



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 07:55 AM UTC

PDB ID : 6EBO / pdb_00006ebo
Title : Crystal Structure of the Class Ie Ribonucleotide Reductase Beta Subunit from *Aerococcus urinae* in Unactivated Form
Authors : Palowitch, G.M.; Alapati, R.B.; Boal, A.K.
Deposited on : 2018-08-06
Resolution : 1.58 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

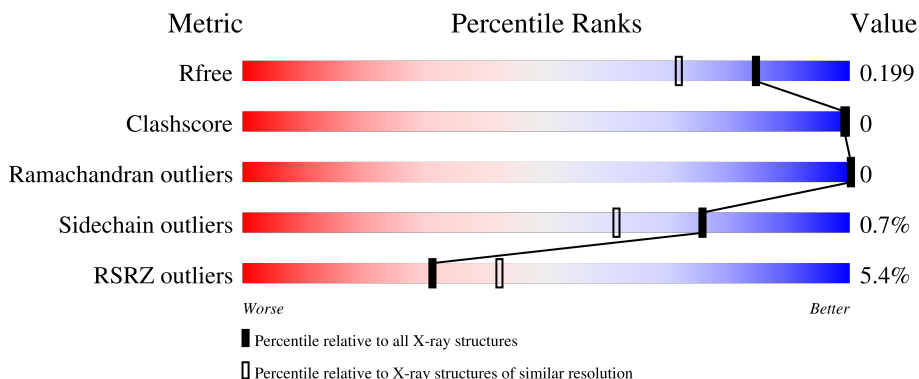
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.58 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	1094 (1.58-1.58)
Clashscore	190562	1105 (1.58-1.58)
Ramachandran outliers	187476	1082 (1.58-1.58)
Sidechain outliers	187428	1081 (1.58-1.58)
RSRZ outliers	180081	1094 (1.58-1.58)

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	355	3% 86% 12%
1	B	355	3% 84% 15%
1	C	355	4% 85% 14%
1	D	355	9% 86% 12%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 10774 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 Ribonucleoside-diphosphate reductase, beta subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	S	0	0	0
			2537	1637	414	480	6			
1	B	303	Total	C	N	O	S	0	0	0
			2467	1596	400	465	6			
1	C	305	Total	C	N	O	S	0	0	0
			2483	1605	405	467	6			
1	D	311	Total	C	N	O	S	0	0	0
			2537	1637	414	480	6			

There are 76 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-17	MET	-	initiating methionine	UNP F2I8X9
A	-16	GLY	-	expression tag	UNP F2I8X9
A	-15	SER	-	expression tag	UNP F2I8X9
A	-14	SER	-	expression tag	UNP F2I8X9
A	-13	HIS	-	expression tag	UNP F2I8X9
A	-12	HIS	-	expression tag	UNP F2I8X9
A	-11	HIS	-	expression tag	UNP F2I8X9
A	-10	HIS	-	expression tag	UNP F2I8X9
A	-9	HIS	-	expression tag	UNP F2I8X9
A	-8	HIS	-	expression tag	UNP F2I8X9
A	-7	SER	-	expression tag	UNP F2I8X9
A	-6	SER	-	expression tag	UNP F2I8X9
A	-5	GLY	-	expression tag	UNP F2I8X9
A	-4	LEU	-	expression tag	UNP F2I8X9
A	-3	VAL	-	expression tag	UNP F2I8X9
A	-2	PRO	-	expression tag	UNP F2I8X9
A	-1	ARG	-	expression tag	UNP F2I8X9
A	0	GLY	-	expression tag	UNP F2I8X9
A	1	SER	-	expression tag	UNP F2I8X9
B	-17	MET	-	initiating methionine	UNP F2I8X9
B	-16	GLY	-	expression tag	UNP F2I8X9

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-15	SER	-	expression tag	UNP F2I8X9
B	-14	SER	-	expression tag	UNP F2I8X9
B	-13	HIS	-	expression tag	UNP F2I8X9
B	-12	HIS	-	expression tag	UNP F2I8X9
B	-11	HIS	-	expression tag	UNP F2I8X9
B	-10	HIS	-	expression tag	UNP F2I8X9
B	-9	HIS	-	expression tag	UNP F2I8X9
B	-8	HIS	-	expression tag	UNP F2I8X9
B	-7	SER	-	expression tag	UNP F2I8X9
B	-6	SER	-	expression tag	UNP F2I8X9
B	-5	GLY	-	expression tag	UNP F2I8X9
B	-4	LEU	-	expression tag	UNP F2I8X9
B	-3	VAL	-	expression tag	UNP F2I8X9
B	-2	PRO	-	expression tag	UNP F2I8X9
B	-1	ARG	-	expression tag	UNP F2I8X9
B	0	GLY	-	expression tag	UNP F2I8X9
B	1	SER	-	expression tag	UNP F2I8X9
C	-17	MET	-	initiating methionine	UNP F2I8X9
C	-16	GLY	-	expression tag	UNP F2I8X9
C	-15	SER	-	expression tag	UNP F2I8X9
C	-14	SER	-	expression tag	UNP F2I8X9
C	-13	HIS	-	expression tag	UNP F2I8X9
C	-12	HIS	-	expression tag	UNP F2I8X9
C	-11	HIS	-	expression tag	UNP F2I8X9
C	-10	HIS	-	expression tag	UNP F2I8X9
C	-9	HIS	-	expression tag	UNP F2I8X9
C	-8	HIS	-	expression tag	UNP F2I8X9
C	-7	SER	-	expression tag	UNP F2I8X9
C	-6	SER	-	expression tag	UNP F2I8X9
C	-5	GLY	-	expression tag	UNP F2I8X9
C	-4	LEU	-	expression tag	UNP F2I8X9
C	-3	VAL	-	expression tag	UNP F2I8X9
C	-2	PRO	-	expression tag	UNP F2I8X9
C	-1	ARG	-	expression tag	UNP F2I8X9
C	0	GLY	-	expression tag	UNP F2I8X9
C	1	SER	-	expression tag	UNP F2I8X9
D	-17	MET	-	initiating methionine	UNP F2I8X9
D	-16	GLY	-	expression tag	UNP F2I8X9
D	-15	SER	-	expression tag	UNP F2I8X9
D	-14	SER	-	expression tag	UNP F2I8X9
D	-13	HIS	-	expression tag	UNP F2I8X9
D	-12	HIS	-	expression tag	UNP F2I8X9

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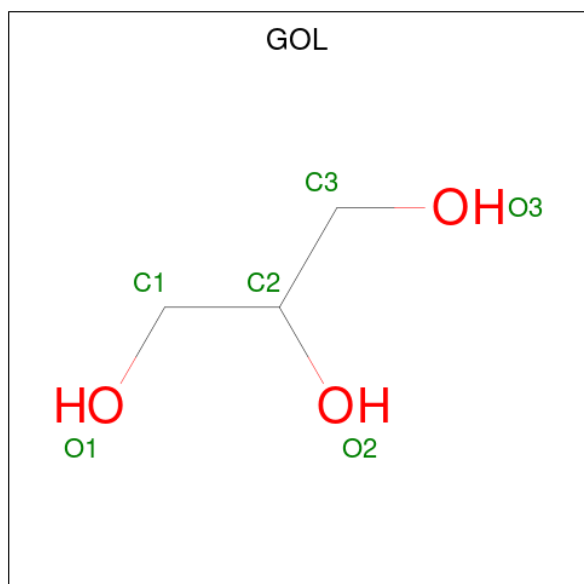
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Chain	Residue	Modelled	Actual	Comment	Reference
D	-11	HIS	-	expression tag	UNP F2I8X9
D	-10	HIS	-	expression tag	UNP F2I8X9
D	-9	HIS	-	expression tag	UNP F2I8X9
D	-8	HIS	-	expression tag	UNP F2I8X9
D	-7	SER	-	expression tag	UNP F2I8X9
D	-6	SER	-	expression tag	UNP F2I8X9
D	-5	GLY	-	expression tag	UNP F2I8X9
D	-4	LEU	-	expression tag	UNP F2I8X9
D	-3	VAL	-	expression tag	UNP F2I8X9
D	-2	PRO	-	expression tag	UNP F2I8X9
D	-1	ARG	-	expression tag	UNP F2I8X9
D	0	GLY	-	expression tag	UNP F2I8X9
D	1	SER	-	expression tag	UNP F2I8X9

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Ca 1 1	0	0
2	B	2	Total Ca 2 2	0	0
2	C	2	Total Ca 2 2	0	0
2	D	1	Total Ca 1 1	0	0

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



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

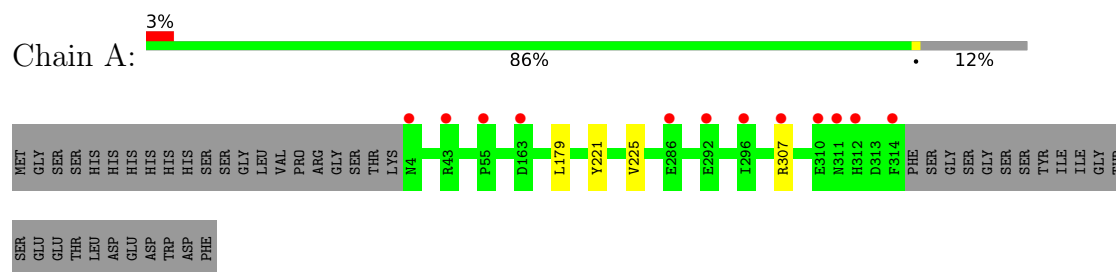
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	189	Total	O	0	0
			189	189		
4	B	201	Total	O	0	0
			201	201		
4	C	187	Total	O	0	0
			187	187		
4	D	143	Total	O	0	0
			143	143		

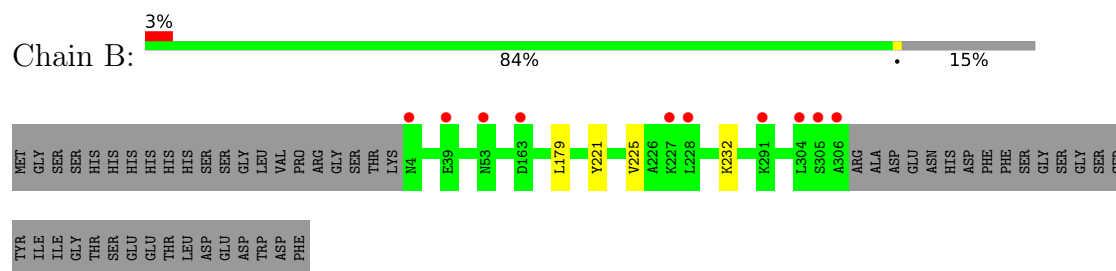
3 Residue-property plots [i](#)

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.

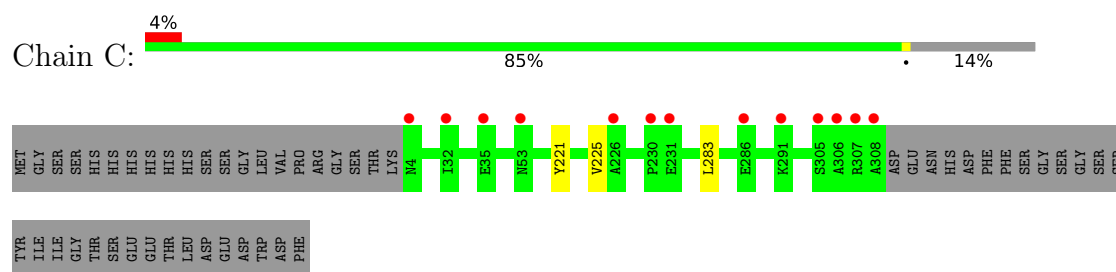
- Molecule 1: Ribonucleoside-diphosphate reductase, beta subunit



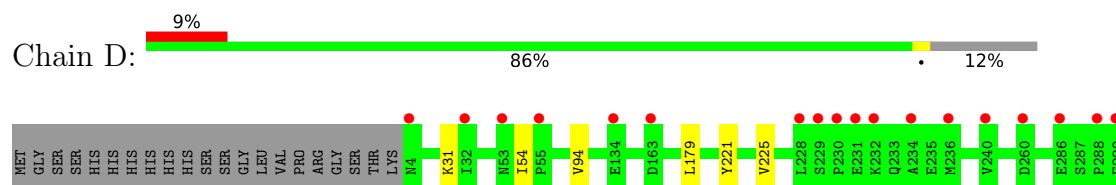
- Molecule 1: Ribonucleoside-diphosphate reductase, beta subunit

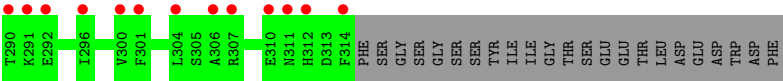


- Molecule 1: Ribonucleoside-diphosphate reductase, beta subunit



- Molecule 1: Ribonucleoside-diphosphate reductase, beta subunit





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	79.85Å 109.07Å 83.73Å 90.00° 90.04° 90.00°	Depositor
Resolution (Å)	39.67 – 1.58 39.67 – 1.58	Depositor EDS
% Data completeness (in resolution range)	96.5 (39.67-1.58) 97.1 (39.67-1.58)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.17 (at 1.58Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
R, R_{free}	0.162 , 0.172 0.187 , 0.199	Depositor DCC
R_{free} test set	9453 reflections (4.25%)	wwPDB-VP
Wilson B-factor (Å ²)	12.8	Xtriage
Anisotropy	0.040	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 29.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Estimated twinning fraction	0.000 for l,k,-h 0.126 for h,-k,-l 0.002 for l,-k,h	Xtriage
Reported twinning fraction	0.604 for H, K, L 0.396 for h,-k,-l	Depositor
Outliers	0 of 189253 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	10774	wwPDB-VP
Average B, all atoms (Å ²)	13.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.78% 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, CA

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	0.52	0/2602	0.75	0/3534
1	B	0.50	0/2530	0.74	0/3437
1	C	0.51	0/2546	0.74	0/3458
1	D	0.51	0/2602	0.74	0/3534
All	All	0.51	0/10280	0.75	0/13963

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 [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	2537	0	2460	1	0
1	B	2467	0	2406	1	0
1	C	2483	0	2424	1	0
1	D	2537	0	2460	2	0
2	A	1	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	1	0	0	0	0
3	B	12	0	14	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	12	0	12	0	0
4	A	189	0	0	0	0
4	B	201	0	0	0	0
4	C	187	0	0	0	0
4	D	143	0	0	0	0
All	All	10774	0	9776	5	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 0.

All (5) 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:221:TYR:CZ	1:A:225:VAL:HG11	2.48	0.48
1:D:221:TYR:CZ	1:D:225:VAL:HG11	2.53	0.44
1:B:221:TYR:CZ	1:B:225:VAL:HG11	2.55	0.41
1:D:54:ILE:HD12	1:D:54:ILE:N	2.36	0.41
1:C:221:TYR:CZ	1:C:225:VAL:HG11	2.55	0.41

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	309/355 (87%)	307 (99%)	2 (1%)	0	100	100
1	B	301/355 (85%)	299 (99%)	2 (1%)	0	100	100
1	C	303/355 (85%)	301 (99%)	2 (1%)	0	100	100
1	D	309/355 (87%)	306 (99%)	3 (1%)	0	100	100
All	All	1222/1420 (86%)	1213 (99%)	9 (1%)	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	273/311 (88%)	271 (99%)	2 (1%)	76	61
1	B	266/311 (86%)	264 (99%)	2 (1%)	73	57
1	C	267/311 (86%)	266 (100%)	1 (0%)	84	75
1	D	273/311 (88%)	270 (99%)	3 (1%)	65	43
All	All	1079/1244 (87%)	1071 (99%)	8 (1%)	76	61

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	179	LEU
1	A	307	ARG
1	B	179	LEU
1	B	232	LYS
1	C	283	LEU
1	D	31	LYS
1	D	94	VAL
1	D	179	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	99	ASN
1	A	111	ASN
1	A	256	HIS
1	A	311	ASN
1	B	20	GLN
1	B	30	ASN
1	B	111	ASN
1	B	256	HIS
1	B	282	ASN

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Mol	Chain	Res	Type
1	C	256	HIS
1	D	20	GLN
1	D	111	ASN
1	D	256	HIS
1	D	311	ASN
1	D	312	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 6 are monoatomic - leaving 4 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	$\# Z > 2$
3	GOL	C	404	2	5,5,5	0.31	0	5,5,5	0.17	0
3	GOL	B	404	2	5,5,5	0.29	0	5,5,5	0.26	0
3	GOL	B	403	2	5,5,5	0.29	0	5,5,5	0.25	0
3	GOL	C	403	2	5,5,5	0.38	0	5,5,5	0.25	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
3	GOL	C	404	2	-	0/4/4/4	-
3	GOL	B	404	2	-	1/4/4/4	-
3	GOL	B	403	2	-	2/4/4/4	-
3	GOL	C	403	2	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	403	GOL	C1-C2-C3-O3
3	B	403	GOL	O2-C2-C3-O3
3	C	403	GOL	O1-C1-C2-O2
3	C	403	GOL	O1-C1-C2-C3
3	B	404	GOL	O1-C1-C2-O2

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	311/355 (87%)	0.40	12 (3%) 43 55	6, 12, 21, 29	0
1	B	303/355 (85%)	0.21	10 (3%) 49 62	6, 11, 20, 26	0
1	C	305/355 (85%)	0.37	13 (4%) 40 52	8, 12, 22, 33	0
1	D	311/355 (87%)	0.72	31 (9%) 12 20	8, 15, 28, 38	0
All	All	1230/1420 (86%)	0.43	66 (5%) 31 42	6, 12, 23, 38	0

All (66) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	308	ALA	4.4
1	B	163	ASP	4.1
1	A	310	GLU	3.9
1	D	231	GLU	3.8
1	D	292	GLU	3.7
1	A	314	PHE	3.7
1	D	53	ASN	3.7
1	A	55	PRO	3.6
1	C	306	ALA	3.6
1	B	304	LEU	3.6
1	B	53	ASN	3.5
1	D	234	ALA	3.3
1	D	230	PRO	3.3
1	A	292	GLU	3.2
1	A	307	ARG	3.2
1	D	286	GLU	3.1
1	C	305	SER	3.1
1	D	55	PRO	3.1
1	C	307	ARG	3.0
1	B	305	SER	3.0
1	D	310	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	D	163	ASP	3.0
1	B	306	ALA	2.9
1	D	300	VAL	2.9
1	D	232	LYS	2.9
1	D	134	GLU	2.9
1	D	311	ASN	2.8
1	C	231	GLU	2.8
1	D	228	LEU	2.8
1	A	311	ASN	2.7
1	D	4	ASN	2.7
1	D	314	PHE	2.7
1	C	35	GLU	2.7
1	B	228	LEU	2.6
1	D	304	LEU	2.6
1	C	32	ILE	2.5
1	C	53	ASN	2.5
1	D	307	ARG	2.5
1	B	227	LYS	2.5
1	A	4	ASN	2.5
1	C	291	LYS	2.5
1	C	286	GLU	2.4
1	A	163	ASP	2.4
1	A	286	GLU	2.4
1	A	43	ARG	2.4
1	D	236	MET	2.4
1	C	4	ASN	2.4
1	D	260	ASP	2.3
1	A	312	HIS	2.3
1	D	229	SER	2.3
1	D	291	LYS	2.2
1	A	296	ILE	2.2
1	B	39	GLU	2.2
1	D	296	ILE	2.2
1	D	306	ALA	2.2
1	D	290	THR	2.2
1	D	289	PHE	2.2
1	D	288	PRO	2.1
1	D	32	ILE	2.1
1	D	301	PHE	2.1
1	C	230	PRO	2.1
1	C	226	ALA	2.1
1	B	291	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	D	312	HIS	2.1
1	B	4	ASN	2.1
1	D	240	VAL	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(Å ²)	Q<0.9
3	GOL	B	403	6/6	0.78	0.19	25,26,26,27	0
3	GOL	C	404	6/6	0.83	0.15	23,23,23,23	0
3	GOL	C	403	6/6	0.87	0.14	20,21,21,22	0
3	GOL	B	404	6/6	0.87	0.16	19,19,20,20	0
2	CA	B	402	1/1	0.98	0.07	17,17,17,17	0
2	CA	C	402	1/1	0.98	0.09	16,16,16,16	0
2	CA	B	401	1/1	0.99	0.03	11,11,11,11	0
2	CA	D	401	1/1	0.99	0.02	12,12,12,12	0
2	CA	A	401	1/1	0.99	0.02	11,11,11,11	0
2	CA	C	401	1/1	1.00	0.01	11,11,11,11	0

6.5 Other polymers [i](#)

There are no such residues in this entry.