



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:14 PM UTC

PDB ID : 4I7I / pdb_00004i7i
Title : Crystal structure of rabbit ryanodine receptor 1 (residues 1-536) disease mutant L14R
Authors : Kimlicka, L.; Van Petegem, F.
Deposited on : 2012-11-30
Resolution : 2.90 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

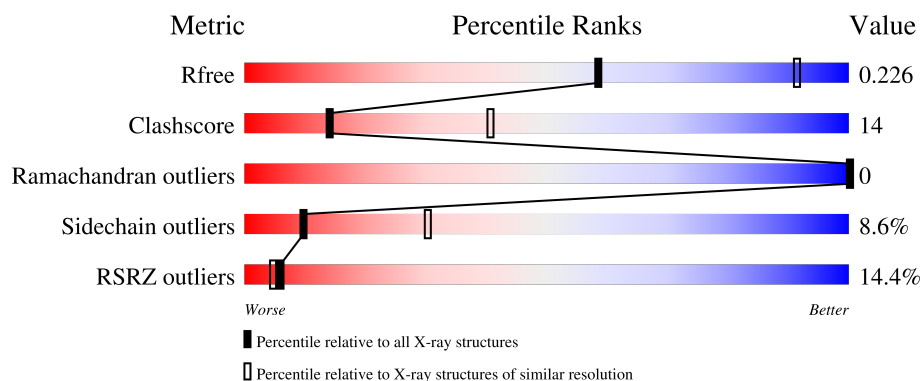
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)

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	536	13% 68% 20% • 10%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 3546 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.

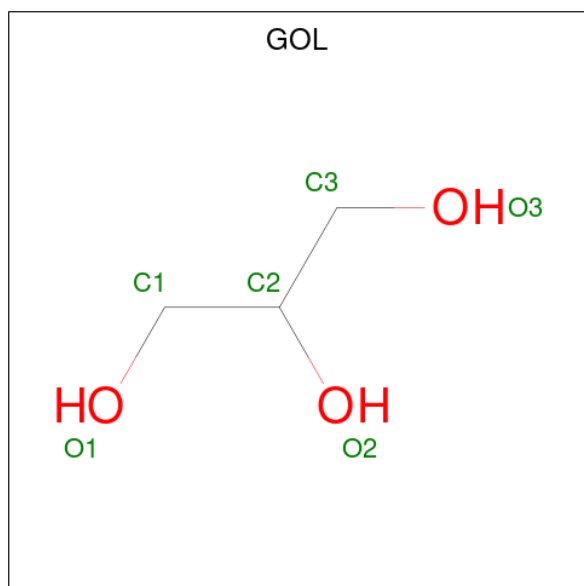
- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	485	3524	2220	621	658	25	0	1	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	ARG	LEU	engineered mutation	UNP P11716

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

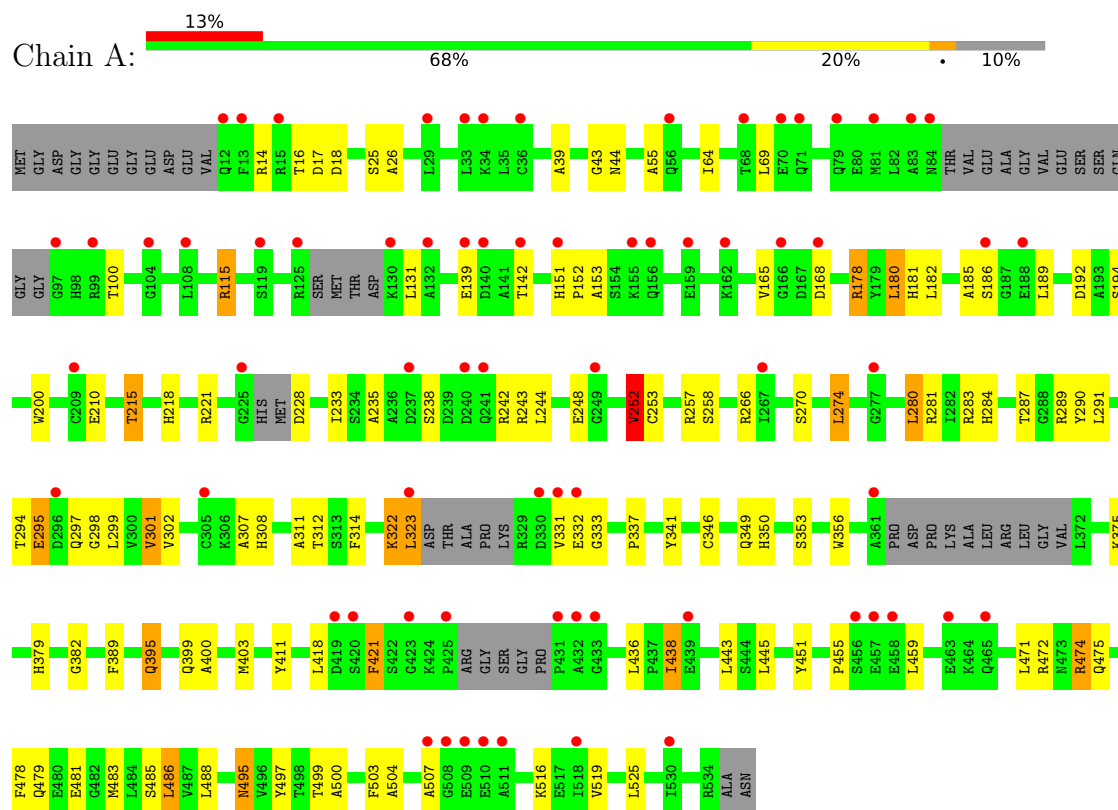
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	16	Total	O	0	0
			16	16		

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: Ryanodine receptor 1



4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	171.40Å 171.40Å 300.48Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	46.70 – 2.90 46.70 – 2.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (46.70-2.90) 92.3 (46.70-2.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.04 (at 2.91Å)	Xtriage
Refinement program	REFMAC 5.0	Depositor
R, R_{free}	0.228 , 0.249 (Not available) , 0.226	Depositor DCC
R_{free} test set	1894 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	88.4	Xtriage
Anisotropy	0.470	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 73.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3546	wwPDB-VP
Average B, all atoms (Å ²)	94.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.00% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.43	0/3597	0.82	2/4903 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	252	VAL	CB-CA-C	-5.32	105.07	112.04
1	A	322	LYS	N-CA-C	5.27	117.44	111.11

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	3524	0	3228	97	0
2	A	6	0	8	0	0
3	A	16	0	0	1	0
All	All	3546	0	3236	97	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 14.

All (97) 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:115:ARG:HH11	1:A:115:ARG:HG3	1.17	1.05
1:A:399:GLN:HG2	1:A:403:MET:HE2	1.40	1.02
1:A:379:HIS:HD2	1:A:382:GLY:H	1.13	0.94
1:A:474:ARG:HG2	1:A:474:ARG:HH11	1.41	0.84
1:A:284:HIS:CD2	1:A:287:THR:HG22	2.12	0.83
1:A:274:LEU:HD11	1:A:280:LEU:HD23	1.63	0.80
1:A:289:ARG:HB2	1:A:301:VAL:HG13	1.68	0.74
1:A:379:HIS:CD2	1:A:382:GLY:H	2.02	0.74
1:A:284:HIS:HD2	1:A:287:THR:H	1.33	0.74
1:A:436:LEU:HB2	1:A:438:ILE:HD12	1.70	0.73
1:A:115:ARG:HG3	1:A:115:ARG:NH1	1.96	0.70
1:A:242:ARG:NH2	1:A:481:GLU:OE2	2.24	0.70
1:A:331:VAL:HG12	1:A:333:GLY:H	1.58	0.69
1:A:289:ARG:CB	1:A:301:VAL:HG13	2.23	0.68
1:A:16:THR:O	1:A:17:ASP:HB2	1.95	0.67
1:A:411:TYR:HB2	1:A:486:LEU:HD11	1.77	0.67
1:A:243:ARG:NH1	1:A:289:ARG:NE	2.44	0.65
1:A:235:ALA:O	1:A:238:SER:HB2	1.97	0.64
1:A:210:GLU:HG3	1:A:337:PRO:HG3	1.80	0.64
1:A:472:ARG:HA	1:A:475:GLN:HE21	1.65	0.62
1:A:350:HIS:HD2	1:A:353:SER:OG	1.83	0.62
1:A:295:GLU:H	1:A:295:GLU:CD	2.07	0.61
1:A:475:GLN:O	1:A:479:GLN:HG3	2.00	0.61
1:A:436:LEU:HB2	1:A:438:ILE:CD1	2.30	0.60
1:A:284:HIS:CG	1:A:287:THR:HG22	2.36	0.60
1:A:421:PHE:HD1	1:A:421:PHE:C	2.09	0.60
1:A:497:TYR:CD2	1:A:503:PHE:HA	2.36	0.60
1:A:185:ALA:HA	1:A:186:SER:C	2.26	0.59
1:A:294:THR:HG22	1:A:298:GLY:O	2.01	0.59
1:A:421:PHE:C	1:A:421:PHE:CD1	2.81	0.58
1:A:284:HIS:CD2	1:A:287:THR:H	2.19	0.57
1:A:131:LEU:O	1:A:178:ARG:NH2	2.38	0.57
1:A:153:ALA:CB	1:A:168:ASP:HB2	2.36	0.56
1:A:244:LEU:HD13	1:A:375:LYS:HE3	1.87	0.56
1:A:257:ARG:HD3	3:A:708:HOH:O	2.06	0.55
1:A:115:ARG:HH11	1:A:115:ARG:CG	2.04	0.55
1:A:221:ARG:HE	1:A:258:SER:HG	1.55	0.54
1:A:289:ARG:HB2	1:A:301:VAL:CG1	2.38	0.54
1:A:228:ASP:O	1:A:253[A]:CYS:SG	2.64	0.54
1:A:399:GLN:HG2	1:A:403:MET:CE	2.27	0.54
1:A:331:VAL:HG12	1:A:332:GLU:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:LEU:HD12	1:A:314:PHE:O	2.08	0.54
1:A:504:ALA:O	1:A:507:ALA:O	2.25	0.53
1:A:266:ARG:O	1:A:270:SER:HB3	2.09	0.52
1:A:281:ARG:NH1	1:A:307:ALA:O	2.42	0.52
1:A:243:ARG:NH1	1:A:289:ARG:CZ	2.73	0.51
1:A:281:ARG:HH11	1:A:312:THR:HG21	1.76	0.50
1:A:43:GLY:C	1:A:443:LEU:HD23	2.36	0.50
1:A:350:HIS:CD2	1:A:353:SER:OG	2.64	0.50
1:A:455:PRO:HB2	1:A:459:LEU:HD12	1.93	0.50
1:A:218:HIS:CD2	1:A:341:TYR:OH	2.65	0.50
1:A:14:ARG:HH12	1:A:165:VAL:HG22	1.76	0.50
1:A:411:TYR:HB2	1:A:486:LEU:CD1	2.40	0.50
1:A:322:LYS:O	1:A:323:LEU:HD23	2.11	0.50
1:A:153:ALA:HB2	1:A:168:ASP:HB2	1.93	0.50
1:A:284:HIS:HB3	1:A:287:THR:HG22	1.94	0.50
1:A:308:HIS:O	1:A:312:THR:HG22	2.12	0.50
1:A:478:PHE:CD1	1:A:483:MET:HG3	2.46	0.50
1:A:287:THR:HG23	1:A:289:ARG:H	1.76	0.49
1:A:243:ARG:HH12	1:A:289:ARG:NE	2.11	0.49
1:A:284:HIS:CD2	1:A:287:THR:CG2	2.89	0.49
1:A:474:ARG:HG2	1:A:474:ARG:NH1	2.17	0.49
1:A:400:ALA:HA	1:A:403:MET:HE3	1.93	0.48
1:A:182:LEU:HD11	1:A:189:LEU:HD12	1.96	0.47
1:A:495:ASN:C	1:A:497:TYR:N	2.72	0.47
1:A:478:PHE:HD1	1:A:483:MET:HG3	1.78	0.47
1:A:257:ARG:O	1:A:284:HIS:HE1	1.98	0.47
1:A:379:HIS:HD2	1:A:382:GLY:N	1.95	0.47
1:A:274:LEU:HD11	1:A:280:LEU:CD2	2.39	0.47
1:A:451:TYR:CZ	1:A:474:ARG:HG2	2.50	0.47
1:A:349:GLN:HB2	1:A:356:TRP:CZ3	2.51	0.46
1:A:499:THR:OG1	1:A:500:ALA:N	2.48	0.46
1:A:331:VAL:CG1	1:A:332:GLU:N	2.79	0.46
1:A:474:ARG:NH1	1:A:474:ARG:CG	2.78	0.46
1:A:233:ILE:HG12	1:A:284:HIS:CE1	2.51	0.45
1:A:44:ASN:C	1:A:44:ASN:HD22	2.24	0.44
1:A:215:THR:H	1:A:218:HIS:CD2	2.34	0.44
1:A:497:TYR:N	1:A:497:TYR:CD1	2.85	0.43
1:A:281:ARG:HD3	1:A:312:THR:HG21	2.01	0.43
1:A:308:HIS:CE1	1:A:311:ALA:HB2	2.54	0.43
1:A:39:ALA:O	1:A:64:ILE:HB	2.19	0.43
1:A:151:HIS:HA	1:A:152:PRO:HD3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:THR:HG23	1:A:289:ARG:HG3	2.02	0.42
1:A:55:ALA:O	1:A:281:ARG:NH2	2.53	0.42
1:A:178:ARG:HG2	1:A:194:SER:C	2.45	0.42
1:A:389:PHE:C	1:A:389:PHE:CD1	2.98	0.41
1:A:180:LEU:HD13	1:A:200:TRP:CE2	2.55	0.41
1:A:516:LYS:O	1:A:519:VAL:HG12	2.20	0.41
1:A:283:ARG:HB2	1:A:290:TYR:CE2	2.56	0.41
1:A:289:ARG:HB3	1:A:301:VAL:HG13	1.99	0.41
1:A:18:ASP:HB2	1:A:69:LEU:HD12	2.03	0.41
1:A:248:GLU:OE2	1:A:257:ARG:NH2	2.54	0.41
1:A:181:HIS:HD2	1:A:192:ASP:OD1	2.04	0.40
1:A:26:ALA:HB2	1:A:182:LEU:HD21	2.03	0.40
1:A:291:LEU:HD11	1:A:299:LEU:HD11	2.02	0.40
1:A:395:GLN:HE21	1:A:395:GLN:HB2	1.71	0.40
1:A:248:GLU:HB3	1:A:252:VAL:HG21	2.04	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	472/536 (88%)	455 (96%)	17 (4%)	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	339/449 (76%)	310 (91%)	29 (9%)	10	30

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	25	SER
1	A	100	THR
1	A	115	ARG
1	A	139	GLU
1	A	142	THR
1	A	178	ARG
1	A	180	LEU
1	A	215	THR
1	A	252	VAL
1	A	274	LEU
1	A	280	LEU
1	A	295	GLU
1	A	297	GLN
1	A	301	VAL
1	A	302	VAL
1	A	323	LEU
1	A	346	CYS
1	A	395	GLN
1	A	418	LEU
1	A	421	PHE
1	A	438	ILE
1	A	445	LEU
1	A	471	LEU
1	A	474	ARG
1	A	485	SER
1	A	486	LEU
1	A	488	LEU
1	A	495	ASN
1	A	525	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (25) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	GLN
1	A	44	ASN

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Mol	Chain	Res	Type
1	A	54	ASN
1	A	111	HIS
1	A	113	HIS
1	A	138	GLN
1	A	181	HIS
1	A	197	GLN
1	A	201	ASN
1	A	203	ASN
1	A	218	HIS
1	A	224	HIS
1	A	273	HIS
1	A	284	HIS
1	A	350	HIS
1	A	379	HIS
1	A	383	HIS
1	A	395	GLN
1	A	412	ASN
1	A	446	GLN
1	A	475	GLN
1	A	479	GLN
1	A	489	ASN
1	A	495	ASN
1	A	533	ASN

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 ⓘ

1 ligand is 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	GOL	A	601	-	5,5,5	0.38	0	5,5,5	0.26	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
2	GOL	A	601	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	GOL	C1-C2-C3-O3

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

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	485/536 (90%)	0.81	70 (14%) 6 5	45, 92, 143, 174	1 (0%)

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	84	ASN	7.2
1	A	332	GLU	6.9
1	A	509	GLU	6.7
1	A	130	LYS	5.9
1	A	431	PRO	5.9
1	A	12	GLN	5.7
1	A	81	MET	5.6
1	A	361	ALA	4.3
1	A	188	GLU	4.3
1	A	305	CYS	4.2
1	A	432	ALA	4.1
1	A	433	GLY	4.0
1	A	162	LYS	3.8
1	A	125	ARG	3.7
1	A	79	GLN	3.6
1	A	465	GLN	3.5
1	A	71	GLN	3.4
1	A	156	GLN	3.4
1	A	458	GLU	3.4
1	A	457	GLU	3.4
1	A	510	GLU	3.4
1	A	240	ASP	3.4
1	A	225	GLY	3.4
1	A	166	GLY	3.3
1	A	508	GLY	3.2
1	A	83	ALA	3.0
1	A	331	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	296	ASP	3.0
1	A	186	SER	3.0
1	A	139	GLU	3.0
1	A	425	PRO	2.9
1	A	463	GLU	2.9
1	A	56	GLN	2.8
1	A	456	SER	2.8
1	A	439	GLU	2.8
1	A	99	ARG	2.8
1	A	423	GLY	2.8
1	A	159	GLU	2.7
1	A	330	ASP	2.7
1	A	36	CYS	2.6
1	A	33	LEU	2.6
1	A	70	GLU	2.6
1	A	132	ALA	2.6
1	A	119	SER	2.6
1	A	530	ILE	2.6
1	A	140	ASP	2.6
1	A	511	ALA	2.5
1	A	97	GLY	2.5
1	A	277	GLY	2.5
1	A	142	THR	2.5
1	A	323	LEU	2.4
1	A	13	PHE	2.4
1	A	155	LYS	2.4
1	A	507	ALA	2.4
1	A	151	HIS	2.4
1	A	68	THR	2.4
1	A	168	ASP	2.3
1	A	34	LYS	2.3
1	A	419	ASP	2.3
1	A	209	CYS	2.3
1	A	104	GLY	2.3
1	A	249	GLY	2.3
1	A	29	LEU	2.2
1	A	267	ILE	2.1
1	A	108	LEU	2.1
1	A	420	SER	2.1
1	A	241	GLN	2.1
1	A	518	ILE	2.1
1	A	15	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	237	ASP	2.0

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	GOL	A	601	6/6	0.90	0.17	132,132,132,132	0

6.5 Other polymers [i](#)

There are no such residues in this entry.