Full wwPDB X-ray Structure Validation Report ⓘ

Dec 20, 2021 – 03:04 pm GMT

PDB ID	:	7QIK
Title	:	SARS-CoV-2 Nucleocapsid phosphopeptide 193-200 bound to human 14-3-3 sigma
Authors	:	Sluchanko, N.N.; Tugaeva, K.V.; Smith, J.L.R.; Antson, A.A.
Deposited on	:	2021-12-15
Resolution	:	2.01 Å(reported)

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

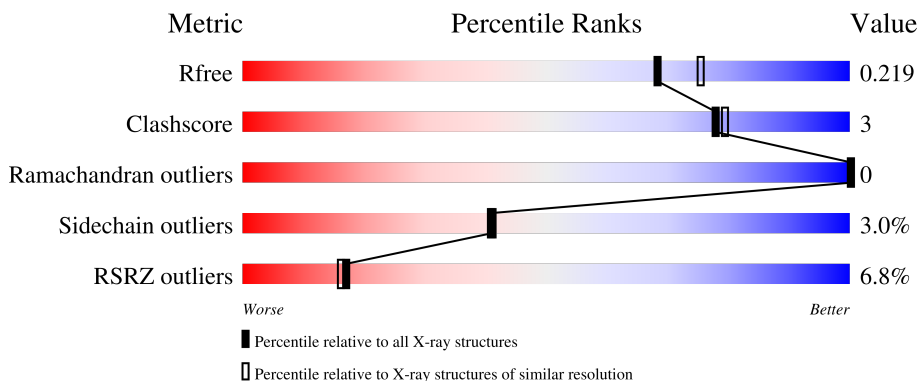|		
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.24
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.24

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 2.01 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	Percentile Ranks	Value
Rfree		0.219
Clashscore		3
Ramachandran outliers		0
Sidechain outliers		3.0%
RSRZ outliers		6.8%

Worse   *Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

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 <=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	8% / 90% / 5% / 5%
1	B	234	3% / 91% / 5% / •
2	E	8	25% / 75% / 25%
2	F	8	25% / 50% / 12% / 12% / 25%

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
3	PEG	A	302	-	-	-	X
6	TRS	B	304	-	-	-	X

2 Entry composition ⓘ

There are 7 unique types of molecules in this entry. The entry contains 4047 atoms, of which 37 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 14-3-3 protein sigma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	222	Total	C	N	O	S	0	2	0
			1737	1094	290	344	9			
1	B	225	Total	C	N	O	S	0	1	0
			1779	1115	301	353	10			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP P31947
A	-1	PRO	-	expression tag	UNP P31947
A	0	HIS	-	expression tag	UNP P31947
A	75	ALA	GLU	engineered mutation	UNP P31947
A	76	ALA	GLU	engineered mutation	UNP P31947
A	77	ALA	LYS	engineered mutation	UNP P31947
B	-2	GLY	-	expression tag	UNP P31947
B	-1	PRO	-	expression tag	UNP P31947
B	0	HIS	-	expression tag	UNP P31947
B	75	ALA	GLU	engineered mutation	UNP P31947
B	76	ALA	GLU	engineered mutation	UNP P31947
B	77	ALA	LYS	engineered mutation	UNP P31947

- Molecule 2 is a protein called SER-SER-ARG-ASN-SEP-THR-PRO-GLY.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	E	8	Total	C	N	O	P	0	0	0
			59	30	12	16	1			
2	F	6	Total	C	N	O	P	0	0	0
			49	25	10	13	1			

- Molecule 3 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).

PEG

C4

OH O4

O2

O

C3

C1

HO

C2

O1

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 7 4 3	0	0
3	A	1	Total C H O 15 4 9 2	9	0
3	B	1	Total C O 7 4 3	0	0
3	B	1	Total C O 4 2 2	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).

GOL

C3

OH O3

C1 C2

HO OH

O1 O2

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

- Molecule 5 is BROMIDE ION (three-letter code: BR) (formula: Br).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	3	Total 3	Br 3	0	0
5	B	1	Total 1	Br 1	0	0

- Molecule 6 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: $C_4H_{12}NO_3$).
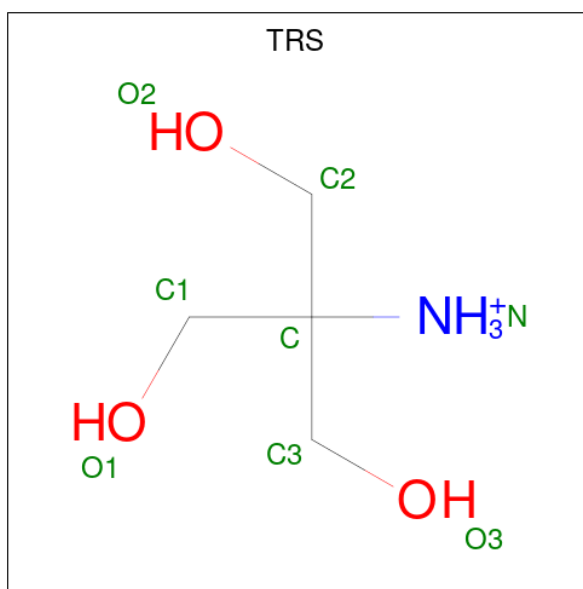
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	B	1	Total 20	C 4	H 12	N 1	O 3	12	0

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	144	Total 144	O 144	0	0
7	B	178	Total 178	O 178	0	0

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| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	E	8	Total 8	O 8	0	0
7	F	8	Total 8	O 8	0	0

3 Residue-property plots ⓘ

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.
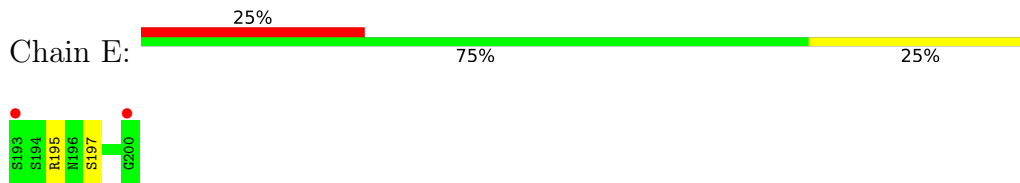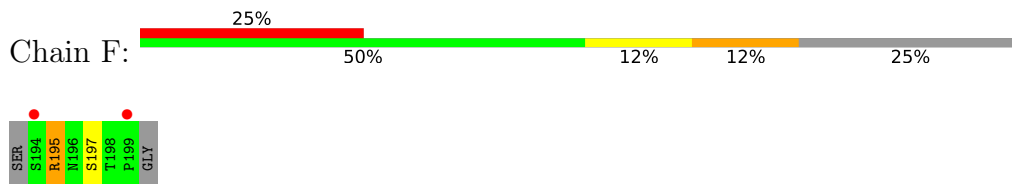
- Molecule 1: 14-3-3 protein sigma
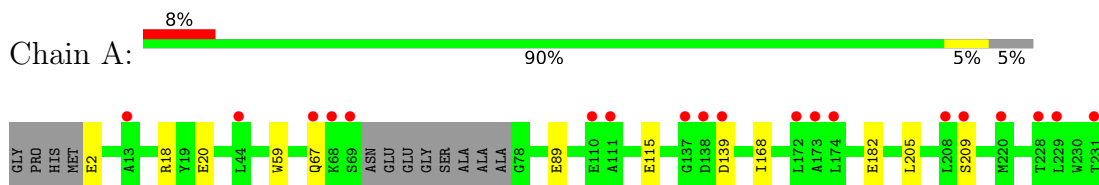
Chain A:

- Molecule 1: 14-3-3 protein sigma
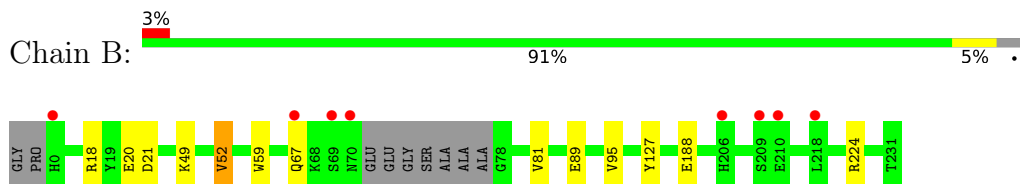
Chain B:

- Molecule 2: SER-SER-ARG-ASN-SEP-THR-PRO-GLY

Chain E:

- Molecule 2: SER-SER-ARG-ASN-SEP-THR-PRO-GLY

Chain F:

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	47.44Å 111.27Å 115.17Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.18 – 2.01 20.18 – 2.01	Depositor EDS
% Data completeness (in resolution range)	96.2 (20.18-2.01) 96.2 (20.18-2.01)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.40 (at 2.01Å)	Xtriage
Refinement program	BUSTER 2.10.4	Depositor
R, R_{free}	0.200 , 0.226 0.196 , 0.219	Depositor DCC
R_{free} test set	2050 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å^2)	36.9	Xtriage
Anisotropy	0.582	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	(Not available) , (Not available)	EDS
L-test for twinning[2]	$< |L| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.002 for -h,l,k	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	4047	wwPDB-VP
Average B, all atoms (Å^2)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.59% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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, SEP, BR, PEG, TRS

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	0.41	0/1762	0.52	0/2376
1	B	0.43	0/1805	0.51	0/2431
2	E	0.49	0/48	0.64	0/62
2	F	0.49	0/38	0.52	0/49
All	All	0.42	0/3653	0.52	0/4918

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	1737	0	1676	11	0
1	B	1779	0	1740	9	0
2	E	59	0	48	0	0
2	F	49	0	40	1	0
3	A	13	9	17	3	0
3	B	11	0	15	4	0
4	A	6	8	8	0	0
4	B	6	8	8	0	0
5	A	3	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	1	0	0	1	0
6	B	8	12	12	0	0
7	A	144	0	0	0	0
7	B	178	0	0	2	0
7	E	8	0	0	0	0
7	F	8	0	0	0	0
All	All	4010	37	3564	21	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 3.

All (21) 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:18:ARG:HA	3:A:301:PEG:H12	1.49	0.91
1:B:18:ARG:HA	3:B:301:PEG:H21	1.55	0.85
1:A:18:ARG:CA	3:A:301:PEG:H12	2.22	0.68
5:B:305:BR:BR	7:B:578:HOH:O	2.66	0.67
1:A:59:TRP:CD1	1:A:89:GLU:HG3	2.32	0.65
1:A:59:TRP:NE1	1:A:89:GLU:HG3	2.17	0.60
1:B:59:TRP:CD1	1:B:89:GLU:HG3	2.37	0.58
1:A:115:GLU:HG2	1:A:168:ILE:HD12	1.85	0.57
1:B:20:GLU:HB2	3:B:301:PEG:H42	1.86	0.57
1:A:139:ASP:HB2	5:A:305:BR:BR	2.62	0.54
1:B:59:TRP:NE1	1:B:89:GLU:HG3	2.24	0.52
1:A:59:TRP:HE1	1:A:89:GLU:HG3	1.77	0.49
1:B:81:VAL:HG23	7:B:547:HOH:O	2.15	0.47
1:A:182:GLU:CD	2:F:195:ARG:HE	2.19	0.46
1:A:20:GLU:HB2	3:A:301:PEG:H21	2.00	0.44
1:A:115:GLU:CG	1:A:168:ILE:HD12	2.47	0.44
1:A:59:TRP:HE1	1:A:89:GLU:CG	2.32	0.43
1:B:21:ASP:CG	3:B:301:PEG:H31	2.40	0.42
1:B:59:TRP:HE1	1:B:89:GLU:HG3	1.84	0.42
1:B:95:VAL:HA	3:B:302:PEG:H42	2.02	0.41
1:B:52[B]:VAL:HG21	1:B:127:TYR:HE2	1.86	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	220/234 (94%)	217 (99%)	3 (1%)	0	100	100
1	B	222/234 (95%)	220 (99%)	2 (1%)	0	100	100
2	E	5/8 (62%)	5 (100%)	0	0	100	100
2	F	3/8 (38%)	3 (100%)	0	0	100	100
All	All	450/484 (93%)	445 (99%)	5 (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	176/195 (90%)	172 (98%)	4 (2%)	50	53
1	B	186/195 (95%)	180 (97%)	6 (3%)	39	38
2	E	6/6 (100%)	5 (83%)	1 (17%)	2	1
2	F	5/6 (83%)	4 (80%)	1 (20%)	1	0
All	All	373/402 (93%)	361 (97%)	12 (3%)	41	38

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	GLU
1	A	67	GLN

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Mol	Chain	Res	Type
1	A	205	LEU
1	A	209	SER
1	B	49	LYS
1	B	52[A]	VAL
1	B	52[B]	VAL
1	B	67	GLN
1	B	188	GLU
1	B	224	ARG
2	E	195	ARG
2	F	195	ARG

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

Mol	Chain	Res	Type
1	B	185	ASN

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	#$|Z| > 2$
2	SEP	E	197	2	8,9,10	0.82	0	8,12,14	1.58	1 (12%)
2	SEP	F	197	2	8,9,10	1.16	0	8,12,14	1.31	1 (12%)

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
2	SEP	E	197	2	-	0/5/8/10	-
2	SEP	F	197	2	-	0/5/8/10	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	197	SEP	OG-P-O1P	3.23	115.52	106.47
2	F	197	SEP	OG-P-O1P	2.80	114.33	106.47

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 11 ligands modelled in this entry, 4 are monoatomic - leaving 7 for Mogul analysis.

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	PEG	A	301	-	6,6,6	0.23	0	5,5,5	0.48	0
4	GOL	B	303	-	5,5,5	0.05	0	5,5,5	0.41	0
3	PEG	B	301	-	6,6,6	0.30	0	5,5,5	0.35	0
3	PEG	B	302	-	3,3,6	0.24	0	2,2,5	0.25	0
4	GOL	A	303	-	5,5,5	0.10	0	5,5,5	0.18	0
6	TRS	B	304	-	7,7,7	0.20	0	9,9,9	0.32	0
3	PEG	A	302	-	5,5,6	0.31	0	4,4,5	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	PEG	A	301	-	-	1/4/4/4	-
4	GOL	B	303	-	-	3/4/4/4	-
3	PEG	B	301	-	-	2/4/4/4	-
3	PEG	B	302	-	-	0/1/1/4	-
4	GOL	A	303	-	-	1/4/4/4	-
6	TRS	B	304	-	-	3/9/9/9	-
3	PEG	A	302	-	-	2/3/3/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	303	GOL	O1-C1-C2-C3
6	B	304	TRS	C1-C-C3-O3
6	B	304	TRS	C2-C-C3-O3
6	B	304	TRS	N-C-C3-O3
3	A	301	PEG	O1-C1-C2-O2
3	B	301	PEG	O1-C1-C2-O2
3	A	302	PEG	O2-C3-C4-O4
4	B	303	GOL	O1-C1-C2-O2
3	A	302	PEG	C1-C2-O2-C3
3	B	301	PEG	C1-C2-O2-C3
4	A	303	GOL	C1-C2-C3-O3
4	B	303	GOL	C1-C2-C3-O3

There are no ring outliers.

3 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	301	PEG	3	0
3	B	301	PEG	3	0
3	B	302	PEG	1	0

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	222/234 (94%)	0.49	19 (8%)	10	9	31, 47, 71, 86	6 (2%)
1	B	225/234 (96%)	0.27	8 (3%)	42	42	29, 41, 65, 94	9 (4%)
2	E	7/8 (87%)	1.92	2 (28%)	0	0	41, 45, 56, 61	1 (14%)
2	F	5/8 (62%)	1.48	2 (40%)	0	0	53, 57, 62, 66	0
All	All	459/484 (94%)	0.42	31 (6%)	17	16	29, 44, 70, 94	16 (3%)

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	69	SER	8.6
2	E	193	SER	8.3
1	B	67	GLN	6.3
1	A	138	ASP	5.5
1	A	229	LEU	4.6
1	A	111	ALA	4.0
1	A	110	GLU	3.8
1	B	70	ASN	3.8
2	E	200	GLY	3.4
1	B	0	HIS	3.3
2	F	194	SER	3.2
1	A	174	LEU	3.1
1	A	67	GLN	3.1
1	B	210	GLU	3.0
1	A	209	SER	3.0
1	A	231	THR	2.9
1	A	208	LEU	2.8
1	A	68	LYS	2.8
1	A	137	GLY	2.7
1	A	139	ASP	2.7
1	A	69	SER	2.6

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Mol	Chain	Res	Type	RSRZ
2	F	199	PRO	2.5
1	A	44	LEU	2.4
1	B	218	LEU	2.4
1	A	228	THR	2.3
1	B	209	SER	2.3
1	A	13	ALA	2.2
1	B	206	HIS	2.2
1	A	173	ALA	2.2
1	A	172	LEU	2.1
1	A	220	MET	2.0

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

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	SEP	E	197	10/11	0.96	0.10	27,34,38,38	0
2	SEP	F	197	10/11	0.98	0.11	33,47,49,50	0

6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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	PEG	B	302	4/7	0.71	0.28	47,48,50,51	0
3	PEG	A	302	6/7	0.72	0.43	64,66,67,67	9
6	TRS	B	304	8/8	0.74	0.46	93,98,102,102	12
4	GOL	A	303	6/6	0.77	0.20	84,85,86,87	8
3	PEG	B	301	7/7	0.84	0.27	45,46,48,50	0
3	PEG	A	301	7/7	0.84	0.26	38,43,47,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($Å^2$)	Q<0.9
4	GOL	B	303	6/6	0.87	0.13	73,77,80,80	8
5	BR	A	305	1/1	0.91	0.28	119,119,119,119	0
5	BR	A	306	1/1	0.96	0.24	112,112,112,112	0
5	BR	A	304	1/1	0.97	0.07	50,50,50,50	0
5	BR	B	305	1/1	0.99	0.06	47,47,47,47	0

6.5 Other polymers ⓘ

There are no such residues in this entry.