



Full wwPDB X-ray Structure Validation Report ⓘ

Jul 4, 2022 – 01:17 pm BST

PDB ID : 7P0U
Title : ORF virus encoded Bcl-2 homolog ORFV125 in complex with Puma BH3 peptide
Authors : Suraweera, C.D.; Hinds, M.G.; Kvensakul, M.
Deposited on : 2021-06-30
Resolution : 1.99 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)
Xtrriage (Phenix) : 1.13
EDS : 2.29
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0267
CCP4 : 7.1.010 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.29

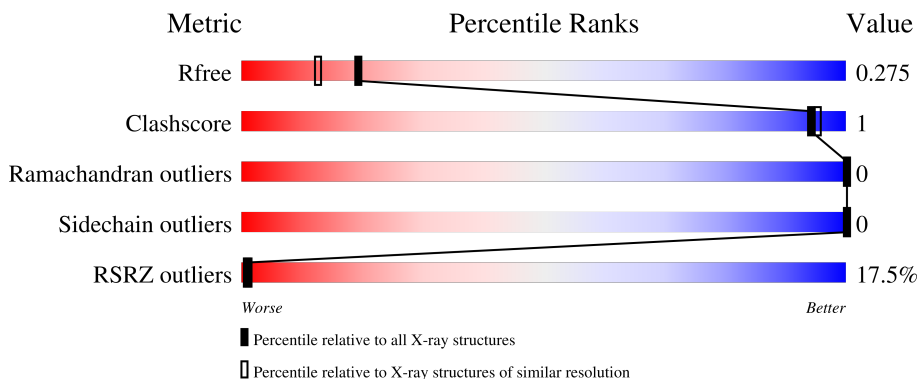
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.99 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.



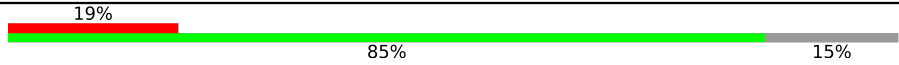

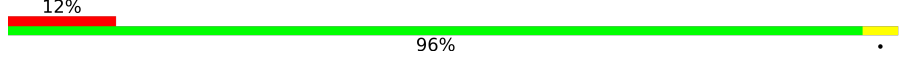
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	148	
1	B	148	
1	D	148	
1	F	148	
2	C	26	

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Mol	Chain	Length	Quality of chain
2	E	26	
2	G	26	
2	U	26	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9641 atoms, of which 4772 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 Apoptosis inhibitor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	134	2049	646	1011	186	201	5	0	0	0
1	B	132	2033	638	1011	183	196	5	0	0	0
1	D	128	1967	619	978	175	190	5	0	0	0
1	F	129	1972	619	979	178	191	5	0	0	0

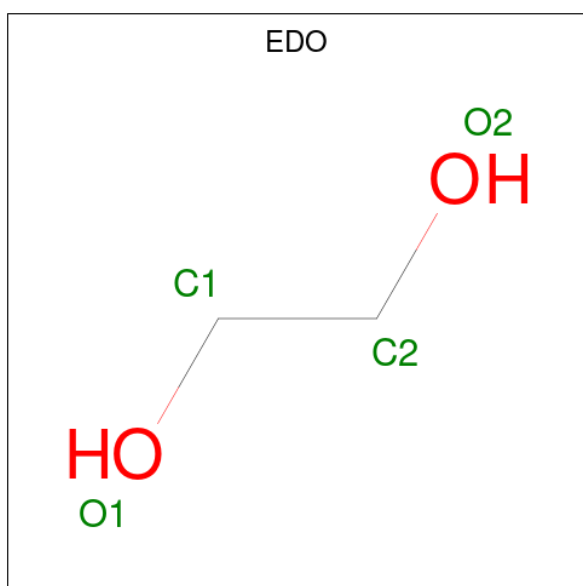
There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	expression tag	UNP A0A0R8HV90
A	-3	PRO	-	expression tag	UNP A0A0R8HV90
A	-2	LEU	-	expression tag	UNP A0A0R8HV90
A	-1	GLY	-	expression tag	UNP A0A0R8HV90
A	0	SER	-	expression tag	UNP A0A0R8HV90
B	-4	GLY	-	expression tag	UNP A0A0R8HV90
B	-3	PRO	-	expression tag	UNP A0A0R8HV90
B	-2	LEU	-	expression tag	UNP A0A0R8HV90
B	-1	GLY	-	expression tag	UNP A0A0R8HV90
B	0	SER	-	expression tag	UNP A0A0R8HV90
D	-4	GLY	-	expression tag	UNP A0A0R8HV90
D	-3	PRO	-	expression tag	UNP A0A0R8HV90
D	-2	LEU	-	expression tag	UNP A0A0R8HV90
D	-1	GLY	-	expression tag	UNP A0A0R8HV90
D	0	SER	-	expression tag	UNP A0A0R8HV90
F	-4	GLY	-	expression tag	UNP A0A0R8HV90
F	-3	PRO	-	expression tag	UNP A0A0R8HV90
F	-2	LEU	-	expression tag	UNP A0A0R8HV90
F	-1	GLY	-	expression tag	UNP A0A0R8HV90
F	0	SER	-	expression tag	UNP A0A0R8HV90

- Molecule 2 is a protein called Activator of apoptosis harakiri.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	U	26	Total 419	C 126	H 212	N 44	O 36	S 1	0	0	0
2	C	24	Total 384	C 117	H 194	N 39	O 33	S 1	0	0	0
2	E	22	Total 336	C 100	H 171	N 33	O 31	S 1	0	0	0
2	G	21	Total 319	C 95	H 162	N 32	O 30		0	0	0

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	H			O
3	A	1	Total 10	C 2	H 6	O 2	0	0
3	A	1	Total 10	C 2	H 6	O 2	0	0
3	A	1	Total 10	C 2	H 6	O 2	0	0
3	B	1	Total 10	C 2	H 6	O 2	0	0
3	F	1	Total 10	C 2	H 6	O 2	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

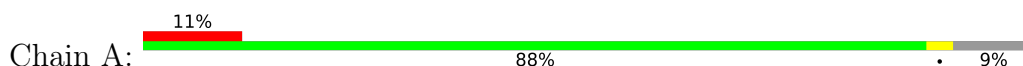
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	13	Total	O	0	0
			13	13		
5	U	5	Total	O	0	0
			5	5		
5	B	13	Total	O	0	0
			13	13		
5	C	4	Total	O	0	0
			4	4		
5	D	16	Total	O	0	0
			16	16		
5	E	8	Total	O	0	0
			8	8		
5	F	8	Total	O	0	0
			8	8		
5	G	3	Total	O	0	0
			3	3		

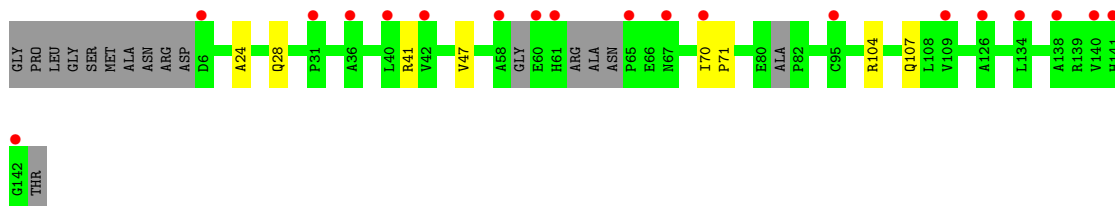
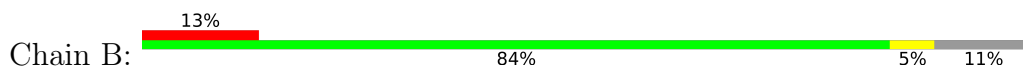
3 Residue-property plots [i](#)

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.

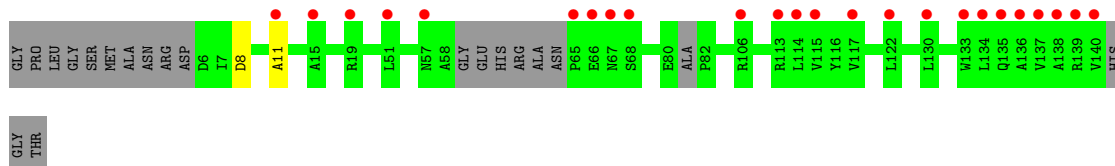
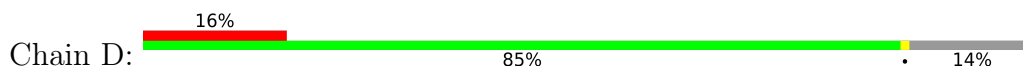
- Molecule 1: Apoptosis inhibitor



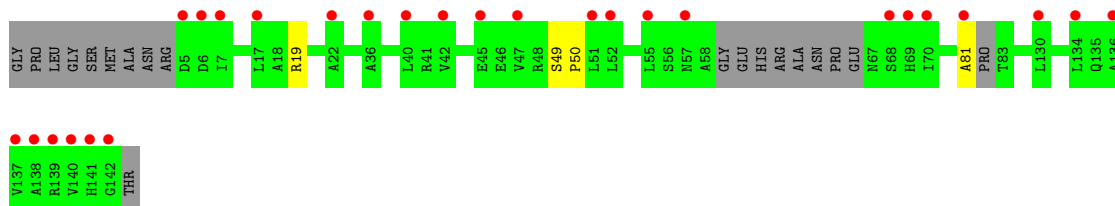
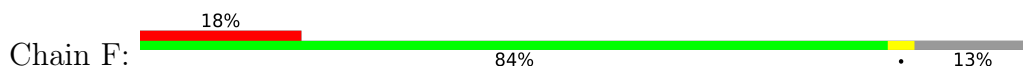
- Molecule 1: Apoptosis inhibitor



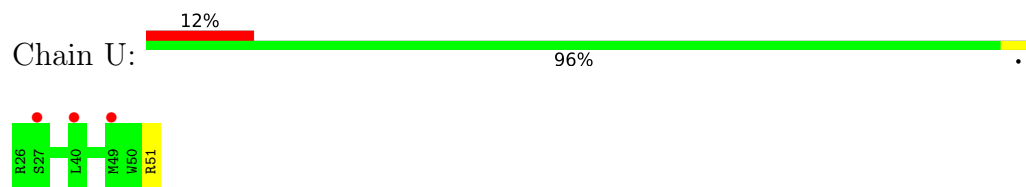
- Molecule 1: Apoptosis inhibitor



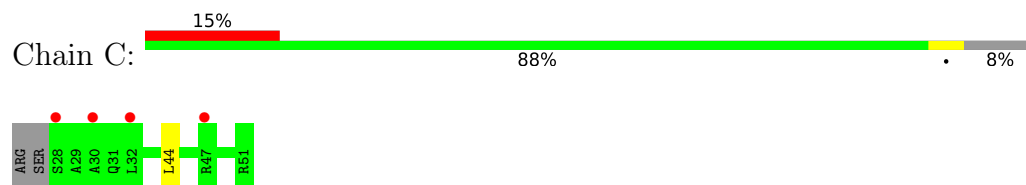
- Molecule 1: Apoptosis inhibitor



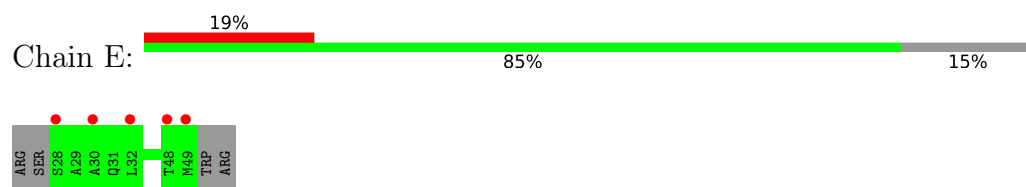
- Molecule 2: Activator of apoptosis harakiri



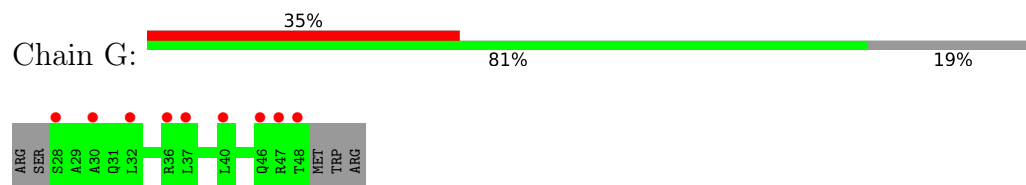
- Molecule 2: Activator of apoptosis harakiri



- Molecule 2: Activator of apoptosis harakiri



- Molecule 2: Activator of apoptosis harakiri



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	46.41Å 57.70Å 65.06Å 71.88° 76.61° 75.08°	Depositor
Resolution (Å)	38.57 – 1.99 38.57 – 1.99	Depositor EDS
% Data completeness (in resolution range)	95.9 (38.57-1.99) 95.9 (38.57-1.99)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.03 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, R_{free}	0.225 , 0.274 0.225 , 0.275	Depositor DCC
R_{free} test set	1959 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	47.7	Xtriage
Anisotropy	0.219	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9641	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.31% 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: GOL, EDO

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	0/1054	0.50	0/1432
1	B	0.35	0/1037	0.51	0/1406
1	D	0.34	0/1003	0.49	0/1362
1	F	0.30	0/1007	0.46	0/1369
2	C	0.28	0/192	0.45	0/257
2	E	0.34	0/165	0.50	0/220
2	G	0.25	0/157	0.37	0/210
2	U	0.36	0/209	0.49	0/279
All	All	0.33	0/4824	0.49	0/6535

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	F	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	F	81	ALA	Peptide

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	1038	1011	1024	3	0
1	B	1022	1011	1014	7	0
1	D	989	978	992	1	0
1	F	993	979	990	2	0
2	C	190	194	194	2	0
2	E	165	171	171	0	0
2	G	157	162	162	0	0
2	U	207	212	212	1	0
3	A	12	18	18	0	0
3	B	4	6	6	0	0
3	F	4	6	6	0	0
4	A	12	16	16	0	0
4	C	6	8	8	0	0
5	A	13	0	0	1	0
5	B	13	0	0	0	0
5	C	4	0	0	0	0
5	D	16	0	0	0	0
5	E	8	0	0	0	0
5	F	8	0	0	0	0
5	G	3	0	0	0	0
5	U	5	0	0	0	0
All	All	4869	4772	4813	12	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 1.

All (12) 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:139:ARG:NH1	2:U:51:ARG:O	2.24	0.70
1:A:64:ASN:N	5:A:301:HOH:O	2.38	0.56
1:D:8:ASP:OD2	1:D:11:ALA:N	2.37	0.53
1:B:47:VAL:HG21	2:C:44:LEU:HD22	1.90	0.52
1:B:70:ILE:HB	1:B:71:PRO:HD3	1.91	0.51
1:B:47:VAL:O	1:B:47:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:24:ALA:O	1:B:28:GLN:HG2	2.18	0.44
1:F:49:SER:HB2	1:F:50:PRO:HD3	2.00	0.43
1:B:47:VAL:CG2	2:C:44:LEU:HD22	2.48	0.42
1:A:70:ILE:HB	1:A:71:PRO:HD3	2.00	0.42
1:B:41:ARG:NH1	1:F:19:ARG:HD3	2.36	0.41
1:B:104:ARG:O	1:B:107:GLN:HG2	2.22	0.40

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	128/148 (86%)	124 (97%)	4 (3%)	0	100	100
1	B	124/148 (84%)	119 (96%)	5 (4%)	0	100	100
1	D	122/148 (82%)	120 (98%)	2 (2%)	0	100	100
1	F	125/148 (84%)	121 (97%)	4 (3%)	0	100	100
2	C	22/26 (85%)	22 (100%)	0	0	100	100
2	E	20/26 (77%)	20 (100%)	0	0	100	100
2	G	19/26 (73%)	19 (100%)	0	0	100	100
2	U	24/26 (92%)	24 (100%)	0	0	100	100
All	All	584/696 (84%)	569 (97%)	15 (3%)	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	109/117 (93%)	109 (100%)	0	100	100
1	B	107/117 (92%)	107 (100%)	0	100	100
1	D	104/117 (89%)	104 (100%)	0	100	100
1	F	103/117 (88%)	103 (100%)	0	100	100
2	C	18/20 (90%)	18 (100%)	0	100	100
2	E	16/20 (80%)	16 (100%)	0	100	100
2	G	15/20 (75%)	15 (100%)	0	100	100
2	U	20/20 (100%)	20 (100%)	0	100	100
All	All	492/548 (90%)	492 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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	EDO	F	201	-	3,3,3	0.47	0	2,2,2	0.22	0
3	EDO	A	205	-	3,3,3	0.51	0	2,2,2	0.15	0
3	EDO	A	202	-	3,3,3	0.48	0	2,2,2	0.26	0
4	GOL	A	203	-	5,5,5	0.29	0	5,5,5	0.42	0
4	GOL	C	101	-	5,5,5	0.39	0	5,5,5	0.19	0
3	EDO	B	201	-	3,3,3	0.44	0	2,2,2	0.29	0
4	GOL	A	204	-	5,5,5	0.40	0	5,5,5	0.27	0
3	EDO	A	201	-	3,3,3	0.55	0	2,2,2	0.15	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	EDO	F	201	-	-	0/1/1/1	-
3	EDO	A	205	-	-	1/1/1/1	-
3	EDO	A	202	-	-	0/1/1/1	-
4	GOL	A	203	-	-	2/4/4/4	-
4	GOL	C	101	-	-	2/4/4/4	-
3	EDO	B	201	-	-	0/1/1/1	-
4	GOL	A	204	-	-	2/4/4/4	-
3	EDO	A	201	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	203	GOL	O1-C1-C2-C3
4	C	101	GOL	C1-C2-C3-O3
4	A	204	GOL	O1-C1-C2-C3
4	A	204	GOL	O1-C1-C2-O2
3	A	205	EDO	O1-C1-C2-O2
4	A	203	GOL	O1-C1-C2-O2
4	C	101	GOL	O2-C2-C3-O3

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

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

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	134/148 (90%)	1.01	17 (12%) 3 3	37, 53, 112, 140	0
1	B	132/148 (89%)	1.01	19 (14%) 2 2	40, 57, 114, 140	0
1	D	128/148 (86%)	1.27	24 (18%) 1 1	42, 58, 122, 153	0
1	F	129/148 (87%)	1.38	27 (20%) 1 0	44, 65, 126, 204	0
2	C	24/26 (92%)	1.35	4 (16%) 1 1	48, 63, 119, 132	0
2	E	22/26 (84%)	1.41	5 (22%) 0 0	48, 63, 107, 164	0
2	G	21/26 (80%)	1.90	9 (42%) 0 0	66, 84, 116, 135	0
2	U	26/26 (100%)	1.03	3 (11%) 4 4	42, 51, 94, 102	0
All	All	616/696 (88%)	1.20	108 (17%) 1 1	37, 59, 119, 204	0

All (108) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	141	HIS	8.4
1	D	140	VAL	7.9
1	F	140	VAL	7.2
2	G	48	THR	7.2
1	B	140	VAL	7.2
1	D	65	PRO	6.9
1	F	5	ASP	5.9
1	F	51	LEU	5.7
1	D	136	ALA	5.7
2	C	32	LEU	5.7
1	B	141	HIS	5.6
1	A	59	GLY	5.4
2	G	32	LEU	5.1
1	D	134	LEU	5.1
1	D	139	ARG	5.0
1	B	61	HIS	5.0

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Mol	Chain	Res	Type	RSRZ
1	F	70	ILE	4.9
1	F	36	ALA	4.9
2	E	48	THR	4.9
2	C	30	ALA	4.9
1	D	137	VAL	4.9
2	G	30	ALA	4.8
1	B	134	LEU	4.8
1	F	137	VAL	4.7
1	F	136	ALA	4.6
2	E	32	LEU	4.6
1	F	57	ASN	4.6
1	D	66	GLU	4.6
1	F	142	GLY	4.6
1	D	138	ALA	4.4
1	B	60	GLU	4.3
1	F	7	ILE	4.1
1	F	55	LEU	4.1
1	B	58	ALA	4.0
1	B	42	VAL	4.0
1	F	81	ALA	4.0
2	G	47	ARG	3.4
1	F	40	LEU	3.4
1	D	133	TRP	3.3
2	E	49	MET	3.2
1	A	61	HIS	3.2
1	F	69	HIS	3.1
1	D	68	SER	3.1
2	E	28	SER	3.0
1	A	57	ASN	3.0
1	D	106	ARG	2.9
1	F	134	LEU	2.8
1	B	31	PRO	2.8
2	G	37	LEU	2.8
2	C	28	SER	2.8
1	A	95	CYS	2.8
1	A	115	VAL	2.7
1	A	111	PHE	2.6
1	D	115	VAL	2.6
1	B	65	PRO	2.6
1	B	138	ALA	2.6
1	D	130	LEU	2.6
1	D	19	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	72	ALA	2.6
1	D	113	ARG	2.6
1	F	52	LEU	2.5
1	F	130	LEU	2.5
2	G	28	SER	2.5
1	A	89	VAL	2.5
1	D	57	ASN	2.4
2	G	40	LEU	2.4
2	C	47	ARG	2.4
1	F	139	ARG	2.4
1	F	17	LEU	2.4
1	B	142	GLY	2.3
1	D	135	GLN	2.3
1	F	138	ALA	2.3
1	B	67	ASN	2.3
1	F	6	ASP	2.3
1	A	86	GLY	2.2
1	A	109	VAL	2.2
1	D	11	ALA	2.2
1	F	42	VAL	2.2
2	U	27	SER	2.2
1	A	60	GLU	2.2
1	D	114	LEU	2.2
2	U	40	LEU	2.2
1	A	96	ALA	2.2
1	F	68	SER	2.2
2	G	46	GLN	2.2
1	D	15	ALA	2.2
1	A	108	LEU	2.2
1	D	122	LEU	2.2
1	F	22	ALA	2.2
2	G	36	ARG	2.2
1	B	95	CYS	2.2
1	B	40	LEU	2.1
1	F	45	GLU	2.1
1	A	6	ASP	2.1
1	D	117	VAL	2.1
1	F	47	VAL	2.1
2	U	49	MET	2.1
1	B	70	ILE	2.1
1	B	109	VAL	2.1
1	A	140	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	36	ALA	2.1
1	B	126	ALA	2.1
2	E	30	ALA	2.1
1	D	51	LEU	2.1
1	B	6	ASP	2.0
1	A	67	ASN	2.0
1	D	67	ASN	2.0
1	A	31	PRO	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

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
4	GOL	A	203	6/6	0.57	0.25	68,90,105,109	0
3	EDO	A	201	4/4	0.58	0.27	62,75,82,87	0
3	EDO	F	201	4/4	0.65	0.26	88,106,113,114	0
4	GOL	A	204	6/6	0.73	0.16	75,104,125,125	0
4	GOL	C	101	6/6	0.81	0.19	75,117,136,141	0
3	EDO	A	202	4/4	0.83	0.18	80,98,116,118	0
3	EDO	B	201	4/4	0.84	0.18	58,70,75,81	0
3	EDO	A	205	4/4	0.92	0.20	58,70,77,79	0

6.5 Other polymers [i](#)

There are no such residues in this entry.