



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 15, 2024 – 04:20 PM EDT

PDB ID : 2H5R  
Title : Crystal structure of mStrawberry at pH 10.5  
Authors : Shu, X.; Remington, S.J.  
Deposited on : 2006-05-26  
Resolution : 1.60 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 1.20.1  
EDS : 2.37.1  
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) : 2.37.1

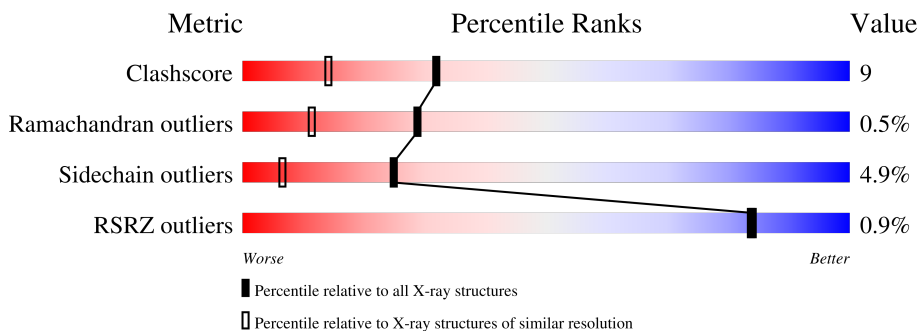
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.60 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))
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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  $\geq 3$ , 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	234	

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
1	CRO	A	66[A]	X	-	-	-
1	CRO	A	66[B]	X	-	-	-

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2104 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 mStrawberry.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	223	1820	1168	301	342	9	0	3	0

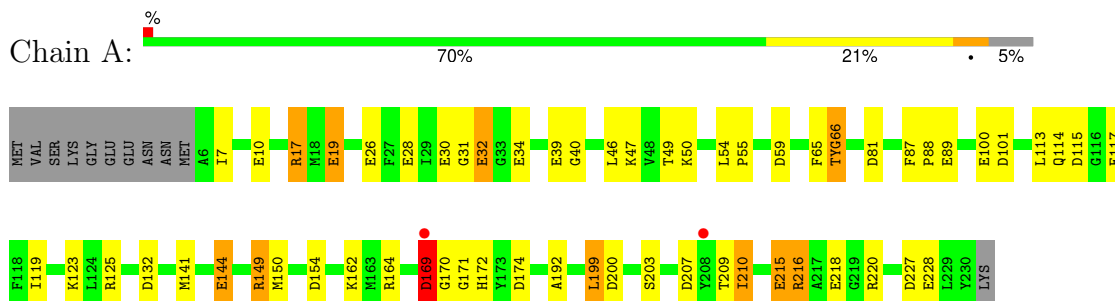
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	284	Total	O	0	0
			284	284		

### 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: mStrawberry



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	48.65Å 44.18Å 61.18Å 90.00° 105.98° 90.00°	Depositor
Resolution (Å)	50.00 – 1.60 42.79 – 1.60	Depositor EDS
% Data completeness (in resolution range)	97.1 (50.00-1.60) 92.5 (42.79-1.60)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.59 (at 1.60Å)	Xtrriage
Refinement program	SHELXL-97, TNT	Depositor
R, $R_{free}$	0.166 , 0.217 0.166 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	15.2	Xtrriage
Anisotropy	0.293	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 90.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	2104	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.40% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: CRO

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	1.22	18/1822 (1.0%)	1.34	24/2450 (1.0%)

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	2	0

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	65[A]	PHE	C-O	8.99	1.40	1.23
1	A	65[B]	PHE	C-O	8.99	1.40	1.23
1	A	30	GLU	CD-OE2	8.22	1.34	1.25
1	A	100	GLU	CD-OE2	7.87	1.34	1.25
1	A	215	GLU	CD-OE2	7.80	1.34	1.25
1	A	117	GLU	CD-OE2	7.61	1.34	1.25
1	A	89	GLU	CD-OE2	7.42	1.33	1.25
1	A	26	GLU	CD-OE2	7.12	1.33	1.25
1	A	144	GLU	CD-OE2	6.82	1.33	1.25
1	A	39	GLU	CD-OE2	6.77	1.33	1.25
1	A	28	GLU	CD-OE2	6.21	1.32	1.25
1	A	218	GLU	CD-OE2	6.05	1.32	1.25
1	A	32	GLU	CD-OE2	5.87	1.32	1.25
1	A	19	GLU	CD-OE2	5.78	1.32	1.25
1	A	10	GLU	CD-OE2	5.73	1.31	1.25
1	A	228	GLU	CD-OE2	5.48	1.31	1.25
1	A	34	GLU	CD-OE2	5.41	1.31	1.25
1	A	26	GLU	CD-OE1	-5.08	1.20	1.25

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	125	ARG	NE-CZ-NH2	-14.68	112.96	120.30
1	A	200	ASP	CB-CG-OD2	-7.26	111.77	118.30
1	A	207	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	A	81	ASP	CB-CG-OD2	-6.96	112.03	118.30
1	A	65[A]	PHE	CA-C-O	-6.83	105.75	120.10
1	A	65[B]	PHE	CA-C-O	-6.83	105.75	120.10
1	A	115	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	A	154	ASP	CB-CG-OD1	6.52	124.17	118.30
1	A	149	ARG	NE-CZ-NH1	6.48	123.54	120.30
1	A	59	ASP	CB-CG-OD1	6.10	123.79	118.30
1	A	101	ASP	CB-CG-OD2	-6.08	112.83	118.30
1	A	115	ASP	CB-CG-OD1	6.06	123.75	118.30
1	A	220	ARG	NE-CZ-NH1	6.00	123.30	120.30
1	A	207	ASP	CB-CG-OD1	5.77	123.49	118.30
1	A	154	ASP	CB-CG-OD2	-5.63	113.23	118.30
1	A	81	ASP	CB-CG-OD1	5.49	123.24	118.30
1	A	227	ASP	CB-CG-OD2	-5.27	113.56	118.30
1	A	59	ASP	CB-CG-OD2	-5.26	113.57	118.30
1	A	17	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	A	200	ASP	CB-CG-OD1	5.20	122.98	118.30
1	A	132	ASP	CB-CG-OD1	5.17	122.95	118.30
1	A	125	ARG	NH1-CZ-NH2	5.12	125.03	119.40
1	A	174	ASP	CB-CG-OD1	5.05	122.84	118.30
1	A	169	ASP	N-CA-CB	5.03	119.65	110.60

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	66[A]	CRO	CA1
1	A	66[B]	CRO	CA1

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	1820	0	1762	32	0
2	A	284	0	0	8	2
All	All	2104	0	1762	32	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 9.

All (32) 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:32:GLU:HB2	2:A:474:HOH:O	1.52	1.08
1:A:17:ARG:NH1	1:A:19:GLU:OE2	2.14	0.79
1:A:216:ARG:NH1	1:A:216:ARG:HG3	2.02	0.72
1:A:123:LYS:HE3	2:A:522:HOH:O	1.92	0.70
1:A:216:ARG:CG	1:A:216:ARG:HH11	2.10	0.65
1:A:216:ARG:HG3	1:A:216:ARG:HH11	1.63	0.61
1:A:216:ARG:NH1	1:A:216:ARG:CG	2.65	0.60
1:A:169:ASP:O	1:A:171:GLY:N	2.27	0.59
1:A:66[B]:CRO:H2	1:A:66[B]:CRO:CA3	2.15	0.59
1:A:119:ILE:CD1	2:A:457:HOH:O	2.50	0.59
1:A:66[B]:CRO:HE1	1:A:199:LEU:HB2	1.85	0.58
1:A:169:ASP:HB3	2:A:657:HOH:O	2.05	0.57
1:A:113:LEU:O	1:A:114:GLN:HG3	2.10	0.52
1:A:164:ARG:HD3	1:A:172[B]:HIS:CG	2.45	0.52
1:A:7:ILE:HD12	1:A:88:PRO:HD3	1.91	0.52
1:A:114:GLN:HB3	2:A:660:HOH:O	2.10	0.51
1:A:66[A]:CRO:HE1	1:A:199:LEU:HB2	1.93	0.51
1:A:66[B]:CRO:H2	1:A:66[B]:CRO:HA31	1.76	0.50
1:A:87:PHE:HB3	1:A:88:PRO:HA	1.94	0.49
1:A:114:GLN:HG2	2:A:660:HOH:O	2.13	0.49
1:A:119:ILE:HD13	2:A:457:HOH:O	2.13	0.48
1:A:66[B]:CRO:H2	1:A:66[B]:CRO:C3	2.26	0.47
1:A:47:LYS:HG2	1:A:210:ILE:HD13	1.97	0.47
1:A:54:LEU:HA	1:A:55:PRO:HD3	1.78	0.47
1:A:144:GLU:OE2	1:A:172[B]:HIS:NE2	2.39	0.46
1:A:209:THR:O	1:A:210:ILE:HG12	2.16	0.45
1:A:119:ILE:HD11	2:A:457:HOH:O	2.16	0.44
1:A:40:GLY:O	1:A:216:ARG:HA	2.19	0.43
1:A:49:THR:O	1:A:50:LYS:HG2	2.18	0.43
1:A:31:GLY:HA3	1:A:46:LEU:HD23	2.00	0.42
1:A:164:ARG:HG3	1:A:172[A]:HIS:HB2	2.02	0.42
1:A:150:MET:O	1:A:192:ALA:HA	2.20	0.41



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)
2:A:360:HOH:O	2:A:414:HOH:O[2_745]	2.13	0.07
2:A:432:HOH:O	2:A:627:HOH:O[2_746]	2.13	0.07

## 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	219/234 (94%)	213 (97%)	5 (2%)	1 (0%)	29 11

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	170	GLY

### 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	187/197 (95%)	178 (95%)	9 (5%)	25 7

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	141	MET

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Mol	Chain	Res	Type
1	A	149	ARG
1	A	162	LYS
1	A	169	ASP
1	A	199	LEU
1	A	203	SER
1	A	210	ILE
1	A	215	GLU
1	A	216	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

2 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
1	CRO	A	66[B]	1	22,23,24	2.82	9 (40%)	30,32,34	2.57	10 (33%)
1	CRO	A	66[A]	1	22,23,24	3.08	12 (54%)	30,32,34	1.76	7 (23%)

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
1	CRO	A	66[B]	1	1/1/6/8	8/12/31/32	0/2/2/2
1	CRO	A	66[A]	1	1/1/6/8	6/12/31/32	0/2/2/2

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	66[B]	CRO	CA1-N1	-6.47	1.29	1.47
1	A	66[A]	CRO	CG2-CB2	-5.62	1.36	1.46
1	A	66[B]	CRO	CB2-CA2	5.56	1.40	1.35
1	A	66[A]	CRO	CB2-CA2	5.54	1.40	1.35
1	A	66[A]	CRO	OH-CZ	-5.38	1.24	1.37
1	A	66[B]	CRO	CG2-CB2	-5.07	1.37	1.46
1	A	66[A]	CRO	C1-N3	4.53	1.44	1.37
1	A	66[A]	CRO	CE1-CZ	4.50	1.47	1.39
1	A	66[B]	CRO	CE2-CZ	4.21	1.46	1.39
1	A	66[A]	CRO	CB1-CA1	4.10	1.68	1.53
1	A	66[B]	CRO	CE1-CZ	3.96	1.46	1.39
1	A	66[A]	CRO	CE2-CZ	3.84	1.46	1.39
1	A	66[B]	CRO	OH-CZ	-3.53	1.29	1.37
1	A	66[A]	CRO	CD1-CG2	2.89	1.45	1.39
1	A	66[B]	CRO	CD1-CG2	2.84	1.45	1.39
1	A	66[A]	CRO	CE1-CD1	-2.73	1.34	1.38
1	A	66[A]	CRO	CG1-CB1	-2.58	1.44	1.51
1	A	66[B]	CRO	C1-N3	2.34	1.41	1.37
1	A	66[A]	CRO	CA2-N2	2.29	1.43	1.38
1	A	66[A]	CRO	CD2-CG2	2.24	1.44	1.39
1	A	66[B]	CRO	CA3-N3	-2.03	1.43	1.47

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66[B]	CRO	C1-CA1-N1	7.47	123.14	109.78
1	A	66[B]	CRO	C2-N3-C1	-5.31	105.61	108.07
1	A	66[B]	CRO	N3-C1-N2	5.02	115.44	111.48
1	A	66[A]	CRO	C1-CA1-N1	4.81	118.38	109.78
1	A	66[B]	CRO	OG1-CB1-CA1	-4.01	100.46	109.00
1	A	66[B]	CRO	O2-C2-CA2	3.95	133.54	131.02
1	A	66[A]	CRO	C2-N3-C1	-3.50	106.45	108.07
1	A	66[B]	CRO	CE2-CZ-CE1	-3.10	114.84	119.77
1	A	66[B]	CRO	C3-CA3-N3	3.09	119.47	112.43
1	A	66[A]	CRO	CE2-CZ-CE1	-3.03	114.94	119.77
1	A	66[B]	CRO	CD2-CE2-CZ	3.01	123.06	119.88
1	A	66[B]	CRO	CA1-C1-N3	-2.98	121.16	124.69
1	A	66[A]	CRO	CG2-CB2-CA2	2.44	132.77	129.87
1	A	66[A]	CRO	CD2-CE2-CZ	2.39	122.41	119.88
1	A	66[A]	CRO	N3-C1-N2	2.16	113.19	111.48
1	A	66[A]	CRO	OG1-CB1-CA1	2.13	113.54	109.00
1	A	66[B]	CRO	O3-C3-CA3	-2.02	116.36	125.47

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	66[A]	CRO	CA1
1	A	66[B]	CRO	CA1

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	66[A]	CRO	C1-CA1-CB1-CG1
1	A	66[A]	CRO	C1-CA1-CB1-OG1
1	A	66[A]	CRO	N2-CA2-CB2-CG2
1	A	66[A]	CRO	C2-CA2-CB2-CG2
1	A	66[B]	CRO	N1-CA1-CB1-CG1
1	A	66[B]	CRO	N1-CA1-CB1-OG1
1	A	66[B]	CRO	C1-CA1-CB1-CG1
1	A	66[B]	CRO	N2-C1-CA1-CB1
1	A	66[B]	CRO	N3-C1-CA1-CB1
1	A	66[B]	CRO	C2-CA2-CB2-CG2
1	A	66[B]	CRO	N2-CA2-CB2-CG2
1	A	66[A]	CRO	N2-C1-CA1-CB1
1	A	66[B]	CRO	C1-CA1-CB1-OG1
1	A	66[A]	CRO	N3-C1-CA1-CB1

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	66[B]	CRO	4	0
1	A	66[A]	CRO	1	0

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	222/234 (94%)	-0.60	2 (0%) 84 84	13, 19, 43, 62	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	208	TYR	2.4
1	A	169	ASP	2.2

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	CRO	A	66[A]	22/23	0.95	0.08	13,15,15,17	22
1	CRO	A	66[B]	22/23	0.95	0.08	12,15,15,15	22

### 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.