



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 5, 2023 – 10:03 pm GMT

PDB ID : 6FP7
Title : mTFP1/DARPin 1238_E11 complex in space group P6522
Authors : Jakob, R.P.; Vigano, M.A.; Bieli, D.; Matsuda, S.; Schaefer, J.V.; Pluckthun, A.; Affolter, M.; Maier, T.
Deposited on : 2018-02-09
Resolution : 1.58 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 : 1.8.4, 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

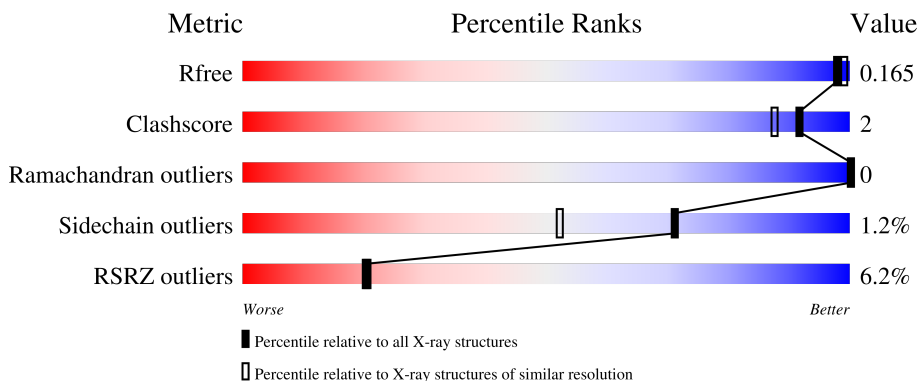
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

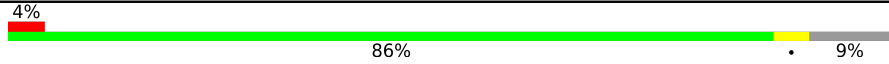
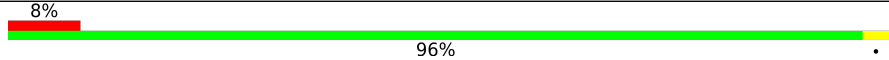
The reported resolution of this entry is 1.58 Å.

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	5534 (1.60-1.56)
Clashscore	141614	5861 (1.60-1.56)
Ramachandran outliers	138981	5708 (1.60-1.56)
Sidechain outliers	138945	5703 (1.60-1.56)
RSRZ outliers	127900	5431 (1.60-1.56)

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	248	
2	B	164	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6925 atoms, of which 3083 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 GFP-like fluorescent chromoprotein cFP484.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	226	3669	1185	1814	308	355	7	1	6	0

There are 61 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-22	MET	-	initiating methionine	UNP Q9U6Y3
A	-21	GLY	-	expression tag	UNP Q9U6Y3
A	-20	SER	-	expression tag	UNP Q9U6Y3
A	-19	SER	-	expression tag	UNP Q9U6Y3
A	-18	HIS	-	expression tag	UNP Q9U6Y3
A	-17	HIS	-	expression tag	UNP Q9U6Y3
A	-16	HIS	-	expression tag	UNP Q9U6Y3
A	-15	HIS	-	expression tag	UNP Q9U6Y3
A	-14	HIS	-	expression tag	UNP Q9U6Y3
A	-13	HIS	-	expression tag	UNP Q9U6Y3
A	-12	SER	-	expression tag	UNP Q9U6Y3
A	-11	GLN	-	expression tag	UNP Q9U6Y3
A	-10	ASP	-	expression tag	UNP Q9U6Y3
A	-9	PRO	-	expression tag	UNP Q9U6Y3
A	-8	MET	-	expression tag	UNP Q9U6Y3
A	-7	VAL	-	expression tag	UNP Q9U6Y3
A	-6	SER	-	expression tag	UNP Q9U6Y3
A	-5	LYS	-	expression tag	UNP Q9U6Y3
A	-4	GLY	-	expression tag	UNP Q9U6Y3
A	-3	GLU	-	expression tag	UNP Q9U6Y3
A	-2	GLU	-	expression tag	UNP Q9U6Y3
A	38	ASN	HIS	conflict	UNP Q9U6Y3
A	40	ILE	LEU	conflict	UNP Q9U6Y3
A	58	THR	SER	conflict	UNP Q9U6Y3
A	59	THR	ASN	conflict	UNP Q9U6Y3
A	62	PIA	GLN	chromophore	UNP Q9U6Y3
A	62	PIA	TYR	chromophore	UNP Q9U6Y3

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Chain	Residue	Modelled	Actual	Comment	Reference
A	62	PIA	GLY	chromophore	UNP Q9U6Y3
A	68	PHE	LEU	conflict	UNP Q9U6Y3
A	76	PRO	ALA	conflict	UNP Q9U6Y3
A	77	ASN	ASP	conflict	UNP Q9U6Y3
A	119	HIS	ARG	conflict	UNP Q9U6Y3
A	120	LEU	PHE	conflict	UNP Q9U6Y3
A	121	LYS	ASP	conflict	UNP Q9U6Y3
A	123	GLU	MET	conflict	UNP Q9U6Y3
A	137	THR	LEU	conflict	UNP Q9U6Y3
A	138	GLY	LYS	conflict	UNP Q9U6Y3
A	140	ASP	GLU	conflict	UNP Q9U6Y3
A	141	ALA	PRO	conflict	UNP Q9U6Y3
A	145	ARG	ILE	conflict	UNP Q9U6Y3
A	154	LYS	VAL	conflict	UNP Q9U6Y3
A	157	VAL	ILE	conflict	UNP Q9U6Y3
A	158	LYS	SER	conflict	UNP Q9U6Y3
A	160	LYS	SER	conflict	UNP Q9U6Y3
A	169	HIS	TYR	conflict	UNP Q9U6Y3
A	171	VAL	CYS	conflict	UNP Q9U6Y3
A	175	THR	SER	conflict	UNP Q9U6Y3
A	178	ARG	LYS	conflict	UNP Q9U6Y3
A	182	ALA	VAL	conflict	UNP Q9U6Y3
A	209	VAL	LEU	conflict	UNP Q9U6Y3
A	212	SER	ASN	conflict	UNP Q9U6Y3
A	217	ASN	TYR	conflict	UNP Q9U6Y3
A	219	THR	-	expression tag	UNP Q9U6Y3
A	220	ASP	-	expression tag	UNP Q9U6Y3
A	221	GLY	-	expression tag	UNP Q9U6Y3
A	222	MET	-	expression tag	UNP Q9U6Y3
A	223	ASP	-	expression tag	UNP Q9U6Y3
A	224	GLU	-	expression tag	UNP Q9U6Y3
A	225	LEU	-	expression tag	UNP Q9U6Y3
A	226	TYR	-	expression tag	UNP Q9U6Y3
A	227	LYS	-	expression tag	UNP Q9U6Y3

- Molecule 2 is a protein called DARPin1238_E11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
2	B	163	Total	C	H	N	O	S	0	1	0
			2470	781	1237	216	233	3			

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			14	3	8	3		
3	A	1	Total	C	H	O	0	0
			14	3	8	3		
3	B	1	Total	C	H	O	0	0
			14	3	8	3		
3	B	1	Total	C	H	O	0	0
			14	3	8	3		

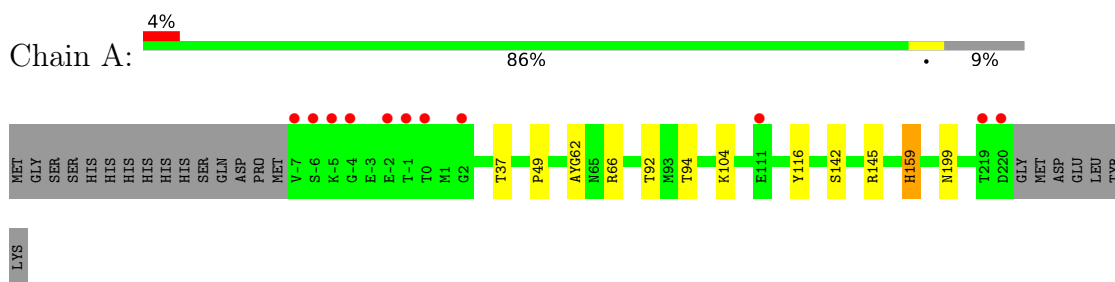
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	441	Total	O	0	0
			441	441		
4	B	289	Total	O	0	0
			289	289		

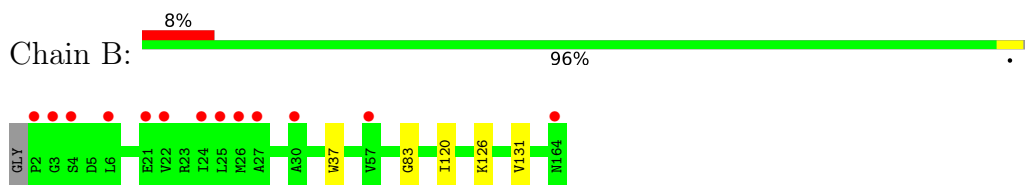
3 Residue-property plots [i](#)

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: GFP-like fluorescent chromoprotein cFP484



- Molecule 2: DARPin1238_E11



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	99.05Å 99.05Å 214.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	45.49 – 1.58 45.49 – 1.58	Depositor EDS
% Data completeness (in resolution range)	99.3 (45.49-1.58) 99.3 (45.49-1.58)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.03 (at 1.58Å)	Xtrriage
Refinement program	PHENIX (1.10pre_2131: ???)	Depositor
R, R_{free}	0.148 , 0.164 0.149 , 0.165	Depositor DCC
R_{free} test set	4283 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	22.1	Xtrriage
Anisotropy	0.360	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 58.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	6925	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.17% 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: PIA, GOL

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	0.36	0/1899	0.60	0/2561
2	B	0.28	0/1258	0.51	0/1707
All	All	0.33	0/3157	0.57	0/4268

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 [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	1855	1814	1827	7	1
2	B	1233	1237	1238	3	0
3	A	12	16	16	0	0
3	B	12	16	16	0	0
4	A	441	0	0	4	10
4	B	289	0	0	3	6
All	All	3842	3083	3097	10	13

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 2.

All (10) 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:37:THR:OG1	4:A:401:HOH:O	2.00	0.79
1:A:104:LYS:NZ	4:A:407:HOH:O	2.38	0.56
1:A:49:PRO:O	4:A:402:HOH:O	2.18	0.56
2:B:131:VAL:HG22	4:B:431:HOH:O	2.05	0.56
1:A:94[B]:THR:HG23	4:A:491:HOH:O	2.12	0.49
1:A:142:SER:HB3	1:A:159:HIS:CE1	2.53	0.43
1:A:92[C]:THR:HG21	4:B:370:HOH:O	2.18	0.43
2:B:126:LYS:NZ	4:B:306:HOH:O	2.38	0.42
2:B:83:GLY:HA2	2:B:120:ILE:HD12	2.00	0.42
1:A:66:ARG:HA	1:A:66:ARG:NE	2.35	0.42

All (13) 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)
4:A:605:HOH:O	4:B:307:HOH:O[12_556]	1.93	0.27
4:B:535:HOH:O	4:B:535:HOH:O[12_556]	1.96	0.24
4:A:805:HOH:O	4:A:805:HOH:O[10_667]	1.97	0.23
4:A:663:HOH:O	4:A:711:HOH:O[10_667]	2.00	0.20
4:A:662:HOH:O	4:B:477:HOH:O[12_556]	2.02	0.18
4:A:711:HOH:O	4:A:747:HOH:O[10_667]	2.07	0.13
4:A:484:HOH:O	4:B:368:HOH:O[12_556]	2.08	0.12
1:A:37:THR:HG1	1:A:199[B]:ASN:OD1[10_667]	1.51	0.09
4:A:699:HOH:O	4:A:777:HOH:O[5_665]	2.11	0.09
4:A:694:HOH:O	4:B:584:HOH:O[8_667]	2.14	0.06
4:A:549:HOH:O	4:A:663:HOH:O[10_667]	2.15	0.05
4:B:481:HOH:O	4:B:516:HOH:O[12_556]	2.17	0.03
4:A:549:HOH:O	4:A:556:HOH:O[10_667]	2.18	0.02

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	228/248 (92%)	226 (99%)	2 (1%)	0	100	100
2	B	162/164 (99%)	161 (99%)	1 (1%)	0	100	100
All	All	390/412 (95%)	387 (99%)	3 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	204/217 (94%)	201 (98%)	3 (2%)	65	42
2	B	126/125 (101%)	125 (99%)	1 (1%)	81	68
All	All	330/342 (96%)	326 (99%)	4 (1%)	71	52

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	116	TYR
1	A	145	ARG
1	A	159	HIS
2	B	37	TRP

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](#)

1 non-standard protein/DNA/RNA residue is 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	PIA	A	62	1	21,21,22	2.60	5 (23%)	27,29,31	4.37	9 (33%)

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	PIA	A	62	1	-	1/8/27/28	0/2/2/2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	62	PIA	CB2-CA2	9.18	1.42	1.35
1	A	62	PIA	C2-N3	-4.16	1.30	1.39
1	A	62	PIA	CA2-C2	-3.59	1.45	1.48
1	A	62	PIA	O2-C2	3.33	1.30	1.23
1	A	62	PIA	CA1-C1	-2.33	1.48	1.51

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	62	PIA	CA2-C2-N3	14.72	110.33	103.37
1	A	62	PIA	O2-C2-CA2	-12.94	123.70	130.96
1	A	62	PIA	C2-CA2-N2	-5.42	105.14	108.93
1	A	62	PIA	CB2-CA2-C2	5.04	128.29	122.28
1	A	62	PIA	C2-N3-C1	-4.48	105.70	107.97
1	A	62	PIA	O3-C3-CA3	-4.07	114.10	126.39
1	A	62	PIA	CD1-CE1-CZ	2.84	123.00	119.88
1	A	62	PIA	CA1-C1-N3	-2.75	121.45	124.75
1	A	62	PIA	CE1-CD1-CG2	-2.54	117.94	121.25

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	62	PIA	C3-CA3-N3-C2

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 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	B	201	-	5,5,5	0.38	0	5,5,5	0.19	0
3	GOL	A	302	-	5,5,5	0.35	0	5,5,5	0.24	0
3	GOL	A	301	-	5,5,5	0.34	0	5,5,5	0.21	0
3	GOL	B	202	-	5,5,5	0.33	0	5,5,5	0.44	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	GOL	B	201	-	-	2/4/4/4	-
3	GOL	A	302	-	-	2/4/4/4	-
3	GOL	A	301	-	-	4/4/4/4	-
3	GOL	B	202	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	GOL	O1-C1-C2-C3
3	B	202	GOL	O1-C1-C2-C3
3	B	202	GOL	O1-C1-C2-O2
3	A	301	GOL	C1-C2-C3-O3
3	A	302	GOL	O1-C1-C2-C3
3	B	201	GOL	C1-C2-C3-O3
3	B	201	GOL	O2-C2-C3-O3
3	A	301	GOL	O1-C1-C2-O2
3	A	302	GOL	O1-C1-C2-O2
3	A	301	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	225/248 (90%)	-0.26	11 (4%) 29 29	15, 23, 57, 92	0
2	B	163/164 (99%)	0.05	13 (7%) 12 12	18, 28, 62, 110	0
All	All	388/412 (94%)	-0.13	24 (6%) 20 20	15, 25, 60, 110	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	2	PRO	8.8
1	A	-7	VAL	8.6
2	B	3	GLY	4.8
2	B	24	ILE	4.2
1	A	-1	THR	4.2
2	B	4	SER	4.1
1	A	220	ASP	3.9
1	A	219	THR	3.8
2	B	6	LEU	3.8
1	A	2	GLY	3.8
1	A	-6	SER	3.6
2	B	26	MET	3.4
2	B	25	LEU	3.3
1	A	-5	LYS	3.3
2	B	164	ASN	3.1
2	B	22	VAL	2.8
1	A	-2	GLU	2.6
2	B	30	ALA	2.4
2	B	27	ALA	2.3
2	B	57	VAL	2.2
2	B	21	GLU	2.1
1	A	111	GLU	2.1
1	A	-4	GLY	2.1
1	A	0	THR	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	PIA	A	62	20/21	0.97	0.09	2,17,20,38	1

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(Å ²)	Q<0.9
3	GOL	B	201	6/6	0.70	0.18	52,78,96,100	0
3	GOL	B	202	6/6	0.76	0.22	65,81,97,97	0
3	GOL	A	302	6/6	0.81	0.13	75,93,112,112	0
3	GOL	A	301	6/6	0.88	0.14	32,50,65,65	0

6.5 Other polymers [i](#)

There are no such residues in this entry.