Full wwPDB X-ray Structure Validation Report ⓘ

Oct 15, 2023 – 12:19 AM EDT

PDB ID	:	7LWG
Title	:	Crystal structure of the BCL6 BTB domain in complex with OICR-12694
Authors	:	Kuntz, D.A.; Prive, G.G.
Deposited on	:	2021-03-01
Resolution	:	1.30 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*
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.

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

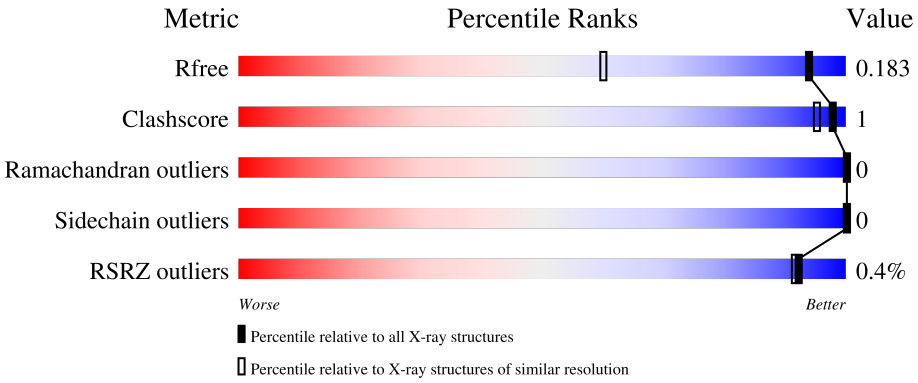
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

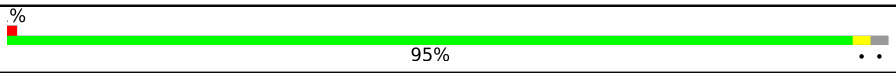
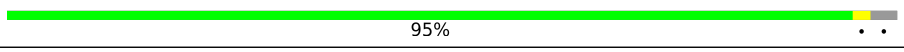
The reported resolution of this entry is 1.30 Å.

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	1058 (1.30-1.30)
Clashscore	141614	1101 (1.30-1.30)
Ramachandran outliers	138981	1058 (1.30-1.30)
Sidechain outliers	138945	1058 (1.30-1.30)
RSRZ outliers	127900	1029 (1.30-1.30)

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

Mol	Chain	Length	Quality of chain
1	A	125	
1	B	125	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	UNX	A	205	-	-	-	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4500 atoms, of which 2139 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.

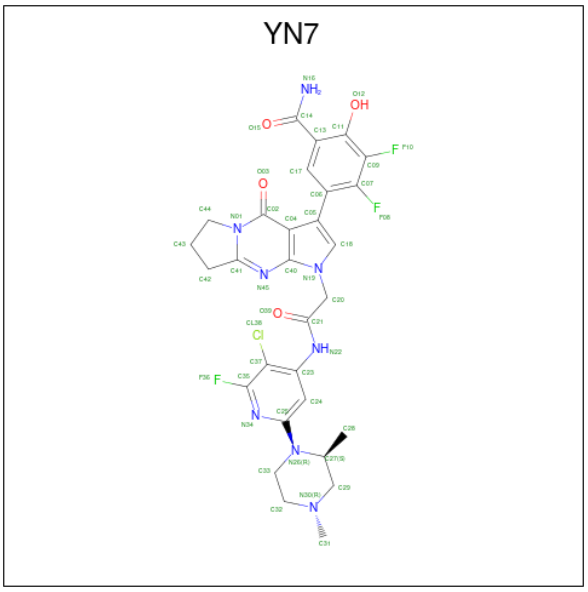
- Molecule 1 is a protein called B-cell lymphoma 6 protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	122	Total	C	H	N	O	S	0	6	0
			2031	641	1022	176	184	8			
1	B	121	Total	C	H	N	O	S	0	11	0
			2064	644	1045	181	186	8			

There are 6 discrepancies between the modelled and reference sequences:

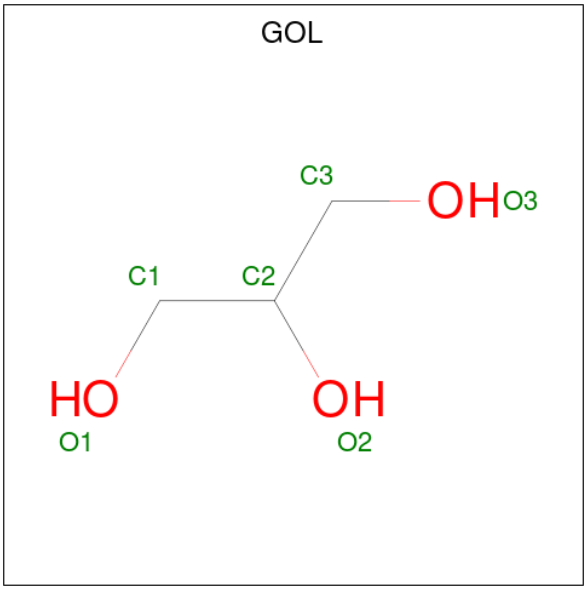
Chain	Residue	Modelled	Actual	Comment	Reference
A	8	GLN	CYS	engineered mutation	UNP P41182
A	67	ARG	CYS	engineered mutation	UNP P41182
A	84	ASN	CYS	engineered mutation	UNP P41182
B	8	GLN	CYS	engineered mutation	UNP P41182
B	67	ARG	CYS	engineered mutation	UNP P41182
B	84	ASN	CYS	engineered mutation	UNP P41182

- Molecule 2 is 5-{(5S)-1-[2-({3-chloro-6-[(2S)-2,4-dimethylpiperazin-1-yl]-2-fluoropyridin-4-yl}amino)-2-oxoethyl]-4-oxo-4,6,7,8-tetrahydro-1H-dipyrrolo[1,2-a:2',3'-d]pyrimidin-3-yl}-3,4-difluoro-2-hydroxybenzamide (three-letter code: YN7) (formula: $C_{29}H_{28}ClF_3N_8O_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms							ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	H	N	O	0	0
			73	29	1	3	28	8	4		
2	B	1	Total	C	Cl	F	H	N	O	0	0
			73	29	1	3	28	8	4		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 4 is UNKNOWN ATOM OR ION (three-letter code: UNX) (formula: X).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	3	Total X 3 3	0	0
4	B	1	Total X 1 1	0	0

- Molecule 5 is water.

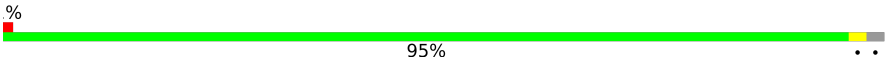
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	112	Total O 120 120	0	7
5	B	101	Total O 107 107	0	7

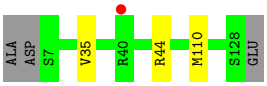
3 Residue-property plots (i)

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: B-cell lymphoma 6 protein

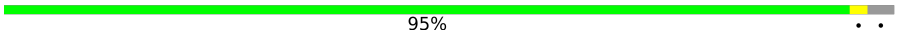
Chain A:

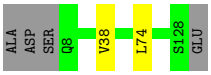




• Molecule 1: B-cell lymphoma 6 protein

Chain B:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	31.79Å 72.94Å 55.34Å 90.00° 106.32° 90.00°	Depositor
Resolution (Å)	53.11 – 1.30 53.11 – 1.13	Depositor EDS
% Data completeness (in resolution range)	96.1 (53.11-1.30) 94.0 (53.11-1.13)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.90 (at 1.13Å)	Xtriage
Refinement program	PHENIX (1.18.2_3874: ???)	Depositor
R, R_{free}	0.144 , 0.184 0.144 , 0.183	Depositor DCC
R_{free} test set	2853 reflections (3.35%)	wwPDB-VP
Wilson B-factor (Å^2)	9.8	Xtriage
Anisotropy	0.424	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.45 , 54.3	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.034 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	4500	wwPDB-VP
Average B, all atoms (Å^2)	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 32.34 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 9.5506e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, YN7, UNX

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	0.44	0/1043	0.63	0/1407
1	B	0.39	0/1078	0.63	0/1454
All	All	0.41	0/2121	0.63	0/2861

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1009	1022	1022	2	0
1	B	1019	1045	1009	1	0
2	A	45	28	0	0	0
2	B	45	28	0	0	0
3	A	6	8	8	0	0
3	B	6	8	8	0	0
4	A	3	0	0	0	0
4	B	1	0	0	0	0
5	A	120	0	0	1	0
5	B	107	0	0	0	0
All	All	2361	2139	2047	3	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 (3) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:MET:HG2	5:A:411:HOH:O	2.01	0.61
1:B:38:VAL:HG22	1:B:74:LEU:HD12	2.00	0.43
1:A:35[B]:VAL:HG22	1:A:44:ARG:HG2	2.01	0.41

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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	126/125 (101%)	124 (98%)	2 (2%)	0	100	100
1	B	130/125 (104%)	127 (98%)	3 (2%)	0	100	100
All	All	256/250 (102%)	251 (98%)	5 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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	115/114 (101%)	115 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	121/114 (106%)	121 (100%)	0	100	100
All	All	236/228 (104%)	236 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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

Mol	Chain	Res	Type
1	A	116	HIS

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 4 are unknown - leaving 4 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	GOL	A	202	-	5,5,5	0.51	0	5,5,5	0.45	0
2	YN7	B	201	-	46,50,50	3.21	22 (47%)	51,76,76	1.86	17 (33%)
2	YN7	A	201	-	46,50,50	3.53	24 (52%)	51,76,76	2.05	11 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	GOL	B	202	-	5,5,5	0.45	0	5,5,5	0.46	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	A	202	-	-	0/4/4/4	-
2	YN7	B	201	-	-	1/20/39/39	0/6/6/6
2	YN7	A	201	-	-	1/20/39/39	0/6/6/6
3	GOL	B	202	-	-	0/4/4/4	-

All (46) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	201	YN7	C42-C41	-9.64	1.31	1.50
2	B	201	YN7	C42-C41	-9.12	1.32	1.50
2	A	201	YN7	C41-N01	8.42	1.50	1.37
2	B	201	YN7	C41-N01	7.89	1.49	1.37
2	A	201	YN7	C31-N30	-6.15	1.32	1.46
2	B	201	YN7	C41-N45	6.09	1.40	1.29
2	B	201	YN7	C43-C44	-6.07	1.30	1.51
2	A	201	YN7	C43-C44	-5.98	1.30	1.51
2	B	201	YN7	C31-N30	-5.90	1.33	1.46
2	A	201	YN7	C44-N01	5.75	1.55	1.47
2	A	201	YN7	C41-N45	5.69	1.39	1.29
2	B	201	YN7	C44-N01	5.60	1.55	1.47
2	A	201	YN7	C29-N30	-5.51	1.37	1.46
2	A	201	YN7	O15-C14	-5.20	1.14	1.24
2	A	201	YN7	C32-N30	-5.08	1.35	1.46
2	A	201	YN7	C06-C05	-4.74	1.41	1.49
2	A	201	YN7	C40-N45	4.40	1.48	1.37
2	B	201	YN7	C06-C05	-4.30	1.42	1.49
2	B	201	YN7	C04-C40	4.27	1.46	1.40
2	B	201	YN7	C29-N30	-4.23	1.39	1.46
2	B	201	YN7	C40-N45	4.15	1.47	1.37
2	A	201	YN7	C13-C14	3.80	1.55	1.50
2	A	201	YN7	C14-N16	3.68	1.40	1.33
2	A	201	YN7	O03-C02	-3.60	1.15	1.22
2	B	201	YN7	C14-N16	3.59	1.39	1.33
2	A	201	YN7	C43-C42	3.56	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	201	YN7	O39-C21	-3.56	1.16	1.23
2	B	201	YN7	C43-C42	3.48	1.66	1.52
2	B	201	YN7	C21-N22	3.23	1.42	1.35
2	A	201	YN7	C23-N22	3.05	1.47	1.41
2	B	201	YN7	C32-N30	-3.00	1.40	1.46
2	A	201	YN7	C37-CL38	2.94	1.79	1.72
2	B	201	YN7	C18-C05	2.82	1.42	1.38
2	A	201	YN7	C04-C40	2.78	1.44	1.40
2	B	201	YN7	O15-C14	-2.70	1.19	1.24
2	A	201	YN7	C21-N22	2.65	1.41	1.35
2	A	201	YN7	C04-C02	2.60	1.53	1.47
2	B	201	YN7	C04-C02	2.45	1.53	1.47
2	A	201	YN7	O12-C11	2.43	1.42	1.37
2	B	201	YN7	C27-N26	-2.41	1.44	1.47
2	B	201	YN7	C18-N19	-2.37	1.35	1.38
2	A	201	YN7	C18-N19	-2.34	1.35	1.38
2	B	201	YN7	F08-C07	2.32	1.38	1.35
2	B	201	YN7	C13-C14	2.18	1.52	1.50
2	A	201	YN7	C18-C05	2.13	1.41	1.38
2	B	201	YN7	O39-C21	-2.04	1.19	1.23

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	201	YN7	C32-N30-C29	6.68	116.27	110.16
2	B	201	YN7	C32-N30-C29	5.47	115.16	110.16
2	A	201	YN7	C24-C25-N26	-4.53	116.97	122.31
2	A	201	YN7	C44-N01-C41	-4.36	106.52	113.15
2	A	201	YN7	C33-C32-N30	4.15	115.49	110.80
2	B	201	YN7	C23-C37-CL38	3.72	122.24	119.52
2	B	201	YN7	C44-N01-C41	-3.68	107.56	113.15
2	A	201	YN7	C44-N01-C02	3.66	127.39	123.76
2	A	201	YN7	C18-C05-C06	-3.59	120.95	125.91
2	B	201	YN7	C24-C25-N26	-3.57	118.10	122.31
2	B	201	YN7	C18-C05-C06	-3.17	121.54	125.91
2	A	201	YN7	C11-C09-C07	-3.00	119.18	121.60
2	A	201	YN7	O39-C21-C20	2.90	124.76	120.04
2	B	201	YN7	C24-C23-C37	2.75	121.19	118.26
2	A	201	YN7	C24-C23-C37	2.67	121.11	118.26
2	B	201	YN7	C31-N30-C29	2.66	113.61	110.57
2	B	201	YN7	C11-C09-C07	-2.59	119.52	121.60
2	B	201	YN7	C33-C32-N30	2.57	113.70	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	201	YN7	N34-C25-N26	2.55	119.41	116.57
2	B	201	YN7	F36-C35-N34	2.51	119.14	116.15
2	B	201	YN7	C44-N01-C02	2.44	126.17	123.76
2	B	201	YN7	C05-C06-C07	-2.38	119.39	122.24
2	A	201	YN7	O12-C11-C13	2.25	125.06	121.07
2	B	201	YN7	O12-C11-C13	2.24	125.05	121.07
2	B	201	YN7	O39-C21-C20	2.14	123.53	120.04
2	B	201	YN7	F08-C07-C09	-2.11	114.87	119.27
2	B	201	YN7	C18-N19-C40	2.06	111.19	108.68
2	B	201	YN7	C17-C13-C14	-2.03	116.53	121.53

There are no chirality outliers.

All (2) torsion outliers are listed below:

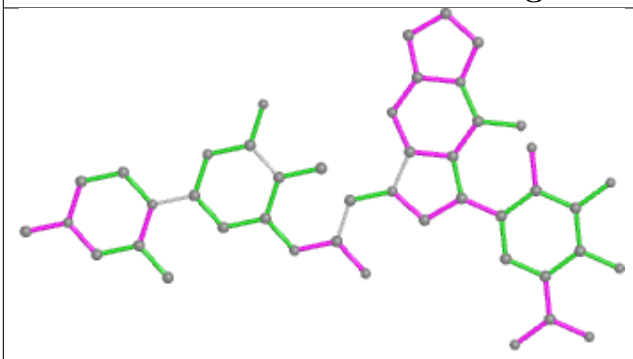
Mol	Chain	Res	Type	Atoms
2	A	201	YN7	C04-C05-C06-C07
2	B	201	YN7	C04-C05-C06-C07

There are no ring outliers.

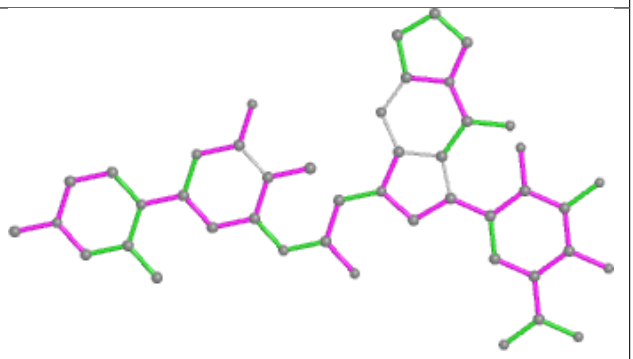
No monomer is involved in short contacts.

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 then 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.

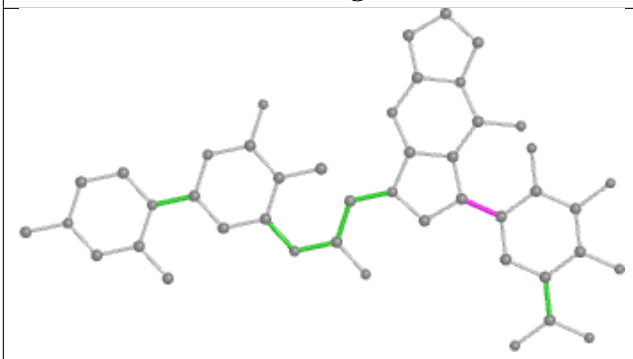
Ligand YN7 B 201



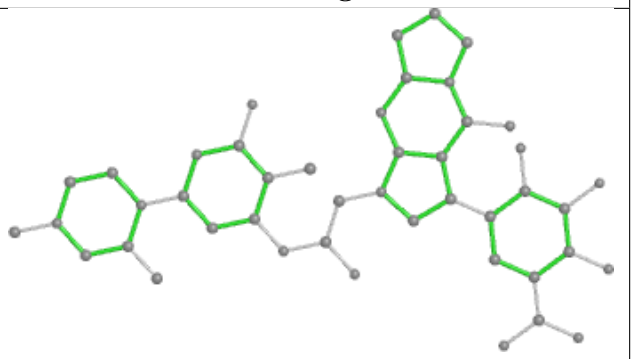
Bond lengths



Bond angles

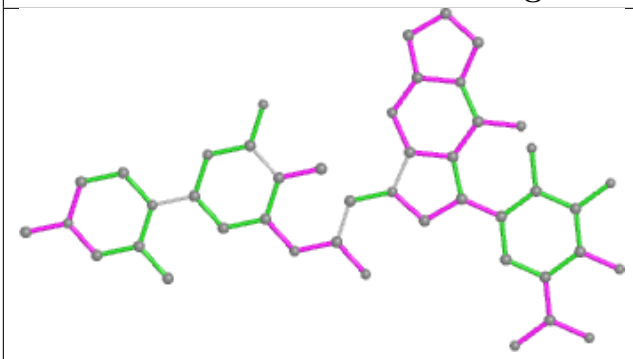


Torsions

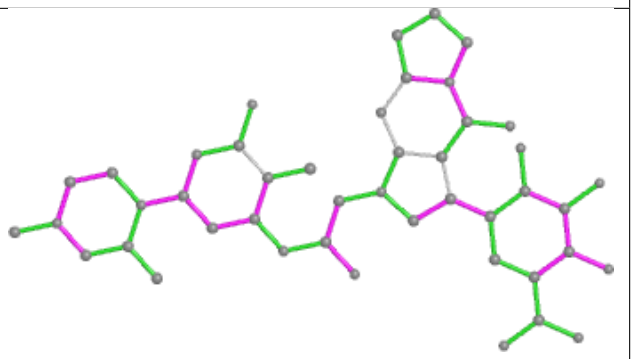


Rings

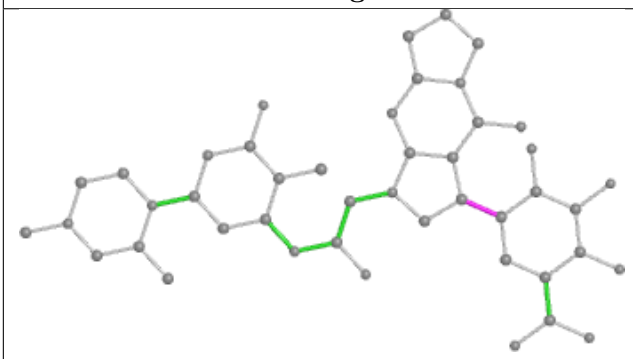
Ligand YN7 A 201



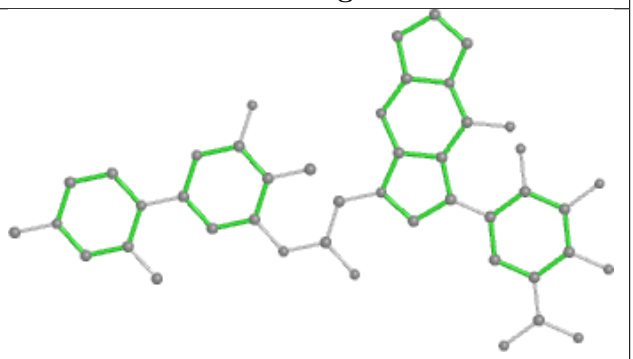
Bond lengths



Bond angles



Torsions



Rings

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

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	122/125 (97%)	-0.28	1 (0%) 86 86	7, 12, 22, 34	0
1	B	121/125 (96%)	-0.27	0 100 100	7, 13, 26, 37	0
All	All	243/250 (97%)	-0.28	1 (0%) 92 91	7, 13, 25, 37	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	40	ARG	2.8

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

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

6.3 Carbohydrates

There are no monosaccharides in this entry.

6.4 Ligands

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	UNX	A	205	1/1	0.80	0.41	30,30,30,30	0
4	UNX	B	203	1/1	0.80	0.32	30,30,30,30	0
4	UNX	A	204	1/1	0.91	0.25	30,30,30,30	0
3	GOL	A	202	6/6	0.91	0.15	13,21,28,30	0

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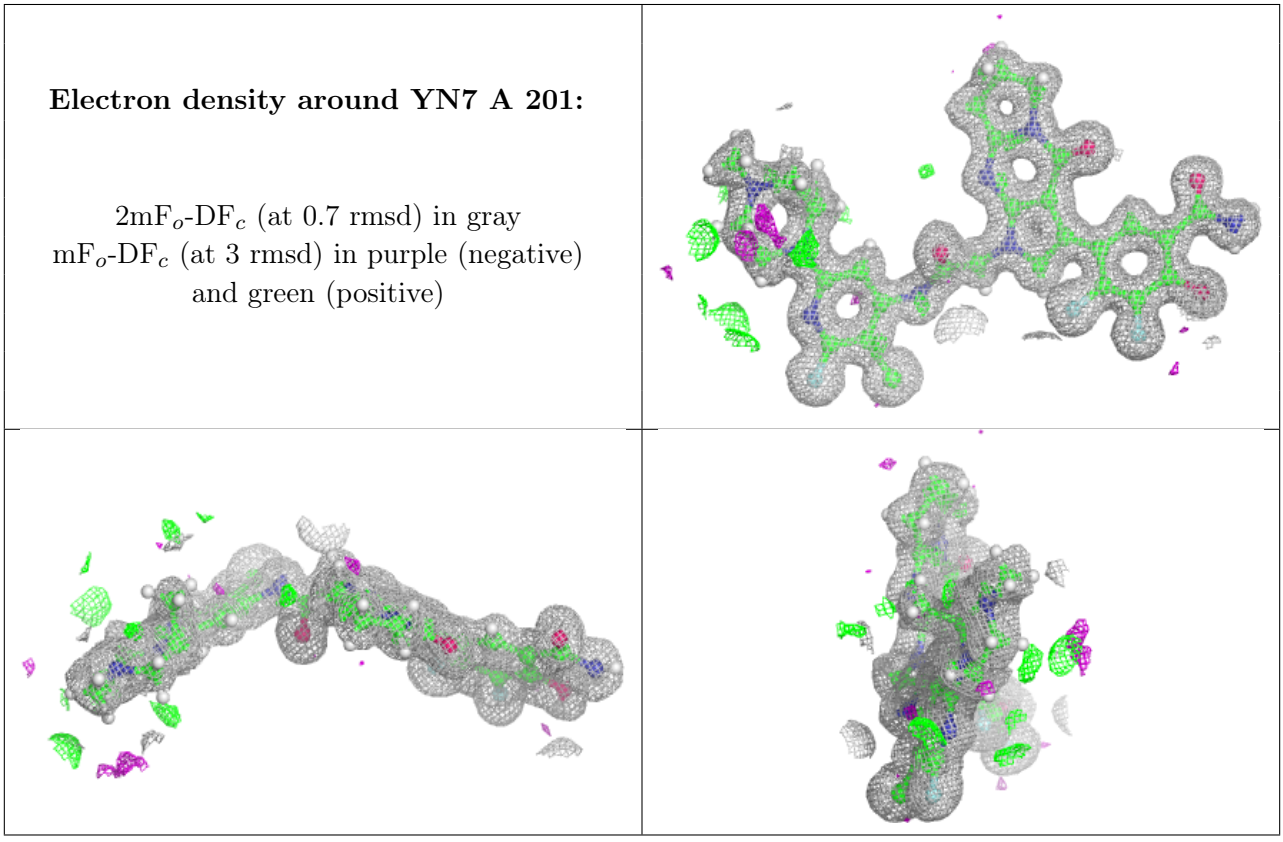
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	UNX	A	203	1/1	0.91	0.55	30,30,30,30	0
3	GOL	B	202	6/6	0.95	0.09	15,19,21,24	14
2	YN7	A	201	45/45	0.98	0.07	7,10,21,22	0
2	YN7	B	201	45/45	0.98	0.06	7,10,17,19	0

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.

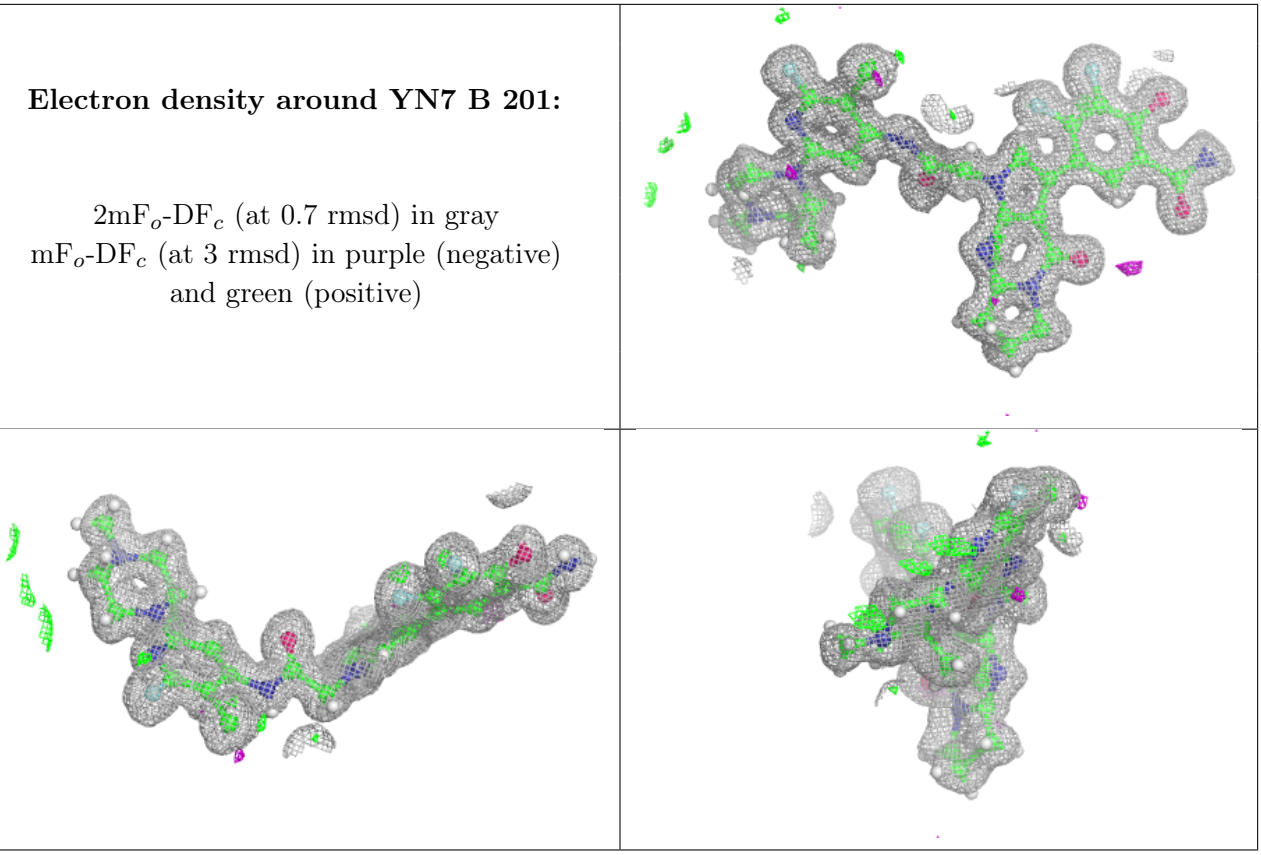
Electron density around YN7 A 201:

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



Electron density around YN7 B 201:

$2mF_o$-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 (i)

There are no such residues in this entry.