



Full wwPDB NMR Structure Validation Report ⓘ

Mar 17, 2026 – 04:09 PM UTC

PDB ID : 6K5T / pdb_00006k5t
BMRB ID : 36260
Title : Complex of SUMO1 and phosphorylated hcmv protein IE2
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Deposited on : 2019-05-31

This is a Full wwPDB NMR 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/NMRValidationReportHelp>

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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

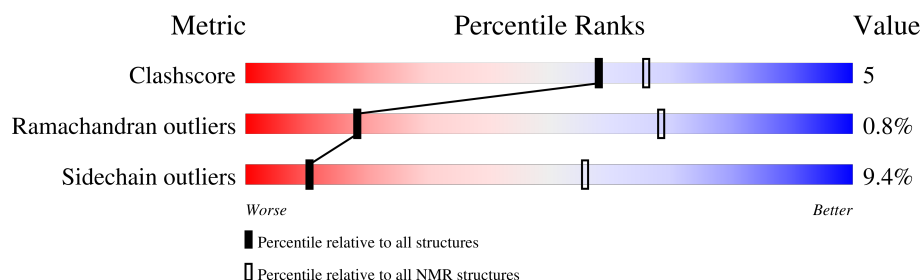
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 12%.

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)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	77	
2	B	12	

2 Ensemble composition and analysis

This entry contains 20 models. Model 13 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:21-A:97, B:195-B:202, B:204-B:204, B:206-B:206 (87)	0.49	13

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 5 clusters and 2 single-model clusters were found.

Cluster number	Models
1	1, 9, 10, 13, 16, 17
2	2, 3, 5, 11, 19
3	6, 7, 20
4	4, 15
5	12, 18
Single-model clusters	8; 14

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1417 atoms, of which 700 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Small ubiquitin-related modifier 1.

Mol	Chain	Residues	Atoms							Trace
1	A	77	Total	C	H	N	O	S		0
			1254	395	627	108	120	4		

- Molecule 2 is a protein called 12-mer from Viral transcription factor IE2.

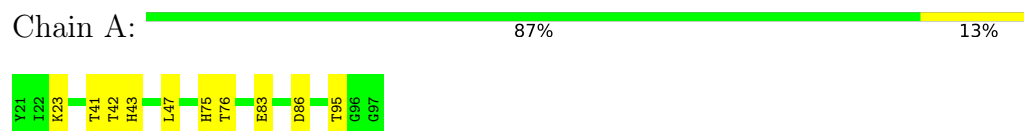
Mol	Chain	Residues	Atoms							Trace
2	B	12	Total	C	H	N	O	P	S	0
			163	48	73	12	27	2	1	

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Small ubiquitin-related modifier 1



- Molecule 2: 12-mer from Viral transcription factor IE2

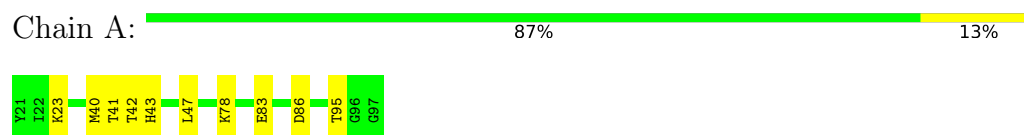


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Small ubiquitin-related modifier 1

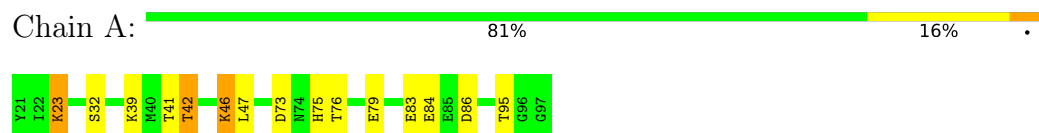


- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.2 Score per residue for model 2

- Molecule 1: Small ubiquitin-related modifier 1

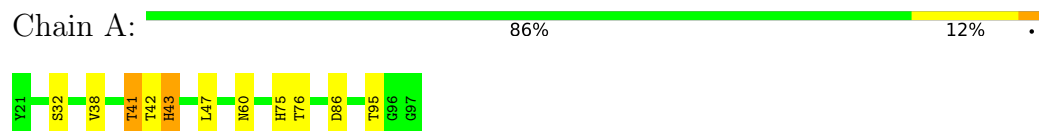


- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.3 Score per residue for model 3

- Molecule 1: Small ubiquitin-related modifier 1

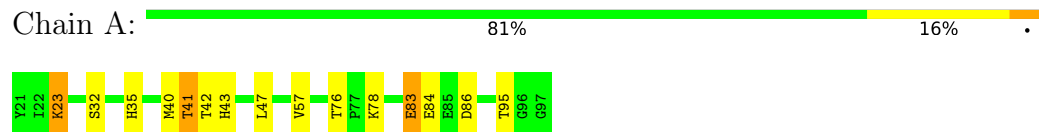


- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.4 Score per residue for model 4

- Molecule 1: Small ubiquitin-related modifier 1



- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.5 Score per residue for model 5

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  87% 10%



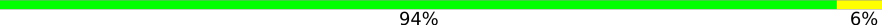
- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B:  58% 25% 17%



4.2.6 Score per residue for model 6

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  94% 6%



- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B:  58% 25% 17%



4.2.7 Score per residue for model 7

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  88% 9%



- Molecule 2: 12-mer from Viral transcription factor IE2

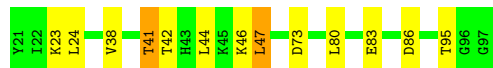
Chain B:  58% 25% 17%



4.2.8 Score per residue for model 8

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  83% 14%



- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B:  58% 25% 17%



4.2.9 Score per residue for model 9

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  84% 14%



- Molecule 2: 12-mer from Viral transcription factor IE2

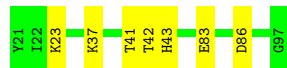
Chain B:  50% 33% 17%



4.2.10 Score per residue for model 10

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  91% 9%



- Molecule 2: 12-mer from Viral transcription factor IE2

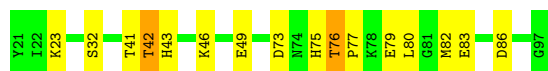
Chain B:  67% 17% 17%



4.2.11 Score per residue for model 11

- Molecule 1: Small ubiquitin-related modifier 1

Chain A: 79% 18%



- Molecule 2: 12-mer from Viral transcription factor IE2

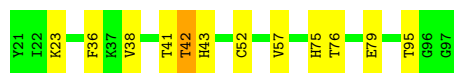
Chain B: 75% 8% 17%



4.2.12 Score per residue for model 12

- Molecule 1: Small ubiquitin-related modifier 1

Chain A: 84% 14%



- Molecule 2: 12-mer from Viral transcription factor IE2

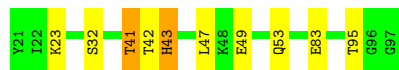
Chain B: 58% 17% 8% 17%



4.2.13 Score per residue for model 13 (medoid)

- Molecule 1: Small ubiquitin-related modifier 1

Chain A: 87% 10%



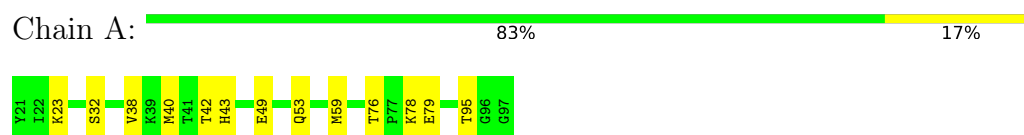
- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B: 33% 50% 17%



4.2.14 Score per residue for model 14

- Molecule 1: Small ubiquitin-related modifier 1

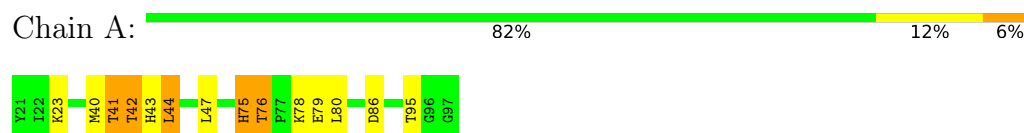


- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.15 Score per residue for model 15

- Molecule 1: Small ubiquitin-related modifier 1

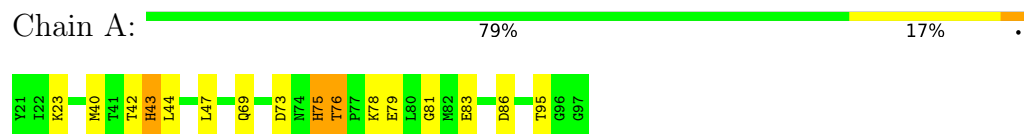


- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.16 Score per residue for model 16

- Molecule 1: Small ubiquitin-related modifier 1



- Molecule 2: 12-mer from Viral transcription factor IE2



4.2.17 Score per residue for model 17

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  82% 17% .



- Molecule 2: 12-mer from Viral transcription factor IE2

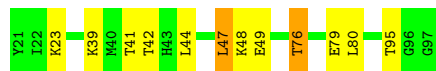
Chain B:  58% 25% 17%



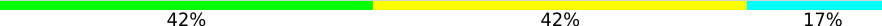
4.2.18 Score per residue for model 18

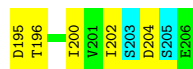
- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  84% 13% .



- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B:  42% 42% 17%



4.2.19 Score per residue for model 19

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  82% 14% .



- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B:  67% 8% 8% 17%



4.2.20 Score per residue for model 20

- Molecule 1: Small ubiquitin-related modifier 1

Chain A:  87% 10% .



- Molecule 2: 12-mer from Viral transcription factor IE2

Chain B:  67% 17% 17%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
HADDOCK	structure calculation	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	142
Number of shifts mapped to atoms	142
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	12%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SEP

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 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 each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	627	627	626	6±2
2	B	70	65	64	4±1
All	All	13940	13840	13800	130

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 5.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:THR:HA	2:B:204:ASP:O	0.75	1.80	2	11
1:A:43:HIS:NE2	2:B:206:GLU:HA	0.74	1.97	1	6
1:A:42:THR:HG22	2:B:204:ASP:H	0.74	1.42	5	11
1:A:42:THR:HG23	2:B:204:ASP:H	0.69	1.46	12	6
1:A:46:LYS:HG2	2:B:202:ILE:HD11	0.67	1.67	7	2
1:A:42:THR:HG23	2:B:204:ASP:N	0.66	2.05	8	5
1:A:47:LEU:HD22	2:B:202:ILE:HD11	0.66	1.68	8	1
1:A:47:LEU:HD13	2:B:202:ILE:HD13	0.65	1.67	18	1
1:A:77:PRO:HA	1:A:82:MET:SD	0.62	2.34	11	1
1:A:23:LYS:HD2	1:A:35:HIS:ND1	0.62	2.10	4	1
1:A:39:LYS:HB2	1:A:42:THR:HG23	0.60	1.73	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:LEU:HD22	2:B:202:ILE:HD13	0.60	1.74	5	5
1:A:42:THR:HG23	2:B:204:ASP:CB	0.60	2.26	16	1
1:A:44:LEU:HD12	1:A:75:HIS:HB3	0.59	1.74	16	1
1:A:41:THR:HG23	2:B:204:ASP:O	0.58	1.99	6	8
1:A:40:MET:O	1:A:41:THR:HB	0.57	2.00	4	3
1:A:43:HIS:CE1	2:B:206:GLU:HA	0.55	2.36	14	2
1:A:44:LEU:HA	1:A:47:LEU:HD23	0.54	1.79	8	2
2:B:202:ILE:HD11	2:B:204:ASP:HB2	0.53	1.79	19	1
1:A:39:LYS:HB3	1:A:42:THR:HG23	0.53	1.80	5	1
1:A:52:CYS:SG	1:A:59:MET:HA	0.51	2.46	9	1
1:A:83:GLU:O	1:A:86:ASP:HB2	0.50	2.06	2	9
1:A:76:THR:O	1:A:79:GLU:HG2	0.50	2.06	15	9
1:A:47:LEU:CD1	2:B:202:ILE:HG21	0.50	2.37	18	1
1:A:39:LYS:HB3	1:A:42:THR:OG1	0.49	2.08	17	1
1:A:44:LEU:HB2	1:A:75:HIS:O	0.49	2.07	19	3
1:A:40:MET:SD	1:A:78:LYS:HE2	0.49	2.48	17	7
1:A:43:HIS:CD2	2:B:206:GLU:HB2	0.49	2.43	3	2
1:A:46:LYS:HG3	2:B:202:ILE:HD13	0.48	1.83	8	1
1:A:42:THR:HG22	2:B:204:ASP:N	0.47	2.23	1	2
1:A:33:GLU:HB2	2:B:196:THR:O	0.47	2.10	17	1
1:A:38:VAL:HG12	1:A:47:LEU:HD11	0.47	1.86	5	1
1:A:38:VAL:HG11	1:A:47:LEU:HD21	0.46	1.88	8	1
1:A:47:LEU:HD13	2:B:202:ILE:HG21	0.45	1.88	19	2
1:A:42:THR:HG23	2:B:204:ASP:HB3	0.44	1.88	16	1
1:A:43:HIS:NE2	2:B:206:GLU:HB2	0.44	2.28	16	1
1:A:23:LYS:HB3	1:A:84:GLU:OE2	0.44	2.13	4	2
1:A:42:THR:HB	2:B:204:ASP:HB3	0.44	1.89	10	6
1:A:43:HIS:CE1	2:B:206:GLU:HB2	0.42	2.49	17	1
1:A:49:GLU:O	1:A:53:GLN:HG3	0.42	2.14	14	2
1:A:44:LEU:O	1:A:48:LYS:HG3	0.41	2.15	18	1
1:A:36:PHE:HE1	2:B:202:ILE:CG2	0.41	2.29	12	1
1:A:46:LYS:HD2	2:B:204:ASP:CG	0.41	2.40	11	1
1:A:52:CYS:HB3	1:A:57:VAL:O	0.41	2.16	12	1
1:A:46:LYS:HD2	2:B:204:ASP:HB2	0.40	1.92	17	1

6.3 Torsion angles ⓘ

6.3.1 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 PDB entries followed by that with respect to all NMR

entries. 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	75/77 (97%)	70±1 (94±2%)	4±1 (5±2%)	1±1 (1±1%)	16	66
2	B	8/12 (67%)	8±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
All	All	1660/1780 (93%)	1566 (94%)	81 (5%)	13 (1%)	18	68

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	41	THR	11
1	A	81	GLY	2

6.3.2 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 PDB entries followed by that with respect to all NMR entries. 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	70/70 (100%)	64±2 (92±3%)	6±2 (8±3%)	12	59
2	B	8/8 (100%)	7±1 (82±12%)	1±1 (18±12%)	4	37
All	All	1560/1560 (100%)	1413 (91%)	147 (9%)	10	56

All 32 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	23	LYS	18
1	A	95	THR	17
2	B	196	THR	9
1	A	47	LEU	8
1	A	75	HIS	8
1	A	76	THR	8
2	B	202	ILE	8
1	A	32	SER	7
1	A	41	THR	6
1	A	43	HIS	6
2	B	200	ILE	6

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Mol	Chain	Res	Type	Models (Total)
1	A	42	THR	5
1	A	73	ASP	5
1	A	80	LEU	5
1	A	38	VAL	3
1	A	86	ASP	3
2	B	195	ASP	3
1	A	83	GLU	3
1	A	46	LYS	2
1	A	37	LYS	2
1	A	44	LEU	2
1	A	49	GLU	2
1	A	26	VAL	2
1	A	60	ASN	1
1	A	57	VAL	1
1	A	34	ILE	1
1	A	35	HIS	1
1	A	24	LEU	1
2	B	204	ASP	1
2	B	199	CYS	1
1	A	59	MET	1
1	A	69	GLN	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 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 for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds 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 is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	SEP	B	203	2	8,9,10	1.07±0.03	0±0 (0±0%)
2	SEP	B	205	2	8,9,10	1.55±0.03	1±0 (15±5%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of 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 angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
2	SEP	B	203	2	7,12,14	2.30±0.12	3±0 (42±0%)
2	SEP	B	205	2	7,12,14	2.32±0.16	3±0 (42±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
2	SEP	B	205	2	-	0±0,6,8,10	-
2	SEP	B	203	2	-	0±0,6,8,10	-

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	205	SEP	P-O1P	3.26	1.60	1.50	6	20
2	B	205	SEP	P-O2P	2.04	1.47	1.54	1	2
2	B	205	SEP	P-O3P	2.02	1.47	1.54	6	3

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	205	SEP	OG-CB-CA	5.02	113.03	108.14	16	20
2	B	203	SEP	OG-CB-CA	4.62	112.64	108.14	6	20
2	B	203	SEP	O2P-P-OG	3.15	114.88	106.67	12	20
2	B	205	SEP	O2P-P-OG	3.02	114.55	106.67	9	20
2	B	203	SEP	OG-P-O1P	3.00	114.54	106.44	14	20
2	B	205	SEP	O3P-P-OG	2.99	114.47	106.67	3	20

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 12% for the well-defined parts and 12% for the entire structure.

7.1 Chemical shift list 1

File name: `working_cs.cif`

Chemical shift list name: *starch_output*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	142
Number of shifts mapped to atoms	142
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	71	0.89 ± 0.31	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 12%, i.e. 141 atoms were assigned a chemical shift out of a possible 1198. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	141/438 (32%)	70/179 (39%)	0/174 (0%)	71/85 (84%)
Sidechain	0/682 (0%)	0/439 (0%)	0/218 (0%)	0/25 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/78 (0%)	0/39 (0%)	0/36 (0%)	0/3 (0%)
Overall	141/1198 (12%)	70/657 (11%)	0/428 (0%)	71/113 (63%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 12%, i.e. 141 atoms were assigned a chemical shift out of a possible 1198. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	141/438 (32%)	70/179 (39%)	0/174 (0%)	71/85 (84%)
Sidechain	0/682 (0%)	0/439 (0%)	0/218 (0%)	0/25 (0%)
Aromatic	0/78 (0%)	0/39 (0%)	0/36 (0%)	0/3 (0%)
Overall	141/1198 (12%)	70/657 (11%)	0/428 (0%)	71/113 (63%)

7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:

