



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 10, 2023 – 02:53 AM EDT

PDB ID : 7MOO  
Title : L-type DNA containing 2'-fluoro-2'-deoxycytidine  
Authors : Dantsu, Y.; Zhang, Y.; Zhang, W.  
Deposited on : 2021-05-03  
Resolution : 1.35 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.35.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.35.1

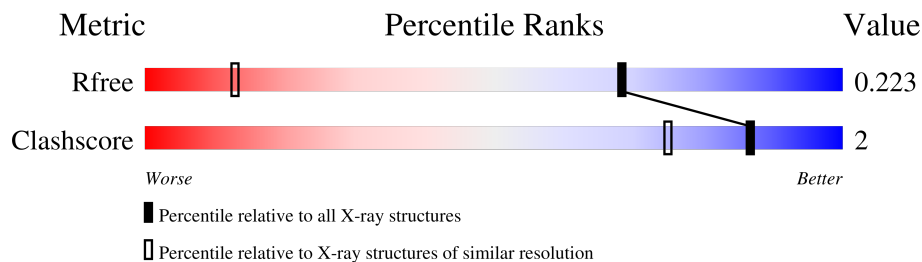
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.35 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1509 (1.38-1.34)
Clashscore	141614	1551 (1.38-1.34)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	8	
1	B	8	

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 359 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a DNA chain called DNA (5'-D>(\* (0DG)P\*(OFC)P\*(0DG)P\*(0DT)P\*(0DA)P\*(0DC)P\*(0DG)P\*(0DC))-3').

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	F	N	O	P			
1	A	8	Total 162	C 77	F 1	N 31	O 46	P 7	0	0	0
1	B	8	Total 162	C 77	F 1	N 31	O 46	P 7	0	0	0

- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	18	Total 18	O 18	0	0
2	B	17	Total 17	O 17	0	0

### 3 Residue-property plots


These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: DNA (5'-D\*(0DG)P\*(OFC)P\*(0DG)P\*(0DT)P\*(0DA)P\*(0DC)P\*(0DG)P\*(0DC))-3')

Chain A:  100%

G1	OFC2
G3	T4
A5	C6
G7	C8

- Molecule 1: DNA (5'-D\*(0DG)P\*(OFC)P\*(0DG)P\*(0DT)P\*(0DA)P\*(0DC)P\*(0DG)P\*(0DC))-3')

Chain B:  88% 12%

G1	OFC2
G3	T4
A5	C6
G7	C8

## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	43.84Å 43.84Å 41.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	21.93 – 1.35 21.92 – 1.35	Depositor EDS
% Data completeness (in resolution range)	99.2 (21.93-1.35) 99.2 (21.92-1.35)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.28 (at 1.35Å)	Xtrriage
Refinement program	REFMAC 5.8.0267	Depositor
R, $R_{free}$	0.184 , 0.227 0.190 , 0.223	Depositor DCC
$R_{free}$ test set	458 reflections (4.63%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	21.0	Xtrriage
Anisotropy	0.064	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 43.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.078 for h,-h-k,-l	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	359	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	22.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.17% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: OFC, ODC, ODT, ODG, ODA

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

There are no protein, RNA or DNA chains available to summarize Z scores of covalent bonds and angles.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	162	0	79	0	0
1	B	162	0	79	1	0
2	A	18	0	0	0	0
2	B	17	0	0	0	0
All	All	359	0	158	1	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (1) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:8:0DC:HO3'	1:B:8:0DC:O3'	1.93	0.68

There are no symmetry-related clashes.

### 5.3 Torsion angles [i](#)

#### 5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

#### 5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

#### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

16 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	0DA	A	5	1	18,23,24	1.59	5 (27%)	17,33,36	1.19	1 (5%)
1	0DG	A	3	1	18,24,25	1.87	3 (16%)	19,35,38	1.38	2 (10%)
1	0DG	A	1	1	18,21,25	1.90	4 (22%)	19,31,38	1.39	3 (15%)
1	0DT	B	4	1	18,21,22	1.71	5 (27%)	26,30,33	2.33	7 (26%)
1	0DG	A	7	1	18,24,25	1.75	2 (11%)	19,35,38	1.46	3 (15%)
1	OFC	B	2	1	18,21,22	1.55	4 (22%)	26,30,33	1.11	1 (3%)
1	0DG	B	7	1	18,24,25	1.72	3 (16%)	19,35,38	1.11	1 (5%)
1	0DC	B	6	1	17,20,21	1.41	3 (17%)	24,28,31	1.17	3 (12%)
1	OFC	A	2	1	18,21,22	1.83	1 (5%)	26,30,33	1.62	3 (11%)
1	0DT	A	4	1	18,21,22	1.77	5 (27%)	26,30,33	2.85	9 (34%)
1	0DC	B	8	1	17,20,21	1.48	5 (29%)	24,28,31	1.65	4 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	ODG	B	3	1	18,24,25	2.03	6 (33%)	19,35,38	1.21	1 (5%)
1	ODG	B	1	1	18,21,25	1.39	3 (16%)	19,31,38	1.19	1 (5%)
1	ODA	B	5	1	18,23,24	1.65	2 (11%)	17,33,36	1.74	8 (47%)
1	ODC	A	8	1	17,20,21	1.32	2 (11%)	24,28,31	1.02	2 (8%)
1	ODC	A	6	1	17,20,21	1.00	0	24,28,31	1.23	3 (12%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	ODA	A	5	1	-	0/3/21/22	0/3/3/3
1	ODG	A	3	1	-	0/3/21/22	0/3/3/3
1	ODG	A	1	1	-	0/2/18/22	0/3/3/3
1	ODT	B	4	1	-	0/7/21/22	0/2/2/2
1	ODG	A	7	1	-	0/3/21/22	0/3/3/3
1	OFC	B	2	1	-	0/7/25/26	0/2/2/2
1	ODG	B	7	1	-	0/3/21/22	0/3/3/3
1	ODC	B	6	1	-	0/7/21/22	0/2/2/2
1	OFC	A	2	1	-	0/7/25/26	0/2/2/2
1	ODT	A	4	1	-	0/7/21/22	0/2/2/2
1	ODC	B	8	1	-	0/7/21/22	0/2/2/2
1	ODG	B	3	1	-	0/3/21/22	0/3/3/3
1	ODG	B	1	1	-	0/2/18/22	0/3/3/3
1	ODA	B	5	1	-	0/3/21/22	0/3/3/3
1	ODC	A	8	1	-	0/7/21/22	0/2/2/2
1	ODC	A	6	1	-	0/7/21/22	0/2/2/2

All (53) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2	OFC	C2'-C1'	-6.61	1.44	1.53
1	A	1	ODG	C5-C6	-5.96	1.35	1.47
1	A	7	ODG	C5-C6	-5.90	1.35	1.47
1	B	5	ODA	C2A-N3A	5.46	1.40	1.32
1	B	7	ODG	C5-C6	-4.81	1.37	1.47
1	B	3	ODG	C5-C6	-4.72	1.37	1.47
1	A	3	ODG	C5-C6	-4.33	1.38	1.47
1	B	2	OFC	C2'-C1'	-4.26	1.47	1.53
1	B	1	ODG	C5-C6	-3.87	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	8	0DC	C2'-C3'	-3.71	1.43	1.52
1	B	3	0DG	O3'-C3'	3.69	1.51	1.43
1	B	4	0DT	C6-C5	3.68	1.40	1.34
1	A	3	0DG	O4'-C1'	3.68	1.50	1.42
1	B	4	0DT	C5M-C5	-3.59	1.41	1.50
1	B	6	0DC	O3'-C3'	3.43	1.50	1.43
1	A	5	0DA	O4'-C4'	-3.40	1.37	1.45
1	A	4	0DT	C6-N1	3.34	1.43	1.38
1	B	7	0DG	O4'-C1'	3.30	1.49	1.42
1	A	1	0DG	O4'-C1'	3.10	1.49	1.42
1	B	3	0DG	C5-C4	-3.09	1.35	1.43
1	A	3	0DG	C5-C4	-3.04	1.35	1.43
1	B	2	OFC	O5'-C5'	-3.00	1.37	1.44
1	A	4	0DT	C2-N3	2.98	1.43	1.38
1	A	4	0DT	C4-N3	-2.90	1.33	1.38
1	A	5	0DA	C2A-N1A	-2.89	1.28	1.33
1	A	5	0DA	O4'-C1'	2.67	1.48	1.42
1	B	8	0DC	C2-N1	-2.65	1.34	1.40
1	B	4	0DT	C2'-C3'	-2.61	1.46	1.52
1	B	7	0DG	C5-C4	-2.53	1.36	1.43
1	B	3	0DG	O4'-C4'	-2.41	1.39	1.45
1	A	5	0DA	C2A-N3A	2.39	1.36	1.32
1	B	2	OFC	O4'-C1'	2.39	1.47	1.42
1	B	1	0DG	O4'-C4'	2.33	1.50	1.45
1	A	4	0DT	C6-C5	2.32	1.38	1.34
1	B	5	0DA	O3'-C3'	-2.29	1.38	1.43
1	A	4	0DT	C5M-C5	-2.29	1.45	1.50
1	B	4	0DT	C1'-N1	2.28	1.54	1.48
1	B	6	0DC	O5'-C5'	-2.26	1.39	1.44
1	B	3	0DG	O4'-C1'	2.26	1.47	1.42
1	A	1	0DG	C5-C4	-2.22	1.37	1.43
1	A	8	0DC	C4-N3	2.21	1.39	1.34
1	B	8	0DC	C4-N3	2.20	1.39	1.34
1	A	5	0DA	C5A-C4A	-2.16	1.35	1.40
1	B	8	0DC	C2'-C1'	2.14	1.58	1.52
1	B	3	0DG	O6-C6	2.14	1.27	1.23
1	B	1	0DG	O6-C6	2.10	1.27	1.23
1	B	8	0DC	C2-N3	2.08	1.40	1.36
1	B	4	0DT	C6-N1	2.08	1.41	1.38
1	B	8	0DC	C2'-C3'	-2.06	1.47	1.52
1	B	6	0DC	C4-N4	-2.05	1.29	1.33
1	A	1	0DG	C5'-C4'	2.05	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2	OFC	C2'-C3'	-2.04	1.49	1.52
1	A	7	ODG	O6-C6	2.01	1.27	1.23

All (52) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4	ODT	C5-C4-N3	10.48	124.25	115.31
1	B	4	ODT	C5-C4-N3	8.20	122.31	115.31
1	A	4	ODT	C4-N3-C2	-5.18	120.64	127.35
1	A	2	OFC	O4'-C1'-C2'	4.50	110.43	105.79
1	B	4	ODT	C4-N3-C2	-4.41	121.64	127.35
1	B	8	ODC	C5-C4-N4	4.34	127.40	120.57
1	A	4	ODT	C6-C5-C4	-4.11	114.60	118.03
1	A	2	OFC	C3'-C2'-C1'	-3.92	98.38	103.13
1	B	3	ODG	O6-C6-N1	-3.57	116.44	120.65
1	A	7	ODG	N1-C2-N3	-3.48	116.83	123.32
1	A	4	ODT	C5M-C5-C4	3.45	122.57	118.77
1	A	4	ODT	O4-C4-N3	-3.27	113.86	120.12
1	B	4	ODT	O4-C4-C5	-3.23	121.15	124.90
1	B	4	ODT	C5M-C5-C4	3.10	122.18	118.77
1	B	4	ODT	C6-C5-C4	-3.09	115.45	118.03
1	A	1	ODG	C8-N7-C5	3.02	108.74	102.99
1	A	6	ODC	C2'-C3'-C4'	-2.90	96.72	102.76
1	B	5	ODA	N3A-C2A-N1A	-2.86	124.21	128.68
1	A	1	ODG	O6-C6-N1	-2.74	117.42	120.65
1	A	5	ODA	N3A-C2A-N1A	-2.73	124.41	128.68
1	A	1	ODG	O4'-C4'-C5'	-2.69	103.39	109.21
1	B	8	ODC	N4-C4-N3	-2.65	113.31	117.97
1	A	4	ODT	O4-C4-C5	-2.61	121.88	124.90
1	A	7	ODG	C8-N7-C5	2.53	107.81	102.99
1	B	4	ODT	C5-C6-N1	-2.51	120.75	123.34
1	B	5	ODA	C5A-C6A-N1A	-2.51	114.65	120.35
1	A	4	ODT	O2-C2-N1	-2.48	119.48	122.79
1	A	3	ODG	N1-C2-N3	-2.44	118.76	123.32
1	B	5	ODA	C2'-C3'-C4'	-2.43	97.69	102.76
1	B	4	ODT	N3-C2-N1	2.40	118.08	114.89
1	B	8	ODC	C3'-C2'-C1'	2.38	108.51	102.54
1	A	4	ODT	O4'-C4'-C3'	-2.37	100.15	105.67
1	A	4	ODT	N3-C2-N1	2.33	117.98	114.89
1	B	8	ODC	O4'-C1'-N1	2.32	112.00	107.86
1	B	6	ODC	C1'-N1-C6	2.31	126.11	121.55
1	A	7	ODG	N2-C2-N3	2.30	124.22	119.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	5	0DA	C3'-C2'-C1'	-2.28	96.83	102.54
1	B	5	0DA	C2A-N1A-C6A	2.25	122.60	118.75
1	B	2	OFC	O4'-C4'-C3'	-2.22	100.73	105.11
1	A	2	OFC	O2-C2-N1	2.21	123.46	118.89
1	A	8	0DC	C1'-N1-C2	-2.19	113.90	117.74
1	B	5	0DA	C5A-C6A-N6A	2.16	123.64	120.35
1	B	6	0DC	O4'-C4'-C3'	-2.16	100.63	105.67
1	A	6	0DC	C6-C5-C4	-2.14	114.06	117.50
1	B	1	0DG	N1-C2-N3	-2.12	119.36	123.32
1	B	6	0DC	N4-C4-N3	2.12	121.68	117.97
1	A	8	0DC	C5-C4-N3	-2.12	117.73	121.33
1	B	5	0DA	O4'-C4'-C3'	-2.07	100.84	105.67
1	A	3	0DG	O4'-C1'-C2'	2.07	110.15	106.25
1	B	7	0DG	O4'-C4'-C3'	-2.04	100.92	105.67
1	B	5	0DA	C2'-C1'-N9A	2.03	118.96	114.27
1	A	6	0DC	O4'-C1'-C2'	-2.00	102.47	106.25

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	8	0DC	1	0

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	0/8	-	-	-	-
1	B	0/8	-	-	-	-
All	All	0/16	-	-	-	-

There are no RSRZ outliers to report.

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
1	0DA	B	5	21/22	0.91	0.12	18,22,25,27	0
1	0DG	A	1	19/23	0.92	0.11	22,25,30,36	0
1	0DC	B	6	19/20	0.93	0.09	18,21,27,29	0
1	0DG	A	7	22/23	0.93	0.09	15,18,26,30	0
1	0DG	A	3	22/23	0.94	0.09	16,20,27,30	0
1	0DC	A	6	19/20	0.94	0.10	16,22,27,30	0
1	0DT	A	4	20/21	0.95	0.08	18,21,27,30	0
1	0DA	A	5	21/22	0.95	0.08	16,19,25,25	0
1	OFC	A	2	20/21	0.95	0.08	18,22,27,31	0
1	0DC	A	8	19/20	0.95	0.09	17,21,29,35	0
1	0DC	B	8	19/20	0.95	0.09	19,21,24,29	0
1	0DT	B	4	20/21	0.96	0.08	18,20,25,26	0
1	0DG	B	1	19/23	0.96	0.08	17,18,24,27	0
1	0DG	B	7	22/23	0.96	0.08	16,19,24,27	0
1	0DG	B	3	22/23	0.96	0.08	17,20,25,29	0
1	OFC	B	2	20/21	0.96	0.08	17,20,24,26	0

### 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 6.4 Ligands [i](#)

There are no ligands in this entry.

### 6.5 Other polymers [i](#)

There are no such residues in this entry.