



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 07:46 PM UTC

PDB ID : 7MVS / pdb\_00007mvs  
Title : DNA gyrase complexed with uncleaved DNA and Compound 7 to 2.6A resolution  
Authors : Ratigan, S.C.; McElroy, C.A.  
Deposited on : 2021-05-15  
Resolution : 2.60 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

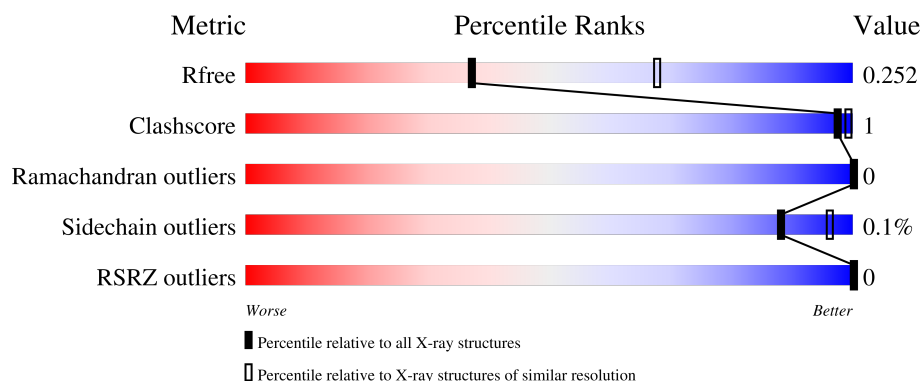
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

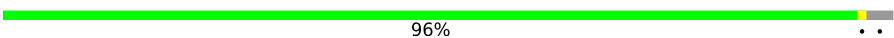
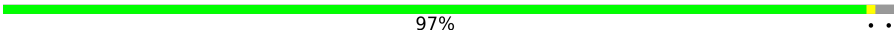


The reported resolution of this entry is 2.60 Å.

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))
$R_{free}$	180053	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	693	 96%
1	B	693	 97%
2	C	20	 75% 25%
2	D	20	 80% 20%

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 23443 atoms, of which 11434 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA gyrase subunit B,DNA gyrase subunit A.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	674	Total	C	H	N	O	S	0	47	0
			11056	3433	5535	1003	1059	26			
1	B	675	Total	C	H	N	O	S	0	31	0
			10906	3400	5441	994	1045	26			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP P0A0K8
A	2	MET	-	expression tag	UNP P0A0K8
A	137	THR	-	linker	UNP P0A0K8
A	138	GLY	-	linker	UNP P0A0K8
A	324	PHE	TYR	engineered mutation	UNP Q99XG5
B	1	GLY	-	expression tag	UNP P0A0K8
B	2	MET	-	expression tag	UNP P0A0K8
B	137	THR	-	linker	UNP P0A0K8
B	138	GLY	-	linker	UNP P0A0K8
B	324	PHE	TYR	engineered mutation	UNP Q99XG5

- Molecule 2 is a DNA chain called DNA (5'-D(P\*AP\*GP\*CP\*CP\*GP\*TP\*AP\*GP\*GP\*GP\*CP\*CP\*CP\*TP\*AP\*CP\*GP\*GP\*CP\*T)-3').

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	C	20	Total	C	H	N	O	P	0	0	0
			619	193	209	77	120	20			
2	D	20	Total	C	H	N	O	P	0	0	0
			585	183	195	75	113	19			

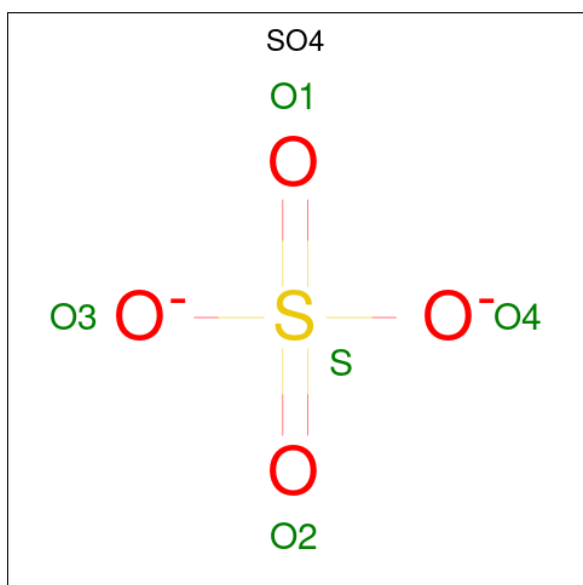
- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		
3	B	2	Total	Cl	0	0
			2	2		

- Molecule 4 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

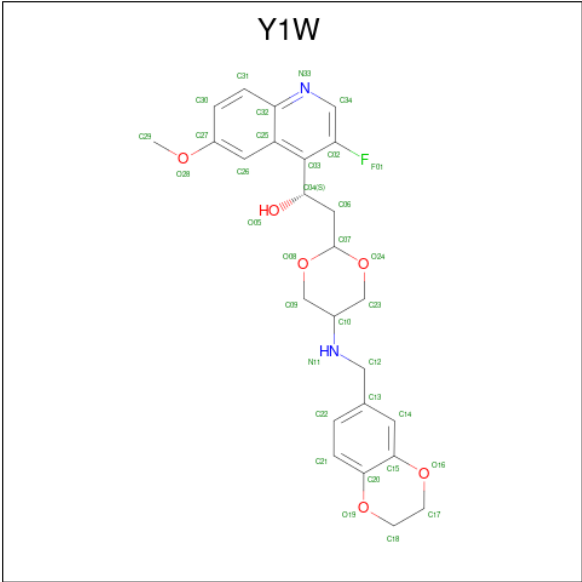
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Mn	0	0
			1	1		
4	B	1	Total	Mn	0	0
			1	1		

- Molecule 5 is SULFATE ION (CCD ID: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 6 is (1S)-2-[(2r,5S)-5-{[(2,3-dihydro-1,4-benzodioxin-6-yl)methyl]amino}-1,3-dioxan-2-yl]-1-(3-fluoro-6-methoxyquinolin-4-yl)ethan-1-ol (CCD ID: Y1W) (formula: C<sub>25</sub>H<sub>27</sub>FN<sub>2</sub>O<sub>6</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
6	D	1	Total	C	F	H	N	O	0	1
			122	50	2	54	4	12		

- Molecule 7 is water.

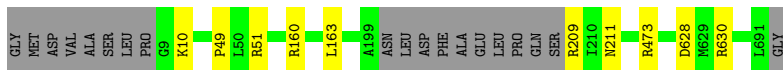
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	71	Total	O	0	0
			71	71		
7	B	55	Total	O	0	0
			55	55		
7	C	10	Total	O	0	0
			10	10		
7	D	9	Total	O	0	0
			9	9		

### 3 Residue-property plots [i](#)

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

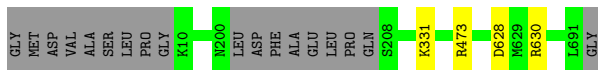
- Molecule 1: DNA gyrase subunit B,DNA gyrase subunit A

Chain A:  96%



- Molecule 1: DNA gyrase subunit B,DNA gyrase subunit A

Chain B:  97%




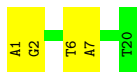
- Molecule 2: DNA (5'-D(P\*AP\*GP\*CP\*CP\*GP\*TP\*AP\*GP\*GP\*GP\*CP\*CP\*CP\*TP\*AP\*C  
P\*GP\*GP\*CP\*T)-3')

Chain C:  75% 25%



- Molecule 2: DNA (5'-D(P\*AP\*GP\*CP\*CP\*GP\*TP\*AP\*GP\*GP\*GP\*CP\*CP\*CP\*TP\*AP\*C  
P\*GP\*GP\*CP\*T)-3')

Chain D:  80% 20%



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 61	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	93.02Å 93.02Å 406.66Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	23.74 – 2.60 23.74 – 2.60	Depositor EDS
% Data completeness (in resolution range)	97.2 (23.74-2.60) 91.1 (23.74-2.60)	Depositor EDS
$R_{merge}$	0.22	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.46 (at 2.60Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, $R_{free}$	0.196 , 0.252 0.195 , 0.252	Depositor DCC
$R_{free}$ test set	1975 reflections (3.25%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	48.9	Xtriage
Anisotropy	0.685	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 21.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.44$ , $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.179 for h,-h-k,-l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	23443	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.65% 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: MN, CL, Y1W, SO4

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	A	0.14	0/5758	0.28	0/7756
1	B	0.14	0/5675	0.29	0/7645
2	C	0.26	0/459	0.50	0/706
2	D	0.29	0/437	0.52	0/674
All	All	0.16	0/12329	0.31	0/16781

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	5521	5535	5355	9	0
1	B	5465	5441	5334	3	0
2	C	410	209	224	5	0
2	D	390	195	209	4	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	B	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	D	68	54	0	1	0
7	A	71	0	0	0	0
7	B	55	0	0	1	0
7	C	10	0	0	0	0
7	D	9	0	0	0	0
All	All	12009	11434	11122	19	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

All (19) 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)
2:D:1:DA:H4'	2:D:2:DG:H5'	1.63	0.81
2:C:1:DA:H2'	2:C:2:DG:C8	2.22	0.74
2:C:1:DA:H2''	2:C:2:DG:O5'	1.92	0.70
1:A:160:ARG:O	1:A:209:ARG:HD3	2.02	0.59
2:C:19:DC:H2''	2:C:20:DT:O5'	2.04	0.58
6:D:101[B]:Y1W:F01	6:D:101[B]:Y1W:O05	2.12	0.57
2:D:1:DA:H4'	2:D:2:DG:C5'	2.36	0.54
1:A:10:LYS:HD3	1:A:49:PRO:HG2	1.88	0.54
2:C:1:DA:H2''	2:C:2:DG:C5'	2.40	0.51
1:A:163:LEU:HA	1:A:211:ASN:O	2.16	0.46
2:D:1:DA:N3	2:D:1:DA:O4'	2.49	0.45
1:A:10:LYS:NZ	1:A:51:ARG:HE	2.14	0.44
1:A:209:ARG:N	1:A:209:ARG:HD2	2.32	0.44
1:A:473:ARG:NH1	2:C:3:DC:H5''	2.32	0.44
2:D:6:DT:C2	2:D:7:DA:C8	3.07	0.42
1:A:630:ARG:NH1	1:B:628:ASP:O	2.52	0.41
1:B:331:LYS:NZ	7:B:805:HOH:O	2.54	0.41
1:A:628:ASP:O	1:B:630:ARG:NH1	2.55	0.40
1:A:10:LYS:HZ2	1:A:51:ARG:HE	1.67	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	717/693 (104%)	690 (96%)	27 (4%)	0	100	100
1	B	702/693 (101%)	674 (96%)	28 (4%)	0	100	100
All	All	1419/1386 (102%)	1364 (96%)	55 (4%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	607/591 (103%)	607 (100%)	0	100	100
1	B	598/591 (101%)	597 (100%)	1 (0%)	87	95
All	All	1205/1182 (102%)	1204 (100%)	1 (0%)	88	96

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	473	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	190	GLN
1	B	94	HIS

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Mol	Chain	Res	Type
1	B	134	GLN
1	B	525	GLN
1	B	535	ASN
1	B	591	HIS
1	B	613	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 5 are monoatomic - leaving 3 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
6	Y1W	D	101[A]	-	38,38,38	2.00	11 (28%)	46,53,53	1.00	5 (10%)
6	Y1W	D	101[B]	-	38,38,38	2.01	12 (31%)	46,53,53	1.19	6 (13%)
5	SO4	B	703	-	4,4,4	0.21	0	6,6,6	0.13	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	Y1W	D	101[A]	-	-	5/15/32/32	1/5/5/5
6	Y1W	D	101[B]	-	-	5/15/32/32	1/5/5/5

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	101[B]	Y1W	O16-C15	5.31	1.43	1.37
6	D	101[A]	Y1W	O16-C15	5.21	1.43	1.37
6	D	101[B]	Y1W	C25-C32	-3.62	1.36	1.42
6	D	101[A]	Y1W	C25-C32	-3.61	1.36	1.42
6	D	101[A]	Y1W	C06-C07	-3.55	1.47	1.51
6	D	101[B]	Y1W	C09-C10	-3.51	1.47	1.51
6	D	101[A]	Y1W	C23-C10	-3.51	1.47	1.51
6	D	101[B]	Y1W	C06-C07	-3.47	1.47	1.51
6	D	101[A]	Y1W	O19-C20	3.40	1.41	1.37
6	D	101[B]	Y1W	C23-C10	-3.37	1.48	1.51
6	D	101[A]	Y1W	C09-C10	-2.84	1.48	1.51
6	D	101[B]	Y1W	O19-C20	2.77	1.40	1.37
6	D	101[A]	Y1W	C14-C15	2.77	1.43	1.38
6	D	101[B]	Y1W	C14-C15	2.73	1.43	1.38
6	D	101[B]	Y1W	C20-C15	-2.45	1.35	1.40
6	D	101[B]	Y1W	C34-N33	2.37	1.35	1.31
6	D	101[A]	Y1W	C34-N33	2.30	1.35	1.31
6	D	101[A]	Y1W	C10-N11	2.30	1.54	1.48
6	D	101[A]	Y1W	C20-C15	-2.26	1.36	1.40
6	D	101[B]	Y1W	O08-C09	-2.26	1.39	1.43
6	D	101[B]	Y1W	C10-N11	2.24	1.54	1.48
6	D	101[B]	Y1W	O08-C07	2.24	1.48	1.41
6	D	101[A]	Y1W	O08-C07	2.22	1.47	1.41

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	101[B]	Y1W	C02-C34-N33	-3.34	119.90	122.66
6	D	101[A]	Y1W	C02-C34-N33	-2.79	120.36	122.66
6	D	101[B]	Y1W	C02-C03-C04	-2.76	117.87	122.25
6	D	101[B]	Y1W	C34-N33-C32	2.50	119.85	116.96
6	D	101[A]	Y1W	C18-O19-C20	2.37	117.84	113.67
6	D	101[A]	Y1W	C34-N33-C32	2.27	119.58	116.96
6	D	101[A]	Y1W	F01-C02-C03	2.24	120.83	118.14
6	D	101[B]	Y1W	C23-O24-C07	2.14	115.19	112.24
6	D	101[B]	Y1W	O19-C20-C15	-2.10	120.15	122.02
6	D	101[A]	Y1W	C12-N11-C10	-2.08	110.40	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	101[B]	Y1W	C12-N11-C10	-2.00	110.52	113.84

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	101[B]	Y1W	C02-C03-C04-O05
6	D	101[B]	Y1W	C25-C03-C04-O05
6	D	101[A]	Y1W	C02-C03-C04-O05
6	D	101[A]	Y1W	C13-C12-N11-C10
6	D	101[A]	Y1W	C25-C03-C04-O05
6	D	101[B]	Y1W	C26-C27-O28-C29
6	D	101[B]	Y1W	C30-C27-O28-C29
6	D	101[A]	Y1W	C26-C27-O28-C29
6	D	101[A]	Y1W	C30-C27-O28-C29
6	D	101[B]	Y1W	C04-C06-C07-O08

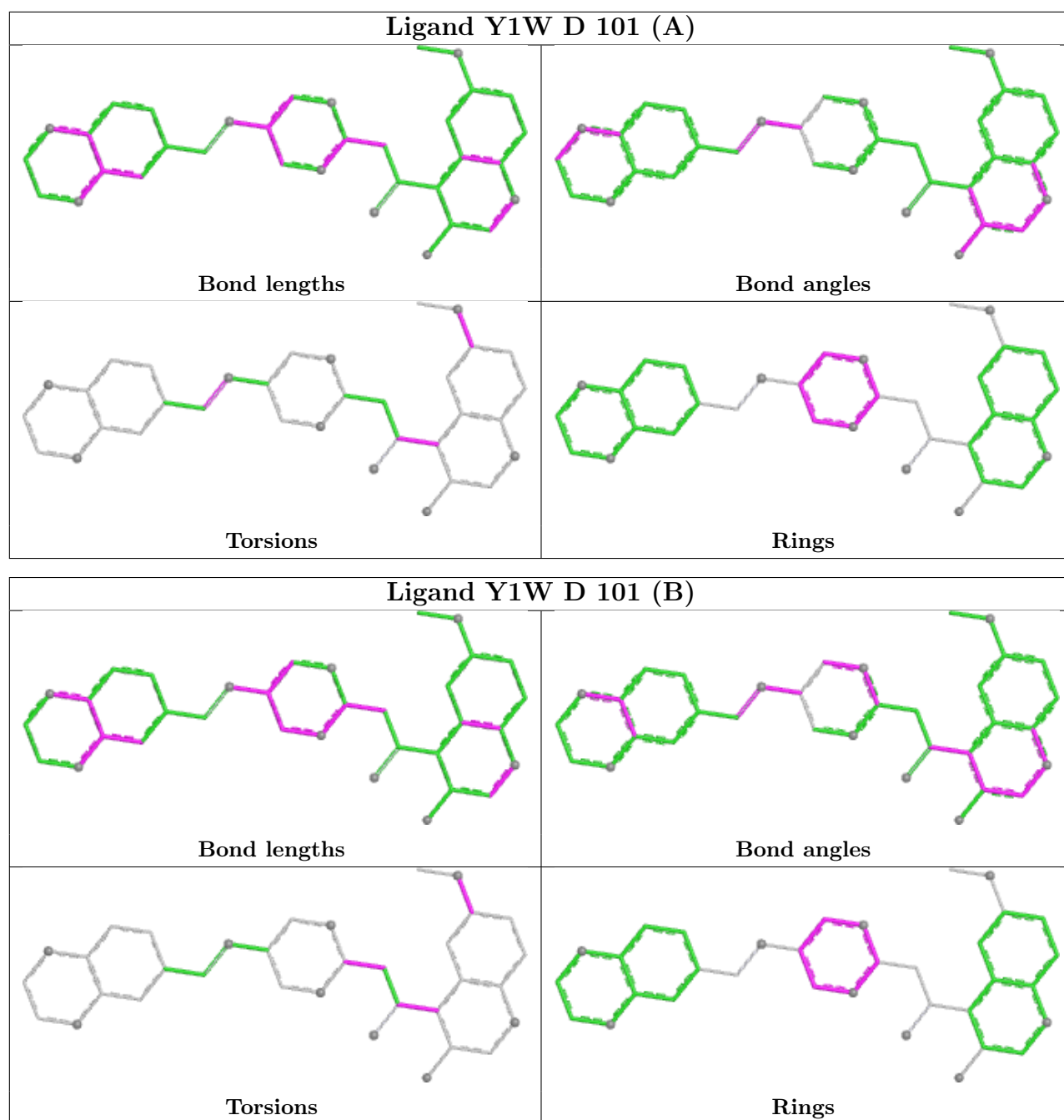
All (2) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	101[A]	Y1W	C07-C09-C10-C23-O08-O24
6	D	101[B]	Y1W	C07-C09-C10-C23-O08-O24

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	101[B]	Y1W	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

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	674/693 (97%)	-1.46	0 100 100	32, 74, 109, 149	24 (3%)
1	B	675/693 (97%)	-1.46	0 100 100	30, 75, 113, 129	16 (2%)
2	C	20/20 (100%)	-1.99	0 100 100	53, 65, 84, 87	0
2	D	20/20 (100%)	-1.86	0 100 100	54, 67, 93, 135	0
All	All	1389/1426 (97%)	-1.47	0 100 100	30, 75, 110, 149	40 (2%)

There are no RSRZ outliers to report.

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

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

### 6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

### 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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.

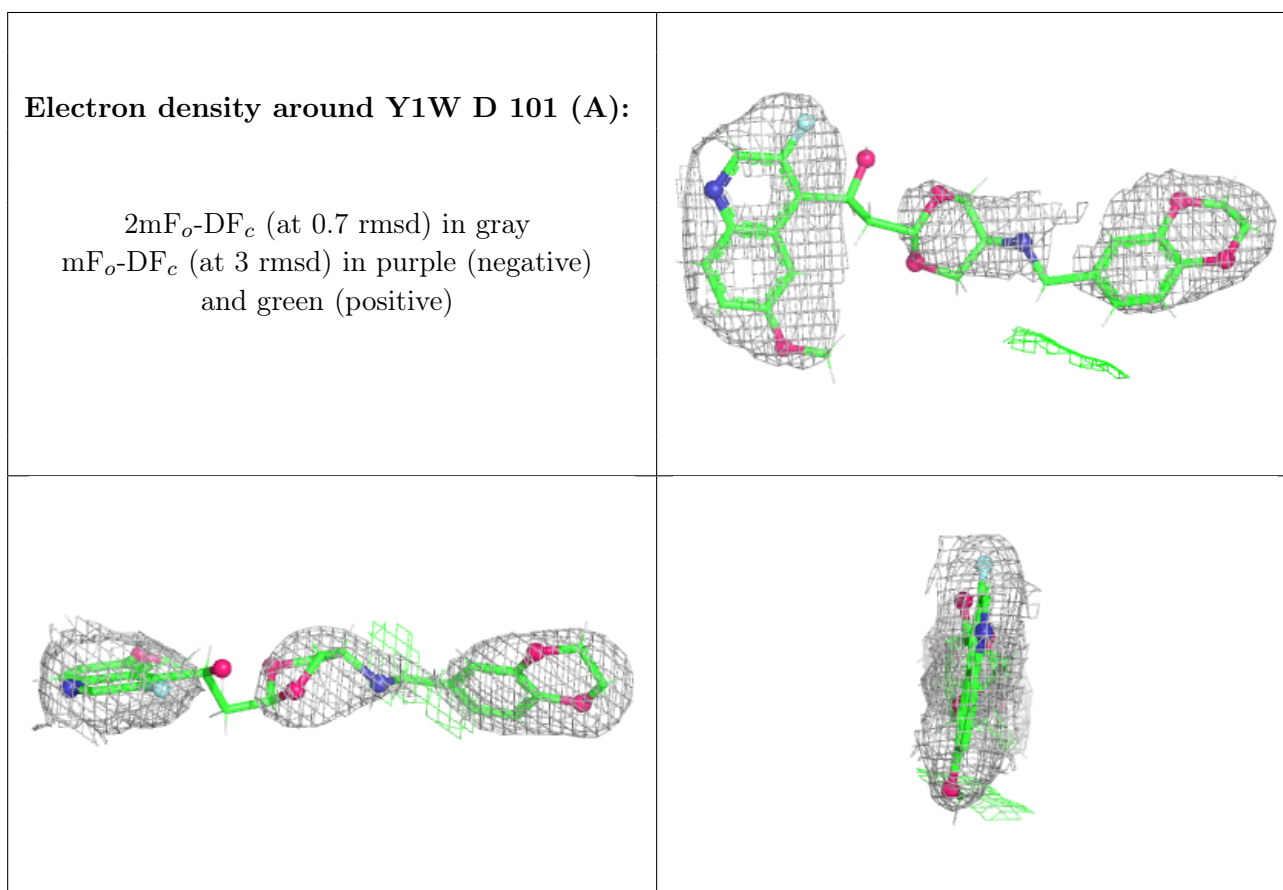
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	CL	A	701	1/1	0.99	0.08	75,75,75,75	0
3	CL	B	702	1/1	0.99	0.04	97,97,97,97	0
4	MN	B	704	1/1	0.99	0.02	98,98,98,98	0
5	SO4	B	703	5/5	0.99	0.06	73,86,109,283	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
6	Y1W	D	101[A]	34/34	0.99	0.04	57,81,120,122	61
6	Y1W	D	101[B]	34/34	0.99	0.04	57,80,114,118	61
3	CL	B	701	1/1	1.00	0.06	82,82,82,82	0
4	MN	A	702	1/1	1.00	0.02	96,96,96,96	0

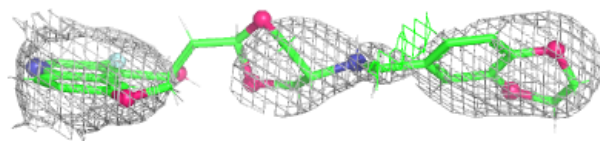
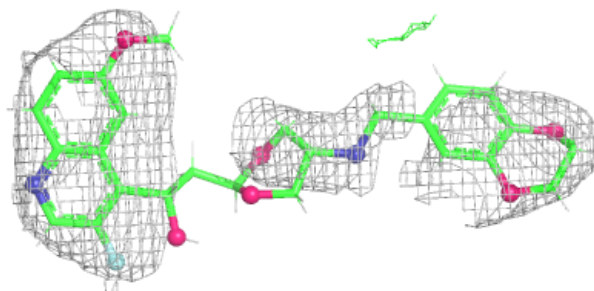
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





**Electron density around Y1W D 101 (B):**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



## 6.5 Other polymers ⓘ

There are no such residues in this entry.