



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 19, 2023 – 07:33 AM EST

PDB ID : 1IOD
Title : CRYSTAL STRUCTURE OF THE COMPLEX BETWEEN THE COAGULATION FACTOR X BINDING PROTEIN FROM SNAKE VENOM AND THE GLA DOMAIN OF FACTOR X
Authors : Mizuno, H.; Fujimoto, Z.; Atoda, H.; Morita, T.
Deposited on : 2001-02-27
Resolution : 2.30 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

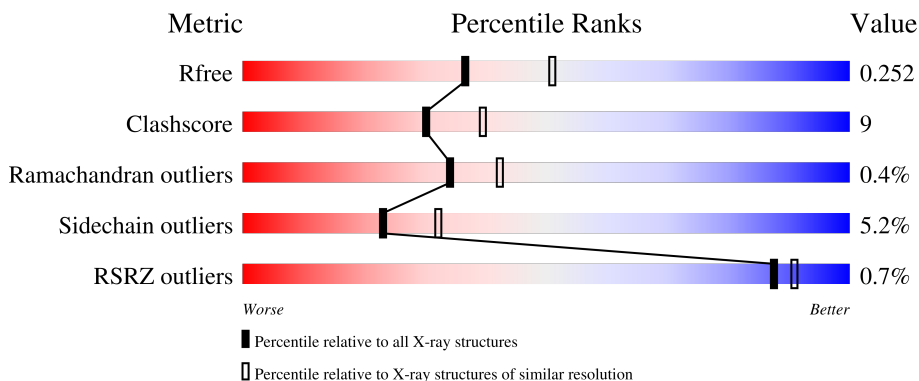
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	129	
2	B	123	
3	G	44	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 2653 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 COAGULATION FACTOR X BINDING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	129	1032	650	172	203	7	0	0	0

- Molecule 2 is a protein called COAGULATION FACTOR X BINDING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	123	1027	659	166	192	10	0	0	0

- Molecule 3 is a protein called COAGULATION FACTOR X GLA DOMAIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	G	44	401	236	57	106	2	0	0	0

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	3	Total 3	Ca 3	0	0
4	B	1	Total 1	Ca 1	0	0
4	G	8	Total 8	Ca 8	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	79	Total 79	O 79	0	0
5	B	55	Total 55	O 55	0	0

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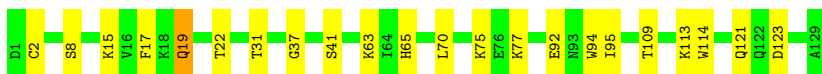
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	G	47	Total	O	0	0
			47	47		

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.

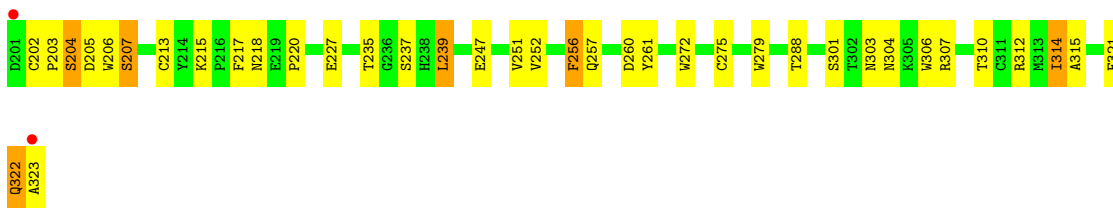
- Molecule 1: COAGULATION FACTOR X BINDING PROTEIN

Chain A:  83% 16%



- Molecule 2: COAGULATION FACTOR X BINDING PROTEIN

Chain B:  2% 69% 26% 5%



- Molecule 3: COAGULATION FACTOR X GLA DOMAIN

Chain G:  75% 23%



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	99.76Å 99.76Å 90.42Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.30 70.54 – 2.30	Depositor EDS
% Data completeness (in resolution range)	(Not available) (30.00-2.30) 96.4 (70.54-2.30)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.34 (at 2.29Å)	Xtrriage
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.201 , 0.267 0.198 , 0.252	Depositor DCC
R_{free} test set	1986 reflections (9.88%)	wwPDB-VP
Wilson B-factor (Å ²)	23.4	Xtrriage
Anisotropy	0.244	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 57.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2653	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.39% 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: CA, CGU

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	0.41	0/1059	0.66	1/1425 (0.1%)
2	B	0.44	0/1064	0.66	0/1445
3	G	0.43	0/253	0.77	0/324
All	All	0.43	0/2376	0.67	1/3194 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	95	ILE	N-CA-C	-5.18	97.00	111.00

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	1032	0	954	17	0
2	B	1027	0	913	28	0
3	G	401	0	296	5	0
4	A	3	0	0	0	0
4	B	1	0	0	0	0
4	G	8	0	0	0	0
5	A	79	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	55	0	0	1	0
5	G	47	0	0	1	0
All	All	2653	0	2163	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 9.

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)
2:B:220:PRO:HB3	2:B:314:ILE:HG23	1.61	0.80
1:A:77:LYS:HG2	1:A:94:TRP:CD1	2.23	0.74
1:A:17:PHE:HB3	1:A:19:GLN:HE22	1.53	0.73
3:G:428:ARG:HD3	5:G:187:HOH:O	1.89	0.73
1:A:17:PHE:HB3	1:A:19:GLN:NE2	2.08	0.68
2:B:322:GLN:HG3	2:B:323:ALA:N	2.11	0.64
1:A:22:THR:HA	1:A:121:GLN:O	2.02	0.59
2:B:215:LYS:HE3	2:B:217:PHE:CE2	2.44	0.53
2:B:261:TYR:HA	2:B:301:SER:OG	2.10	0.52
2:B:261:TYR:HA	2:B:301:SER:HG	1.75	0.52
1:A:15:LYS:HD3	1:A:17:PHE:CZ	2.46	0.50
2:B:310:THR:OG1	2:B:312:ARG:HG2	2.12	0.50
2:B:218:ASN:O	2:B:220:PRO:HD3	2.11	0.50
2:B:215:LYS:HE3	2:B:217:PHE:CZ	2.47	0.49
3:G:433:ASP:OD2	3:G:436:GLN:HG3	2.13	0.49
2:B:315:ALA:HA	5:B:550:HOH:O	2.12	0.49
1:A:63:LYS:HD3	3:G:444:TYR:CE2	2.49	0.48
2:B:207:SER:O	2:B:213:CYS:HA	2.13	0.47
2:B:227:GLU:HB2	2:B:239:LEU:HD22	1.96	0.47
1:A:65:HIS:O	1:A:123:ASP:HB3	2.15	0.46
1:A:92:GLU:HA	2:B:306:TRP:CH2	2.51	0.46
2:B:203:PRO:O	2:B:205:ASP:N	2.49	0.46
1:A:114:TRP:CH2	2:B:288:THR:HA	2.50	0.45
2:B:237:SER:HA	2:B:321:PHE:HB3	1.98	0.45
2:B:272:TRP:HA	2:B:275:CYS:SG	2.57	0.45
1:A:109:THR:HG21	1:A:113:LYS:HB2	1.98	0.45
1:A:31:THR:HG22	1:A:37:GLY:O	2.17	0.44
2:B:314:ILE:HG22	3:G:408:VAL:HG21	1.99	0.44
3:G:416:CGU:O	3:G:422:CYS:HB3	2.18	0.44
1:A:75:LYS:HB3	1:A:75:LYS:HE2	1.82	0.43
1:A:41:SER:HA	2:B:279:TRP:CE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:CYS:SG	1:A:8:SER:OG	2.74	0.42
2:B:202:CYS:HA	2:B:203:PRO:HD3	1.76	0.42
2:B:247:GLU:O	2:B:251:VAL:HG23	2.19	0.42
2:B:252:VAL:HG21	2:B:304:ASN:HB3	2.02	0.42
1:A:77:LYS:HG2	1:A:94:TRP:CG	2.52	0.42
1:A:41:SER:HA	2:B:279:TRP:CZ3	2.55	0.42
2:B:206:TRP:HE1	2:B:215:LYS:HZ3	1.68	0.41
2:B:303:ASN:HD21	2:B:307:ARG:NH2	2.19	0.41
2:B:203:PRO:O	2:B:205:ASP:OD1	2.37	0.41
2:B:239:LEU:HD12	2:B:239:LEU:HA	1.94	0.41
2:B:256:PHE:HD1	2:B:260:ASP:HA	1.85	0.41
1:A:114:TRP:CZ3	2:B:288:THR:HA	2.56	0.41

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	127/129 (98%)	122 (96%)	5 (4%)	0	100	100
2	B	121/123 (98%)	109 (90%)	11 (9%)	1 (1%)	19	23
3	G	30/44 (68%)	29 (97%)	1 (3%)	0	100	100
All	All	278/296 (94%)	260 (94%)	17 (6%)	1 (0%)	34	42

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	204	SER

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	112/112 (100%)	110 (98%)	2 (2%)	59	75
2	B	110/110 (100%)	102 (93%)	8 (7%)	14	18
3	G	27/27 (100%)	24 (89%)	3 (11%)	6	7
All	All	249/249 (100%)	236 (95%)	13 (5%)	23	32

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	GLN
1	A	70	LEU
2	B	204	SER
2	B	207	SER
2	B	235	THR
2	B	239	LEU
2	B	256	PHE
2	B	257	GLN
2	B	314	ILE
2	B	322	GLN
3	G	405	LEU
3	G	424	LEU
3	G	438	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	19	GLN
1	A	57	GLN
2	B	257	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

12 non-standard protein/DNA/RNA residues 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
3	CGU	G	435	4,3	9,11,12	1.23	0	9,14,16	0.79	0
3	CGU	G	416	4,3	9,11,12	1.10	0	9,14,16	1.26	2 (22%)
3	CGU	G	406	4,3	9,11,12	1.10	0	9,14,16	1.00	0
3	CGU	G	420	4,3	9,11,12	1.10	0	9,14,16	0.87	0
3	CGU	G	426	4,3	9,11,12	1.00	0	9,14,16	1.15	1 (11%)
3	CGU	G	432	3	9,11,12	1.10	0	9,14,16	0.69	0
3	CGU	G	439	4,3	9,11,12	1.15	0	9,14,16	0.89	0
3	CGU	G	429	4,3	9,11,12	0.97	0	9,14,16	0.76	0
3	CGU	G	407	4,3	9,11,12	1.03	0	9,14,16	1.00	0
3	CGU	G	414	4,3	9,11,12	1.14	0	9,14,16	0.87	0
3	CGU	G	419	4,3	9,11,12	1.05	0	9,14,16	0.72	0
3	CGU	G	425	4,3	9,11,12	0.99	0	9,14,16	0.92	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	CGU	G	435	4,3	-	0/13/14/16	-
3	CGU	G	416	4,3	-	5/13/14/16	-
3	CGU	G	406	4,3	-	4/13/14/16	-
3	CGU	G	420	4,3	-	0/13/14/16	-
3	CGU	G	426	4,3	-	2/13/14/16	-
3	CGU	G	432	3	-	6/13/14/16	-
3	CGU	G	439	4,3	-	5/13/14/16	-
3	CGU	G	429	4,3	-	0/13/14/16	-
3	CGU	G	407	4,3	-	3/13/14/16	-
3	CGU	G	414	4,3	-	2/13/14/16	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	CGU	G	419	4,3	-	0/13/14/16	-
3	CGU	G	425	4,3	-	0/13/14/16	-

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	426	CGU	CB-CG-CD2	-2.36	108.32	113.11
3	G	416	CGU	CB-CG-CD1	-2.21	108.63	113.11
3	G	416	CGU	CB-CG-CD2	-2.11	108.83	113.11

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	G	406	CGU	CA-CB-CG-CD1
3	G	406	CGU	CA-CB-CG-CD2
3	G	406	CGU	OE21-CD2-CG-CD1
3	G	406	CGU	OE22-CD2-CG-CD1
3	G	416	CGU	O-C-CA-CB
3	G	426	CGU	OE22-CD2-CG-CB
3	G	432	CGU	N-CA-CB-CG
3	G	432	CGU	C-CA-CB-CG
3	G	432	CGU	CA-CB-CG-CD1
3	G	432	CGU	CA-CB-CG-CD2
3	G	439	CGU	N-CA-CB-CG
3	G	439	CGU	C-CA-CB-CG
3	G	439	CGU	CA-CB-CG-CD1
3	G	439	CGU	CA-CB-CG-CD2
3	G	407	CGU	OE21-CD2-CG-CB
3	G	407	CGU	OE22-CD2-CG-CB
3	G	416	CGU	OE21-CD2-CG-CB
3	G	426	CGU	OE21-CD2-CG-CB
3	G	432	CGU	OE21-CD2-CG-CB
3	G	432	CGU	OE22-CD2-CG-CB
3	G	414	CGU	OE11-CD1-CG-CB
3	G	414	CGU	OE12-CD1-CG-CB
3	G	416	CGU	OE22-CD2-CG-CB
3	G	439	CGU	OE22-CD2-CG-CB
3	G	407	CGU	OE11-CD1-CG-CD2
3	G	416	CGU	OE21-CD2-CG-CD1

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Mol	Chain	Res	Type	Atoms
3	G	416	CGU	OE22-CD2-CG-CD1

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	416	CGU	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 12 are monoatomic - leaving 0 for Mogul analysis.

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.

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	129/129 (100%)	-0.40	0 100 100	6, 18, 33, 43	0
2	B	123/123 (100%)	-0.05	2 (1%) 72 77	12, 28, 46, 63	0
3	G	32/44 (72%)	-0.39	0 100 100	8, 18, 34, 38	0
All	All	284/296 (95%)	-0.25	2 (0%) 87 91	6, 22, 42, 63	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	201	ASP	4.3
2	B	323	ALA	2.4

6.2 Non-standard residues in protein, DNA, RNA chains [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	CGU	G	432	12/13	0.89	0.14	25,31,36,39	0
3	CGU	G	435	12/13	0.90	0.11	22,47,53,53	0
3	CGU	G	439	12/13	0.91	0.13	27,43,49,50	0
3	CGU	G	425	12/13	0.95	0.12	13,16,20,22	0
3	CGU	G	429	12/13	0.96	0.12	10,14,19,20	0
3	CGU	G	419	12/13	0.96	0.11	15,16,20,22	0
3	CGU	G	420	12/13	0.96	0.10	9,12,16,19	0
3	CGU	G	406	12/13	0.96	0.11	15,17,21,22	0
3	CGU	G	414	12/13	0.97	0.10	10,15,21,25	0
3	CGU	G	426	12/13	0.97	0.11	10,14,17,18	0
3	CGU	G	407	12/13	0.98	0.09	8,13,15,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	CGU	G	416	12/13	0.98	0.08	4,11,12,14	0

6.3 Carbohydrates [i](#)

There are no monosaccharides 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(\AA^2)	Q<0.9
4	CA	G	510	1/1	0.74	0.14	57,57,57,57	0
4	CA	A	511	1/1	0.79	0.10	26,26,26,26	1
4	CA	A	512	1/1	0.93	0.16	19,19,19,19	1
4	CA	B	502	1/1	0.94	0.08	34,34,34,34	0
4	CA	G	507	1/1	0.98	0.12	12,12,12,12	0
4	CA	G	508	1/1	0.98	0.09	19,19,19,19	0
4	CA	G	509	1/1	0.98	0.11	23,23,23,23	0
4	CA	A	501	1/1	0.98	0.09	20,20,20,20	0
4	CA	G	504	1/1	0.99	0.11	14,14,14,14	0
4	CA	G	505	1/1	0.99	0.08	9,9,9,9	0
4	CA	G	503	1/1	0.99	0.14	13,13,13,13	0
4	CA	G	506	1/1	1.00	0.07	12,12,12,12	0

6.5 Other polymers [i](#)

There are no such residues in this entry.