



Full wwPDB X-ray Structure Validation Report ⓘ

May 14, 2020 – 12:08 am BST

PDB ID : 6OGB
Title : Crystal structure of Green Fluorescent Protein (GFP); S65T, Y66(3-I1Y), H148D; circular permutant (50-51)
Authors : Lin, C.-Y.; Boxer, S.G.
Deposited on : 2019-04-02
Resolution : 1.65 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

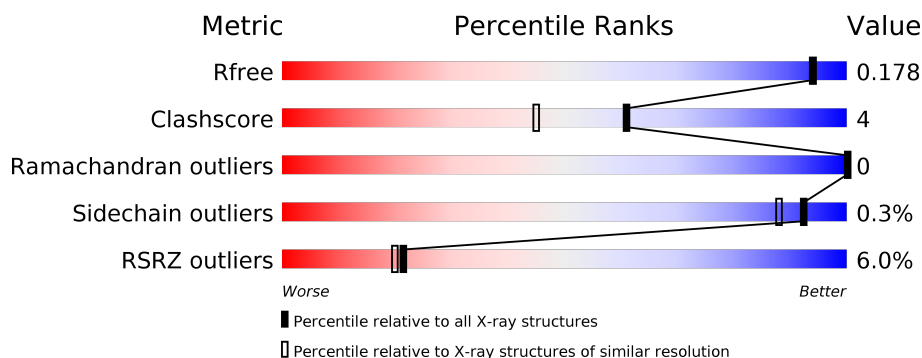
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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	1827 (1.66-1.66)
Clashscore	141614	1931 (1.66-1.66)
Ramachandran outliers	138981	1891 (1.66-1.66)
Sidechain outliers	138945	1891 (1.66-1.66)
RSRZ outliers	127900	1791 (1.66-1.66)

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	251	<div> <div>3%</div> <div> <div></div> <div>84%</div> <div>8%</div> <div>9%</div> </div> </div>
1	B	251	<div> <div>8%</div> <div> <div></div> <div>83%</div> <div>7%</div> <div>10%</div> </div> </div>

2 Entry composition [i](#)

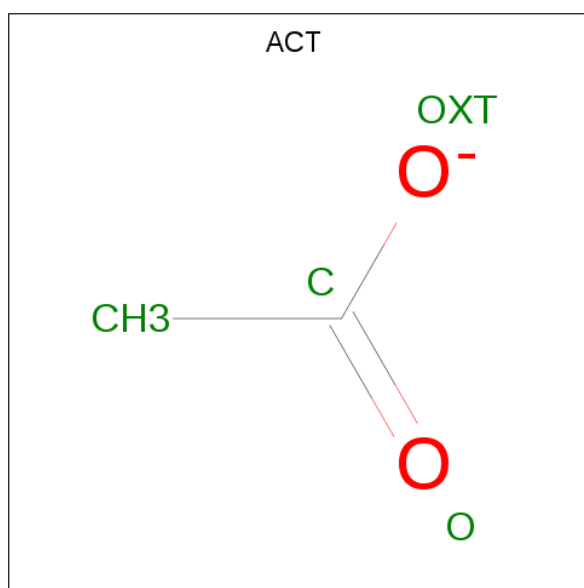
There are 4 unique types of molecules in this entry. The entry contains 4091 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Crystal structure of Green Fluorescent Protein (GFP); S65T, Y66(3-I1Y), H148D; circular permutant (50-51).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	229	Total	C	I	N	O	S	0	11	0
			1884	1189	1	322	368	4			
1	B	226	Total	C	I	N	O	S	0	5	0
			1824	1155	1	313	351	4			

- Molecule 2 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



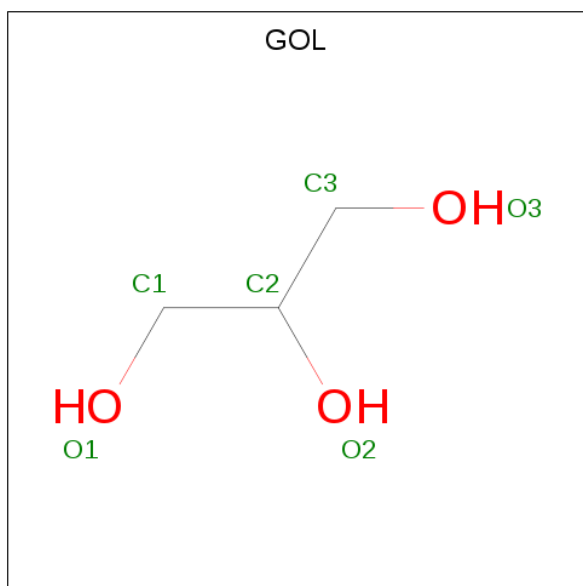
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		
2	B	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

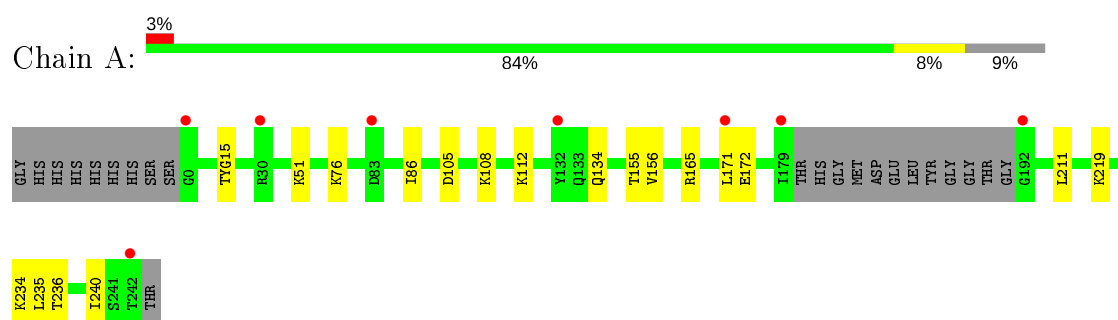
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	185	Total	O	0	0
			185	185		
4	B	154	Total	O	0	0
			154	154		

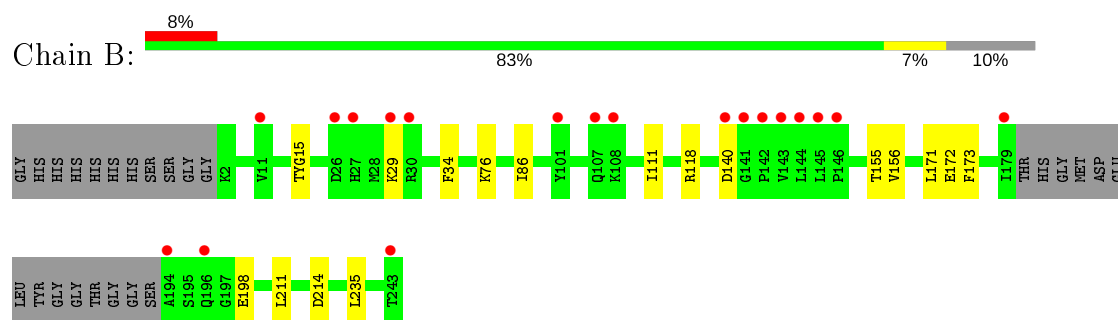
3 Residue-property plots [i](#)

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: Crystal structure of Green Fluorescent Protein (GFP); S65T, Y66(3-I1Y), H148D; circular permutant (50-51)



- Molecule 1: Crystal structure of Green Fluorescent Protein (GFP); S65T, Y66(3-I1Y), H148D; circular permutant (50-51)



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	51.81Å 68.69Å 61.64Å 90.00° 99.76° 90.00°	Depositor
Resolution (Å)	36.18 – 1.65 36.18 – 1.65	Depositor EDS
% Data completeness (in resolution range)	98.3 (36.18-1.65) 98.3 (36.18-1.65)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.80 (at 1.65Å)	Xtriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.156 , 0.178 0.156 , 0.178	Depositor DCC
R_{free} test set	2523 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	21.2	Xtriage
Anisotropy	0.258	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 54.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4091	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 6.23% 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: GOL, IIC, ACT

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	0.42	0/1900	0.59	0/2568
1	B	0.35	0/1846	0.58	0/2495
All	All	0.39	0/3746	0.58	0/5063

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

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	1884	0	1815	25	0
1	B	1824	0	1767	13	0
2	A	4	0	3	0	0
2	B	16	0	12	0	0
3	A	18	0	24	0	0
3	B	6	0	8	0	0
4	A	185	0	0	2	0
4	B	154	0	0	1	0
All	All	4091	0	3629	33	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 4.

All (33) 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:76[B]:LYS:NZ	4:A:401:HOH:O	2.26	0.67
1:A:156[A]:VAL:HG11	1:B:173:PHE:CD2	2.30	0.65
1:B:118[A]:ARG:HD3	4:B:468:HOH:O	1.96	0.65
1:A:105:ASP:OD2	1:A:112:LYS:HE3	1.98	0.64
1:A:108:LYS:HD2	1:A:134[B]:GLN:HE22	1.63	0.64
1:A:172:GLU:HG2	1:A:235:LEU:HB2	1.81	0.63
1:A:156[B]:VAL:HG23	1:A:171:LEU:HB3	1.85	0.59
1:A:108:LYS:HD2	1:A:134[B]:GLN:NE2	2.18	0.59
1:A:112:LYS:HG2	1:A:134[B]:GLN:HG2	1.85	0.59
1:A:219:LYS:NZ	4:A:402:HOH:O	2.29	0.59
1:A:15:IIC:I	1:A:155:THR:OG1	2.90	0.58
1:B:15:IIC:I	1:B:155:THR:OG1	2.92	0.57
1:A:156[B]:VAL:CG2	1:A:171:LEU:HB3	2.37	0.54
1:A:156[A]:VAL:HG11	1:B:173:PHE:HD2	1.73	0.53
1:A:171:LEU:HD23	1:B:171:LEU:HD22	1.92	0.52
1:A:108:LYS:CD	1:A:134[B]:GLN:HE22	2.23	0.51
1:A:211:LEU:HD23	1:A:211:LEU:C	2.31	0.51
1:A:171:LEU:HD13	1:A:236[A]:THR:HG22	1.92	0.51
1:A:156[B]:VAL:HG13	1:B:156:VAL:HG13	1.94	0.50
1:B:29:LYS:HE2	1:B:198:GLU:OE2	2.13	0.48
1:A:234:LYS:HE2	1:A:236[A]:THR:HG23	1.96	0.48
1:B:172:GLU:HG2	1:B:235:LEU:HB2	1.95	0.47
1:B:211:LEU:C	1:B:211:LEU:HD23	2.34	0.47
1:A:165:ARG:CZ	1:A:240[B]:ILE:HD13	2.44	0.47
1:B:86:ILE:N	1:B:86:ILE:HD12	2.30	0.46
1:A:86:ILE:HD12	1:A:86:ILE:N	2.31	0.45
1:A:156[B]:VAL:HG21	1:A:171:LEU:HD23	1.99	0.45
1:A:112:LYS:HG2	1:A:134[B]:GLN:CG	2.47	0.44
1:A:51:LYS:HD3	1:A:51:LYS:HA	1.65	0.44
1:B:34:PHE:CE1	1:B:111:ILE:HD11	2.52	0.44
1:A:156[A]:VAL:HG23	1:B:156:VAL:HG13	1.98	0.44
1:A:234:LYS:HE2	1:A:236[A]:THR:CG2	2.48	0.43
1:B:76[A]:LYS:HD2	1:B:214:ASP:O	2.20	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	234/251 (93%)	232 (99%)	2 (1%)	0	100	100
1	B	225/251 (90%)	223 (99%)	2 (1%)	0	100	100
All	All	459/502 (91%)	455 (99%)	4 (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	206/214 (96%)	206 (100%)	0	100	100
1	B	200/214 (94%)	199 (100%)	1 (0%)	88	81
All	All	406/428 (95%)	405 (100%)	1 (0%)	92	89

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	140	ASP

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

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	I1C	A	15	1	24,24,25	2.62	8 (33%)	32,34,36	1.91	10 (31%)
1	I1C	B	15	1	24,24,25	2.76	8 (33%)	32,34,36	2.11	12 (37%)

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	I1C	A	15	1	-	1/12/31/32	0/2/2/2
1	I1C	B	15	1	-	0/12/31/32	0/2/2/2

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	15	I1C	CE2-CZ	5.55	1.49	1.39
1	A	15	I1C	CD1-CG2	5.34	1.48	1.39
1	B	15	I1C	CD1-CG2	5.32	1.48	1.39
1	A	15	I1C	CE2-CZ	5.27	1.48	1.39
1	B	15	I1C	OH-CZ	-5.03	1.26	1.36
1	B	15	I1C	CZ-CE1	4.70	1.49	1.39
1	B	15	I1C	CB2-CA2	4.56	1.38	1.35
1	A	15	I1C	OH-CZ	-4.55	1.27	1.36
1	A	15	I1C	CZ-CE1	4.50	1.48	1.39
1	B	15	I1C	CD2-CG2	4.23	1.47	1.39
1	B	15	I1C	C1-N3	4.15	1.44	1.37
1	A	15	I1C	CD2-CG2	4.12	1.47	1.39
1	A	15	I1C	CB2-CA2	3.98	1.38	1.35
1	A	15	I1C	C1-N3	3.46	1.43	1.37
1	A	15	I1C	CG2-CB2	-2.72	1.41	1.46
1	B	15	I1C	CG2-CB2	-2.48	1.42	1.46

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	15	I1C	CE2-CZ-CE1	-5.13	114.41	119.27
1	B	15	I1C	CE2-CZ-CE1	-4.52	114.99	119.27
1	B	15	I1C	CA1-C1-N3	-4.51	119.34	124.75
1	B	15	I1C	C2-N3-C1	-3.87	106.01	107.97
1	B	15	I1C	N3-C1-N2	3.60	113.95	111.45
1	A	15	I1C	CD1-CE1-CZ	3.50	124.55	120.59
1	A	15	I1C	C2-CA2-N2	3.23	111.20	108.93
1	B	15	I1C	CD1-CE1-CZ	3.15	124.16	120.59
1	B	15	I1C	C2-CA2-N2	3.13	111.13	108.93
1	B	15	I1C	CZ-CE1-I	-3.11	116.72	119.81
1	A	15	I1C	O3-C3-CA3	-2.77	118.03	126.39
1	B	15	I1C	C1-CA1-N1	-2.75	105.51	109.96
1	B	15	I1C	OH-CZ-CE1	2.73	122.50	119.19
1	A	15	I1C	CB2-CA2-C2	-2.64	119.12	122.28
1	A	15	I1C	OH-CZ-CE1	2.60	122.34	119.19
1	A	15	I1C	CA1-C1-N3	-2.55	121.69	124.75
1	A	15	I1C	N3-C1-N2	2.48	113.17	111.45
1	B	15	I1C	CB2-CA2-C2	-2.34	119.48	122.28
1	B	15	I1C	O3-C3-CA3	-2.18	119.80	126.39
1	A	15	I1C	CZ-CE1-I	-2.11	117.71	119.81
1	A	15	I1C	C1-CA1-N1	-2.11	106.55	109.96
1	B	15	I1C	CA1-C1-N2	2.02	126.71	123.89

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	15	I1C	N2-CA2-CB2-CG2

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	15	I1C	1	0
1	B	15	I1C	1	0

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

9 ligands 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	GOL	A	304	-	5,5,5	0.25	0	5,5,5	0.83	0
3	GOL	A	303	-	5,5,5	0.97	0	5,5,5	0.97	0
2	ACT	B	304	-	1,3,3	6.55	1 (100%)	0,3,3	0.00	-
3	GOL	A	302	-	5,5,5	0.85	0	5,5,5	0.98	0
2	ACT	A	301	-	1,3,3	6.94	1 (100%)	0,3,3	0.00	-
2	ACT	B	301	-	1,3,3	6.46	1 (100%)	0,3,3	0.00	-
3	GOL	B	305	-	5,5,5	0.27	0	5,5,5	0.83	0
2	ACT	B	302	-	1,3,3	8.81	1 (100%)	0,3,3	0.00	-
2	ACT	B	303	-	1,3,3	6.06	1 (100%)	0,3,3	0.00	-

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	B	305	-	-	2/4/4/4	-
3	GOL	A	303	-	-	2/4/4/4	-
3	GOL	A	304	-	-	3/4/4/4	-
3	GOL	A	302	-	-	0/4/4/4	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	302	ACT	CH3-C	8.81	1.60	1.48
2	A	301	ACT	CH3-C	6.94	1.57	1.48
2	B	304	ACT	CH3-C	6.55	1.57	1.48
2	B	301	ACT	CH3-C	6.46	1.57	1.48
2	B	303	ACT	CH3-C	6.06	1.56	1.48

There are no bond angle outliers.

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	305	GOL	C1-C2-C3-O3
3	B	305	GOL	O2-C2-C3-O3
3	A	304	GOL	O1-C1-C2-C3
3	A	303	GOL	C1-C2-C3-O3
3	A	304	GOL	O1-C1-C2-O2
3	A	304	GOL	O2-C2-C3-O3
3	A	303	GOL	O2-C2-C3-O3

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	228/251 (90%)	0.01	8 (3%) 44 45	15, 22, 38, 56	0
1	B	225/251 (89%)	0.32	19 (8%) 11 10	17, 28, 50, 81	0
All	All	453/502 (90%)	0.16	27 (5%) 21 20	15, 24, 45, 81	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	141	GLY	4.9
1	A	0	GLY	4.8
1	B	30	ARG	4.6
1	A	179	ILE	4.3
1	A	132	TYR	4.2
1	B	140	ASP	3.9
1	B	142	PRO	3.8
1	B	107	GLN	3.7
1	B	101	TYR	3.6
1	A	192	GLY	3.3
1	B	194	ALA	3.1
1	B	144	LEU	2.9
1	A	30	ARG	2.8
1	B	26	ASP	2.6
1	B	143	VAL	2.6
1	B	196	GLN	2.6
1	A	242	THR	2.5
1	A	83	ASP	2.4
1	B	29	LYS	2.4
1	B	145	LEU	2.3
1	B	11	VAL	2.3
1	A	171	LEU	2.2
1	B	243	THR	2.2
1	B	27	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	179	ILE	2.1
1	B	108	LYS	2.1
1	B	146	PRO	2.0

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	I1C	A	15	23/24	0.99	0.10	15,18,22,23	0
1	I1C	B	15	23/24	0.99	0.10	15,20,23,26	0

6.3 Carbohydrates [i](#)

There are no carbohydrates 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
2	ACT	B	301	4/4	0.57	0.19	54,58,61,67	0
3	GOL	A	304	6/6	0.61	0.30	42,47,55,62	0
2	ACT	B	302	4/4	0.70	0.18	41,46,50,51	0
3	GOL	B	305	6/6	0.76	0.18	43,48,58,59	0
3	GOL	A	303	6/6	0.76	0.20	30,44,48,50	0
2	ACT	B	303	4/4	0.84	0.12	38,46,49,54	0
2	ACT	A	301	4/4	0.87	0.20	39,45,49,52	0
2	ACT	B	304	4/4	0.88	0.12	37,45,50,57	0
3	GOL	A	302	6/6	0.91	0.11	30,36,37,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.