



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 12:29 AM UTC

PDB ID : 9S6I / pdb_00009s6i
BMRB ID : 35010
Title : A tetrameric i-motif structure formed by dTdCdCfrCfrCdC
Authors : Ugedo, C.; Dominguez, A.; Gomez-Pinto, I.; Eritja, R.; Avino, A.; Gonzalez, C.
Deposited on : 2025-08-01

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
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

2 Ensemble composition and analysis

This entry contains 10 models. This entry does not contain polypeptide chains, therefore identification of well-defined residues and clustering analysis are not possible. All residues are included in the validation scores.

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 734 atoms, of which 278 are hydrogens and 0 are deuteriums.

- Molecule 1 is a DNA chain called DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3').

Mol	Chain	Residues	Atoms							Trace
			Total	C	F	H	N	O	P	
1	A	6	183	55	2	69	17	35	5	0
1	B	6	183	55	2	69	17	35	5	0

- Molecule 2 is a DNA chain called DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3').

Mol	Chain	Residues	Atoms							Trace
			Total	C	F	H	N	O	P	
2	C	6	184	55	2	70	17	35	5	0
2	D	6	184	55	2	70	17	35	5	0

4 Residue-property plots

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.

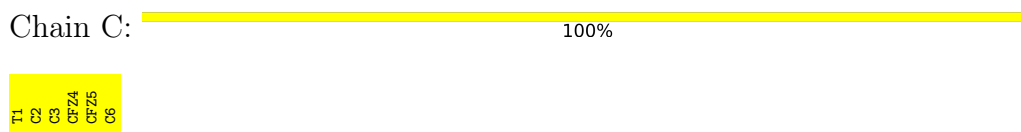
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



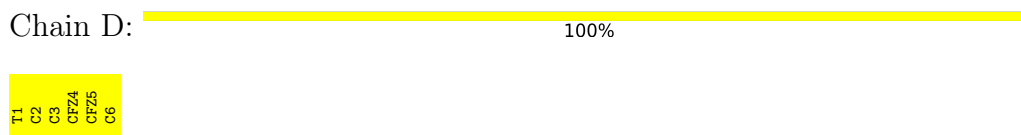
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')



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

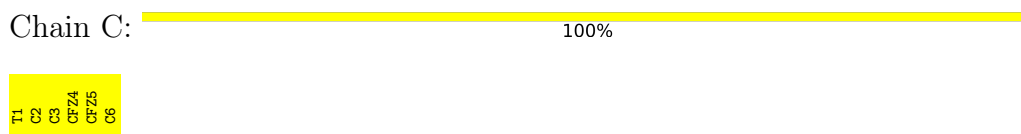
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



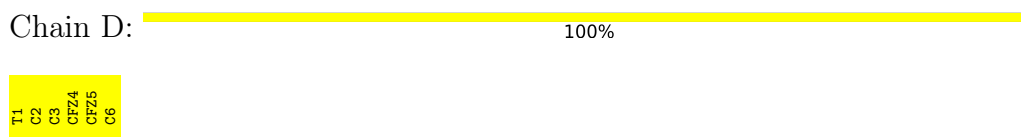
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

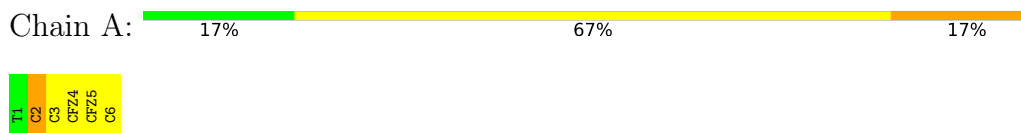


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')



4.2.2 Score per residue for model 2

- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

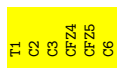


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')



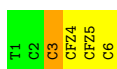


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

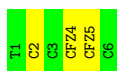


4.2.3 Score per residue for model 3

- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



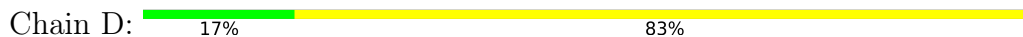
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

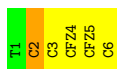


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')



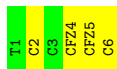
4.2.4 Score per residue for model 4

- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain B:  33% 67%

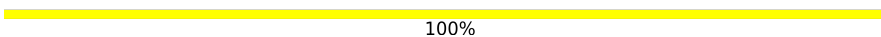


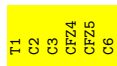
- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain C:  17% 83%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain D:  100%



4.2.5 Score per residue for model 5

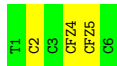
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain A:  50% 50%

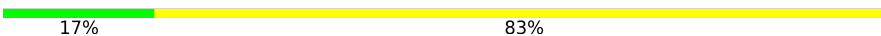


- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain B:  50% 50%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain C:  17% 83%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain D:  17% 83%

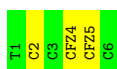


4.2.6 Score per residue for model 6

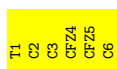
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

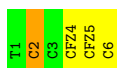


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')



4.2.7 Score per residue for model 7

- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

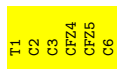


- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')




- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain C:  100%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

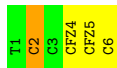
Chain D:  83% 17%




4.2.8 Score per residue for model 8

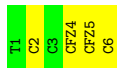
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain A:  33% 50% 17%



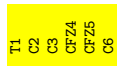
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain B:  33% 67%

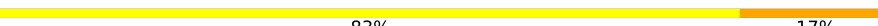


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain C:  100%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

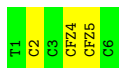
Chain D:  83% 17%



4.2.9 Score per residue for model 9

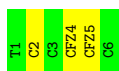
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain A:  50% 50%



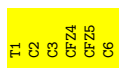
- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain B:  50% 50%

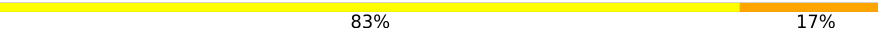


- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain C:  100%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

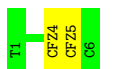
Chain D:  83% 17%




4.2.10 Score per residue for model 10

- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain A:  67% 33%

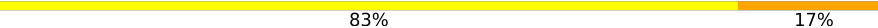


- Molecule 1: DNA (5'-D(*TP*CP*CP*(CFZ)P*(CFZ)P*C)-3')

Chain B:  33% 67%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain C:  83% 17%



- Molecule 2: DNA (5'-D(*TP*(DNR)P*(DNR)P*(CFZ)P*(CFZ)P*(DNR))-3')

Chain D:

100%

T1
C2
C3
CFZ4
CFZ5
C6

5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 10 calculated structures, 10 were deposited, based on the following criterion: *all calculated structures submitted*.

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

Software name	Classification	Version
TopSpin	refinement	
Amber	structure calculation	22

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	65
Number of shifts mapped to atoms	65
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	5%

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: DNR, CFZ

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 (average) 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	0.69±0.02	0±0/80 (0.0± 0.0%)	1.70±0.16	1±1/118 (0.9± 1.0%)
1	B	0.68±0.02	0±0/80 (0.0± 0.0%)	1.69±0.09	0±0/118 (0.2± 0.3%)
2	C	0.65±0.02	0±0/18 (0.0± 0.0%)	1.46±0.21	0±0/26 (0.4± 1.2%)
2	D	0.66±0.05	0±0/18 (0.0± 0.0%)	1.53±0.25	0±0/26 (1.2± 1.8%)
All	All	0.68	0/1960 (0.0%)	1.67	17/2880 (0.6%)

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	Planarity
1	A	0.0±0.0	1.4±0.8
1	B	0.0±0.0	1.4±0.5
2	C	0.0±0.0	0.6±0.5
2	D	0.0±0.0	0.7±0.5
All	All	0	41

There are no bond-length outliers.

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
1	B	3	DC	C4'-C3'-O3'	8.83	123.25	110.00	10	2
1	A	2	DC	C4'-C3'-O3'	7.36	121.03	110.00	4	4
1	A	3	DC	C4'-C3'-O3'	6.29	119.43	110.00	3	4
1	A	2	DC	C4'-C3'-C2'	-5.86	93.62	102.40	4	3
2	D	1	DT	N1-C1'-C2'	-5.84	104.73	113.50	7	3
2	C	1	DT	N1-C1'-C2'	-5.65	105.03	113.50	10	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	B	2	DC	Sidechain	10
1	A	6	DC	Sidechain	7
2	D	1	DT	Sidechain	7
2	C	1	DT	Sidechain	6
1	A	2	DC	Sidechain	6
1	B	6	DC	Sidechain	3
1	B	1	DT	Sidechain	1
1	A	3	DC	Sidechain	1

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
All	All	4560	2780	2740	-

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 -.

There are no clashes.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

6.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

14 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	DNR	C	2	1,2	17,20,21	0.59±0.02	0±0 (0±0%)
1	CFZ	B	5	1,2	18,21,22	0.88±0.03	1±0 (5±0%)
1	CFZ	A	4	1,2	18,21,22	0.90±0.02	1±0 (5±0%)
2	CFZ	C	4	1,2	18,21,22	0.76±0.03	0±0 (0±0%)
2	CFZ	D	5	1,2	18,21,22	0.76±0.05	0±0 (0±0%)
2	DNR	C	6	1,2	17,20,21	0.63±0.02	0±0 (0±0%)
2	DNR	D	6	1,2	17,20,21	0.65±0.03	0±0 (0±0%)
2	CFZ	D	4	1,2	18,21,22	0.72±0.03	0±0 (0±0%)
2	CFZ	C	5	1,2	18,21,22	0.78±0.03	0±0 (0±0%)
2	DNR	D	3	1,2	17,20,21	0.64±0.04	0±0 (0±0%)
1	CFZ	A	5	1,2	18,21,22	0.89±0.05	1±0 (4±2%)
2	DNR	D	2	1,2	17,20,21	0.63±0.04	0±0 (0±0%)
2	DNR	C	3	1,2	17,20,21	0.63±0.03	0±0 (0±0%)
1	CFZ	B	4	1,2	18,21,22	0.90±0.02	1±0 (5±0%)

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	Bond angles		
					Counts	RMSZ	#Z>2
2	DNR	C	2	1,2	23,28,31	1.31±0.19	3±1 (13±2%)
1	CFZ	B	5	1,2	25,30,33	1.41±0.19	4±2 (16±6%)
1	CFZ	A	4	1,2	25,30,33	1.32±0.10	4±1 (14±5%)
2	CFZ	C	4	1,2	25,30,33	1.74±0.08	6±2 (23±6%)
2	CFZ	D	5	1,2	25,30,33	1.73±0.09	6±1 (24±4%)

Mol	Type	Chain	Res	Link	Counts	Bond angles	
						RMSZ	#Z>2
2	DNR	C	6	1,2	23,28,31	0.92±0.09	2±1 (7±3%)
2	DNR	D	6	1,2	23,28,31	1.03±0.17	2±1 (7±2%)
2	CFZ	D	4	1,2	25,30,33	1.66±0.08	6±1 (23±5%)
2	CFZ	C	5	1,2	25,30,33	1.70±0.08	6±1 (22±4%)
2	DNR	D	3	1,2	23,28,31	1.34±0.16	3±1 (11±3%)
1	CFZ	A	5	1,2	25,30,33	1.46±0.14	4±1 (16±3%)
2	DNR	D	2	1,2	23,28,31	1.32±0.13	3±1 (13±3%)
2	DNR	C	3	1,2	23,28,31	1.35±0.25	3±1 (11±5%)
1	CFZ	B	4	1,2	25,30,33	1.37±0.08	4±1 (16±4%)

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	DNR	C	2	1,2	-	0±0,7,21,22	0±0,2,2,2
1	CFZ	B	5	1,2	-	0±0,7,25,26	0±0,2,2,2
2	DNR	C	6	1,2	-	0±0,7,21,22	0±0,2,2,2
2	DNR	D	6	1,2	-	0±0,7,21,22	0±0,2,2,2
1	CFZ	A	4	1,2	-	0±0,7,25,26	0±0,2,2,2
1	CFZ	A	5	1,2	-	0±0,7,25,26	0±0,2,2,2
2	DNR	D	2	1,2	-	0±0,7,21,22	0±0,2,2,2
2	CFZ	D	4	1,2	-	0±0,7,25,26	0±0,2,2,2
2	DNR	D	3	1,2	-	0±0,7,21,22	0±0,2,2,2
2	CFZ	D	5	1,2	-	0±0,7,25,26	0±0,2,2,2
1	CFZ	B	4	1,2	-	0±0,7,25,26	0±0,2,2,2
2	DNR	C	3	1,2	-	0±0,7,21,22	0±0,2,2,2
2	CFZ	C	4	1,2	-	0±0,7,25,26	0±0,2,2,2
2	CFZ	C	5	1,2	-	0±0,7,25,26	0±0,2,2,2

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
1	B	4	CFZ	C4-N3	2.58	1.29	1.34	1	10
1	A	4	CFZ	C4-N3	2.52	1.29	1.34	9	10
1	B	5	CFZ	C4-N3	2.45	1.29	1.34	3	10
1	A	5	CFZ	C4-N3	2.31	1.30	1.34	5	8

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	C	3	DNR	O4'-C1'-N1	5.77	118.10	107.86	9	7
2	C	2	DNR	O4'-C1'-N1	5.48	117.59	107.86	10	9
2	D	2	DNR	O4'-C1'-N1	5.18	117.06	107.86	10	9
2	C	4	CFZ	O2-C2-N3	5.10	114.29	122.33	10	10
2	D	4	CFZ	O2-C2-N3	5.03	114.39	122.33	6	10
2	D	5	CFZ	F2'-C2'-C3'	4.99	119.00	109.14	8	6
2	D	3	DNR	O4'-C1'-N1	4.86	116.50	107.86	3	9
1	A	5	CFZ	C2'-C1'-N1	4.56	107.27	114.27	3	7
2	D	5	CFZ	O2-C2-N3	4.39	115.41	122.33	6	10
2	D	5	CFZ	C2'-C1'-N1	4.33	107.62	114.27	7	8
2	C	5	CFZ	O2-C2-N3	4.22	115.68	122.33	3	10
1	B	5	CFZ	C2'-C3'-C4'	4.21	96.88	102.43	4	5
1	B	5	CFZ	O3'-C3'-C4'	4.21	123.17	111.08	4	7
2	C	5	CFZ	C2'-C1'-N1	4.14	107.91	114.27	10	6
1	A	5	CFZ	O4'-C1'-N1	4.12	117.69	108.36	10	1
2	D	6	DNR	O4'-C1'-N1	4.09	115.13	107.86	2	3
2	C	5	CFZ	O4'-C1'-C2'	3.94	110.02	105.84	5	8
1	B	4	CFZ	O2-C2-N3	3.92	116.16	122.33	10	10
1	A	5	CFZ	F2'-C2'-C3'	3.85	116.75	109.14	10	7
1	B	5	CFZ	C2'-C1'-N1	3.85	108.35	114.27	9	9
2	D	5	CFZ	O3'-C3'-C4'	3.66	121.60	111.08	3	7
2	C	3	DNR	O2-C2-N3	3.57	116.71	122.33	3	10
1	A	4	CFZ	O2-C2-N3	3.54	116.75	122.33	9	10
1	A	5	CFZ	O3'-C3'-C4'	3.50	121.14	111.08	6	5
2	C	4	CFZ	O3'-C3'-C4'	3.49	121.12	111.08	3	4
1	A	5	CFZ	O4'-C1'-C2'	3.39	109.43	105.84	5	6
2	D	5	CFZ	O4'-C1'-C2'	3.39	109.43	105.84	4	6
2	D	3	DNR	O2-C2-N3	3.35	117.06	122.33	2	10
2	C	4	CFZ	C2'-C1'-N1	3.28	109.22	114.27	3	4
2	D	3	DNR	O3'-C3'-C4'	3.27	122.46	110.07	10	3
2	C	4	CFZ	F2'-C2'-C1'	3.24	102.37	108.88	4	3
2	D	4	CFZ	O4'-C1'-C2'	3.22	109.25	105.84	3	5
1	B	4	CFZ	O3'-C3'-C4'	3.21	120.30	111.08	6	4
2	C	5	CFZ	O4'-C1'-N1	3.20	115.61	108.36	3	2
2	C	5	CFZ	F2'-C2'-C3'	3.17	115.41	109.14	5	8
2	C	3	DNR	O3'-C3'-C2'	3.16	99.91	110.88	8	2
2	C	4	CFZ	C2'-C3'-C4'	3.15	98.28	102.43	9	7
2	D	5	CFZ	O4'-C1'-N1	3.12	115.43	108.36	8	2
2	C	5	CFZ	C3'-C2'-C1'	3.12	99.48	103.10	1	3
2	D	6	DNR	O2-C2-N3	3.11	117.43	122.33	5	10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	D	4	CFZ	C2'-C1'-N1	3.08	109.54	114.27	10	6
1	B	4	CFZ	O4'-C1'-C2'	3.07	109.09	105.84	4	3
2	D	2	DNR	O4'-C4'-C3'	3.05	98.68	105.65	5	1
2	D	5	CFZ	C2'-C3'-C4'	3.03	98.44	102.43	3	4
2	D	2	DNR	O2-C2-N3	3.02	117.56	122.33	2	10
1	A	4	CFZ	C2'-C1'-N1	3.02	109.63	114.27	2	2
2	C	4	CFZ	F2'-C2'-C3'	3.02	115.10	109.14	4	7
2	C	6	DNR	O2-C2-N3	2.97	117.64	122.33	3	10
2	D	2	DNR	C2'-C1'-N1	2.95	106.43	113.81	6	3
2	D	5	CFZ	N4-C4-N3	2.92	112.68	117.91	6	9
1	B	5	CFZ	O2-C2-N3	2.88	117.79	122.33	7	9
2	C	2	DNR	O2-C2-N3	2.85	117.83	122.33	8	10
1	B	5	CFZ	C3'-C2'-C1'	2.82	99.83	103.10	2	1
1	A	5	CFZ	O2-C2-N3	2.78	117.94	122.33	9	9
2	D	4	CFZ	C3'-C2'-C1'	2.77	99.89	103.10	7	5
2	C	4	CFZ	O2-C2-N1	2.75	124.28	118.90	10	10
2	C	5	CFZ	N4-C4-N3	2.74	113.02	117.91	8	8
1	B	4	CFZ	C2'-C1'-N1	2.73	110.08	114.27	5	5
2	D	4	CFZ	N4-C4-N3	2.73	113.03	117.91	6	5
2	D	4	CFZ	O3'-C3'-C4'	2.72	118.89	111.08	5	5
2	D	2	DNR	C2'-C3'-C4'	2.71	97.31	102.80	4	4
2	C	3	DNR	O4'-C1'-C2'	2.71	111.30	106.25	9	2
1	A	4	CFZ	O4'-C1'-C2'	2.70	108.70	105.84	1	6
2	C	4	CFZ	C3'-C2'-C1'	2.69	99.98	103.10	10	1
2	C	2	DNR	C2'-C3'-C4'	2.67	97.39	102.80	6	4
2	D	2	DNR	C3'-C2'-C1'	2.67	109.12	102.60	10	1
2	C	3	DNR	O3'-C3'-C4'	2.66	120.14	110.07	3	1
1	B	5	CFZ	F2'-C2'-C3'	2.65	114.38	109.14	5	7
2	C	4	CFZ	N4-C4-N3	2.63	113.21	117.91	6	5
1	B	4	CFZ	F2'-C2'-C3'	2.60	114.28	109.14	1	9
2	C	5	CFZ	O3'-C3'-C4'	2.59	118.52	111.08	10	2
1	A	4	CFZ	F2'-C2'-C3'	2.57	114.22	109.14	2	6
2	D	4	CFZ	O2-C2-N1	2.56	123.91	118.90	7	9
1	B	4	CFZ	C3'-C2'-C1'	2.55	100.14	103.10	6	3
2	D	4	CFZ	C2'-C3'-C4'	2.55	99.07	102.43	5	3
2	C	4	CFZ	O4'-C4'-C3'	2.52	100.14	105.15	8	1
1	B	5	CFZ	O4'-C4'-C3'	2.48	100.24	105.15	4	1
1	A	5	CFZ	C3'-C2'-C1'	2.46	100.24	103.10	1	1
2	D	4	CFZ	F2'-C2'-C3'	2.45	113.99	109.14	1	6
2	C	4	CFZ	C5-C4-N3	2.45	125.44	121.32	10	2
1	A	5	CFZ	C2'-C3'-C4'	2.43	99.23	102.43	4	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	C	4	CFZ	O4'-C1'-C2'	2.42	108.41	105.84	10	2
1	A	5	CFZ	F2'-C2'-C1'	2.42	104.03	108.88	7	3
2	D	5	CFZ	O2-C2-N1	2.42	123.64	118.90	8	8
2	C	5	CFZ	C2'-C3'-C4'	2.38	99.30	102.43	10	1
1	A	4	CFZ	O3'-C3'-C4'	2.33	117.76	111.08	4	4
1	A	4	CFZ	C2'-C3'-C4'	2.32	99.38	102.43	4	2
2	C	3	DNR	O2-C2-N1	2.28	123.36	118.90	7	5
1	B	4	CFZ	O2-C2-N1	2.27	123.34	118.90	10	4
2	C	2	DNR	C2'-C1'-N1	2.25	108.18	113.81	6	3
2	C	2	DNR	O3'-C3'-C4'	2.25	118.61	110.07	10	2
1	B	4	CFZ	O4'-C1'-N1	2.24	113.44	108.36	7	1
2	C	5	CFZ	O2-C2-N1	2.24	123.29	118.90	4	5
2	C	5	CFZ	C4'-O4'-C1'	2.23	104.55	109.47	2	2
1	A	4	CFZ	O2-C2-N1	2.18	123.18	118.90	8	6
2	D	6	DNR	O2-C2-N1	2.17	123.14	118.90	5	2
2	D	6	DNR	C2'-C1'-N1	2.16	119.21	113.81	8	1
2	C	2	DNR	C3'-C2'-C1'	2.15	107.86	102.60	1	1
2	C	4	CFZ	O4'-C1'-N1	2.14	113.21	108.36	3	2
2	D	3	DNR	O2-C2-N1	2.13	123.08	118.90	4	2
2	C	6	DNR	O2-C2-N1	2.13	123.07	118.90	3	5
1	A	4	CFZ	C3'-C2'-C1'	2.11	100.65	103.10	1	1
2	D	4	CFZ	N1-C2-N3	2.11	122.46	118.80	6	1
1	B	5	CFZ	O4'-C1'-C2'	2.09	108.06	105.84	7	1
2	D	2	DNR	O2-C2-N1	2.09	123.00	118.90	7	3
2	C	2	DNR	O4'-C1'-C2'	2.09	102.34	106.25	10	1
2	D	4	CFZ	C5-C4-N3	2.07	124.81	121.32	1	2
2	D	4	CFZ	C4-N3-C2	2.07	117.01	120.26	6	1
2	C	4	CFZ	O4'-C4'-C5'	2.05	115.91	109.33	8	1
2	C	6	DNR	O4'-C1'-N1	2.05	111.50	107.86	10	2
1	B	4	CFZ	C2'-C3'-C4'	2.04	99.75	102.43	5	1
2	D	3	DNR	C6-N1-C2	2.03	117.03	120.46	9	1
1	B	5	CFZ	O4'-C1'-N1	2.03	112.95	108.36	8	1
2	D	3	DNR	C2'-C3'-C4'	2.03	98.68	102.80	10	1
2	D	4	CFZ	O4'-C1'-N1	2.01	112.92	108.36	6	1
2	D	6	DNR	O4'-C4'-C5'	2.01	115.78	109.33	2	1

There are no chirality outliers.

All unique torsion outliers are listed below.

Mol	Chain	Res	Type	Atoms	Models (Total)
2	C	4	CFZ	C4'-C5'-O5'-P	1

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 [i](#)

The completeness of assignment taking into account all chemical shift lists is 5% for the well-defined parts and 5% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *chem_shift_list_1*

7.1.1 Bookkeeping [i](#)

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	65
Number of shifts mapped to atoms	65
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 [i](#)

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 5%, i.e. 9 atoms were assigned a chemical shift out of a possible 192. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Sugar	7/120 (6%)	7/70 (10%)	0/50 (0%)	0/0 (—%)
Base	2/72 (3%)	2/42 (5%)	0/20 (0%)	0/10 (0%)
Overall	9/192 (5%)	9/112 (8%)	0/70 (0%)	0/10 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 5%, i.e. 9 atoms were assigned a chemical shift out of a possible 192. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Sugar	7/120 (6%)	7/70 (10%)	0/50 (0%)	0/0 (—%)
Base	2/72 (3%)	2/42 (5%)	0/20 (0%)	0/10 (0%)
Overall	9/192 (5%)	9/112 (8%)	0/70 (0%)	0/10 (0%)

7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

No *random coil index*(RCI) plot could be generated from the current chemical shift list. RCI is only applicable to proteins

8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	154
Intra-residue ($ i-j =0$)	8
Sequential ($ i-j =1$)	4
Medium range ($ i-j >1$ and $ i-j <5$)	0
Long range ($ i-j \geq 5$)	0
Inter-chain	114
Hydrogen bond restraints	28
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	6.4
Number of long range restraints per residue ¹	0.0

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	2.3	0.2
0.2-0.5 (Medium)	8.2	0.5
>0.5 (Large)	121.2	12.92

8.2.2 Average number of dihedral-angle violations per model

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis

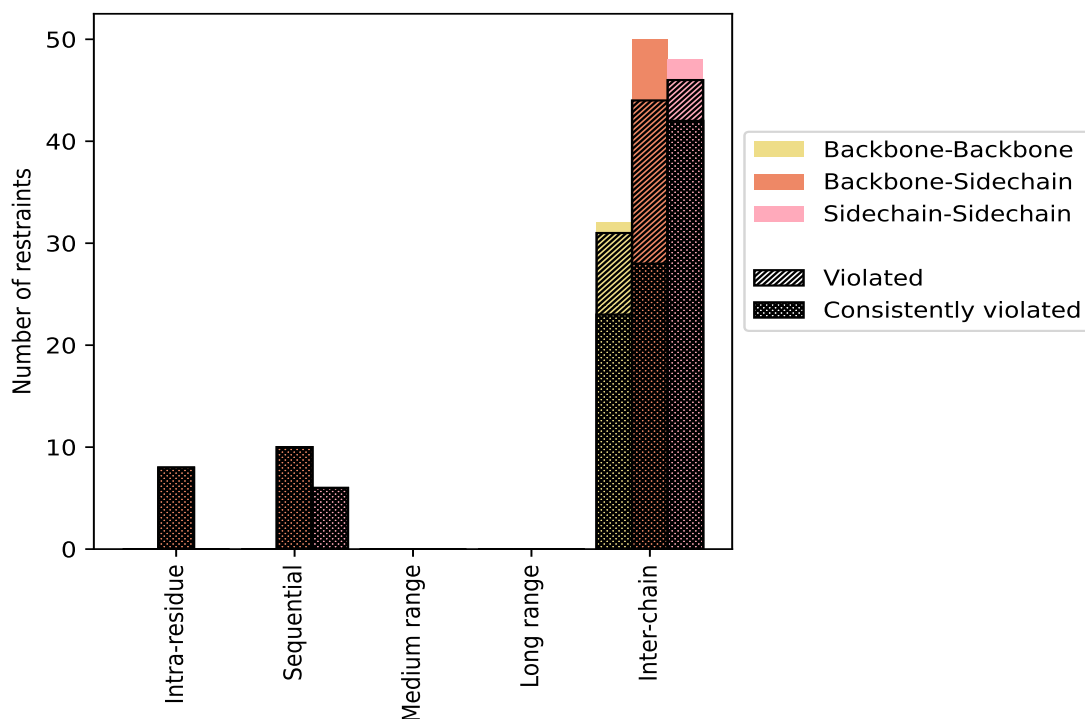
9.1 Summary of distance violations

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	8	5.2	8	100.0	5.2	8	100.0	5.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	8	5.2	8	100.0	5.2	8	100.0	5.2
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	4	2.6	4	100.0	2.6	4	100.0	2.6
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	2	1.3	2	100.0	1.3	2	100.0	1.3
Sidechain-Sidechain	2	1.3	2	100.0	1.3	2	100.0	1.3
Medium range (i-j >1 & i-j <5)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (i-j ≥5)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Inter-chain	114	74.0	111	97.4	72.1	83	72.8	53.9
Backbone-Backbone	32	20.8	31	96.9	20.1	23	71.9	14.9
Backbone-Sidechain	44	28.6	42	95.5	27.3	26	59.1	16.9
Sidechain-Sidechain	38	24.7	38	100.0	24.7	34	89.5	22.1
Hydrogen bond	28	18.2	22	78.6	14.3	22	78.6	14.3
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	154	100.0	145	94.2	94.2	117	76.0	76.0
Backbone-Backbone	32	20.8	31	96.9	20.1	23	71.9	14.9
Backbone-Sidechain	68	44.2	62	91.2	40.3	46	67.6	29.9
Sidechain-Sidechain	54	35.1	52	96.3	33.8	48	88.9	31.2

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfid bonds are counted in their appropriate category on the x-axis

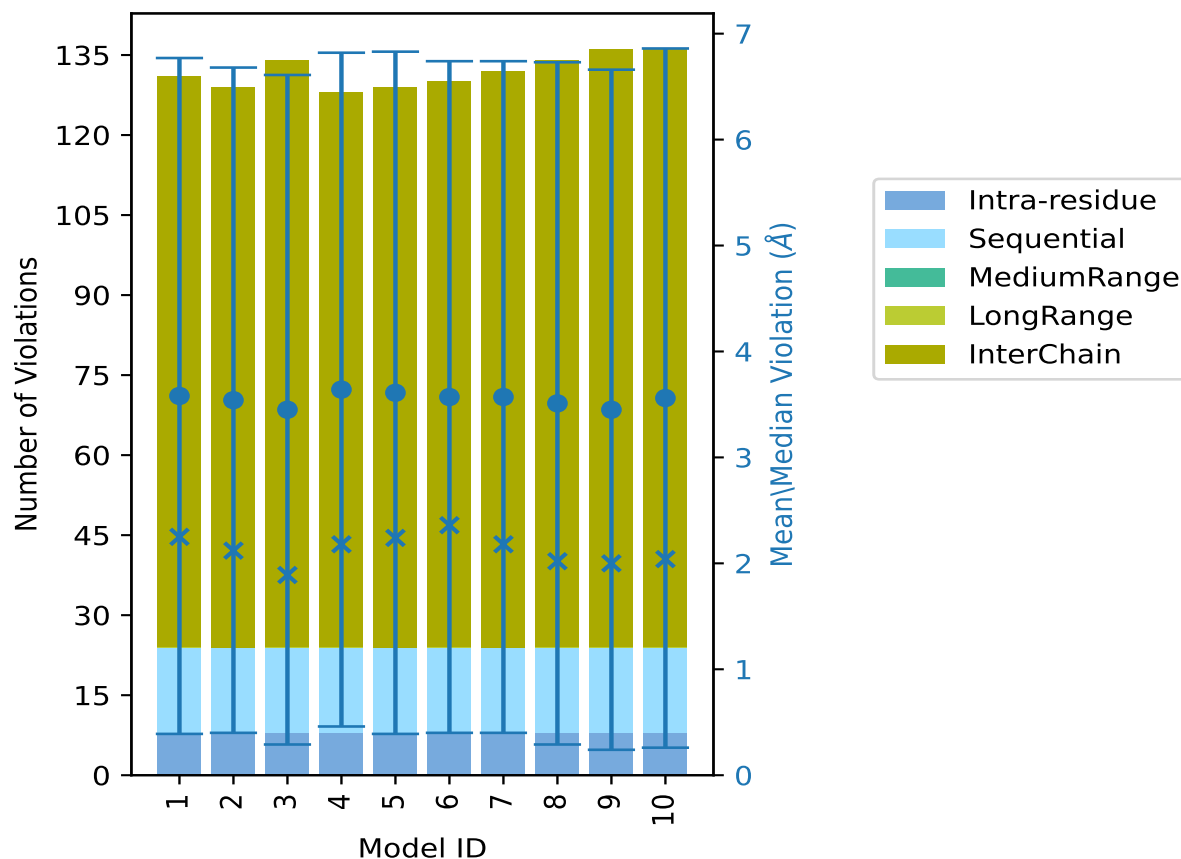
9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	8	16	0	0	107	131	3.58	12.36	3.19	2.25
2	8	16	0	0	105	129	3.54	11.36	3.14	2.12
3	8	16	0	0	110	134	3.45	11.64	3.16	1.89
4	8	16	0	0	104	128	3.64	12.92	3.18	2.18
5	8	16	0	0	105	129	3.61	12.0	3.22	2.24
6	8	16	0	0	106	130	3.57	11.71	3.17	2.36
7	8	16	0	0	108	132	3.57	11.59	3.17	2.18
8	8	16	0	0	110	134	3.51	12.12	3.22	2.02
9	8	16	0	0	112	136	3.45	12.11	3.21	2.0
10	8	16	0	0	112	136	3.56	12.83	3.3	2.04

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 3(IR:0, SQ:0, MR:0, LR:0, IC:3) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	2	2	1	10.0
0	0	0	0	3	3	2	20.0
0	0	0	0	2	2	3	30.0

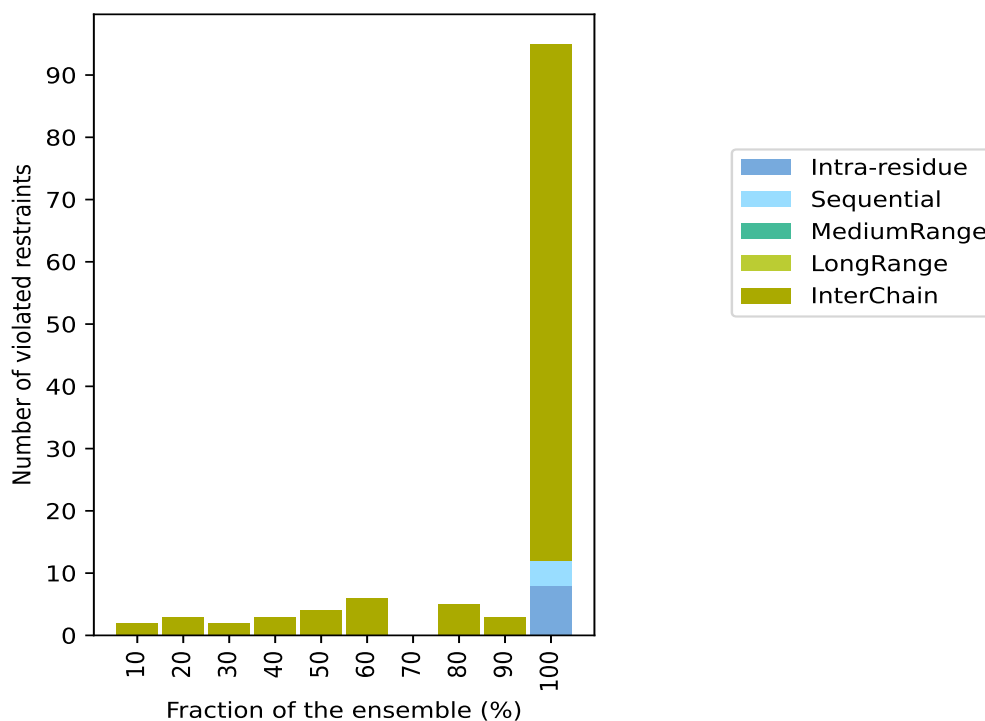
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	3	3	4	40.0
0	0	0	0	4	4	5	50.0
0	0	0	0	6	6	6	60.0
0	0	0	0	0	0	7	70.0
0	0	0	0	5	5	8	80.0
0	0	0	0	3	3	9	90.0
8	4	0	0	83	95	10	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶ Number of models with violations

9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)

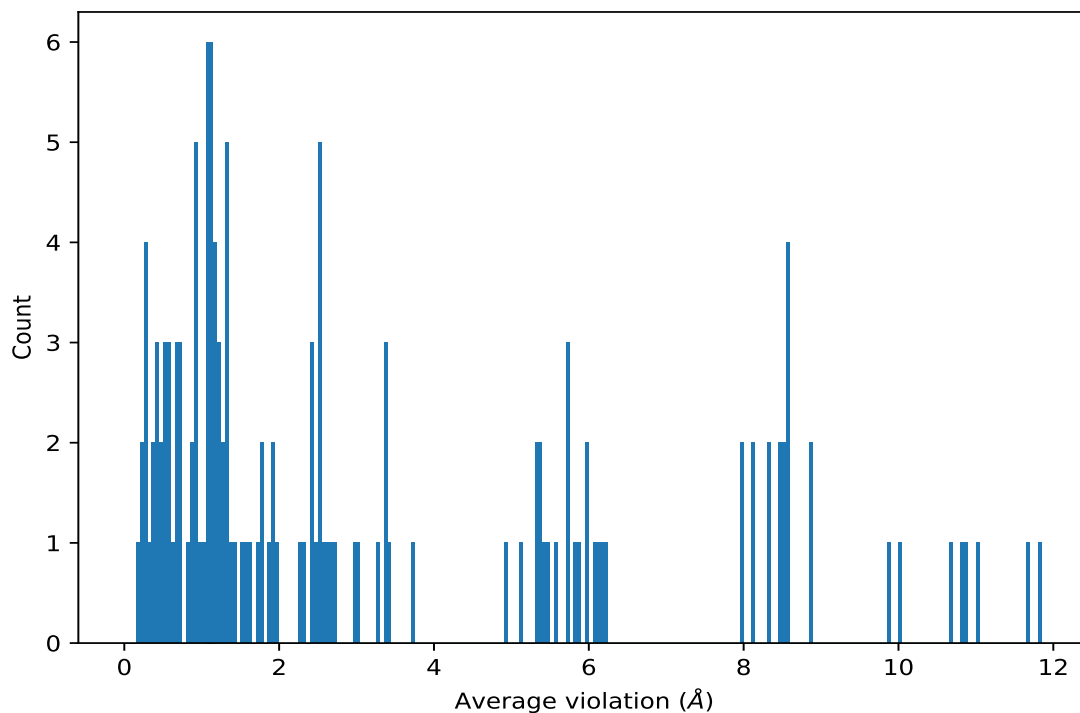


9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models

in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	10	11.82	0.55	11.74
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	10	11.67	0.46	11.62
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	10	11.04	0.3	11.04
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	10	10.88	0.62	10.92
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	10	10.82	0.55	10.74
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	10	10.67	0.46	10.62
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	10	10.04	0.3	10.04
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	10	9.88	0.62	9.93
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	10	8.86	0.1	8.9
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	10	8.86	0.1	8.9
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	10	8.58	0.08	8.58
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	10	8.58	0.08	8.58
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	10	8.56	0.15	8.62
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	10	8.56	0.15	8.62
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	10	8.5	0.33	8.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	10	8.5	0.33	8.46
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	10	8.49	0.14	8.48
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	10	8.49	0.14	8.48
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	10	8.3	0.13	8.28
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	10	8.3	0.13	8.28
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	10	8.14	0.27	8.18
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	10	8.14	0.27	8.18
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	10	7.98	0.28	7.94
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	10	7.98	0.28	7.94
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	10	6.22	0.15	6.2
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	10	6.15	0.13	6.18
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	10	6.12	0.31	6.2
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	10	6.1	0.2	6.1
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	10	5.97	0.25	5.98
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	10	5.96	0.23	5.95
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	10	5.87	0.24	5.78
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	10	5.85	0.59	5.8
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	10	5.74	0.33	5.66
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	10	5.73	0.16	5.72
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	10	5.71	0.24	5.78
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	10	5.57	0.21	5.56
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	10	5.48	0.21	5.46
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	10	5.4	0.25	5.33
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	10	5.38	0.3	5.36
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	10	5.36	0.33	5.39
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	10	5.35	0.29	5.28
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	10	5.32	0.38	5.34
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	10	5.11	0.2	5.08
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	10	4.9	0.21	4.89
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	10	3.74	0.76	3.8
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	10	3.43	0.05	3.43
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	10	3.4	0.1	3.38
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	10	3.39	0.39	3.42
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	10	3.37	0.1	3.38
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	10	3.25	0.22	3.34
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	10	3.01	0.08	3.05
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	10	2.99	0.1	3.04
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	10	2.73	0.18	2.68
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	10	2.67	0.53	2.9
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	10	2.62	0.36	2.76
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	10	2.59	0.11	2.61
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	10	2.55	0.09	2.58

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	10	2.54	0.16	2.58
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	10	2.53	0.3	2.5
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	10	2.5	0.12	2.52
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	10	2.5	0.5	2.45
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	10	2.47	0.12	2.5
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	10	2.44	0.13	2.48
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	10	2.44	0.48	2.36
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	10	2.42	0.14	2.44
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	10	2.34	0.5	2.18
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	10	2.25	0.15	2.18
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	10	1.97	0.09	2.0
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	10	1.93	0.08	1.92
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	10	1.92	0.32	1.9
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	10	1.9	0.38	1.88
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	10	1.78	0.1	1.77
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	10	1.76	0.23	1.66
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	10	1.73	0.21	1.73
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	10	1.61	0.4	1.57
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	10	1.55	0.38	1.56
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	10	1.5	0.25	1.5
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	10	1.41	0.29	1.54
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	10	1.37	0.33	1.21
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	10	1.34	0.25	1.32
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	10	1.33	0.28	1.44
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	10	1.32	0.39	1.35
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	10	1.31	0.54	1.36
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	10	1.3	0.57	1.29
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	10	1.26	0.43	1.21
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	10	1.26	0.26	1.21
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	10	1.23	0.39	1.16
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	10	1.22	0.17	1.21
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	10	1.2	0.37	1.3
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	10	1.19	0.53	1.31
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	10	1.18	0.09	1.2
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	10	1.17	0.07	1.14
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	10	1.15	0.1	1.13
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	10	1.15	0.52	1.12
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	10	1.13	0.26	1.22
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	10	1.12	0.27	1.04
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	10	1.11	0.15	1.04
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	10	1.11	0.16	1.1
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	10	1.09	0.18	1.09

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	10	1.07	0.21	0.96
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	10	1.06	0.27	1.02
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	10	1.05	0.26	1.0
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	10	1.03	0.09	1.0
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	10	0.99	0.1	0.94
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	10	0.94	0.1	0.91
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	10	0.92	0.37	1.03
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	10	0.92	0.15	0.87
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	10	0.9	0.11	0.92
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	10	0.89	0.38	1.05
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	10	0.87	0.23	0.84
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	10	0.73	0.27	0.7
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	10	0.7	0.37	0.54
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	10	0.69	0.23	0.64
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	10	0.66	0.13	0.64
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	10	0.64	0.15	0.6
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	10	0.57	0.3	0.49
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	10	0.52	0.27	0.48
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	9	0.91	0.4	0.94
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	9	0.71	0.22	0.68
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	9	0.59	0.28	0.58
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	8	1.07	0.34	1.16
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	8	0.83	0.33	0.84
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	8	0.74	0.27	0.85
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	8	0.52	0.18	0.55
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	8	0.42	0.22	0.42
(1,23)	2:3:C:DNR:H2'	1:4:B:CFZ:H1'	6	1.23	0.5	1.44
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	6	0.52	0.29	0.5
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	6	0.48	0.25	0.59
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	6	0.41	0.23	0.38
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	6	0.33	0.16	0.31
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	6	0.26	0.15	0.22
(1,24)	2:3:D:DNR:H2'	1:4:A:CFZ:H1'	5	1.06	0.43	1.34
(1,52)	2:1:D:DT:H2''	2:6:C:DNR:H41	5	0.57	0.23	0.45
(1,49)	1:1:A:DT:H2''	1:6:B:DC:H41	5	0.49	0.11	0.49
(1,16)	2:6:D:DNR:H1'	1:2:A:DC:H1'	5	0.38	0.13	0.37
(1,63)	2:1:C:DT:C7	2:6:D:DNR:H42	4	0.4	0.14	0.36
(1,30)	1:3:B:DC:H2''	2:4:C:CFZ:H1'	4	0.28	0.08	0.27
(1,29)	1:3:A:DC:H2''	2:4:D:CFZ:H1'	4	0.24	0.08	0.2
(1,17)	1:2:A:DC:H2''	2:5:D:CFZ:H1'	3	0.37	0.33	0.16
(1,19)	2:2:C:DNR:H2''	1:5:B:CFZ:H1'	3	0.25	0.1	0.19
(1,22)	1:3:B:DC:H2'	2:4:C:CFZ:H1'	2	0.25	0.08	0.25

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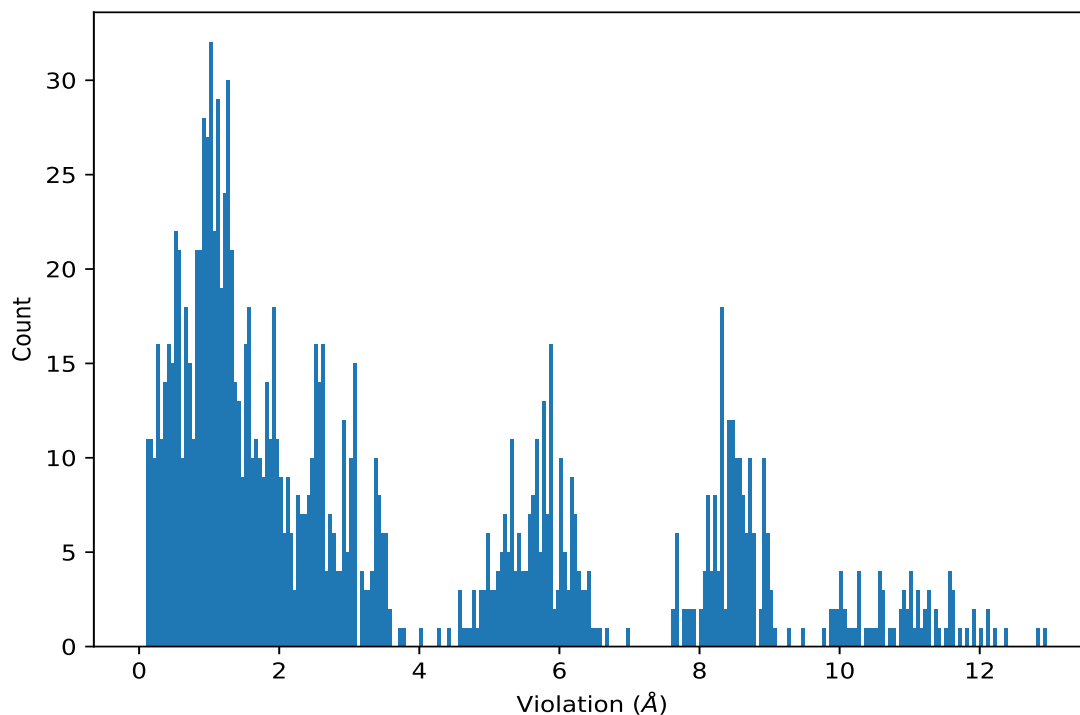
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,15)	2:6:C:DNR:H1'	1:2:B:DC:H1'	2	0.21	0.01	0.21
(1,61)	1:1:A:DT:C7	1:6:B:DC:H42	2	0.18	0.07	0.18

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	4	12.92
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	10	12.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	1	12.36
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	10	12.24
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	8	12.12
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	9	12.11
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	5	12.0
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	4	11.92
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	10	11.9
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	10	11.83
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	6	11.71
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	3	11.64
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	1	11.63
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	8	11.6
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	7	11.59
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	5	11.57
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	6	11.57
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	9	11.55
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	10	11.52
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	7	11.41
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	1	11.36
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	2	11.36
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	8	11.27
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	9	11.27
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	3	11.25
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	10	11.24
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	5	11.21
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	2	11.16
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	1	11.14
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	8	11.12
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	9	11.11
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	2	11.06
(1,111)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	4	11.03
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	9	11.02
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	5	11.0
(1,112)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	7	11.0
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	3	10.95
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	7	10.95
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	3	10.93
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	10	10.9
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	8	10.9
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	6	10.87
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	4	10.86
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	5	10.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	6	10.71
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	3	10.64
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	1	10.63
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	8	10.6
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	7	10.59
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	5	10.57
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	6	10.57
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	9	10.55
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	10	10.52
(1,108)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	6	10.47
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	7	10.41
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	2	10.36
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	1	10.29
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	8	10.27
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	9	10.27
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	3	10.25
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	5	10.21
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	2	10.16
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	1	10.14
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	2	10.06
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	2	10.06
(1,107)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	4	10.04
(1,113)	1:4:A:CFZ:H3'	2:4:C:CFZ:H4'	4	10.03
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	9	10.02
(1,114)	1:4:B:CFZ:H3'	2:4:D:CFZ:H4'	7	10.0
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	3	9.95
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	7	9.95
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	3	9.93
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	8	9.9
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	6	9.87
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	4	9.86
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	5	9.76
(1,110)	1:5:B:CFZ:H3'	2:5:D:CFZ:H4'	6	9.47
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	1	9.29
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	2	9.06
(1,109)	1:5:A:CFZ:H3'	2:5:C:CFZ:H4'	4	9.04
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	10	9.0
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	10	9.0
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	7	8.99
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	7	8.99
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	2	8.95
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	10	8.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	2	8.95
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	10	8.95
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	3	8.93
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	3	8.93
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	8	8.93
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	8	8.93
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	9	8.91
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	9	8.91
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	8	8.9
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	9	8.9
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	8	8.9
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	9	8.9
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	4	8.87
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	4	8.87
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	5	8.78
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	5	8.78
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	10	8.77
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	10	8.77
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	1	8.76
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	1	8.76
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	3	8.71
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	7	8.71
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	8	8.71
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	3	8.71
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	7	8.71
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	8	8.71
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	5	8.7
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	6	8.7
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	5	8.7
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	6	8.7
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	9	8.69
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	9	8.69
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	10	8.68
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	10	8.68
(1,78)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	1	8.67
(1,74)	1:2:B:DC:H2''	1:5:A:CFZ:H4'	1	8.67
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	2	8.63
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	6	8.63
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	2	8.63
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	6	8.63
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	1	8.62
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	1	8.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	3	8.6
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	3	8.6
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	10	8.59
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	10	8.59
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	7	8.59
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	7	8.59
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	8	8.57
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	5	8.57
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	8	8.57
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	5	8.57
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	4	8.57
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	4	8.57
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	7	8.53
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	9	8.53
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	7	8.53
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	9	8.53
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	4	8.52
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	4	8.52
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	7	8.51
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	1	8.51
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	7	8.51
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	1	8.51
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	6	8.49
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	9	8.49
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	6	8.49
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	9	8.49
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	6	8.48
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	6	8.48
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	6	8.47
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	5	8.47
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	6	8.47
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	5	8.47
(1,80)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	7	8.46
(1,76)	2:2:D:DNR:H2''	2:5:C:CFZ:H4'	7	8.46
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	2	8.44
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	2	8.44
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	5	8.43
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	5	8.43
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	4	8.42
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	4	8.42
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	4	8.4
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	4	8.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	8	8.4
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	4	8.4
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	4	8.4
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	8	8.4
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	1	8.37
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	1	8.37
(1,79)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	2	8.34
(1,75)	2:2:C:DNR:H2''	2:5:D:CFZ:H4'	2	8.34
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	6	8.32
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	6	8.32
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	2	8.32
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	3	8.32
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	2	8.32
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	3	8.32
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	2	8.31
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	2	8.31
(1,77)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	3	8.3
(1,73)	1:2:A:DC:H2''	1:5:B:CFZ:H4'	3	8.3
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	8	8.3
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	6	8.3
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	8	8.3
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	8	8.3
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	6	8.3
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	8	8.3
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	9	8.25
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	5	8.25
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	9	8.25
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	5	8.25
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	9	8.24
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	9	8.24
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	1	8.22
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	1	8.22
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	10	8.21
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	10	8.21
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	5	8.2
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	5	8.2
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	2	8.16
(1,70)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	7	8.16
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	2	8.16
(1,66)	1:3:B:DC:H2'	1:4:A:CFZ:H4'	7	8.16
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	2	8.14
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	3	8.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	6	8.14
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	2	8.14
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	3	8.14
(1,65)	1:3:A:DC:H2'	1:4:B:CFZ:H4'	6	8.14
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	1	8.13
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	1	8.13
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	7	8.09
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	7	8.09
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	5	8.07
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	5	8.07
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	3	8.03
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	3	8.03
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	10	7.92
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	10	7.92
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	8	7.85
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	8	7.85
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	4	7.84
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	4	7.84
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	4	7.78
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	4	7.78
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	10	7.68
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	10	7.68
(1,72)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	3	7.65
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	9	7.65
(1,68)	2:3:D:DNR:H2'	2:4:C:CFZ:H4'	3	7.65
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	9	7.65
(1,71)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	1	7.61
(1,67)	2:3:C:DNR:H2'	2:4:D:CFZ:H4'	1	7.61
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	10	6.95
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	8	6.67
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	9	6.55
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	5	6.53
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	10	6.47
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	4	6.43
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	10	6.42
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	5	6.42
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	4	6.41
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	4	6.37
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	10	6.37
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	7	6.37
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	7	6.34
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	6	6.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	9	6.33
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	9	6.29
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	1	6.28
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	6	6.26
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	1	6.26
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	8	6.24
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	10	6.24
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	2	6.21
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	4	6.21
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	6	6.21
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	3	6.2
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	5	6.2
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	8	6.19
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	1	6.19
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	5	6.18
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	7	6.18
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	8	6.18
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	1	6.17
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	3	6.16
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	4	6.15
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	3	6.15
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	8	6.14
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	1	6.13
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	9	6.12
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	5	6.09
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	3	6.08
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	4	6.08
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	5	6.05
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	7	6.05
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	4	6.04
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	5	6.03
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	3	6.02
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	1	6.02
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	2	6.02
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	6	6.01
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	10	6.01
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	1	6.01
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	6	6.01
(1,98)	1:4:A:CFZ:H3'	2:4:C:CFZ:H5	9	6.0
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	2	5.99
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	7	5.96
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	6	5.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,116)	1:5:B:CFZ:H3'	2:2:C:DNR:H3'	9	5.93
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	6	5.92
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	4	5.89
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	8	5.89
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	7	5.89
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	4	5.89
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	5	5.89
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	1	5.88
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	6	5.87
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	4	5.87
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	10	5.87
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	5	5.87
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	4	5.86
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	7	5.86
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	8	5.86
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	3	5.85
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	10	5.85
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	10	5.85
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	8	5.84
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	8	5.83
(1,115)	1:5:A:CFZ:H3'	2:2:D:DNR:H3'	2	5.81
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	3	5.81
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	3	5.81
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	2	5.8
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	1	5.8
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	7	5.79
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	2	5.78
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	2	5.78
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	6	5.78
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	7	5.77
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	5	5.77
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	4	5.77
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	9	5.76
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	2	5.76
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	1	5.76
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	7	5.75
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	7	5.75
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	6	5.75
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	9	5.74
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	2	5.73
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	2	5.73
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	5	5.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	10	5.7
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	1	5.69
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	8	5.69
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	10	5.68
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	7	5.68
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	3	5.67
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	8	5.67
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	3	5.67
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	10	5.66
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	1	5.65
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	9	5.65
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	10	5.65
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	6	5.64
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	5	5.64
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	7	5.62
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	4	5.62
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	4	5.6
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	6	5.6
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	10	5.6
(1,97)	1:4:B:CFZ:H3'	2:4:D:CFZ:H5	3	5.6
(1,106)	2:3:D:DNR:H3'	1:3:B:DC:H42	10	5.59
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	2	5.59
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	10	5.57
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	3	5.57
(1,105)	2:3:C:DNR:H3'	1:3:A:DC:H42	3	5.56
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	8	5.56
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	8	5.55
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	5	5.53
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	1	5.53
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	7	5.51
(1,101)	2:2:C:DNR:H3'	1:2:A:DC:H42	9	5.5
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	6	5.47
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	5	5.46
(1,96)	2:3:D:DNR:H3'	1:4:A:CFZ:H5	9	5.46
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	4	5.45
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	2	5.44
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	5	5.44
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	7	5.42
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	1	5.42
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	2	5.42
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	8	5.4
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	2	5.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	1	5.38
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	9	5.38
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	8	5.36
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	1	5.34
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	3	5.34
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	6	5.33
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	1	5.33
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	6	5.33
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	8	5.33
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	1	5.32
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	6	5.31
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	7	5.31
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	5	5.3
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	3	5.3
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	2	5.29
(1,117)	1:4:A:CFZ:H3'	2:3:D:DNR:H3'	9	5.28
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	4	5.28
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	4	5.27
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	9	5.27
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	7	5.24
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	3	5.23
(1,102)	2:2:D:DNR:H3'	1:2:B:DC:H42	2	5.23
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	8	5.22
(1,95)	2:3:C:DNR:H3'	1:4:B:CFZ:H5	9	5.22
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	6	5.22
(1,89)	2:2:C:DNR:H3'	1:6:B:DC:H5	10	5.2
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	3	5.19
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	4	5.19
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	7	5.18
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	9	5.18
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	2	5.16
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	7	5.14
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	8	5.14
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	2	5.13
(1,86)	1:2:B:DC:H2''	1:5:A:CFZ:H3'	1	5.1
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	9	5.07
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	5	5.07
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	9	5.06
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	9	5.04
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	5	5.03
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	5	5.01
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	10	4.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	2	4.98
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	6	4.97
(1,90)	2:2:D:DNR:H3'	1:6:A:DC:H5	5	4.97
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	8	4.95
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	7	4.95
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	10	4.94
(1,103)	2:3:C:DNR:H3'	1:3:A:DC:H41	3	4.93
(1,104)	2:3:D:DNR:H3'	1:3:B:DC:H41	10	4.91
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	8	4.87
(1,118)	1:4:B:CFZ:H3'	2:3:C:DNR:H3'	4	4.86
(1,99)	2:2:C:DNR:H3'	1:2:A:DC:H41	9	4.85
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	6	4.84
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	4	4.79
(1,85)	1:2:A:DC:H2''	1:5:B:CFZ:H3'	3	4.79
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	6	4.78
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	1	4.73
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	3	4.68
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	3	4.61
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	1	4.56
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	2	4.56
(1,100)	2:2:D:DNR:H3'	1:2:B:DC:H41	2	4.55
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	4	4.42
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	5	4.26
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	3	4.03
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	4	3.76
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	2	3.73
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	4	3.56
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	10	3.55
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	6	3.52
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	3	3.51
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	8	3.51
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	10	3.51
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	7	3.5
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	2	3.5
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	5	3.48
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	4	3.47
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	9	3.46
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	8	3.46
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	1	3.45
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	5	3.45
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	1	3.44
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	7	3.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	10	3.43
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	4	3.43
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	9	3.43
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	1	3.42
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	2	3.4
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	6	3.4
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	2	3.39
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	8	3.39
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	6	3.38
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	9	3.38
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	7	3.37
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	5	3.37
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	5	3.37
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	1	3.35
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	6	3.35
(1,9)	1:1:A:DT:C7	1:6:B:DC:H1'	3	3.35
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	8	3.34
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	1	3.33
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	10	3.33
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	1	3.32
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	9	3.28
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	3	3.27
(1,11)	2:1:C:DT:C7	2:6:D:DNR:H1'	10	3.25
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	7	3.23
(1,12)	2:1:D:DT:C7	2:6:C:DNR:H1'	8	3.23
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	7	3.21
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	5	3.17
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	6	3.17
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	6	3.16
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	4	3.16
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	7	3.09
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	7	3.08
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	6	3.08
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	9	3.08
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	4	3.07
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	10	3.07
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	9	3.07
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	1	3.06
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	2	3.06
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	4	3.06
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	1	3.06
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	3	3.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	3	3.06
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	8	3.05
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	10	3.05
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	8	3.04
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	10	3.04
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	5	3.03
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	7	3.02
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	9	3.02
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	2	3.02
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	9	3.02
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	3	3.01
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	7	3.01
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	4	3.0
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	9	2.99
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	6	2.97
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	10	2.97
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	10	2.96
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	10	2.96
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	9	2.94
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	9	2.94
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	2	2.92
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	8	2.92
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	8	2.92
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	3	2.91
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	7	2.91
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	8	2.91
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	4	2.91
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	9	2.9
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	4	2.9
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	3	2.9
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	3	2.89
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	2	2.86
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	8	2.86
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	5	2.85
(2,21)	1:3:A:DC:H2''	1:4:A:CFZ:F2'	7	2.83
(1,10)	1:1:B:DT:C7	1:6:A:DC:H1'	2	2.83
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	9	2.81
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	5	2.8
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	6	2.79
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	6	2.79
(2,22)	1:3:B:DC:H2''	1:4:B:CFZ:F2'	5	2.78
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	3	2.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	8	2.76
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	7	2.76
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	1	2.74
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	5	2.73
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	10	2.71
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	1	2.7
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	10	2.7
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	10	2.7
(1,91)	2:2:C:DNR:H3'	2:6:D:DNR:H5	10	2.7
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	7	2.69
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	6	2.68
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	6	2.67
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	6	2.65
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	8	2.64
(1,92)	2:2:D:DNR:H3'	2:6:C:DNR:H5	8	2.64
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	8	2.63
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	3	2.63
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	2	2.63
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	2	2.63
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	2	2.62
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	1	2.62
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	5	2.62
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	9	2.62
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	2	2.62
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	3	2.62
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	10	2.61
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	9	2.61
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	7	2.6
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	4	2.6
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	7	2.59
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	6	2.59
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	1	2.59
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	7	2.58
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	7	2.58
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	3	2.57
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	6	2.57
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	8	2.57
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	9	2.57
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	1	2.57
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	4	2.56
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	6	2.56
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	10	2.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	4	2.55
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	9	2.54
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	3	2.54
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	2	2.54
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	10	2.54
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	10	2.54
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	3	2.54
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	1	2.53
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	6	2.53
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	6	2.53
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	6	2.53
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	5	2.52
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	5	2.52
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	8	2.52
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	1	2.52
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	5	2.5
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	9	2.5
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	8	2.49
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	9	2.49
(2,23)	2:3:C:DNR:H2''	2:4:C:CFZ:F2'	8	2.49
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	1	2.49
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	1	2.48
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	5	2.48
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	7	2.46
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	10	2.46
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	1	2.45
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	5	2.45
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	10	2.42
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	6	2.42
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	8	2.41
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	9	2.41
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	4	2.41
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	2	2.4
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	8	2.4
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	2	2.4
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	1	2.38
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	1	2.38
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	6	2.38
(2,26)	2:2:C:DNR:H6	1:5:B:CFZ:F2'	4	2.37
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	5	2.37
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	2	2.37
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	3	2.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	7	2.34
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	4	2.33
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	3	2.33
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	6	2.33
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	9	2.31
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	5	2.31
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	4	2.3
(2,28)	1:2:A:DC:H6	2:5:D:CFZ:F2'	6	2.29
(2,25)	2:2:D:DNR:H6	1:5:A:CFZ:F2'	7	2.29
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	10	2.29
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	6	2.27
(2,1)	1:6:A:DC:H4'	1:5:A:CFZ:F2'	5	2.27
(2,27)	1:2:B:DC:H6	2:5:C:CFZ:F2'	7	2.26
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	6	2.26
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	1	2.25
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	4	2.24
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	5	2.24
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	5	2.21
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	7	2.19
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	4	2.19
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	4	2.18
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	1	2.18
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	7	2.17
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	2	2.16
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	6	2.14
(2,2)	1:6:B:DC:H4'	1:5:B:CFZ:F2'	2	2.13
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	10	2.13
(2,4)	2:6:D:DNR:H4'	2:5:D:CFZ:F2'	2	2.12
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	8	2.12
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	2	2.12
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	3	2.1
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	3	2.1
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	7	2.1
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	2	2.09
(2,3)	2:6:C:DNR:H4'	2:5:C:CFZ:F2'	9	2.09
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	6	2.08
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	7	2.07
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	7	2.07
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	10	2.06
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	8	2.03
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	9	2.03
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	10	2.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	8	2.02
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	3	2.01
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	9	2.01
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	5	2.0
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	9	2.0
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	5	2.0
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	2	1.99
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	10	1.99
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	10	1.98
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	4	1.98
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	9	1.98
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	8	1.97
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	8	1.96
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	8	1.96
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	2	1.95
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	1	1.95
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	4	1.95
(2,11)	1:2:B:DC:H4'	2:5:C:CFZ:F2'	4	1.94
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	6	1.94
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	8	1.94
(1,94)	2:3:D:DNR:H3'	2:4:C:CFZ:H5	9	1.93
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	10	1.93
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	9	1.93
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	1	1.92
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	3	1.92
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	2	1.92
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	10	1.92
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	10	1.92
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	2	1.91
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	9	1.91
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	7	1.91
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	10	1.91
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	6	1.9
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	8	1.9
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	8	1.9
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	8	1.88
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	9	1.88
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	1	1.87
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	5	1.87
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	1	1.87
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	5	1.87
(2,24)	2:3:D:DNR:H2''	2:4:D:CFZ:F2'	3	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	4	1.85
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	3	1.85
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	5	1.85
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	7	1.85
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	2	1.84
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	9	1.84
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	6	1.84
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	5	1.83
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	1	1.83
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	2	1.83
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	6	1.81
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	2	1.81
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	2	1.81
(2,10)	2:2:C:DNR:H4'	1:5:B:CFZ:F2'	4	1.8
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	5	1.8
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	1	1.8
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	2	1.8
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	8	1.8
(1,87)	2:2:C:DNR:H2''	1:5:B:CFZ:H3'	3	1.79
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	8	1.79
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	6	1.78
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	7	1.77
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	10	1.77
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	7	1.77
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	8	1.77
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	5	1.75
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	4	1.75
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	1	1.74
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	10	1.74
(1,88)	2:2:D:DNR:H2''	1:5:A:CFZ:H3'	4	1.73
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	4	1.73
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	10	1.72
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	7	1.72
(1,93)	2:3:C:DNR:H3'	2:4:D:CFZ:H5	3	1.7
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	6	1.7
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	4	1.7
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	10	1.7
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	9	1.68
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	3	1.68
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	9	1.68
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	9	1.67
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	3	1.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	2:1:C:DT:C7	2:6:D:DNR:H41	4	1.66
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	6	1.66
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	7	1.66
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	9	1.66
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	3	1.65
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	7	1.65
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	3	1.64
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	4	1.64
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	7	1.63
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	1	1.63
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	6	1.62
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	9	1.62
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	7	1.61
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	5	1.61
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	9	1.61
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	10	1.6
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	8	1.59
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	3	1.59
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	1	1.59
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	2	1.58
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	10	1.58
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	5	1.58
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	1	1.57
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	4	1.57
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	5	1.57
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	4	1.57
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	5	1.57
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	4	1.56
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	1	1.56
(1,23)	2:3:C:DNR:H2'	1:4:B:CFZ:H1'	4	1.56
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	9	1.56
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	8	1.55
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	8	1.55
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	7	1.55
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	6	1.54
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	10	1.54
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	7	1.54
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	9	1.53
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	3	1.52
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	1	1.52
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	4	1.52
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	10	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	4	1.51
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	8	1.51
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	2	1.51
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	8	1.51
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	6	1.5
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	9	1.5
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	3	1.5
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	5	1.5
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	4	1.49
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	5	1.49
(1,23)	2:3:C:DNR:H2'	1:4:B:CFZ:H1'	10	1.49
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	4	1.48
(1,7)	2:1:C:DT:C7	2:6:D:DNR:H6	2	1.48
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	2	1.46
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	4	1.45
(1,24)	2:3:D:DNR:H2'	1:4:A:CFZ:H1'	4	1.45
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	1	1.45
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	6	1.44
(1,23)	2:3:C:DNR:H2'	1:4:B:CFZ:H1'	1	1.44
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	8	1.43
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	9	1.43
(1,23)	2:3:C:DNR:H2'	1:4:B:CFZ:H1'	8	1.43
(2,12)	1:2:A:DC:H4'	2:5:D:CFZ:F2'	3	1.42
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	2	1.42
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	6	1.42
(1,24)	2:3:D:DNR:H2'	1:4:A:CFZ:H1'	3	1.42
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	6	1.41
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	6	1.41
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	10	1.41
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	4	1.4
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	6	1.39
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	3	1.39
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	1	1.38
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	7	1.38
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	9	1.37
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	8	1.37
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	2	1.36
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	7	1.36
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	9	1.36
(1,60)	2:1:D:DT:C7	2:6:C:DNR:H41	2	1.36
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	7	1.36
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	3	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	4	1.35
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	7	1.35
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	3	1.34
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	1	1.34
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	5	1.34
(1,24)	2:3:D:DNR:H2'	1:4:A:CFZ:H1'	1	1.34
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	3	1.33
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	4	1.33
(1,23)	2:3:C:DNR:H2'	1:4:B:CFZ:H1'	9	1.33
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	7	1.33
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	3	1.32
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	3	1.32
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	1	1.32
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	1	1.32
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	9	1.31
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	3	1.31
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	8	1.31
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	7	1.31
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	1	1.31
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	5	1.3
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	10	1.3
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	10	1.3
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	7	1.3
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	1	1.29
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	6	1.29
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	4	1.29
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	7	1.29
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	10	1.29
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	2	1.29
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	1	1.29
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	4	1.29
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	5	1.29
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	6	1.28
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	10	1.28
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	9	1.28
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	10	1.28
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	7	1.28
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	6	1.28
(2,9)	2:2:D:DNR:H4'	1:5:A:CFZ:F2'	5	1.27
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	3	1.27
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	5	1.26
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	4	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	4	1.26
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	10	1.26
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	1	1.26
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	8	1.26
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	5	1.26
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	4	1.26
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	7	1.26
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	6	1.25
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	8	1.25
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	5	1.25
(1,8)	2:1:D:DT:C7	2:6:C:DNR:H6	3	1.25
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	10	1.24
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	10	1.24
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	7	1.24
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	7	1.24
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	1	1.24
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	10	1.24
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	1	1.23
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	4	1.23
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	5	1.23
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	8	1.23
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	7	1.23
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	5	1.23
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	7	1.22
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	2	1.22
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	2	1.22
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	4	1.21
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	9	1.21
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	7	1.21
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	8	1.21
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	2	1.21
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	2	1.2
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	1	1.2
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	5	1.2
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	3	1.2
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	3	1.19
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	7	1.19
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	10	1.19
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	1	1.19
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	3	1.19
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	9	1.18
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	2	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	4	1.18
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	10	1.17
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	8	1.17
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	4	1.16
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	5	1.16
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	2	1.16
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	3	1.16
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	3	1.15
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	9	1.15
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	10	1.15
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	5	1.15
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	9	1.15
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	5	1.14
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	8	1.14
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	5	1.14
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	1	1.14
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	1	1.14
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	2	1.13
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	8	1.13
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	7	1.13
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	7	1.13
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	2	1.13
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	4	1.13
(1,5)	1:1:A:DT:C7	1:6:B:DC:H6	5	1.13
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	5	1.13
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	5	1.12
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	4	1.12
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	10	1.12
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	4	1.12
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	5	1.11
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	8	1.11
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	1	1.11
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	6	1.11
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	10	1.11
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	3	1.11
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	7	1.11
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	6	1.11
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	4	1.1
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	10	1.1
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	2	1.1
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	9	1.1
(1,81)	1:1:A:DT:C7	2:1:C:DT:H3	9	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	6	1.09
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	10	1.09
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	10	1.09
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	8	1.08
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	3	1.08
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	9	1.08
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	9	1.08
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	2	1.08
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	4	1.08
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	7	1.07
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	9	1.07
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	8	1.07
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	10	1.06
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	6	1.06
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	8	1.06
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	9	1.06
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	2	1.06
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	6	1.05
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	5	1.05
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	6	1.05
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	1	1.05
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	7	1.04
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	9	1.04
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	9	1.04
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	5	1.04
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	1	1.04
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	6	1.04
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	2	1.03
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	7	1.03
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	2	1.03
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	10	1.03
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	8	1.03
(1,4)	2:1:D:DT:C7	2:6:C:DNR:H5	3	1.03
(1,2)	1:1:B:DT:C7	1:6:A:DC:H5	2	1.03
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	3	1.03
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	1	1.02
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	6	1.02
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	6	1.02
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	3	1.01
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	10	1.01
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	3	1.01
(1,82)	1:1:B:DT:C7	2:1:D:DT:H3	7	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	4	1.01
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	3	1.0
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	1	1.0
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	3	1.0
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	7	1.0
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	10	1.0
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	6	1.0
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	1	1.0
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	7	1.0
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	1	1.0
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	8	1.0
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	8	0.99
(1,83)	2:1:C:DT:C7	1:1:A:DT:H3	3	0.99
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	8	0.99
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	1	0.99
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	4	0.99
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	7	0.98
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	9	0.98
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	10	0.98
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	8	0.98
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	6	0.98
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	6	0.98
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	10	0.98
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	8	0.97
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	3	0.97
(1,58)	1:1:B:DT:C7	1:6:A:DC:H42	7	0.97
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	3	0.97
(1,3)	2:1:C:DT:C7	2:6:D:DNR:H5	2	0.97
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	1	0.96
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	2	0.96
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	7	0.96
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	10	0.96
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	2	0.96
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	10	0.95
(1,125)	2:5:C:CFZ:H4'	2:5:C:CFZ:F2'	10	0.95
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	3	0.95
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	4	0.95
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	9	0.95
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	4	0.94
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	5	0.94
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	7	0.94
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	9	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:1:A:DT:C7	1:6:B:DC:H42	2	0.94
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	8	0.94
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	6	0.94
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	2	0.94
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	7	0.94
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	1	0.93
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	2	0.93
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	1	0.93
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	8	0.93
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	1	0.93
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	6	0.93
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	8	0.92
(1,119)	1:4:A:CFZ:H4'	1:4:A:CFZ:F2'	2	0.92
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	6	0.91
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	6	0.91
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	1	0.91
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	8	0.91
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	1	0.91
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	5	0.91
(1,42)	1:3:B:DC:H1'	2:4:C:CFZ:H1'	5	0.91
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	9	0.9
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	5	0.9
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	1	0.9
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	5	0.9
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	2	0.89
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	5	0.89
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	4	0.88
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	9	0.88
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	4	0.88
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	9	0.88
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	9	0.88
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	8	0.88
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	5	0.88
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	7	0.87
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	10	0.87
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	8	0.87
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	5	0.87
(1,41)	1:3:A:DC:H1'	2:4:D:CFZ:H1'	7	0.87
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	2	0.86
(1,120)	1:4:B:CFZ:H4'	1:4:B:CFZ:F2'	6	0.86
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	6	0.86
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	10	0.86
(1,6)	1:1:B:DT:C7	1:6:A:DC:H6	2	0.86
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	5	0.85
(1,123)	1:5:A:CFZ:H4'	1:5:A:CFZ:F2'	4	0.84
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	10	0.84
(1,52)	2:1:D:DT:H2''	2:6:C:DNR:H41	2	0.84
(1,52)	2:1:D:DT:H2''	2:6:C:DNR:H41	3	0.84
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	5	0.84
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	2	0.84
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	5	0.84
(1,17)	1:2:A:DC:H2''	2:5:D:CFZ:H1'	7	0.84
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	9	0.83
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	8	0.83
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	9	0.82
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	5	0.82
(1,122)	2:4:D:CFZ:H4'	2:4:D:CFZ:F2'	7	0.82
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	3	0.82
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	10	0.82
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	3	0.82
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	1	0.81
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	3	0.81
(1,1)	1:1:A:DT:C7	1:6:B:DC:H5	2	0.81
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	2	0.8
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	3	0.8
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	1	0.78
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	7	0.78
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	2	0.78
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	1	0.77
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	9	0.77
(1,47)	2:3:C:DNR:H2'	2:4:C:CFZ:H6	3	0.77
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	8	0.77
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	9	0.76
(1,121)	2:4:C:CFZ:H4'	2:4:C:CFZ:F2'	3	0.75
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	6	0.75
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	1	0.75
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	8	0.74
(1,126)	2:5:D:CFZ:H4'	2:5:D:CFZ:F2'	3	0.74
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	9	0.74
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	7	0.73
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	9	0.73
(1,35)	2:2:C:DNR:H1'	1:5:B:CFZ:H2'	3	0.73
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	7	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	4	0.72
(1,34)	1:2:B:DC:H1'	2:5:C:CFZ:H2'	3	0.72
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	8	0.71
(1,46)	1:3:B:DC:H2'	1:4:B:CFZ:H6	2	0.71
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	2	0.71
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	4	0.7
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	1	0.7
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	6	0.7
(1,124)	1:5:B:CFZ:H4'	1:5:B:CFZ:F2'	4	0.68
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	1	0.68
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	4	0.68
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	1	0.68
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	2	0.68
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	3	0.67
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	4	0.67
(1,49)	1:1:A:DT:H2''	1:6:B:DC:H41	10	0.67
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	5	0.67
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	8	0.66
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	1	0.66
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	6	0.66
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	10	0.66
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	7	0.66
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	9	0.65
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	6	0.65
(1,24)	2:3:D:DNR:H2'	1:4:A:CFZ:H1'	5	0.65
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	3	0.65
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	8	0.64
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	7	0.63
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	3	0.63
(1,36)	2:2:D:DNR:H1'	1:5:A:CFZ:H2'	4	0.63
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	6	0.62
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	6	0.62
(1,63)	2:1:C:DT:C7	2:6:D:DNR:H42	10	0.61
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	6	0.61
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	10	0.6
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	1	0.6
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	2	0.59
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	6	0.59
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	5	0.59
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	6	0.59
(2,6)	1:5:B:CFZ:H4'	1:4:B:CFZ:F2'	8	0.58
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	5	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	5	0.58
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	1	0.58
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	5	0.58
(1,16)	2:6:D:DNR:H1'	1:2:A:DC:H1'	10	0.57
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	2	0.56
(2,5)	1:5:A:CFZ:H4'	1:4:A:CFZ:F2'	5	0.56
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	9	0.56
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	1	0.56
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	2	0.56
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	5	0.56
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	8	0.56
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	10	0.55
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	3	0.55
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	10	0.55
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	4	0.55
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	5	0.54
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	8	0.54
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	9	0.54
(1,18)	1:2:B:DC:H2''	2:5:C:CFZ:H1'	10	0.54
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	7	0.53
(1,53)	1:1:A:DT:H2''	1:6:B:DC:H42	2	0.53
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	10	0.53
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	4	0.53
(1,33)	1:2:A:DC:H1'	2:5:D:CFZ:H2'	3	0.53
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	3	0.52
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	5	0.52
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	4	0.52
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	10	0.52
(1,49)	1:1:A:DT:H2''	1:6:B:DC:H41	7	0.52
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	4	0.52
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	3	0.52
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	4	0.52
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	4	0.51
(1,45)	1:3:A:DC:H2'	1:4:A:CFZ:H6	2	0.51
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	9	0.5
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	6	0.5
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	5	0.5
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	9	0.49
(1,49)	1:1:A:DT:H2''	1:6:B:DC:H41	9	0.49
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	6	0.49
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	9	0.49
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	10	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	8	0.48
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	8	0.48
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	1	0.47
(2,14)	2:2:C:DNR:H2'	1:5:B:CFZ:F2'	8	0.46
(1,49)	1:1:A:DT:H2''	1:6:B:DC:H41	1	0.46
(1,16)	2:6:D:DNR:H1'	1:2:A:DC:H1'	2	0.46
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	3	0.45
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	4	0.45
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	9	0.45
(1,52)	2:1:D:DT:H2''	2:6:C:DNR:H41	5	0.45
(2,13)	2:2:D:DNR:H2'	1:5:A:CFZ:F2'	10	0.44
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	7	0.44
(1,63)	2:1:C:DT:C7	2:6:D:DNR:H42	9	0.44
(1,52)	2:1:D:DT:H2''	2:6:C:DNR:H41	10	0.44
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	9	0.44
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	8	0.44
(1,25)	1:2:A:DC:H2'	2:5:D:CFZ:H1'	2	0.44
(1,24)	2:3:D:DNR:H2'	1:4:A:CFZ:H1'	10	0.44
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	1	0.44
(1,39)	2:2:C:DNR:H1'	1:5:B:CFZ:H1'	2	0.43
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	4	0.42
(1,55)	2:1:C:DT:H2''	2:6:D:DNR:H42	6	0.42
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	7	0.41
(1,30)	1:3:B:DC:H2''	2:4:C:CFZ:H1'	1	0.4
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	7	0.4
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	3	0.4
(2,7)	2:5:C:CFZ:H4'	2:4:C:CFZ:F2'	6	0.39
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	7	0.39
(1,19)	2:2:C:DNR:H2''	1:5:B:CFZ:H1'	7	0.39
(1,84)	2:1:D:DT:C7	1:1:B:DT:H3	6	0.38
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	1	0.38
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	10	0.38
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	3	0.38
(1,29)	1:3:A:DC:H2''	2:4:D:CFZ:H1'	10	0.38
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	8	0.37
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	6	0.37
(1,16)	2:6:D:DNR:H1'	1:2:A:DC:H1'	3	0.37
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	9	0.36
(1,48)	2:3:D:DNR:H2'	2:4:D:CFZ:H6	6	0.36
(1,56)	2:1:D:DT:H2''	2:6:C:DNR:H42	8	0.35
(1,21)	1:3:A:DC:H2'	2:4:D:CFZ:H1'	10	0.34
(1,49)	1:1:A:DT:H2''	1:6:B:DC:H41	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	2:2:C:DNR:H2'	1:5:B:CFZ:H1'	8	0.33
(1,22)	1:3:B:DC:H2'	2:4:C:CFZ:H1'	9	0.33
(1,40)	2:2:D:DNR:H1'	1:5:A:CFZ:H1'	7	0.32
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	10	0.32
(1,54)	1:1:B:DT:H2''	1:6:A:DC:H42	6	0.31
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	7	0.31
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	8	0.31
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	9	0.31
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	3	0.3
(1,63)	2:1:C:DT:C7	2:6:D:DNR:H42	6	0.29
(1,52)	2:1:D:DT:H2''	2:6:C:DNR:H41	1	0.29
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	3	0.29
(1,30)	1:3:B:DC:H2''	2:4:C:CFZ:H1'	3	0.29
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	2	0.29
(1,43)	2:3:C:DNR:H1'	1:4:B:CFZ:H1'	9	0.28
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	6	0.28
(1,16)	2:6:D:DNR:H1'	1:2:A:DC:H1'	9	0.28
(1,63)	2:1:C:DT:C7	2:6:D:DNR:H42	7	0.27
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	5	0.26
(1,44)	2:3:D:DNR:H1'	1:4:A:CFZ:H1'	4	0.26
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	1	0.26
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	8	0.25
(1,61)	1:1:A:DT:C7	1:6:B:DC:H42	5	0.25
(1,30)	1:3:B:DC:H2''	2:4:C:CFZ:H1'	7	0.25
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	6	0.25
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	2	0.23
(2,8)	2:5:D:CFZ:H4'	2:4:D:CFZ:F2'	8	0.22
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	9	0.22
(1,15)	2:6:C:DNR:H1'	1:2:B:DC:H1'	10	0.22
(1,29)	1:3:A:DC:H2''	2:4:D:CFZ:H1'	4	0.21
(1,16)	2:6:D:DNR:H1'	1:2:A:DC:H1'	6	0.21
(1,13)	1:6:A:DC:H1'	2:2:D:DNR:H1'	9	0.21
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	5	0.2
(1,29)	1:3:A:DC:H2''	2:4:D:CFZ:H1'	9	0.2
(1,15)	2:6:C:DNR:H1'	1:2:B:DC:H1'	8	0.2
(1,38)	1:2:B:DC:H1'	2:5:C:CFZ:H1'	3	0.19
(1,28)	2:2:D:DNR:H2'	1:5:A:CFZ:H1'	8	0.19
(1,19)	2:2:C:DNR:H2''	1:5:B:CFZ:H1'	8	0.19
(1,30)	1:3:B:DC:H2''	2:4:C:CFZ:H1'	2	0.18
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	7	0.17
(1,29)	1:3:A:DC:H2''	2:4:D:CFZ:H1'	3	0.17
(1,22)	1:3:B:DC:H2'	2:4:C:CFZ:H1'	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	2:2:C:DNR:H2''	1:5:B:CFZ:H1'	9	0.16
(1,17)	1:2:A:DC:H2''	2:5:D:CFZ:H1'	9	0.16
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	3	0.15
(1,37)	1:2:A:DC:H1'	2:5:D:CFZ:H1'	4	0.15
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	4	0.14
(1,20)	2:2:D:DNR:H2''	1:5:A:CFZ:H1'	9	0.14
(1,14)	1:6:B:DC:H1'	2:2:C:DNR:H1'	1	0.13
(1,23)	2:3:C:DNR:H2''	1:4:B:CFZ:H1'	5	0.12
(1,17)	1:2:A:DC:H2''	2:5:D:CFZ:H1'	2	0.12
(1,64)	2:1:D:DT:C7	2:6:C:DNR:H42	10	0.11
(1,62)	1:1:B:DT:C7	1:6:A:DC:H42	10	0.11
(1,61)	1:1:A:DT:C7	1:6:B:DC:H42	3	0.11
(1,47)	2:3:C:DNR:H2''	2:4:C:CFZ:H6	6	0.11
(1,51)	2:1:C:DT:H2''	2:6:D:DNR:H41	1	0.1
(1,50)	1:1:B:DT:H2''	1:6:A:DC:H41	2	0.1

10 Dihedral-angle violation analysis

No dihedral-angle restraints found