



# Full wwPDB X-ray Structure Validation Report ⓘ

Aug 21, 2025 – 04:44 pm BST

PDB ID : 9H2U / pdb\_00009h2u  
Title : Crystal structure of YTHDC1 in complex with AI\_033  
Authors : Bedi, R.K.; Caflisch, A.  
Deposited on : 2024-10-15  
Resolution : 1.21 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 Phenix2.0rc1  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (Phenix) : 2.0rc1  
EDS : 3.0  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
CCP4 : 9.0.006 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.45.1

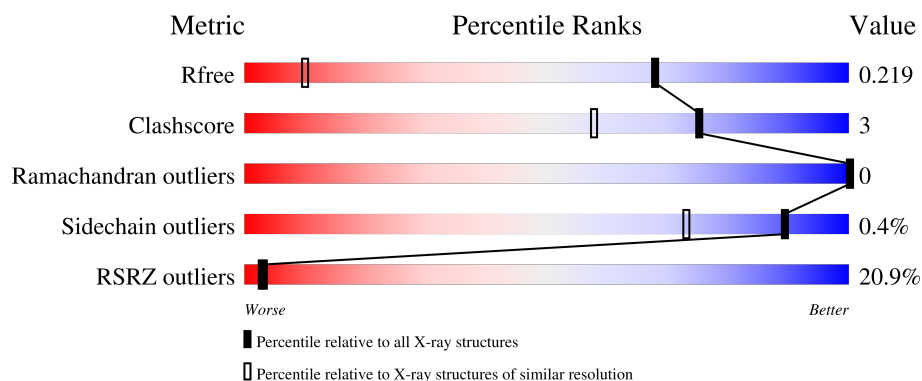
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.21 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))
$R_{free}$	164625	1745 (1.24-1.20)
Clashscore	180529	1895 (1.24-1.20)
Ramachandran outliers	177936	1845 (1.24-1.20)
Sidechain outliers	177891	1844 (1.24-1.20)
RSRZ outliers	164620	1744 (1.24-1.20)

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	166	<div> <div>19%</div> <div> <div></div> <div>93%</div> <div>6% .</div> </div> </div>
1	B	166	<div> <div>22%</div> <div> <div></div> <div>92%</div> <div>5% ..</div> </div> </div>

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3022 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.

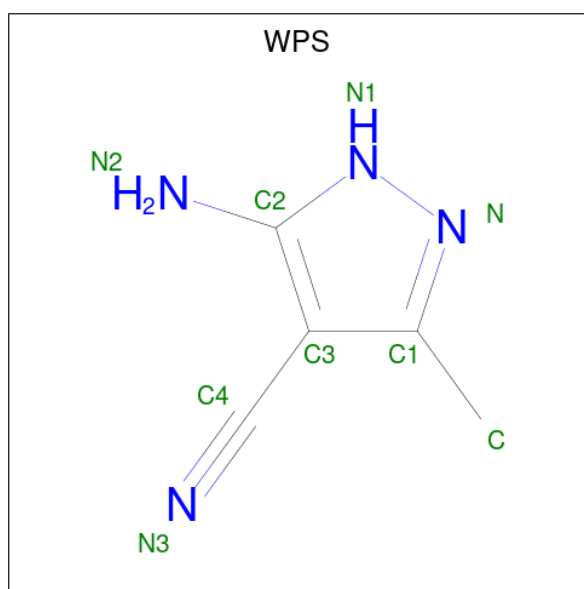
- Molecule 1 is a protein called YTH domain-containing protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	164	Total	C	N	O	S	0	2	0
			1293	833	227	227	6			
1	B	162	Total	C	N	O	S	0	4	0
			1284	827	224	227	6			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	344	GLY	-	expression tag	UNP Q96MU7
B	344	GLY	-	expression tag	UNP Q96MU7

- Molecule 2 is 5-amino-3-methyl-1H-pyrazole-4-carbonitrile (CCD ID: WPS) (formula: C<sub>5</sub>H<sub>6</sub>N<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	N	0	0
			9	5	4		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	N	0	0
			9	5	4		
2	A	1	Total	C	N	0	0
			9	5	4		
2	B	1	Total	C	N	0	0
			9	5	4		

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O<sub>4</sub>S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	1
			10	8	2		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		

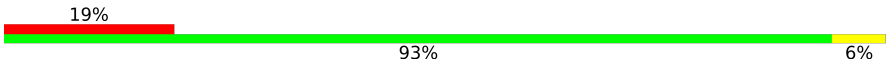
- Molecule 4 is water.

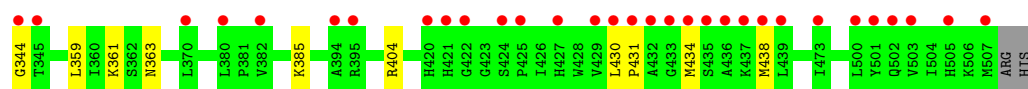
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	177	Total 177	O 177	0	0
4	B	187	Total 187	O 187	0	0

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

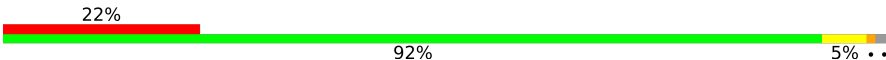
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

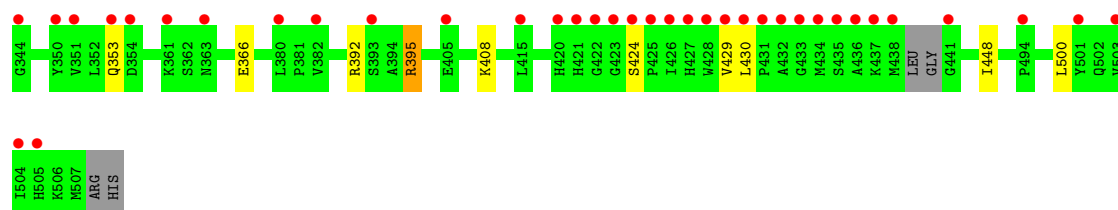
- Molecule 1: YTH domain-containing protein 1

Chain A: 



- Molecule 1: YTH domain-containing protein 1

Chain B: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	39.93Å 103.75Å 42.23Å 90.00° 104.84° 90.00°	Depositor
Resolution (Å)	40.82 – 1.21 40.82 – 1.21	Depositor EDS
% Data completeness (in resolution range)	96.8 (40.82-1.21) 97.2 (40.82-1.21)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.58 (at 1.21Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, $R_{free}$	0.199 , 0.219 0.199 , 0.219	Depositor DCC
$R_{free}$ test set	4924 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	18.2	Xtriage
Anisotropy	0.399	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.40 , 39.4	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	3022	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.35% 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: SO4, WPS

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	0.24	0/1332	0.46	0/1800
1	B	0.24	0/1328	0.46	0/1795
All	All	0.24	0/2660	0.46	0/3595

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 outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	395	ARG	Sidechain

### 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	1293	0	1296	8	0
1	B	1284	0	1276	7	0
2	A	27	0	0	0	0
2	B	9	0	0	0	0
3	A	20	0	0	1	0
3	B	25	0	0	0	0
4	A	177	0	0	1	1
4	B	187	0	0	4	1
All	All	3022	0	2572	15	1

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 3.

All (15) 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:392:ARG:NH2	4:B:701:HOH:O	2.27	0.67
1:A:385:LYS:NZ	4:A:703:HOH:O	2.32	0.61
1:A:363:ASN:OD1	1:A:404:ARG:NH1	2.35	0.59
1:B:353:GLN:HB3	1:B:395:ARG:NH2	2.24	0.52
1:A:430:LEU:HD22	1:A:434:MET:HE3	1.91	0.52
1:A:344:GLY:N	3:A:604[A]:SO4:O2	2.44	0.50
1:B:366[B]:GLU:HG3	4:B:837:HOH:O	2.13	0.49
1:B:448[B]:ILE:HG23	1:B:500:LEU:HD21	1.96	0.48
1:A:438:MET:HB3	1:A:438:MET:HE3	1.61	0.48
1:B:366[A]:GLU:CD	1:B:429:VAL:HG21	2.40	0.47
1:B:408:LYS:NZ	4:B:704:HOH:O	2.32	0.47
1:A:363:ASN:CG	1:A:431:PRO:HG3	2.40	0.46
1:A:431:PRO:HD2	1:A:434:MET:HE2	1.99	0.44
1:B:430:LEU:N	4:B:707:HOH:O	2.39	0.42
1:A:359:LEU:HD21	1:A:361:LYS:HE3	2.02	0.42

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:755:HOH:O	4:B:737:HOH:O[1_455]	2.09	0.11

## 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	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	B	162/166 (98%)	161 (99%)	1 (1%)	0	100	100
All	All	326/332 (98%)	323 (99%)	3 (1%)	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	140/145 (97%)	140 (100%)	0	100	100
1	B	139/145 (96%)	138 (99%)	1 (1%)	81	57
All	All	279/290 (96%)	278 (100%)	1 (0%)	89	73

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

Mol	Chain	Res	Type
1	B	424	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	420	HIS
1	B	421	HIS

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry ⓘ

13 ligands 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$
3	SO4	A	605	-	4,4,4	0.65	0	6,6,6	0.06	0
2	WPS	A	603	-	7,9,9	2.99	3 (42%)	3,12,12	1.45	1 (33%)
2	WPS	A	602	-	7,9,9	2.96	3 (42%)	3,12,12	1.91	1 (33%)
2	WPS	B	601	-	7,9,9	2.97	3 (42%)	3,12,12	1.53	1 (33%)
3	SO4	A	604[A]	-	4,4,4	0.66	0	6,6,6	0.20	0
3	SO4	A	606	-	4,4,4	0.67	0	6,6,6	0.06	0
3	SO4	B	603	-	4,4,4	0.60	0	6,6,6	0.27	0
3	SO4	B	606	-	4,4,4	0.63	0	6,6,6	0.23	0
3	SO4	B	605	-	4,4,4	0.65	0	6,6,6	0.05	0
3	SO4	A	604[B]	-	4,4,4	0.60	0	6,6,6	0.25	0
3	SO4	B	604	-	4,4,4	0.63	0	6,6,6	0.07	0
2	WPS	A	601	-	7,9,9	2.90	3 (42%)	3,12,12	1.40	1 (33%)
3	SO4	B	602	-	4,4,4	0.55	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
2	WPS	A	601	-	-	0/0/2/2	0/1/1/1
2	WPS	A	603	-	-	0/0/2/2	0/1/1/1
2	WPS	A	602	-	-	0/0/2/2	0/1/1/1
2	WPS	B	601	-	-	0/0/2/2	0/1/1/1

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	603	WPS	C3-C4	5.25	1.53	1.44
2	A	601	WPS	C3-C4	4.98	1.52	1.44
2	B	601	WPS	C3-C4	4.98	1.52	1.44
2	A	602	WPS	C3-C4	4.93	1.52	1.44
2	A	602	WPS	C2-N2	4.68	1.45	1.34
2	A	603	WPS	C2-N2	4.52	1.45	1.34
2	B	601	WPS	C2-N2	4.49	1.45	1.34
2	A	601	WPS	C2-N2	4.35	1.45	1.34
2	A	603	WPS	C2-C3	-3.43	1.37	1.42
2	B	601	WPS	C2-C3	-3.38	1.37	1.42
2	A	601	WPS	C2-C3	-3.31	1.37	1.42
2	A	602	WPS	C2-C3	-3.28	1.37	1.42

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	602	WPS	C-C1-N	2.78	125.75	119.65
2	B	601	WPS	C-C1-N	2.49	125.13	119.65
2	A	603	WPS	C-C1-N	2.40	124.93	119.65
2	A	601	WPS	C-C1-N	2.24	124.58	119.65

There are no chirality outliers.

There are no torsion outliers.

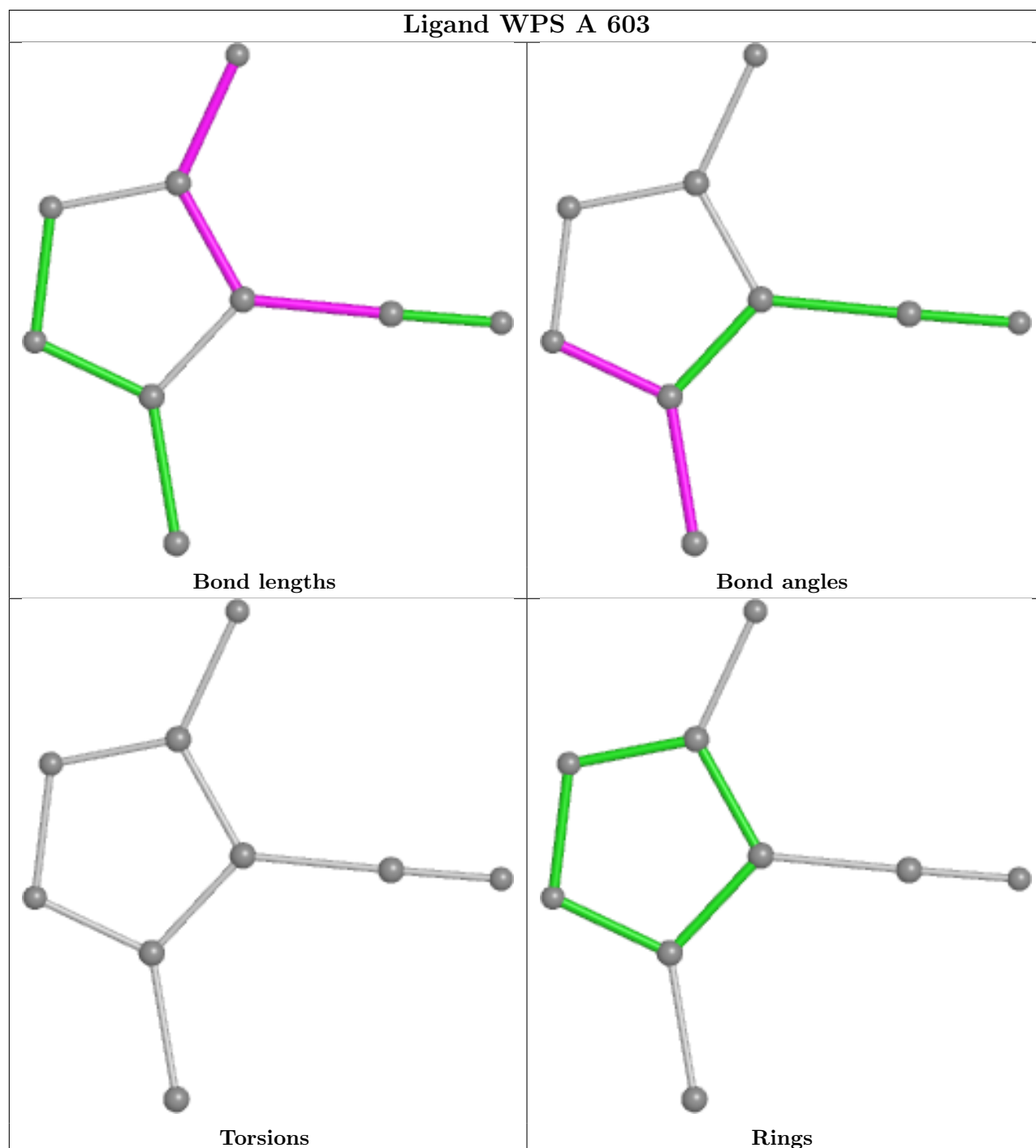
There are no ring outliers.

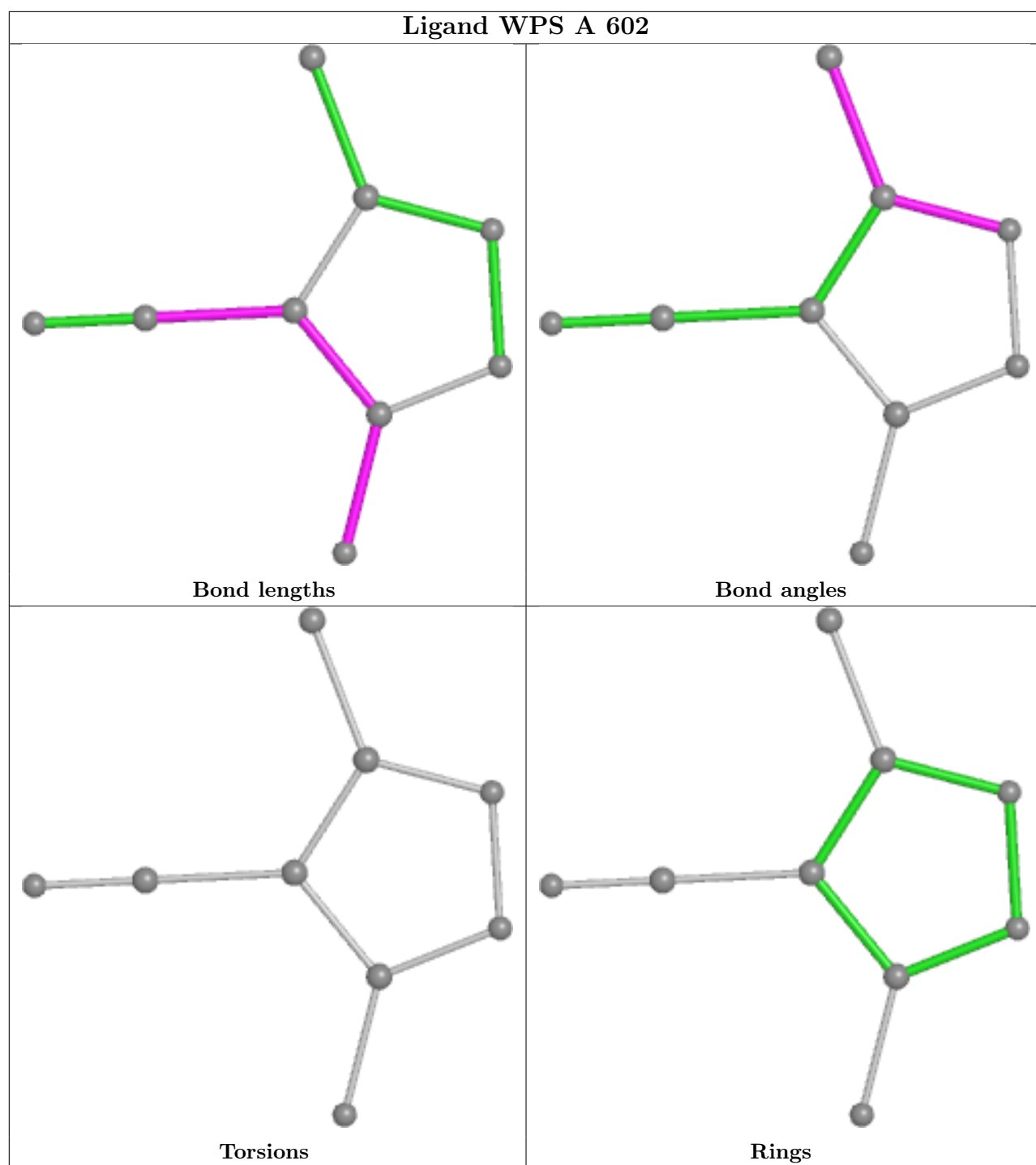
1 monomer is involved in 1 short contact:

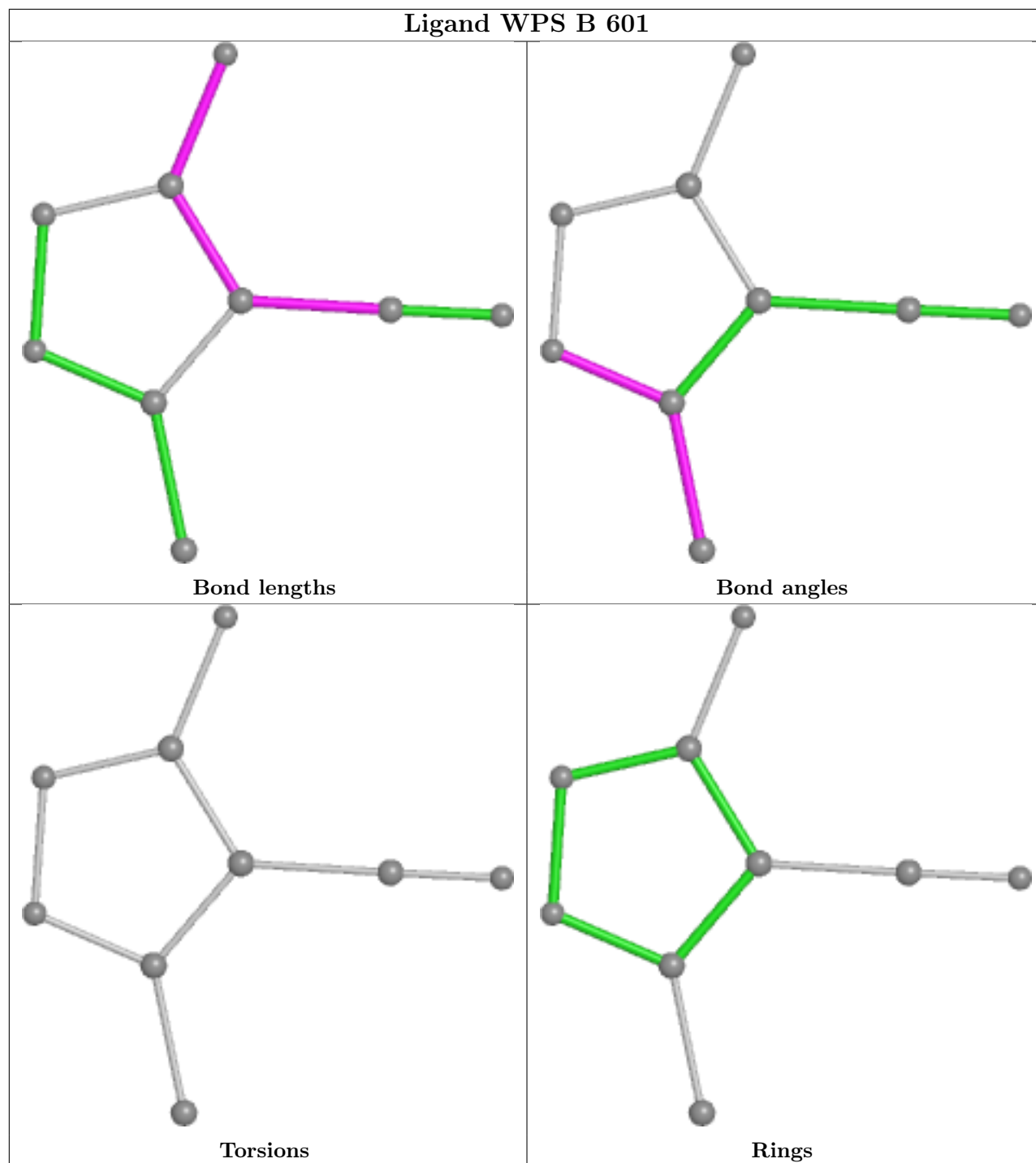
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	604[A]	SO4	1	0

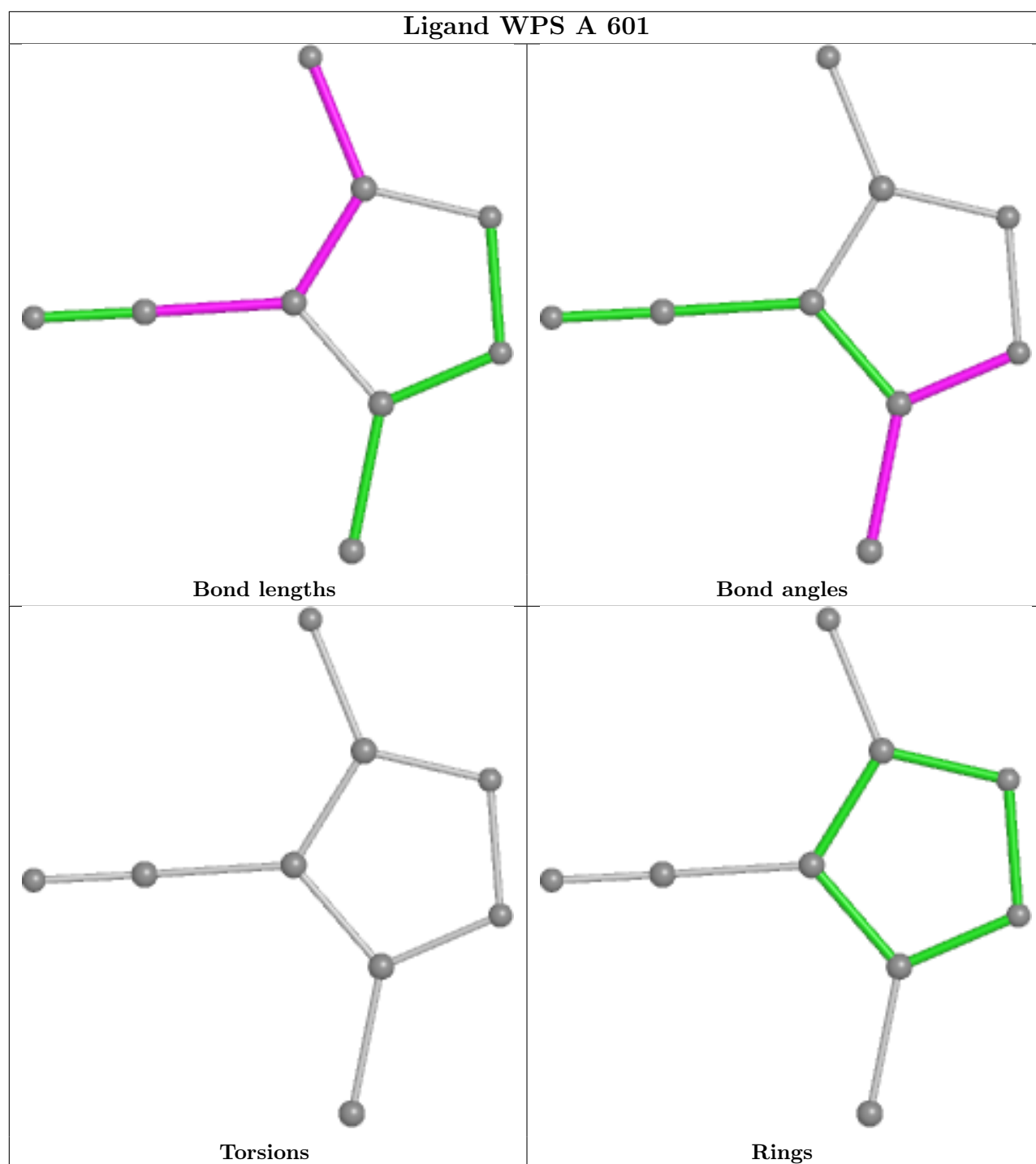
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

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 ⓘ

### 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<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	164/166 (98%)	1.16	31 (18%) 4 3	14, 22, 40, 60	2 (1%)
1	B	162/166 (97%)	1.23	37 (22%) 2 2	10, 22, 48, 62	4 (2%)
All	All	326/332 (98%)	1.19	68 (20%) 3 3	10, 22, 48, 62	6 (1%)

All (68) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	432	ALA	6.3
1	B	431	PRO	6.2
1	A	432	ALA	5.1
1	A	433	GLY	5.1
1	A	344	GLY	5.0
1	A	435	SER	4.9
1	B	430	LEU	4.8
1	B	344	GLY	4.7
1	A	439	LEU	4.5
1	B	438	MET	4.1
1	A	434	MET	3.8
1	B	435	SER	3.8
1	A	505	HIS	3.8
1	B	425	PRO	3.7
1	A	431	PRO	3.7
1	A	436	ALA	3.7
1	B	437	LYS	3.6
1	B	429	VAL	3.5
1	A	430	LEU	3.5
1	A	503	VAL	3.4
1	A	429	VAL	3.4
1	B	436	ALA	3.3
1	B	426	ILE	3.3
1	B	501	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	422	GLY	3.1
1	B	433	GLY	3.1
1	B	421	HIS	3.1
1	B	422	GLY	3.1
1	B	354	ASP	3.0
1	B	505	HIS	3.0
1	B	434	MET	3.0
1	B	393	SER	3.0
1	A	382	VAL	2.9
1	A	500	LEU	2.9
1	A	424	SER	2.8
1	A	502	GLN	2.8
1	B	494	PRO	2.8
1	B	428	TRP	2.7
1	A	425	PRO	2.7
1	B	504	ILE	2.6
1	B	405	GLU	2.6
1	B	382	VAL	2.6
1	A	507	MET	2.5
1	A	394	ALA	2.5
1	A	501	TYR	2.5
1	B	424	SER	2.4
1	A	437	LYS	2.4
1	A	427	HIS	2.4
1	B	351	VAL	2.4
1	A	380	LEU	2.4
1	B	420	HIS	2.4
1	B	503	VAL	2.3
1	B	350	TYR	2.3
1	A	345	THR	2.2
1	A	420	HIS	2.2
1	B	423	GLY	2.2
1	B	441	GLY	2.2
1	B	363	ASN	2.2
1	B	353	GLN	2.1
1	A	438	MET	2.1
1	A	473	ILE	2.1
1	B	380	LEU	2.1
1	B	427	HIS	2.1
1	A	395	ARG	2.0
1	A	421	HIS	2.0
1	B	361	LYS	2.0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	A	370	LEU	2.0
1	B	415	LEU	2.0

## 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](#)

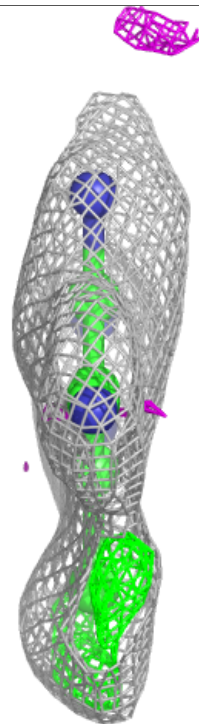
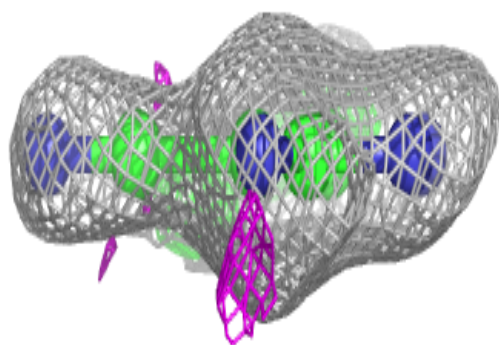
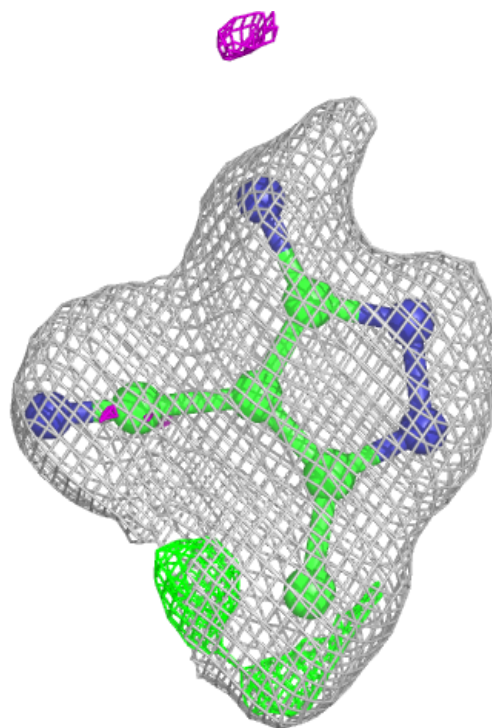
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	WPS	A	603	9/9	0.70	0.18	37,41,44,48	0
3	SO4	B	606	5/5	0.73	0.14	33,46,49,76	0
3	SO4	A	605	5/5	0.77	0.13	38,45,53,54	0
2	WPS	A	602	9/9	0.81	0.16	27,29,36,42	0
3	SO4	A	606	5/5	0.83	0.12	45,45,49,49	0
3	SO4	A	604[B]	5/5	0.84	0.18	22,26,30,31	5
3	SO4	A	604[A]	5/5	0.84	0.18	25,26,30,35	5
3	SO4	B	605	5/5	0.85	0.12	38,47,49,50	0
3	SO4	B	604	5/5	0.86	0.14	42,44,46,47	0
3	SO4	B	603	5/5	0.89	0.13	26,29,36,38	0
2	WPS	A	601	9/9	0.93	0.08	21,23,28,28	0
2	WPS	B	601	9/9	0.93	0.09	20,23,27,29	0
3	SO4	B	602	5/5	0.97	0.08	24,25,29,30	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.

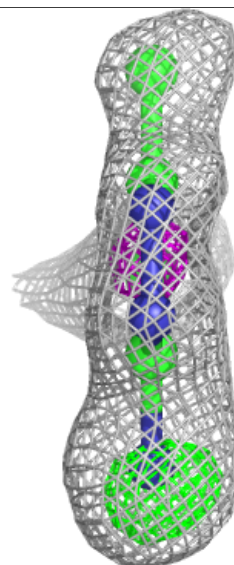
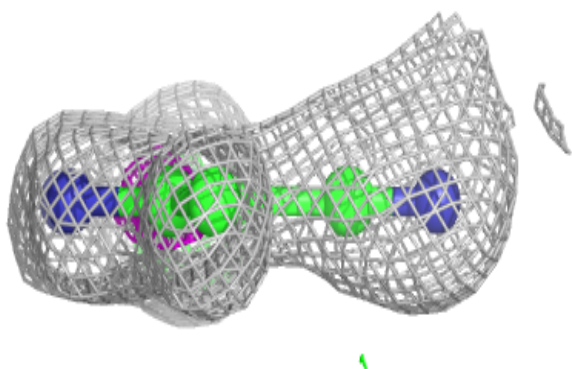
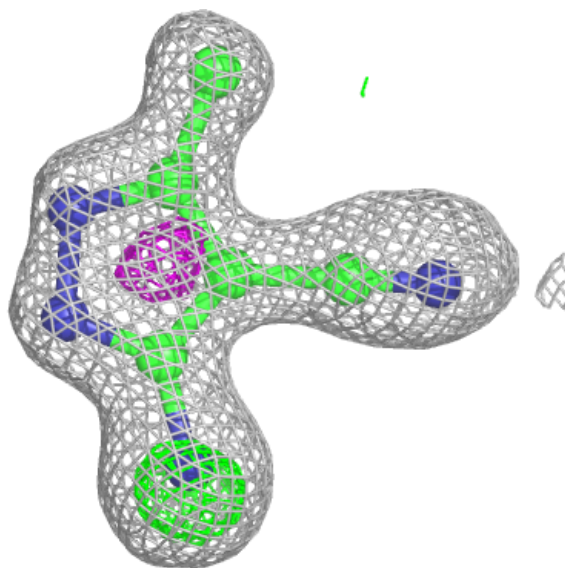
**Electron density around WPS A 603:**

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



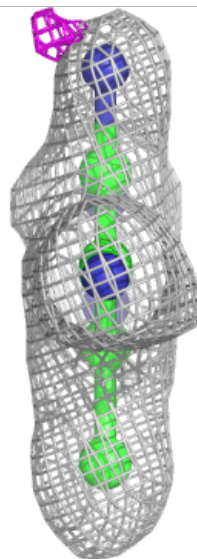
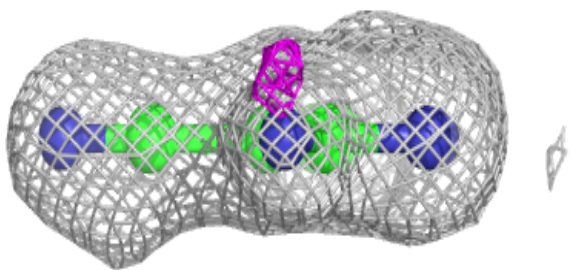
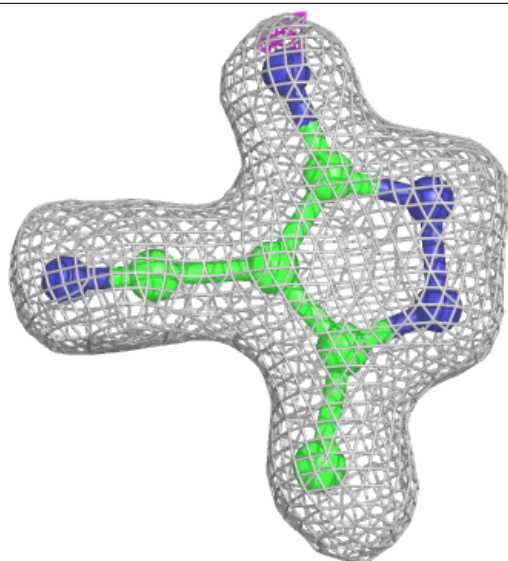
**Electron density around WPS A 602:**

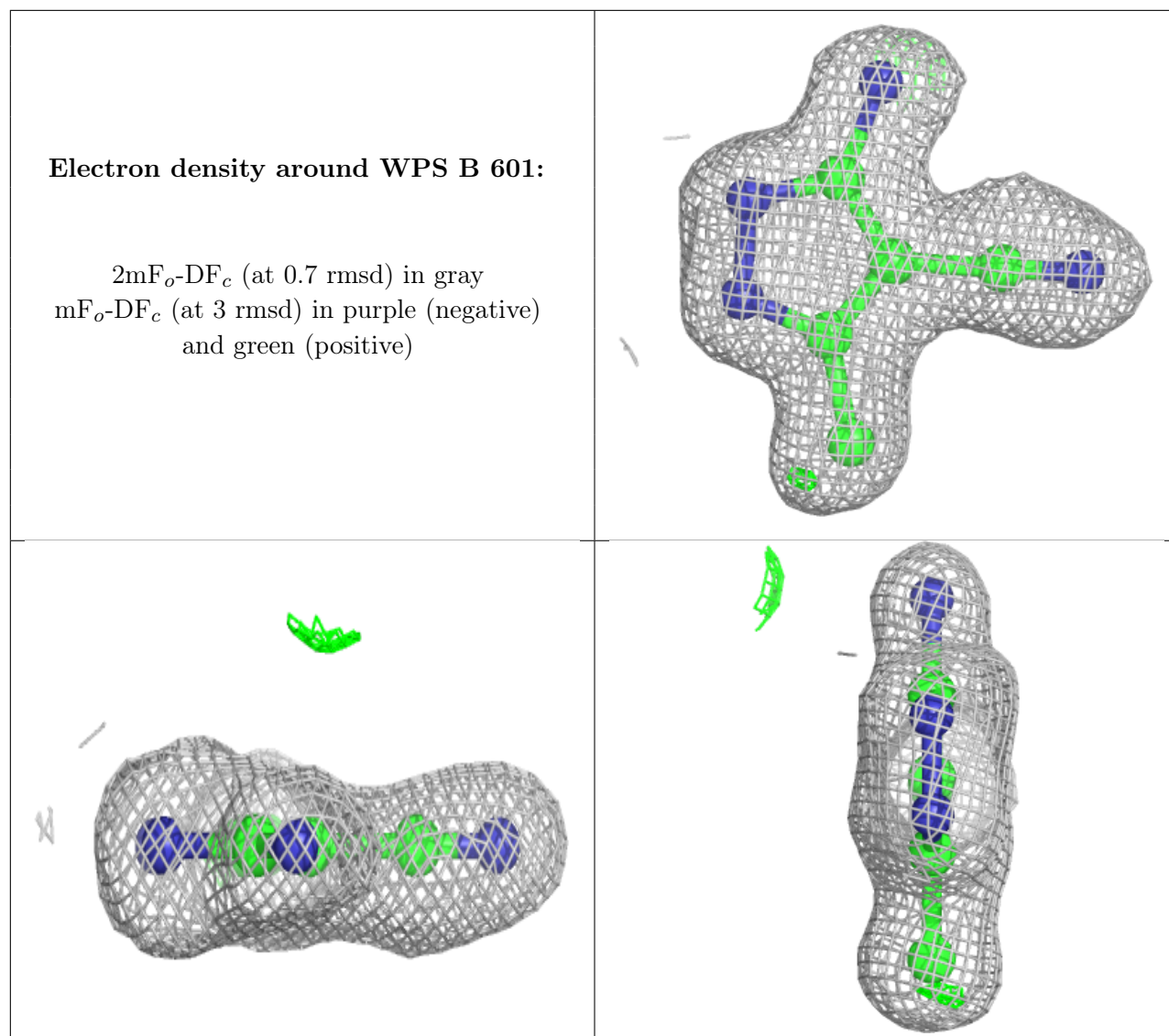
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around WPS A 601:**

$2mF_o-DF_c$  (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.