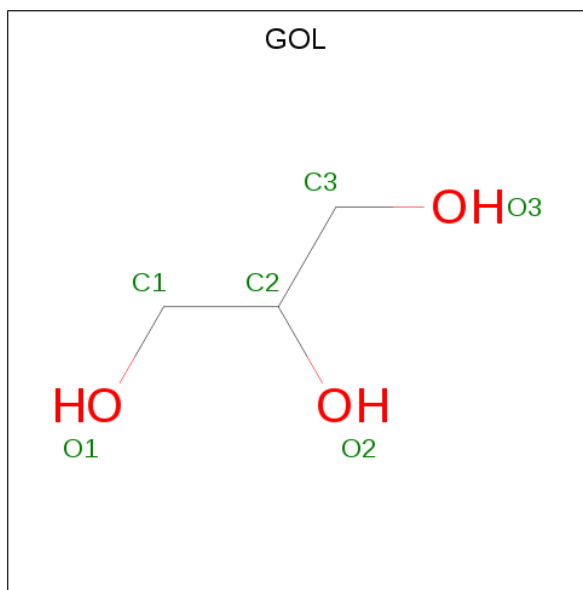
Chain	Residue	Modelled	Actual	Comment	Reference
A	110	SER	TYR	engineered mutation	UNP Q8VUD7
A	111	VAL	PHE	engineered mutation	UNP Q8VUD7
B	110	SER	TYR	engineered mutation	UNP Q8VUD7
B	111	VAL	PHE	engineered mutation	UNP Q8VUD7

- Molecule 2 is THIOCYANATE ION (three-letter code: SCN) (formula: CNS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	116	Total 116	O 116	0	0
4	B	103	Total 103	O 103	0	0



- Molecule 1: REGULATORY PROTEIN



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	106.87Å 106.87Å 296.89Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	67.57 – 2.20 29.45 – 2.20	Depositor EDS
% Data completeness (in resolution range)	97.1 (67.57-2.20) 97.2 (29.45-2.20)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.81 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.3.0011	Depositor
R, $R_{free}$	0.207 , 0.237 0.204 , 0.234	Depositor DCC
$R_{free}$ test set	2582 reflections (5.13%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	41.5	Xtriage
Anisotropy	0.240	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 40.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	3718	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.70% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: GOL, SCN

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	11.34	2/1795 (0.1%)	2.47	8/2429 (0.3%)
1	B	0.72	0/1782	0.74	1/2419 (0.0%)
All	All	8.05	2/3577 (0.1%)	1.83	9/4848 (0.2%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	168[A]	ARG	NE-CZ	338.92	5.73	1.33
1	A	168[B]	ARG	NE-CZ	338.92	5.73	1.33

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	168[A]	ARG	CD-NE-CZ	-78.24	14.06	123.60
1	A	168[B]	ARG	CD-NE-CZ	-78.24	14.06	123.60
1	A	168[A]	ARG	NE-CZ-NH2	-20.61	110.00	120.30
1	A	168[B]	ARG	NE-CZ-NH2	-20.61	110.00	120.30
1	A	168[A]	ARG	NE-CZ-NH1	12.69	126.65	120.30
1	A	168[B]	ARG	NE-CZ-NH1	12.69	126.65	120.30
1	A	136	GLY	N-CA-C	6.51	129.38	113.10
1	A	131	LEU	CA-CB-CG	6.17	129.48	115.30
1	B	122	ARG	NE-CZ-NH2	-5.29	117.65	120.30

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	1716	0	1720	30	0
1	B	1729	0	1685	16	0
2	A	24	0	0	1	0
2	B	12	0	0	1	0
3	A	12	0	16	9	0
3	B	6	0	8	2	0
4	A	116	0	0	1	0
4	B	103	0	0	0	0
All	All	3718	0	3429	43	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 6.

All (43) 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)
3:A:1312:GOL:H32	1:B:120:ALA:HB2	1.43	1.01
1:A:105:ASP:HB3	3:A:1311:GOL:C1	1.95	0.95
1:A:132:ARG:HE	3:A:1311:GOL:H12	1.43	0.82
1:A:105:ASP:HB3	3:A:1311:GOL:H11	1.61	0.81
1:B:241:LEU:HD13	3:B:1306:GOL:H2	1.67	0.77
1:A:105:ASP:HB3	3:A:1311:GOL:H12	1.72	0.71
1:A:230:ILE:HG21	1:B:105[B]:ASP:HB3	1.73	0.70
1:A:230:ILE:HG21	1:B:105[A]:ASP:HB2	1.77	0.67
1:B:241:LEU:CD1	3:B:1306:GOL:H2	2.27	0.64
1:A:241:LEU:HD13	3:A:1312:GOL:H2	1.82	0.61
1:A:169:HIS:CD2	1:A:206:HIS:HE1	2.23	0.56
3:A:1311:GOL:H2	1:B:228:HIS:CD2	2.39	0.56
1:A:143[A]:GLU:HG2	1:A:278:HIS:NE2	2.24	0.53
1:A:250:ALA:HB1	1:A:261:THR:HG21	1.92	0.51
1:A:105:ASP:CB	3:A:1311:GOL:H11	2.38	0.50
1:A:169:HIS:CD2	1:A:273:ILE:HD11	2.47	0.50
1:B:175:PHE:HB3	1:B:242:ILE:HG22	1.94	0.49
1:A:167:PHE:HB3	1:A:300:GLU:HG3	1.93	0.49
1:B:109:MET:HE2	1:B:249:PHE:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:292[B]:GLN:HG2	2:A:1308:SCN:N	2.28	0.48
1:B:105[A]:ASP:OD1	2:B:1305:SCN:S	2.72	0.47
1:A:106:ILE:HD12	1:A:249:PHE:HB2	1.95	0.47
1:B:257:PHE:O	1:B:259:LEU:HD13	2.13	0.47
1:A:287:ASN:OD1	1:A:291:ARG:HD3	2.15	0.47
1:A:105:ASP:HB2	1:B:230:ILE:HG21	1.96	0.46
1:A:252:ARG:HH11	1:A:252:ARG:HG2	1.80	0.46
1:A:175:PHE:HB3	1:A:242:ILE:HG22	1.96	0.46
1:A:118:ALA:O	1:A:122:ARG:HG3	2.18	0.44
1:A:169:HIS:CD2	1:A:206:HIS:CE1	3.05	0.44
1:B:181:SER:O	1:B:183:LYS:HD2	2.18	0.43
1:B:113:PRO:HB2	1:B:114:PRO:HD3	2.00	0.43
1:A:228:HIS:CG	3:A:1311:GOL:H32	2.54	0.43
1:A:113:PRO:HB2	1:A:114:PRO:HD3	2.01	0.43
1:A:170:ARG:NH2	1:A:270:ASP:OD1	2.50	0.42
1:A:90:PHE:HB2	1:A:285:PRO:HB2	2.02	0.42
1:A:237:HIS:HD2	1:A:257:PHE:O	2.02	0.42
1:B:91:ASP:HA	1:B:92:PRO:HD2	1.94	0.42
1:A:179:HIS:CG	1:A:180:PRO:HD2	2.55	0.41
1:A:174[A]:MET:HE1	1:A:259:LEU:HD12	2.03	0.41
1:A:221[A]:ARG:HG2	4:A:2060:HOH:O	2.19	0.41
1:B:169:HIS:CE1	1:B:248:ARG:HD3	2.56	0.41
1:B:98:THR:HA	1:B:127:GLN:O	2.20	0.41
1:A:109[A]:MET:HE3	1:A:252:ARG:CB	2.51	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	220/307 (72%)	212 (96%)	7 (3%)	1 (0%)	29 31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	223/307 (73%)	218 (98%)	5 (2%)	0	100	100
All	All	443/614 (72%)	430 (97%)	12 (3%)	1 (0%)	47	55

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	136	GLY

### 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	187/266 (70%)	174 (93%)	13 (7%)	15	16
1	B	179/266 (67%)	171 (96%)	8 (4%)	27	34
All	All	366/532 (69%)	345 (94%)	21 (6%)	24	24

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	96	THR
1	A	121	GLN
1	A	131	LEU
1	A	140	GLU
1	A	143[A]	GLU
1	A	143[B]	GLU
1	A	159	THR
1	A	168[A]	ARG
1	A	168[B]	ARG
1	A	221[A]	ARG
1	A	221[B]	ARG
1	A	241	LEU
1	A	252	ARG
1	B	109	MET
1	B	166	LEU

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Mol	Chain	Res	Type
1	B	183	LYS
1	B	188	LEU
1	B	241	LEU
1	B	251	VAL
1	B	259	LEU
1	B	260	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	100	ASN
1	A	169	HIS
1	A	237	HIS
1	B	292	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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

15 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	SCN	A	1306	-	1,2,2	3.19	1 (100%)	0,1,1	0.00	-
2	SCN	A	1305	-	1,2,2	2.08	1 (100%)	0,1,1	0.00	-
3	GOL	A	1312	-	5,5,5	0.30	0	5,5,5	0.74	0
2	SCN	B	1305	-	1,2,2	2.16	1 (100%)	0,1,1	0.00	-
2	SCN	A	1303	-	1,2,2	0.83	0	0,1,1	0.00	-
2	SCN	A	1310	-	1,2,2	0.67	0	0,1,1	0.00	-
3	GOL	A	1311	-	5,5,5	0.36	0	5,5,5	0.53	0
2	SCN	A	1307	-	1,2,2	0.83	0	0,1,1	0.00	-
2	SCN	A	1304	-	1,2,2	0.77	0	0,1,1	0.00	-
3	GOL	B	1306	-	5,5,5	0.37	0	5,5,5	0.60	0
2	SCN	B	1302	-	1,2,2	1.02	0	0,1,1	0.00	-
2	SCN	B	1303	-	1,2,2	1.60	0	0,1,1	0.00	-
2	SCN	B	1304	-	1,2,2	2.00	1 (100%)	0,1,1	0.00	-
2	SCN	A	1308	-	1,2,2	4.28	1 (100%)	0,1,1	0.00	-
2	SCN	A	1309	-	1,2,2	3.92	1 (100%)	0,1,1	0.00	-

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
3	GOL	A	1311	-	-	0/4/4/4	-
3	GOL	A	1312	-	-	4/4/4/4	-
3	GOL	B	1306	-	-	4/4/4/4	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1308	SCN	C-N	4.28	1.29	1.15
2	A	1309	SCN	C-N	3.92	1.28	1.15
2	A	1306	SCN	C-N	3.19	1.26	1.15
2	B	1305	SCN	C-N	2.16	1.22	1.15
2	A	1305	SCN	C-N	2.08	1.22	1.15
2	B	1304	SCN	C-N	2.00	1.22	1.15

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	1306	GOL	O1-C1-C2-O2
3	B	1306	GOL	O1-C1-C2-C3
3	B	1306	GOL	C1-C2-C3-O3
3	B	1306	GOL	O2-C2-C3-O3
3	A	1312	GOL	O1-C1-C2-C3
3	A	1312	GOL	O2-C2-C3-O3
3	A	1312	GOL	O1-C1-C2-O2
3	A	1312	GOL	C1-C2-C3-O3

There are no ring outliers.

5 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1312	GOL	2	0
2	B	1305	SCN	1	0
3	A	1311	GOL	7	0
3	B	1306	GOL	2	0
2	A	1308	SCN	1	0

## 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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	215/307 (70%)	-0.22	9 (4%) 36 34	24, 37, 53, 73	15 (6%)
1	B	225/307 (73%)	0.15	19 (8%) 11 9	26, 38, 73, 103	10 (4%)
All	All	440/614 (71%)	-0.03	28 (6%) 19 18	24, 38, 60, 103	25 (5%)

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	84	LEU	8.2
1	B	85	THR	7.0
1	B	83	ALA	6.1
1	B	86	THR	6.0
1	B	76	ALA	5.3
1	B	81	GLN	3.9
1	B	77	LEU	3.8
1	A	135	ALA	3.7
1	B	301	ALA	3.4
1	B	89	SER	3.4
1	B	82	THR	3.4
1	B	88	ASP	3.3
1	A	88	ASP	3.3
1	B	136	GLY	3.3
1	A	89	SER	3.2
1	B	80	LEU	3.2
1	A	136	GLY	3.1
1	A	93	PHE	2.8
1	B	87	ARG	2.5
1	B	137	ASN	2.3
1	B	158	GLN	2.3
1	B	78	ASN	2.2
1	A	94	ALA	2.2
1	B	134	ASN	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	140	GLU	2.2
1	A	302	HIS	2.2
1	A	137	ASN	2.1
1	A	301	ALA	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 carbohydrates 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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
2	SCN	A	1305	3/3	0.77	0.17	52,52,52,53	0
3	GOL	A	1311	6/6	0.89	0.15	64,66,68,68	0
2	SCN	A	1303	3/3	0.92	0.13	37,37,38,41	0
2	SCN	A	1307	3/3	0.93	0.11	53,53,53,56	0
2	SCN	A	1306	3/3	0.94	0.16	54,54,54,54	0
3	GOL	B	1306	6/6	0.94	0.16	51,53,53,55	0
3	GOL	A	1312	6/6	0.94	0.15	43,45,46,52	0
2	SCN	B	1305	3/3	0.94	0.11	52,52,52,53	0
2	SCN	A	1309	3/3	0.94	0.19	29,29,29,31	3
2	SCN	B	1303	3/3	0.95	0.10	47,47,47,47	0
2	SCN	B	1304	3/3	0.95	0.11	43,43,44,45	0
2	SCN	A	1310	3/3	0.96	0.23	21,21,21,23	3
2	SCN	A	1308	3/3	0.96	0.11	60,60,60,60	0
2	SCN	B	1302	3/3	0.99	0.09	43,43,44,45	0
2	SCN	A	1304	3/3	0.99	0.08	47,47,47,47	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.