



Full wwPDB X-ray Structure Validation Report ⓘ

May 17, 2020 – 04:45 pm BST

PDB ID : 5OXC
Title : Structure of Cerulean Fluorescent Protein at 1.02 Angstrom resolution
Authors : Gotthard, G.; von Stetten, D.; Clavel, D.; Noirclerc-Savoye, M.; Royant, A.
Deposited on : 2017-09-06
Resolution : 1.02 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 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 : 2.11
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) : 2.11

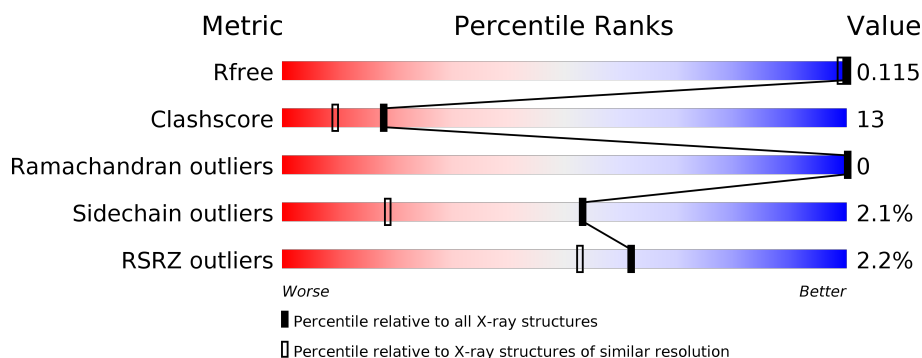
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.02 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	1188 (1.08-0.96)
Clashscore	141614	1253 (1.08-0.96)
Ramachandran outliers	138981	1178 (1.08-0.96)
Sidechain outliers	138945	1180 (1.08-0.96)
RSRZ outliers	127900	1158 (1.08-0.96)

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 on 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	237	<div> <div>2%</div> <div> <div></div> <div>78%</div> <div>16%</div> <div>• •</div> </div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 4863 atoms, of which 2173 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 Green fluorescent protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	230	Total	C	H	N	O	S	33	61	1
			4402	1453	2163	351	428	7			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	VAL	-	insertion	UNP P42212
A	64	LEU	PHE	engineered mutation	UNP P42212
A	66	B2H	SER	chromophore	UNP P42212
A	66	B2H	TYR	chromophore	UNP P42212
A	66	B2H	GLY	chromophore	UNP P42212
A	72	ALA	SER	conflict	UNP P42212
A	145	ALA	TYR	conflict	UNP P42212
A	146	ILE	ASN	engineered mutation	UNP P42212
A	148	ASP	HIS	engineered mutation	UNP P42212
A	153	THR	MET	engineered mutation	UNP P42212
A	163	ALA	VAL	conflict	UNP P42212
A	231	LEU	HIS	conflict	UNP P42212

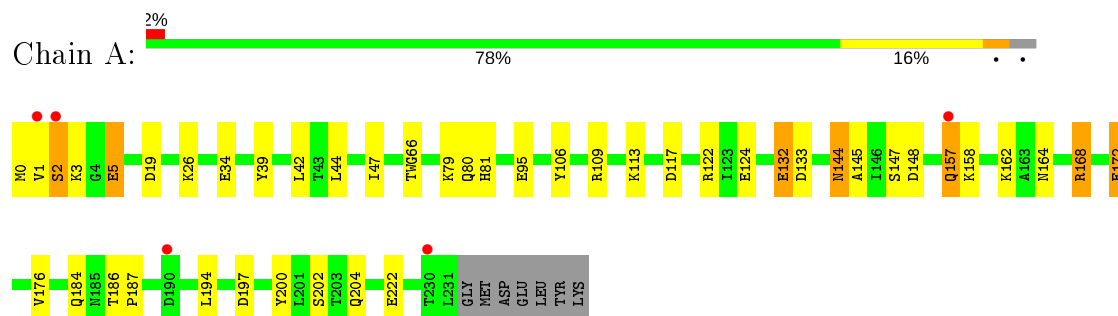
- Molecule 2 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	420	Total	H	O	0	72
			461	10	451		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Green fluorescent protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	51.01Å 62.80Å 69.92Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.72 – 1.02 46.72 – 1.02	Depositor EDS
% Data completeness (in resolution range)	99.8 (46.72-1.02) 99.8 (46.72-1.02)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.87 (at 1.02Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.099 , 0.115 0.101 , 0.115	Depositor DCC
R_{free} test set	5687 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	10.6	Xtriage
Anisotropy	0.258	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 62.7	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	0.99	EDS
Total number of atoms	4863	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.11% 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: B2H

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	1.24	18/2393 (0.8%)	1.11	17/3233 (0.5%)

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	133	ASP	CB-CG	9.96	1.72	1.51
1	A	5[A]	GLU	CD-OE2	8.33	1.34	1.25
1	A	5[B]	GLU	CD-OE2	8.33	1.34	1.25
1	A	39	TYR	CD1-CE1	7.96	1.51	1.39
1	A	168[A]	ARG	CZ-NH2	-6.69	1.24	1.33
1	A	168[B]	ARG	CZ-NH2	-6.69	1.24	1.33
1	A	172[A]	GLU	CD-OE2	-6.50	1.18	1.25
1	A	172[B]	GLU	CD-OE2	-6.50	1.18	1.25
1	A	172[C]	GLU	CD-OE2	-6.50	1.18	1.25
1	A	39	TYR	CE2-CZ	-5.92	1.30	1.38
1	A	147[A]	SER	CB-OG	5.90	1.50	1.42
1	A	147[B]	SER	CB-OG	5.90	1.50	1.42
1	A	122[A]	ARG	CZ-NH2	-5.89	1.25	1.33
1	A	122[B]	ARG	CZ-NH2	-5.89	1.25	1.33
1	A	0[A]	MET	N-CA	5.33	1.57	1.46
1	A	0[B]	MET	N-CA	5.33	1.57	1.46
1	A	144[A]	ASN	CG-ND2	-5.08	1.20	1.32
1	A	144[B]	ASN	CG-ND2	-5.08	1.20	1.32

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	122[A]	ARG	CG-CD-NE	7.75	128.07	111.80
1	A	122[B]	ARG	CG-CD-NE	7.75	128.07	111.80
1	A	168[A]	ARG	NE-CZ-NH2	-7.42	116.59	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	168[B]	ARG	NE-CZ-NH2	-7.42	116.59	120.30
1	A	19[A]	ASP	CB-CG-OD2	-7.07	111.94	118.30
1	A	19[B]	ASP	CB-CG-OD2	-7.07	111.94	118.30
1	A	122[A]	ARG	CD-NE-CZ	7.05	133.48	123.60
1	A	122[B]	ARG	CD-NE-CZ	7.05	133.48	123.60
1	A	79[A]	LYS	CD-CE-NZ	-6.19	97.46	111.70
1	A	79[B]	LYS	CD-CE-NZ	-6.19	97.46	111.70
1	A	106	TYR	CB-CG-CD1	6.05	124.63	121.00
1	A	109	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	A	39	TYR	CG-CD2-CE2	5.74	125.89	121.30
1	A	19[A]	ASP	CB-CG-OD1	5.74	123.47	118.30
1	A	19[B]	ASP	CB-CG-OD1	5.74	123.47	118.30
1	A	113[A]	LYS	CD-CE-NZ	5.22	123.70	111.70
1	A	113[B]	LYS	CD-CE-NZ	5.22	123.70	111.70

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	2239	2163	2276	61	1
2	A	451	10	0	33	4
All	All	2690	2173	2276	61	4

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 (61) 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:1[A]:VAL:HG12	1:A:2[A]:SER:H	1.17	1.04
1:A:1[A]:VAL:HG12	1:A:2[A]:SER:N	1.89	0.88
1:A:144[B]:ASN:HB2	2:A:640[B]:HOH:O	1.75	0.86
1:A:95[A]:GLU:OE1	2:A:305[A]:HOH:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5[A]:GLU:HG3	2:A:393[A]:HOH:O	1.84	0.78
1:A:44[B]:LEU:HD13	1:A:66[B]:B2H:CG1	2.16	0.75
1:A:144[B]:ASN:HA	2:A:408:HOH:O	1.87	0.73
1:A:172[A]:GLU:HG2	2:A:584:HOH:O	1.90	0.71
1:A:157[B]:GLN:HE21	1:A:157[B]:GLN:HA	1.55	0.70
1:A:1[A]:VAL:O	1:A:2[A]:SER:HB3	1.89	0.70
1:A:42[B]:LEU:HB2	1:A:222[B]:GLU:OE1	1.91	0.70
1:A:44[B]:LEU:CD1	1:A:66[B]:B2H:CG1	2.70	0.69
1:A:1[A]:VAL:HB	2:A:328[A]:HOH:O	1.92	0.69
1:A:132[A]:GLU:H	1:A:132[A]:GLU:CD	1.95	0.68
1:A:95[A]:GLU:CD	2:A:305[A]:HOH:O	2.30	0.67
1:A:144[B]:ASN:CB	2:A:640[B]:HOH:O	2.39	0.67
1:A:200[B]:TYR:HE2	1:A:202[B]:SER:OG	1.78	0.66
1:A:2[A]:SER:OG	2:A:308[A]:HOH:O	2.11	0.66
1:A:197[A]:ASP:OD2	2:A:310:HOH:O	2.15	0.64
1:A:117[B]:ASP:OD2	2:A:309[B]:HOH:O	2.15	0.64
1:A:145[B]:ALA:N	2:A:640[B]:HOH:O	2.30	0.64
1:A:81:HIS:CD2	1:A:197[A]:ASP:H	2.16	0.63
1:A:81:HIS:CD2	1:A:197[B]:ASP:H	2.17	0.63
1:A:162:LYS:HG2	1:A:184[A]:GLN:HG2	1.81	0.63
1:A:34[A]:GLU:OE1	2:A:307:HOH:O	2.11	0.63
1:A:1[A]:VAL:CB	2:A:304[A]:HOH:O	2.46	0.62
1:A:172[A]:GLU:CG	2:A:584:HOH:O	2.47	0.62
1:A:204[C]:GLN:O	1:A:204[C]:GLN:CG	2.46	0.62
1:A:144[B]:ASN:CA	2:A:640[B]:HOH:O	2.47	0.61
1:A:1[A]:VAL:CG1	2:A:328[A]:HOH:O	2.47	0.61
1:A:1[A]:VAL:CG1	1:A:2[A]:SER:N	2.62	0.60
1:A:81:HIS:HD2	1:A:197[A]:ASP:H	1.51	0.59
1:A:1[A]:VAL:HG12	2:A:328[A]:HOH:O	2.03	0.58
1:A:200[B]:TYR:CE2	1:A:202[B]:SER:OG	2.56	0.57
1:A:44[B]:LEU:HD12	1:A:222[B]:GLU:OE1	2.05	0.56
1:A:81:HIS:HD2	1:A:197[B]:ASP:H	1.51	0.56
1:A:80[B]:GLN:HG3	2:A:555:HOH:O	2.04	0.55
1:A:5[A]:GLU:OE2	2:A:311:HOH:O	2.17	0.55
1:A:158[B]:LYS:HE3	2:A:621[B]:HOH:O	2.06	0.55
1:A:26[B]:LYS:HE2	2:A:413[B]:HOH:O	2.06	0.55
1:A:168[A]:ARG:HB3	1:A:176[A]:VAL:HG21	1.90	0.54
1:A:2[A]:SER:OG	1:A:2[A]:SER:O	2.25	0.53
1:A:1[A]:VAL:HB	2:A:304[A]:HOH:O	2.09	0.53
1:A:2[A]:SER:C	2:A:312[A]:HOH:O	2.47	0.52
1:A:144[A]:ASN:N	2:A:303:HOH:O	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157[B]:GLN:HE21	1:A:157[B]:GLN:CA	2.22	0.51
1:A:164[A]:ASN:HB2	2:A:495:HOH:O	2.12	0.50
1:A:194:LEU:HA	2:A:561[B]:HOH:O	2.12	0.49
1:A:47[A]:ILE:HD11	2:A:632:HOH:O	2.12	0.49
1:A:204[C]:GLN:HG2	1:A:204[C]:GLN:O	2.13	0.48
1:A:44[B]:LEU:HD11	1:A:66[B]:B2H:CG1	2.42	0.48
1:A:42[B]:LEU:CB	1:A:222[B]:GLU:OE1	2.61	0.48
1:A:124[C]:GLU:HG2	2:A:363:HOH:O	2.13	0.47
1:A:3[A]:LYS:CA	2:A:312[A]:HOH:O	2.61	0.47
1:A:81:HIS:HE1	2:A:591:HOH:O	1.98	0.46
1:A:186[B]:THR:HG22	2:A:362[B]:HOH:O	2.17	0.45
1:A:168[A]:ARG:HB3	1:A:176[A]:VAL:CG2	2.48	0.44
1:A:204[C]:GLN:O	1:A:204[C]:GLN:HG3	2.18	0.43
1:A:3[A]:LYS:HA	2:A:312[A]:HOH:O	2.20	0.40
1:A:186[B]:THR:HA	1:A:187[B]:PRO:HD3	1.97	0.40
1:A:157[A]:GLN:HE21	1:A:157[A]:GLN:HB2	1.59	0.40

All (4) 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:378:HOH:O	2:A:647:HOH:O[4_455]	1.91	0.29
2:A:522:HOH:O	2:A:555:HOH:O[2_454]	2.01	0.19
1:A:157[A]:GLN:NE2	2:A:602:HOH:O[2_555]	2.13	0.07
2:A:320:HOH:O	2:A:460:HOH:O[3_545]	2.16	0.04

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	292/237 (123%)	285 (98%)	7 (2%)	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	258/204 (126%)	250 (97%)	8 (3%)	40 9

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

Mol	Chain	Res	Type
1	A	2[A]	SER
1	A	2[B]	SER
1	A	132[A]	GLU
1	A	132[B]	GLU
1	A	132[C]	GLU
1	A	148	ASP
1	A	157[A]	GLN
1	A	157[B]	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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	B2H	A	66[A]	-	22,26,27	3.94	4 (18%)	21,37,39	2.18	2 (9%)
1	B2H	A	66[B]	-	22,26,27	3.94	4 (18%)	21,37,39	2.25	3 (14%)

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	B2H	A	66[A]	-	-	3/8/15/16	0/3/3/3
1	B2H	A	66[B]	-	-	4/8/15/16	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	66[A]	B2H	CB2-CA2	-17.44	1.38	1.51
1	A	66[B]	B2H	CB2-CA2	-17.44	1.38	1.51
1	A	66[A]	B2H	CA3-N3	-2.81	1.44	1.49
1	A	66[B]	B2H	CA3-N3	-2.81	1.44	1.49
1	A	66[A]	B2H	C1-N2	-2.30	1.31	1.34
1	A	66[B]	B2H	C1-N2	-2.30	1.31	1.34
1	A	66[A]	B2H	CA3-C3	-2.26	1.43	1.49
1	A	66[B]	B2H	CA3-C3	-2.26	1.43	1.49

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66[A]	B2H	C3-CA3-N3	7.10	122.68	111.92
1	A	66[B]	B2H	C3-CA3-N3	7.10	122.68	111.92
1	A	66[A]	B2H	CG2-CB2-CA2	5.42	123.95	114.50
1	A	66[B]	B2H	CG2-CB2-CA2	5.42	123.95	114.50
1	A	66[B]	B2H	OG1-CB1-CG1	-2.81	101.43	109.74

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	66[A]	B2H	N2-CA2-CB2-CG2
1	A	66[B]	B2H	N2-CA2-CB2-CG2
1	A	66[A]	B2H	C2-CA2-CB2-CG2
1	A	66[B]	B2H	C2-CA2-CB2-CG2
1	A	66[A]	B2H	CA2-CB2-CG2-CD2
1	A	66[B]	B2H	CA2-CB2-CG2-CD2
1	A	66[B]	B2H	C1-CA1-CB1-OG1

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	66[B]	B2H	3	0

5.5 Carbohydrates [i](#)

There are no carbohydrates 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 [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	229/237 (96%)	-0.37	5 (2%)	62 53	7, 11, 26, 47	2 (0%)

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1[A]	VAL	4.2
1	A	230	THR	2.9
1	A	2[A]	SER	2.7
1	A	190[A]	ASP	2.3
1	A	157[A]	GLN	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, 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
1	B2H	A	66[A]	24/25	0.99	0.06	7,8,9,10	8
1	B2H	A	66[B]	24/25	0.99	0.06	7,8,9,9	8

6.3 Carbohydrates [i](#)

There are no carbohydrates 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.