



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 10:49 AM UTC

PDB ID : 2UYF / pdb_00002uyf
Title : Single mutant F111L 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

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

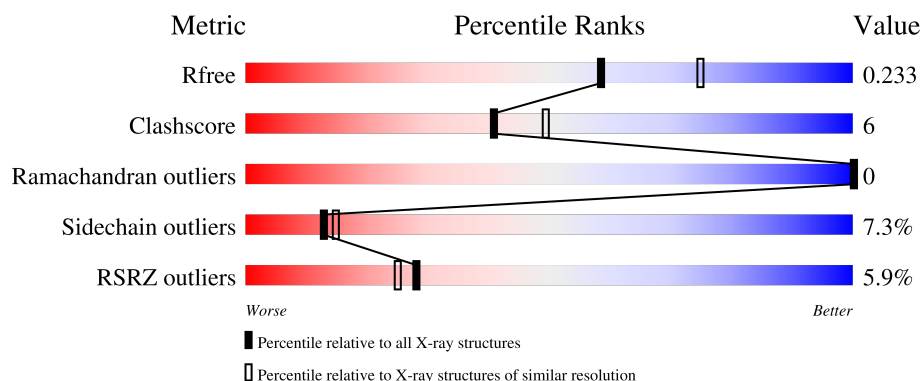
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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}	180053	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (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 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	307	3% 53% 14% • • 30%
1	B	307	5% 64% 8% • 26%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3717 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.

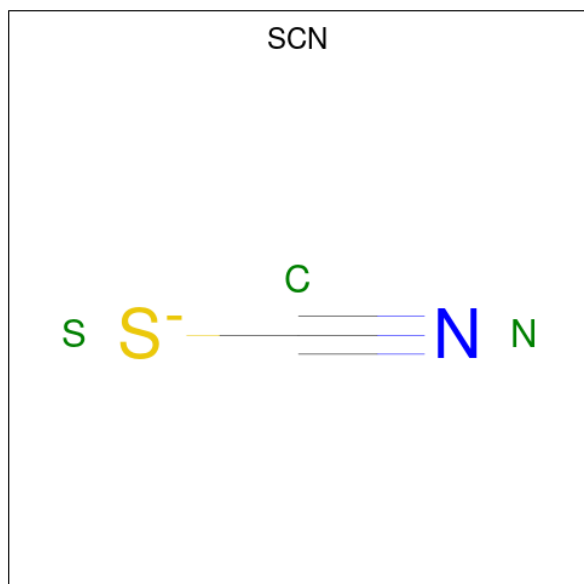
- Molecule 1 is a protein called REGULATORY PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	215	Total	C	N	O	S	0	2	0
			1701	1094	305	290	12			
1	B	226	Total	C	N	O	S	0	1	0
			1744	1116	310	306	12			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	111	LEU	PHE	engineered mutation	UNP Q8VUD7
B	111	LEU	PHE	engineered mutation	UNP Q8VUD7

- Molecule 2 is THIOCYANATE ION (CCD ID: SCN) (formula: CNS).



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

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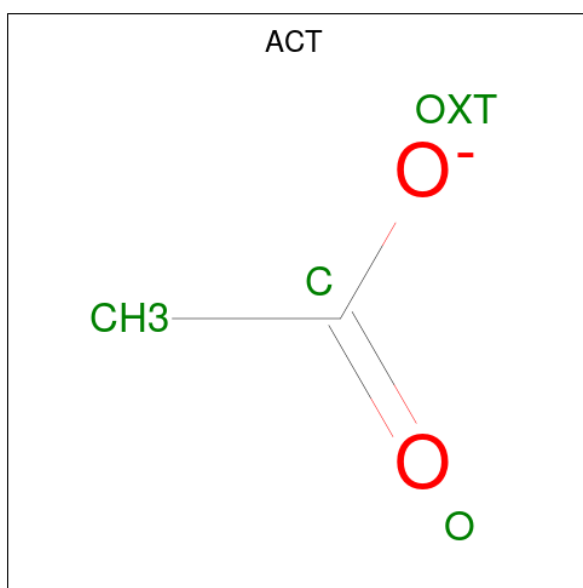
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	A	1	Total 3	C 1	N 1	S 1	0	0
2	B	1	Total 3	C 1	N 1	S 1	0	0
2	B	1	Total 3	C 1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

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: $C_2H_3O_2$).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	106	Total	O	0	0
			106	106		
5	B	102	Total	O	0	0
			102	102		

• Molecule 1: REGULATORY PROTEIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	106.60Å 106.60Å 296.45Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 2.20 30.00 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.1 (30.00-2.20) 99.1 (30.00-2.20)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.27 (at 2.20Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.207 , 0.233 0.206 , 0.233	Depositor DCC
R_{free} test set	2641 reflections (5.12%)	wwPDB-VP
Wilson B-factor (Å ²)	37.2	Xtriage
Anisotropy	0.231	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 47.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3717	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.80% 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: GOL, ACT, 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	0.95	2/1759 (0.1%)	1.08	9/2384 (0.4%)
1	B	0.95	2/1794 (0.1%)	1.04	2/2437 (0.1%)
All	All	0.95	4/3553 (0.1%)	1.06	11/4821 (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	1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	292[A]	GLN	CB-CG	7.05	1.73	1.52
1	A	292[B]	GLN	CB-CG	7.05	1.73	1.52
1	B	199	VAL	CA-CB	6.07	1.61	1.54
1	B	226	VAL	CA-CB	5.32	1.59	1.55

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	197	VAL	CB-CA-C	-10.38	96.35	110.98
1	A	197	VAL	CB-CA-C	-8.65	99.12	110.98
1	A	302	HIS	N-CA-C	7.18	119.22	107.23
1	B	230	ILE	N-CA-C	6.33	117.01	110.36
1	A	302	HIS	CA-C-N	5.76	132.06	121.70
1	A	302	HIS	C-N-CA	5.76	132.06	121.70
1	A	112	MET	CA-C-N	-5.49	114.73	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	112	MET	C-N-CA	-5.49	114.73	120.38
1	A	292[A]	GLN	CA-CB-CG	-5.47	103.15	114.10
1	A	292[B]	GLN	CA-CB-CG	-5.47	103.15	114.10
1	A	245	VAL	N-CA-CB	-5.14	104.01	111.21

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	302	HIS	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	1701	0	1707	30	0
1	B	1744	0	1698	13	0
2	A	24	0	0	0	0
2	B	12	0	0	0	0
3	A	12	0	16	6	0
3	B	12	0	16	1	0
4	B	4	0	3	0	0
5	A	106	0	0	3	0
5	B	102	0	0	1	0
All	All	3717	0	3440	45	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 (45) 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:277:TRP:HE1	1:A:282:ASN:HD22	1.14	0.89
3:A:1313:GOL:H32	1:B:120:ALA:HB2	1.61	0.81
1:A:120:ALA:HB2	3:B:1306:GOL:H32	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:LEU:HD13	3:A:1313:GOL:H2	1.72	0.69
1:B:165:ARG:HG3	1:B:165:ARG:HH11	1.57	0.69
1:B:190:GLN:HG2	1:B:194:LEU:HD22	1.80	0.62
1:B:108:GLU:CD	1:B:132:ARG:HH22	2.09	0.59
3:A:1312:GOL:H12	5:B:2018:HOH:O	2.04	0.58
1:A:278:HIS:HD2	1:A:280:LYS:H	1.52	0.57
1:A:285:PRO:HA	1:A:288:MET:HE2	1.86	0.57
1:A:201:ALA:O	1:A:204:THR:HB	2.05	0.55
1:A:197:VAL:HG13	1:A:224:LEU:HB3	1.88	0.55
1:A:188:LEU:HD11	1:A:218:ILE:HD13	1.89	0.55
3:A:1312:GOL:H11	5:A:2012:HOH:O	2.06	0.54
1:A:277:TRP:HE1	1:A:282:ASN:ND2	1.95	0.54
1:A:278:HIS:CD2	1:A:280:LYS:H	2.24	0.54
1:A:108:GLU:CD	1:A:132:ARG:HH22	2.17	0.53
1:A:285:PRO:HA	1:A:288:MET:CE	2.40	0.51
3:A:1312:GOL:C1	5:A:2012:HOH:O	2.57	0.51
1:B:165:ARG:HG3	1:B:165:ARG:NH1	2.26	0.50
1:A:197:VAL:HG13	1:A:224:LEU:HD13	1.94	0.49
1:A:110:TYR:CE1	1:A:248:ARG:HG2	2.48	0.48
1:A:287:ASN:O	1:A:291:ARG:HG3	2.13	0.48
1:A:250:ALA:HB1	1:A:261:THR:HG21	1.96	0.48
1:A:224:LEU:HD21	1:B:112:MET:HE2	1.94	0.47
1:A:302:HIS:N	1:A:302:HIS:ND1	2.62	0.47
1:B:199:VAL:HA	1:B:226:VAL:O	2.17	0.46
1:A:241:LEU:CD1	3:A:1313:GOL:H2	2.43	0.45
1:A:90:PHE:HB2	1:A:285:PRO:HB2	1.99	0.44
1:A:162:PHE:HB2	1:A:277:TRP:CE2	2.53	0.44
1:B:113:PRO:HB2	1:B:114:PRO:HD3	1.99	0.44
1:A:163:GLN:HA	1:A:275:LEU:O	2.18	0.44
1:A:109:MET:HE3	1:A:252:ARG:HG3	1.99	0.43
1:A:274:ASN:HB2	1:A:276:PHE:CE1	2.52	0.43
1:A:101:LEU:HD22	1:A:128:ILE:HG23	2.00	0.43
1:A:167:PHE:HB3	1:A:300:GLU:CG	2.48	0.43
1:B:175:PHE:HB3	1:B:242:ILE:HG22	2.00	0.42
1:B:103:MET:O	1:B:133:PRO:HD3	2.20	0.42
1:A:175:PHE:HB3	1:A:242:ILE:HG22	2.01	0.42
1:B:209:VAL:HA	1:B:212:LEU:HD12	2.02	0.42
1:B:91:ASP:HA	1:B:92:PRO:HD2	1.96	0.41
1:B:173[B]:CYS:SG	1:B:265:PRO:HD2	2.61	0.41
1:A:97:ARG:NH1	5:A:2006:HOH:O	2.40	0.41
1:A:181:SER:O	1:A:190:GLN:NE2	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:LEU:HD22	1:A:297:LEU:HG	2.03	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	215/307 (70%)	211 (98%)	4 (2%)	0	100	100
1	B	225/307 (73%)	221 (98%)	4 (2%)	0	100	100
All	All	440/614 (72%)	432 (98%)	8 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	182/266 (68%)	163 (90%)	19 (10%)	7	7
1	B	179/266 (67%)	171 (96%)	8 (4%)	24	33
All	All	361/532 (68%)	334 (92%)	27 (8%)	13	14

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

Mol	Chain	Res	Type
1	A	96	THR
1	A	101	LEU
1	A	106	ILE
1	A	109	MET
1	A	121	GLN
1	A	131	LEU
1	A	158	GLN
1	A	166	LEU
1	A	197	VAL
1	A	204	THR
1	A	219	LYS
1	A	224	LEU
1	A	241	LEU
1	A	245	VAL
1	A	290	LEU
1	A	292[A]	GLN
1	A	292[B]	GLN
1	A	293	LEU
1	A	302	HIS
1	B	131	LEU
1	B	166	LEU
1	B	188	LEU
1	B	194	LEU
1	B	197	VAL
1	B	199	VAL
1	B	251	VAL
1	B	259	LEU

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

Mol	Chain	Res	Type
1	A	278	HIS
1	A	282	ASN
1	B	125	HIS
1	B	163	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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

17 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	1.92	0	0,1,1	-	-
2	SCN	B	1303	-	1,2,2	1.61	0	0,1,1	-	-
2	SCN	A	1304	-	1,2,2	1.36	0	0,1,1	-	-
2	SCN	B	1304	-	1,2,2	2.12	1 (100%)	0,1,1	-	-
3	GOL	B	1307	-	5,5,5	0.58	0	5,5,5	0.37	0
2	SCN	B	1305	-	1,2,2	2.33	1 (100%)	0,1,1	-	-
2	SCN	A	1309	-	1,2,2	4.31	1 (100%)	0,1,1	-	-
2	SCN	A	1305	-	1,2,2	1.76	0	0,1,1	-	-
2	SCN	B	1302	-	1,2,2	0.57	0	0,1,1	-	-
2	SCN	A	1310	-	1,2,2	0.45	0	0,1,1	-	-
3	GOL	B	1306	-	5,5,5	0.27	0	5,5,5	0.54	0
4	ACT	B	1308	-	3,3,3	0.75	0	3,3,3	0.92	0
3	GOL	A	1313	-	5,5,5	0.34	0	5,5,5	1.01	0
3	GOL	A	1312	-	5,5,5	0.39	0	5,5,5	0.99	0
2	SCN	A	1311	-	1,2,2	1.70	0	0,1,1	-	-
2	SCN	A	1307	-	1,2,2	4.19	1 (100%)	0,1,1	-	-
2	SCN	A	1308	-	1,2,2	1.58	0	0,1,1	-	-

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	1313	-	-	4/4/4/4	-
3	GOL	A	1312	-	-	2/4/4/4	-
3	GOL	B	1307	-	-	3/4/4/4	-
3	GOL	B	1306	-	-	2/4/4/4	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1309	SCN	C-N	4.31	1.30	1.15
2	A	1307	SCN	C-N	4.19	1.29	1.15
2	B	1305	SCN	C-N	2.33	1.23	1.15
2	B	1304	SCN	C-N	2.12	1.22	1.15

There are no bond angle outliers.

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1312	GOL	C1-C2-C3-O3
3	A	1313	GOL	O1-C1-C2-C3
3	A	1313	GOL	C1-C2-C3-O3
3	B	1306	GOL	O1-C1-C2-C3
3	B	1307	GOL	O1-C1-C2-C3
3	B	1307	GOL	C1-C2-C3-O3
3	A	1312	GOL	O2-C2-C3-O3
3	A	1313	GOL	O2-C2-C3-O3
3	A	1313	GOL	O1-C1-C2-O2
3	B	1307	GOL	O1-C1-C2-O2
3	B	1306	GOL	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	1306	GOL	1	0
3	A	1313	GOL	3	0
3	A	1312	GOL	3	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, 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	215/307 (70%)	0.10	10 (4%) 36 33	21, 33, 51, 60	16 (7%)
1	B	226/307 (73%)	0.30	16 (7%) 22 19	21, 33, 72, 107	13 (5%)
All	All	441/614 (71%)	0.20	26 (5%) 28 25	21, 33, 54, 107	29 (6%)

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	76	ALA	9.1
1	B	79	THR	8.7
1	B	85	THR	7.4
1	B	86	THR	7.0
1	B	77	LEU	6.5
1	B	81	GLN	6.4
1	B	82	THR	5.9
1	B	84	LEU	5.4
1	B	78	ASN	5.0
1	B	83	ALA	4.7
1	B	301	ALA	4.3
1	B	89	SER	4.2
1	A	93	PHE	4.2
1	A	136	GLY	3.9
1	A	135	ALA	3.9
1	A	303	HIS	3.6
1	B	135	ALA	3.6
1	B	80	LEU	3.5
1	A	302	HIS	3.2
1	A	89	SER	3.1
1	B	136	GLY	2.9
1	A	137	ASN	2.7
1	A	292[A]	GLN	2.4
1	A	134	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	170	ARG	2.3
1	B	178	ASP	2.2

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 [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($\text{\AA}^2$)	Q<0.9
2	SCN	A	1307	3/3	0.76	0.34	74,74,74,74	0
3	GOL	A	1312	6/6	0.80	0.18	45,48,50,53	0
2	SCN	A	1309	3/3	0.84	0.35	41,41,41,41	3
2	SCN	A	1311	3/3	0.87	0.37	35,35,35,36	3
2	SCN	A	1308	3/3	0.89	0.21	29,29,29,30	3
2	SCN	B	1305	3/3	0.89	0.29	29,29,30,30	3
2	SCN	A	1305	3/3	0.89	0.17	51,51,53,53	0
4	ACT	B	1308	4/4	0.90	0.13	41,42,42,43	0
2	SCN	B	1304	3/3	0.92	0.37	30,30,32,32	3
2	SCN	A	1306	3/3	0.93	0.14	60,60,61,62	0
3	GOL	B	1307	6/6	0.94	0.12	27,38,39,40	0
2	SCN	A	1310	3/3	0.96	0.16	26,26,27,27	3
3	GOL	A	1313	6/6	0.97	0.09	32,33,34,37	0
2	SCN	B	1303	3/3	0.97	0.12	38,38,39,40	0
2	SCN	B	1302	3/3	0.97	0.09	32,32,33,34	0
2	SCN	A	1304	3/3	0.98	0.11	30,30,32,32	0
3	GOL	B	1306	6/6	0.98	0.07	35,36,37,37	0

6.5 Other polymers [i](#)

There are no such residues in this entry.