



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 10:42 AM UTC

PDB ID : 3BCT / pdb_00003bct
Title : THE ARMADILLO REPEAT REGION FROM MURINE BETA-CATENIN
Authors : Huber, A.H.; Nelson, W.J.; Weis, W.I.
Deposited on : 1997-07-31
Resolution : 2.10 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

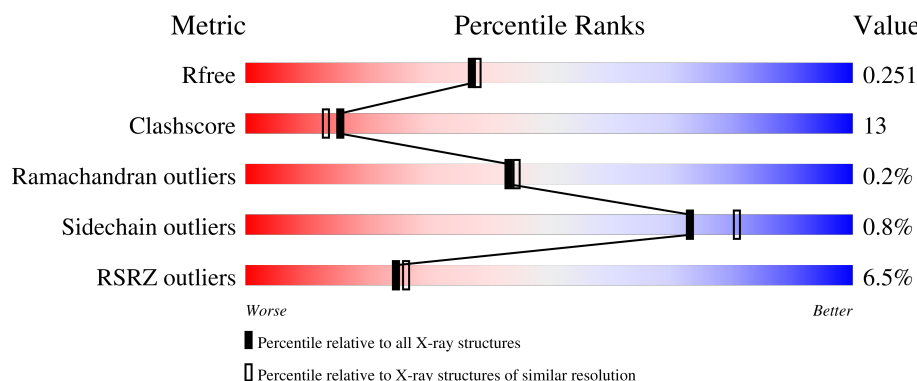
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	470	

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	URE	A	980	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3761 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 BETA-CATENIN.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	457	3473	2185	627	635	11	15	0	5	0

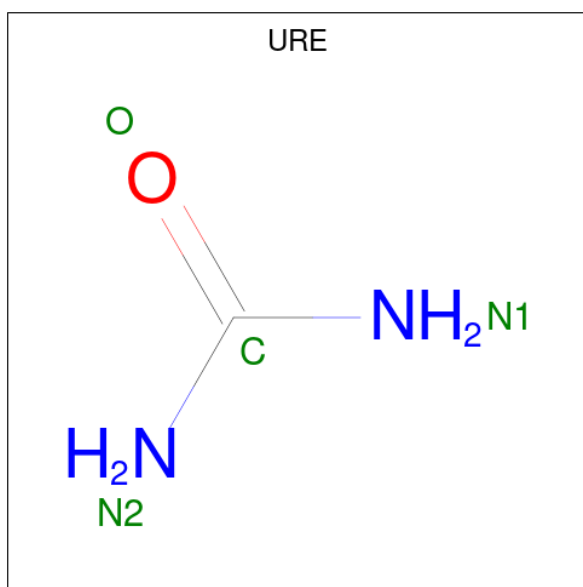
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	194	MSE	MET	modified residue	UNP Q02248
A	202	MSE	MET	modified residue	UNP Q02248
A	243	MSE	MET	modified residue	UNP Q02248
A	271	MSE	MET	modified residue	UNP Q02248
A	282	MSE	MET	modified residue	UNP Q02248
A	328	MSE	MET	modified residue	UNP Q02248
A	363	MSE	MET	modified residue	UNP Q02248
A	398	MSE	MET	modified residue	UNP Q02248
A	436	MSE	MET	modified residue	UNP Q02248
A	437	MSE	MET	modified residue	UNP Q02248
A	480	MSE	MET	modified residue	UNP Q02248
A	566	MSE	MET	modified residue	UNP Q02248

- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Cl	0	0
			1	1		

- Molecule 3 is UREA (CCD ID: URE) (formula: CH₄N₂O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			3	1	1	1		
3	A	1	Total	C	N	O	0	0
			4	1	2	1		
3	A	1	Total	C	N	O	0	0
			4	1	2	1		
3	A	1	Total	C	N	O	0	0
			4	1	2	1		
3	A	1	Total	C	N	O	0	0
			4	1	2	1		
3	A	1	Total	C	N	O	0	0
			4	1	2	1		
3	A	1	Total	C	N	O	0	0
			4	1	2	1		

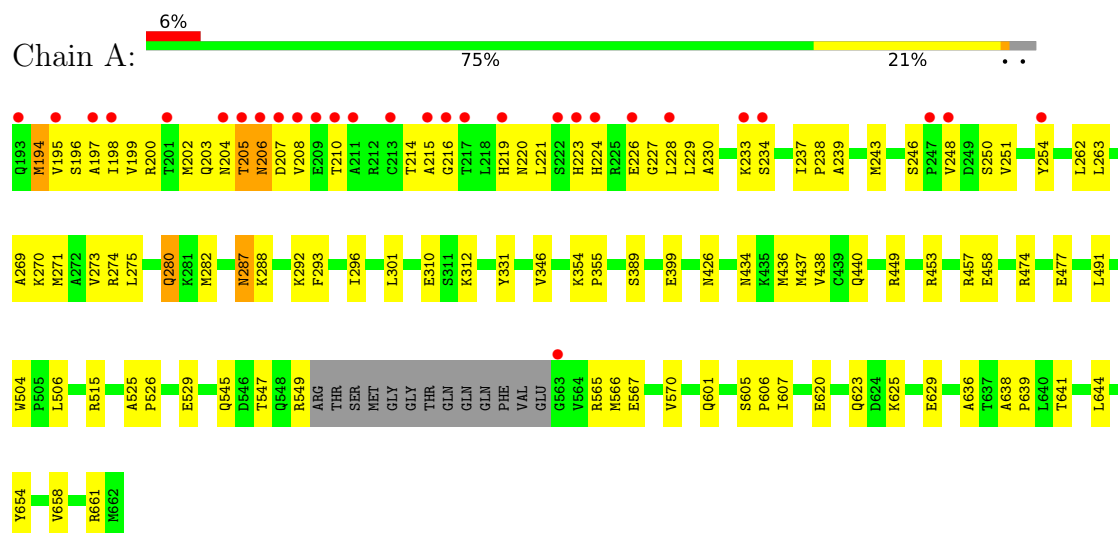
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	256	Total	O	0	0
			256	256		

3 Residue-property plots

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: BETA-CATENIN



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	64.10Å 102.00Å 187.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 2.10 10.00 – 2.10	Depositor EDS
% Data completeness (in resolution range)	95.6 (10.00-2.10) 97.3 (10.00-2.10)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.91 (at 2.10Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.229 , 0.260 0.223 , 0.251	Depositor DCC
R_{free} test set	6450 reflections (9.73%)	wwPDB-VP
Wilson B-factor (Å ²)	22.0	Xtriage
Anisotropy	0.474	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.46 , 69.6	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	0.93	EDS
Total number of atoms	3761	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.61% 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: URE, CL

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	0.56	0/3534	0.99	7/4776 (0.1%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	474	ARG	N-CA-C	8.76	123.33	111.24
1	A	331	TYR	N-CA-C	6.63	120.20	110.59
1	A	208	VAL	N-CA-C	5.85	119.24	111.17
1	A	206	ASN	N-CA-C	-5.70	106.95	114.31
1	A	504	TRP	N-CA-C	5.14	120.59	113.45
1	A	246	SER	CA-C-N	5.07	125.52	120.04
1	A	246	SER	C-N-CA	5.07	125.52	120.04

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	3473	0	3597	96	0
2	A	1	0	0	0	0
3	A	31	0	30	0	2
4	A	256	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	3761	0	3627	96	2

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 13.

All (96) 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:202:MSE:HB2	1:A:214:THR:HG21	1.37	1.03
1:A:202:MSE:HB2	1:A:214:THR:CG2	2.01	0.91
1:A:399:GLU:HG3	1:A:437[B]:MSE:SE	2.29	0.82
1:A:436:MSE:O	1:A:440:GLN:HG3	1.80	0.82
1:A:194:MSE:HA	1:A:194:MSE:HE3	1.63	0.81
1:A:270:LYS:O	1:A:274:ARG:HG3	1.83	0.78
1:A:280:GLN:NE2	1:A:280:GLN:H	1.82	0.77
1:A:280:GLN:H	1:A:280:GLN:HE21	1.33	0.77
1:A:205:THR:HG22	1:A:207:ASP:H	1.51	0.74
1:A:243:MSE:HE2	1:A:243:MSE:HA	1.70	0.73
1:A:248:VAL:HB	1:A:251:VAL:HG23	1.74	0.70
1:A:620:GLU:O	1:A:623:GLN:HG2	1.92	0.70
1:A:198:ILE:HG23	1:A:214:THR:HG23	1.72	0.69
1:A:623:GLN:HB3	1:A:661:ARG:NH1	2.08	0.69
1:A:205:THR:HG22	1:A:207:ASP:N	2.10	0.66
1:A:269:ALA:O	1:A:273:VAL:HG23	1.96	0.65
1:A:198:ILE:CG2	1:A:214:THR:HG23	2.27	0.64
1:A:194:MSE:HE2	1:A:198:ILE:HG13	1.80	0.63
1:A:310[A]:GLU:HG2	4:A:713:HOH:O	1.98	0.63
1:A:226:GLU:HG3	1:A:227:GLY:N	2.16	0.61
1:A:224:HIS:HB2	1:A:226:GLU:HG2	1.83	0.60
1:A:205:THR:HG22	1:A:206:ASN:N	2.16	0.60
1:A:205:THR:HG21	1:A:210:THR:OG1	2.03	0.59
1:A:547:THR:HG22	1:A:567:GLU:OE2	2.03	0.59
1:A:226:GLU:HG3	1:A:227:GLY:H	1.66	0.59
1:A:271[B]:MSE:HE3	1:A:275:LEU:HD21	1.84	0.59
1:A:263:LEU:HD21	1:A:273:VAL:HG21	1.85	0.59
1:A:228:LEU:HD22	1:A:262:LEU:HD23	1.86	0.56
1:A:195:VAL:HG11	1:A:230:ALA:HB1	1.87	0.56
1:A:549:ARG:HH11	1:A:549:ARG:HG2	1.71	0.56
1:A:195:VAL:HG23	1:A:196:SER:N	2.19	0.55
1:A:515:ARG:HD3	1:A:515:ARG:C	2.32	0.55
1:A:566:MSE:HA	1:A:566:MSE:HE2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:VAL:HB	1:A:251:VAL:CG2	2.36	0.55
1:A:205:THR:HG21	1:A:210:THR:CB	2.37	0.54
1:A:202:MSE:CB	1:A:214:THR:HG21	2.24	0.54
1:A:221:LEU:O	1:A:227:GLY:HA3	2.08	0.53
1:A:458:GLU:HG2	1:A:506:LEU:HD22	1.91	0.52
1:A:545:GLN:NE2	4:A:947:HOH:O	2.42	0.52
1:A:436:MSE:SE	1:A:477:GLU:HG2	2.59	0.52
1:A:453:ARG:O	1:A:457:ARG:NH2	2.43	0.51
1:A:449:ARG:HH11	1:A:449:ARG:HG2	1.74	0.51
1:A:654:TYR:O	1:A:658:VAL:HG23	2.10	0.51
1:A:525:ALA:O	1:A:529:GLU:HG3	2.10	0.50
1:A:641:THR:O	1:A:644:LEU:HB2	2.11	0.50
1:A:220:ASN:HA	1:A:223:HIS:CE1	2.46	0.50
1:A:434:ASN:O	1:A:438:VAL:HG23	2.11	0.50
1:A:194:MSE:HE3	1:A:197:ALA:HB3	1.93	0.50
1:A:607:ILE:HD12	1:A:607:ILE:N	2.27	0.50
1:A:195:VAL:CG2	1:A:196:SER:N	2.75	0.49
1:A:625:LYS:HE3	1:A:629:GLU:OE2	2.13	0.49
1:A:399:GLU:H	1:A:399:GLU:CD	2.20	0.49
1:A:196:SER:HA	1:A:234:SER:OG	2.13	0.49
1:A:565:ARG:HB3	1:A:567:GLU:OE1	2.12	0.49
1:A:194:MSE:O	1:A:198:ILE:HG13	2.13	0.49
1:A:194:MSE:CE	1:A:197:ALA:HB3	2.42	0.48
1:A:566:MSE:O	1:A:570:VAL:HG23	2.13	0.48
1:A:491:LEU:HD12	1:A:526:PRO:HB2	1.96	0.48
1:A:354:LYS:HB3	1:A:355:PRO:CD	2.44	0.47
1:A:198:ILE:O	1:A:214:THR:HG21	2.14	0.47
1:A:638:ALA:HB3	1:A:639:PRO:CD	2.45	0.47
1:A:312:LYS:HE2	1:A:346:VAL:CG1	2.45	0.46
1:A:287:ASN:HD22	1:A:287:ASN:N	2.13	0.46
1:A:203:GLN:O	1:A:203:GLN:HG2	2.16	0.46
1:A:200:ARG:O	1:A:204:ASN:ND2	2.48	0.46
1:A:239:ALA:O	1:A:243:MSE:HG2	2.15	0.45
1:A:205:THR:HG21	1:A:210:THR:HB	1.97	0.45
1:A:399:GLU:HG3	1:A:437[A]:MSE:HE3	1.98	0.45
1:A:215:ALA:HB1	1:A:254:TYR:CB	2.47	0.45
1:A:243:MSE:HE2	1:A:243:MSE:CA	2.44	0.45
1:A:282:MSE:HB2	1:A:301:LEU:HD21	1.99	0.45
1:A:567:GLU:H	1:A:567:GLU:CD	2.24	0.45
1:A:229:LEU:O	1:A:233:LYS:HG2	2.16	0.45
1:A:248:VAL:HG12	1:A:250:SER:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:MSE:HA	1:A:194:MSE:CE	2.42	0.44
1:A:195:VAL:O	1:A:199:VAL:HG23	2.17	0.44
1:A:224:HIS:CB	1:A:226:GLU:HG2	2.47	0.44
1:A:205:THR:CG2	1:A:206:ASN:N	2.81	0.43
1:A:228:LEU:CD2	1:A:262:LEU:HD23	2.48	0.43
1:A:549:ARG:HG2	1:A:549:ARG:NH1	2.33	0.43
1:A:287:ASN:HD22	1:A:287:ASN:H	1.64	0.43
1:A:449:ARG:HG2	1:A:449:ARG:NH1	2.33	0.43
1:A:601:GLN:HA	1:A:601:GLN:OE1	2.18	0.43
1:A:220:ASN:HA	1:A:223:HIS:ND1	2.33	0.43
1:A:237:ILE:HB	1:A:238:PRO:HD3	2.01	0.43
1:A:636:ALA:O	1:A:639:PRO:HG2	2.19	0.42
1:A:288:LYS:HG3	1:A:293:PHE:CE2	2.54	0.42
1:A:280:GLN:HE21	1:A:280:GLN:N	2.09	0.42
1:A:203:GLN:O	1:A:203:GLN:CG	2.68	0.42
1:A:226:GLU:O	1:A:229:LEU:HB2	2.20	0.41
1:A:607:ILE:N	1:A:607:ILE:CD1	2.84	0.41
1:A:389:SER:O	1:A:426:ASN:HB3	2.21	0.41
1:A:216:GLY:O	1:A:219:HIS:HB3	2.21	0.41
1:A:292:LYS:O	1:A:296:ILE:HG12	2.21	0.41
1:A:605:SER:HA	1:A:606:PRO:HD3	1.85	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:980:URE:C	3:A:980:URE:O[4_566]	1.22	0.98
3:A:980:URE:C	3:A:980:URE:N1[4_566]	1.34	0.86

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	458/470 (97%)	441 (96%)	16 (4%)	1 (0%)	43	44

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	205	THR

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	378/374 (101%)	375 (99%)	3 (1%)	73	81

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	194	MSE
1	A	280	GLN
1	A	287	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	261	ASN
1	A	280	GLN
1	A	287	ASN
1	A	302	GLN
1	A	309	GLN
1	A	379	GLN
1	A	585	HIS
1	A	594	ASN

5.3.3 RNA ⓘ

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 9 ligands modelled in this entry, 1 is monoatomic - leaving 8 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	URE	A	980	-	2,2,3	0.78	0	1,1,3	0.73	0
3	URE	A	983	-	3,3,3	0.69	0	3,3,3	0.55	0
3	URE	A	987	-	3,3,3	0.76	0	3,3,3	0.70	0
3	URE	A	981	-	3,3,3	0.47	0	3,3,3	0.43	0
3	URE	A	985	-	3,3,3	0.63	0	3,3,3	0.55	0
3	URE	A	984	-	3,3,3	0.91	0	3,3,3	0.66	0
3	URE	A	982	-	3,3,3	0.50	0	3,3,3	0.38	0
3	URE	A	986	-	3,3,3	0.62	0	3,3,3	0.70	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	980	URE	0	2

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	444/470 (94%)	-0.09	29 (6%) 25 26	11, 22, 55, 67	3 (0%)

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	210	THR	4.5
1	A	213	CYS	4.4
1	A	193	GLN	4.4
1	A	209	GLU	3.3
1	A	205	THR	3.3
1	A	248	VAL	3.2
1	A	234	SER	3.1
1	A	211	ALA	3.1
1	A	216	GLY	3.0
1	A	195	VAL	3.0
1	A	224	HIS	2.9
1	A	247	PRO	2.9
1	A	204	ASN	2.8
1	A	207	ASP	2.8
1	A	208	VAL	2.6
1	A	219	HIS	2.6
1	A	198	ILE	2.5
1	A	233	LYS	2.5
1	A	563	GLY	2.4
1	A	215	ALA	2.3
1	A	228	LEU	2.2
1	A	226	GLU	2.2
1	A	222	SER	2.2
1	A	254	TYR	2.1
1	A	197	ALA	2.1
1	A	206	ASN	2.0
1	A	217	THR	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	223	HIS	2.0
1	A	201	THR	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	URE	A	982	4/4	0.75	0.13	35,38,39,40	0
3	URE	A	986	4/4	0.81	0.10	40,41,41,42	0
3	URE	A	985	4/4	0.91	0.09	36,36,37,38	0
3	URE	A	983	4/4	0.92	0.06	25,26,28,29	0
3	URE	A	981	4/4	0.95	0.05	20,20,25,25	0
3	URE	A	984	4/4	0.96	0.07	25,26,26,26	0
3	URE	A	987	4/4	0.96	0.08	21,24,26,28	0
3	URE	A	980	3/4	0.98	0.09	36,36,36,36	0
2	CL	A	701	1/1	0.99	0.11	12,12,12,12	1

6.5 Other polymers [i](#)

There are no such residues in this entry.