



# wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 23, 2024 – 02:15 AM EDT

PDB ID : 6S70  
Title : Crystal structure of CARM1 in complex with inhibitor UM251  
Authors : Gunnell, E.A.; Muhsen, U.; Dowden, J.; Dreveny, I.  
Deposited on : 2019-07-04  
Resolution : 2.30 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 2022.3.0, CSD as543be (2022)  
Xtrriage (Phenix) : 1.20.1  
EDS : 2.37.1  
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) : 2.37.1

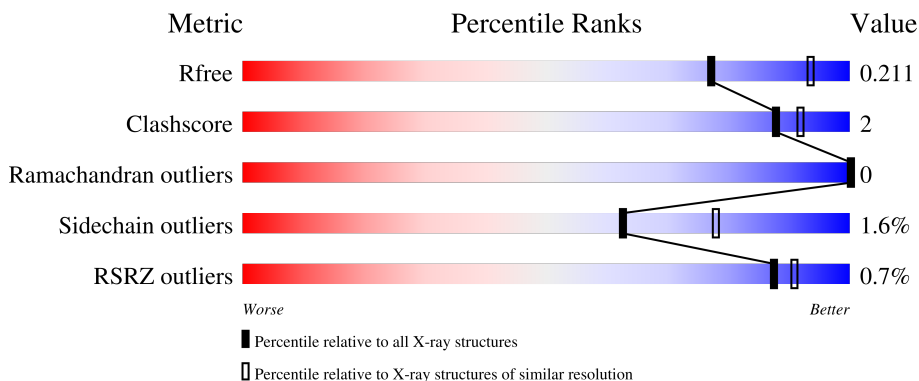
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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  $\geq 3$ , 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	351	 88% 9% . .
1	B	351	 91% 5% . .
1	C	351	 90% 7% .
1	D	351	 90% 7% . .

## 2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 11552 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 Histone-arginine methyltransferase CARM1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	342	2752	1780	453	505	14	0	1	0
1	B	342	2767	1786	460	507	14	0	3	0
1	C	342	2744	1772	453	505	14	0	0	0
1	D	342	2768	1786	460	507	15	0	3	0

There are 24 discrepancies between the modelled and reference sequences:

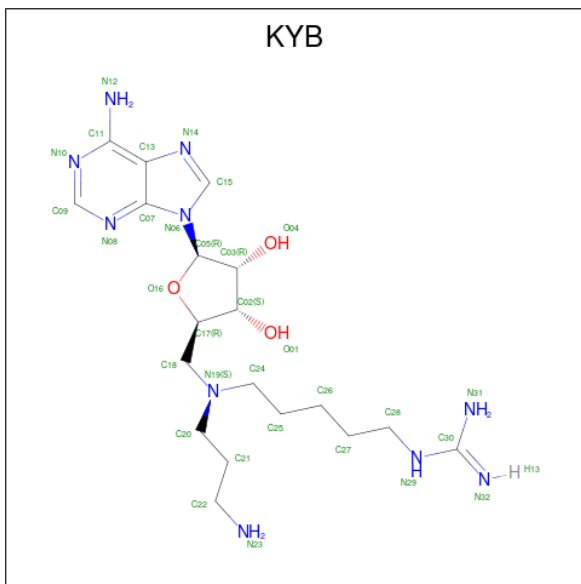
Chain	Residue	Modelled	Actual	Comment	Reference
A	480	HIS	-	expression tag	UNP Q86X55
A	481	HIS	-	expression tag	UNP Q86X55
A	482	HIS	-	expression tag	UNP Q86X55
A	483	HIS	-	expression tag	UNP Q86X55
A	484	HIS	-	expression tag	UNP Q86X55
A	485	HIS	-	expression tag	UNP Q86X55
B	480	HIS	-	expression tag	UNP Q86X55
B	481	HIS	-	expression tag	UNP Q86X55
B	482	HIS	-	expression tag	UNP Q86X55
B	483	HIS	-	expression tag	UNP Q86X55
B	484	HIS	-	expression tag	UNP Q86X55
B	485	HIS	-	expression tag	UNP Q86X55
C	480	HIS	-	expression tag	UNP Q86X55
C	481	HIS	-	expression tag	UNP Q86X55
C	482	HIS	-	expression tag	UNP Q86X55
C	483	HIS	-	expression tag	UNP Q86X55
C	484	HIS	-	expression tag	UNP Q86X55
C	485	HIS	-	expression tag	UNP Q86X55
D	480	HIS	-	expression tag	UNP Q86X55
D	481	HIS	-	expression tag	UNP Q86X55
D	482	HIS	-	expression tag	UNP Q86X55

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Chain	Residue	Modelled	Actual	Comment	Reference
D	483	HIS	-	expression tag	UNP Q86X55
D	484	HIS	-	expression tag	UNP Q86X55
D	485	HIS	-	expression tag	UNP Q86X55

- Molecule 2 is 1-[5-[[[(2 {R},3 {S},4 {R},5 {R})-5-(6-aminopurin-9-yl)-3,4-bis(oxidanyl)oxolan-2-yl]methyl-(3-azanylpropyl)amino]pentyl]guanidine (three-letter code: KYB) (formula: C<sub>19</sub>H<sub>34</sub>N<sub>10</sub>O<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	N			O
2	A	1	Total	C	N	O	0	0
			32	19	10	3		
2	B	1	Total	C	N	O	0	0
			32	19	10	3		
2	C	1	Total	C	N	O	0	0
			32	19	10	3		
2	D	1	Total	C	N	O	0	0
			32	19	10	3		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	C	1	Total C O 6 3 3	0	0
3	D	1	Total C O 6 3 3	0	0

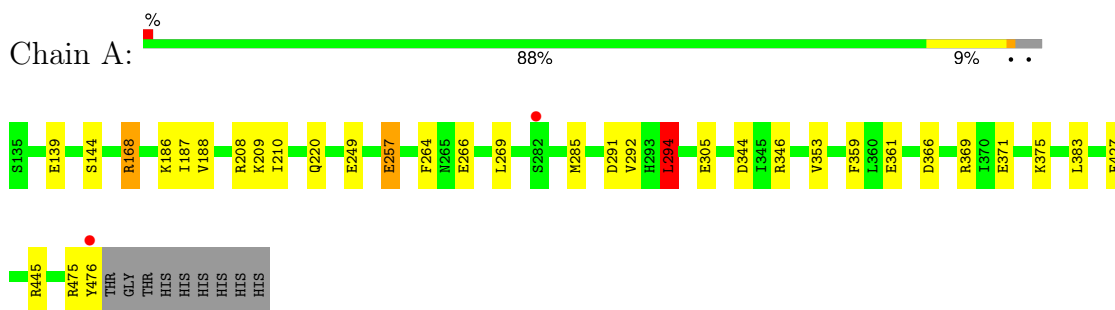
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	113	Total O 113 113	0	0
4	B	68	Total O 68 68	0	0
4	C	107	Total O 107 107	0	0
4	D	87	Total O 87 87	0	0

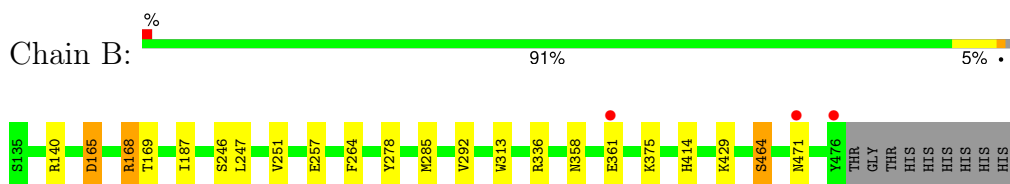
### 3 Residue-property plots

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.

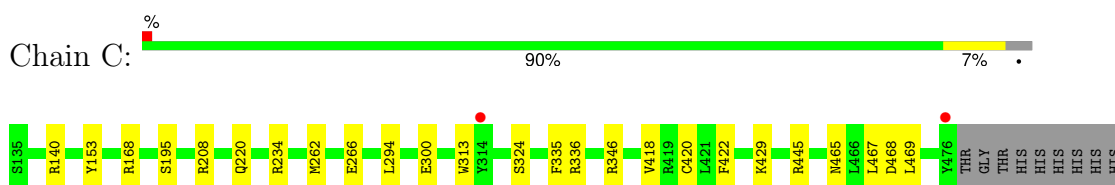
- Molecule 1: Histone-arginine methyltransferase CARM1



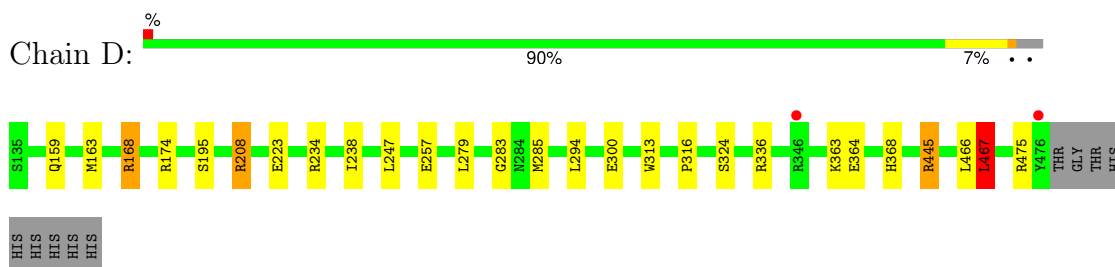
- Molecule 1: Histone-arginine methyltransferase CARM1



- Molecule 1: Histone-arginine methyltransferase CARM1



- Molecule 1: Histone-arginine methyltransferase CARM1



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	74.68Å 98.68Å 207.10Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	57.23 – 2.30 57.23 – 2.30	Depositor EDS
% Data completeness (in resolution range)	95.8 (57.23-2.30) 95.8 (57.23-2.30)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.49 (at 2.29Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.185 , 0.211 0.187 , 0.211	Depositor DCC
$R_{free}$ test set	3257 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	37.6	Xtrriage
Anisotropy	0.278	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 33.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	11552	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	41.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 32.10 % 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 9.9377e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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

### 5.1 Standard geometry

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

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	1.08	8/2826 (0.3%)	0.95	15/3829 (0.4%)
1	B	1.00	3/2844 (0.1%)	0.89	4/3853 (0.1%)
1	C	1.04	5/2814 (0.2%)	0.91	7/3813 (0.2%)
1	D	1.00	4/2842 (0.1%)	1.16	15/3850 (0.4%)
All	All	1.03	20/11326 (0.2%)	0.98	41/15345 (0.3%)

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

The worst 5 of 20 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	300	GLU	CG-CD	7.51	1.63	1.51
1	A	361	GLU	CD-OE2	7.14	1.33	1.25
1	C	140	ARG	CZ-NH1	6.95	1.42	1.33
1	A	371	GLU	CD-OE1	-6.50	1.18	1.25
1	A	266	GLU	CD-OE2	6.38	1.32	1.25

The worst 5 of 41 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	168[A]	ARG	NE-CZ-NH1	-22.14	109.23	120.30
1	D	168[B]	ARG	NE-CZ-NH1	-22.14	109.23	120.30
1	D	168[A]	ARG	NE-CZ-NH2	21.07	130.84	120.30
1	D	168[B]	ARG	NE-CZ-NH2	21.07	130.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	234	ARG	NE-CZ-NH2	-10.06	115.27	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	464	SER	Peptide

## 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	2752	0	2701	9	0
1	B	2767	0	2715	12	0
1	C	2744	0	2692	15	0
1	D	2768	0	2715	10	0
2	A	32	0	0	0	0
2	B	32	0	0	0	0
2	C	32	0	0	0	0
2	D	32	0	0	0	0
3	A	6	0	8	0	0
3	C	6	0	8	0	0
3	D	6	0	8	0	0
4	A	113	0	0	1	0
4	B	68	0	0	0	0
4	C	107	0	0	1	0
4	D	87	0	0	1	0
All	All	11552	0	10847	43	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.

The worst 5 of 43 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:C:420:CYS:SG	1:C:467:LEU:HD12	2.22	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:336:ARG:HA	1:C:467:LEU:HD23	1.66	0.77
1:B:165:ASP:OD2	1:B:414[B]:HIS:ND1	2.19	0.76
1:C:420:CYS:SG	1:C:467:LEU:CD1	2.78	0.71
1:B:168[A]:ARG:NE	1:B:257:GLU:OE1	2.25	0.70

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	341/351 (97%)	331 (97%)	10 (3%)	0	100	100
1	B	343/351 (98%)	334 (97%)	9 (3%)	0	100	100
1	C	340/351 (97%)	331 (97%)	9 (3%)	0	100	100
1	D	343/351 (98%)	333 (97%)	10 (3%)	0	100	100
All	All	1367/1404 (97%)	1329 (97%)	38 (3%)	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	299/306 (98%)	295 (99%)	4 (1%)	69	82
1	B	301/306 (98%)	297 (99%)	4 (1%)	69	82

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	298/306 (97%)	294 (99%)	4 (1%)	69	82
1	D	301/306 (98%)	294 (98%)	7 (2%)	50	67
All	All	1199/1224 (98%)	1180 (98%)	19 (2%)	62	78

5 of 19 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	316	PRO
1	D	445	ARG
1	D	467	LEU
1	D	368	HIS
1	C	220	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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](#)

7 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
2	KYB	C	501	-	30,34,34	3.32	11 (36%)	30,46,46	1.95	10 (33%)
2	KYB	A	501	-	30,34,34	3.25	8 (26%)	30,46,46	1.70	5 (16%)
2	KYB	D	501	-	30,34,34	3.65	10 (33%)	30,46,46	1.80	7 (23%)
3	GOL	C	502	-	5,5,5	0.45	0	5,5,5	0.31	0
3	GOL	D	502	-	5,5,5	0.28	0	5,5,5	0.39	0
2	KYB	B	501	-	30,34,34	3.64	11 (36%)	30,46,46	2.98	11 (36%)
3	GOL	A	502	-	5,5,5	0.36	0	5,5,5	0.41	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	KYB	C	501	-	-	8/17/37/37	0/3/3/3
2	KYB	A	501	-	-	9/17/37/37	0/3/3/3
2	KYB	D	501	-	-	7/17/37/37	0/3/3/3
3	GOL	C	502	-	-	4/4/4/4	-
3	GOL	D	502	-	-	0/4/4/4	-
2	KYB	B	501	-	-	6/17/37/37	0/3/3/3
3	GOL	A	502	-	-	3/4/4/4	-

The worst 5 of 40 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	501	KYB	O16-C05	12.30	1.57	1.40
2	D	501	KYB	O16-C05	12.02	1.56	1.40
2	A	501	KYB	O16-C05	10.11	1.54	1.40
2	C	501	KYB	O16-C05	9.52	1.53	1.40
2	D	501	KYB	C05-N06	-8.00	1.30	1.49

The worst 5 of 33 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	501	KYB	C17-O16-C05	-11.78	99.14	109.92
2	C	501	KYB	N08-C09-N10	-5.68	120.97	128.67
2	B	501	KYB	O16-C17-C18	5.61	118.06	108.88
2	D	501	KYB	N08-C09-N10	-5.25	121.54	128.67
2	A	501	KYB	N08-C09-N10	-4.78	122.19	128.67

There are no chirality outliers.

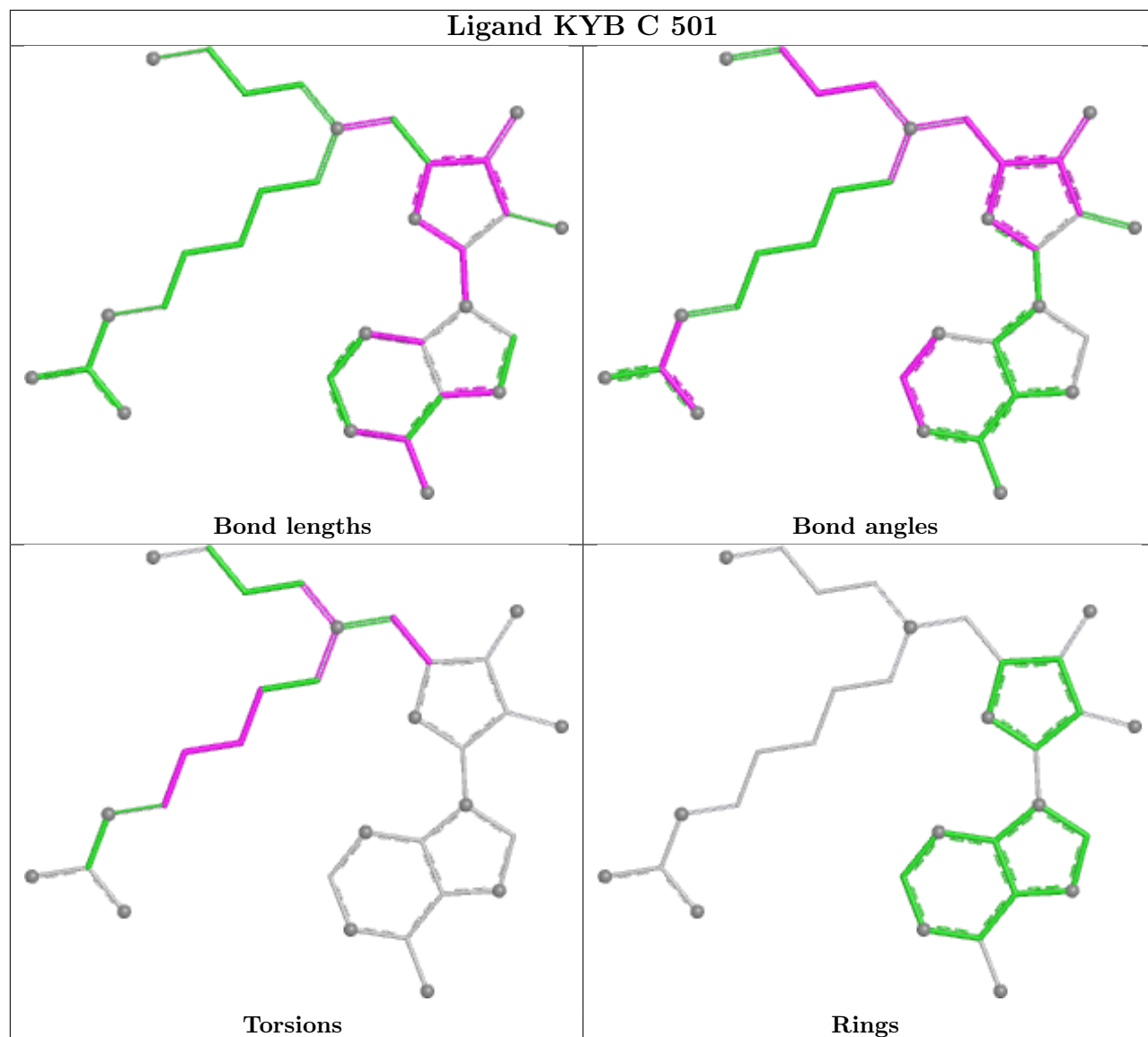
5 of 37 torsion outliers are listed below:

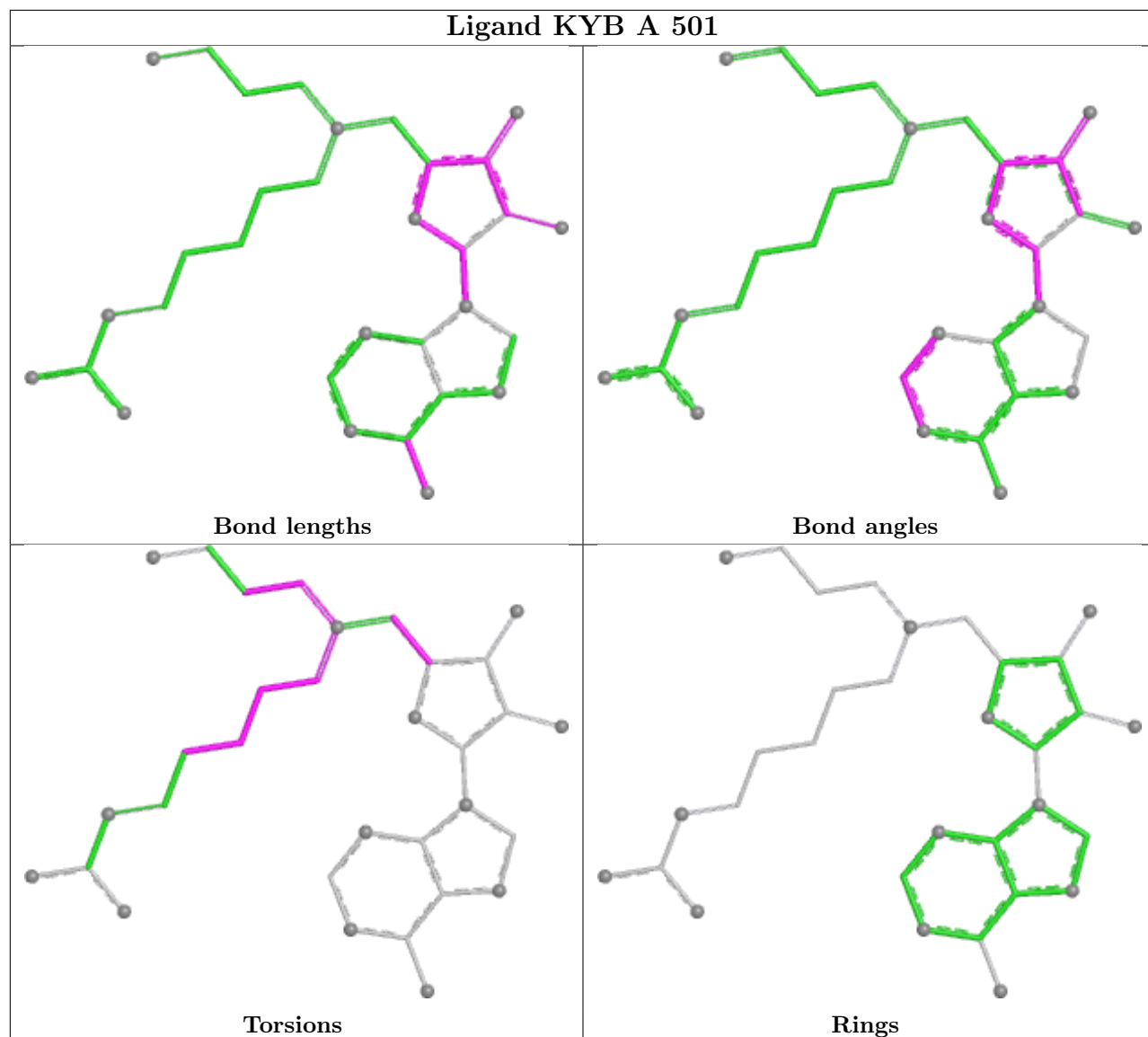
Mol	Chain	Res	Type	Atoms
2	B	501	KYB	C02-C17-C18-N19
2	C	501	KYB	C02-C17-C18-N19
2	C	501	KYB	O16-C17-C18-N19
2	D	501	KYB	C27-C28-N29-C30
3	C	502	GOL	C1-C2-C3-O3

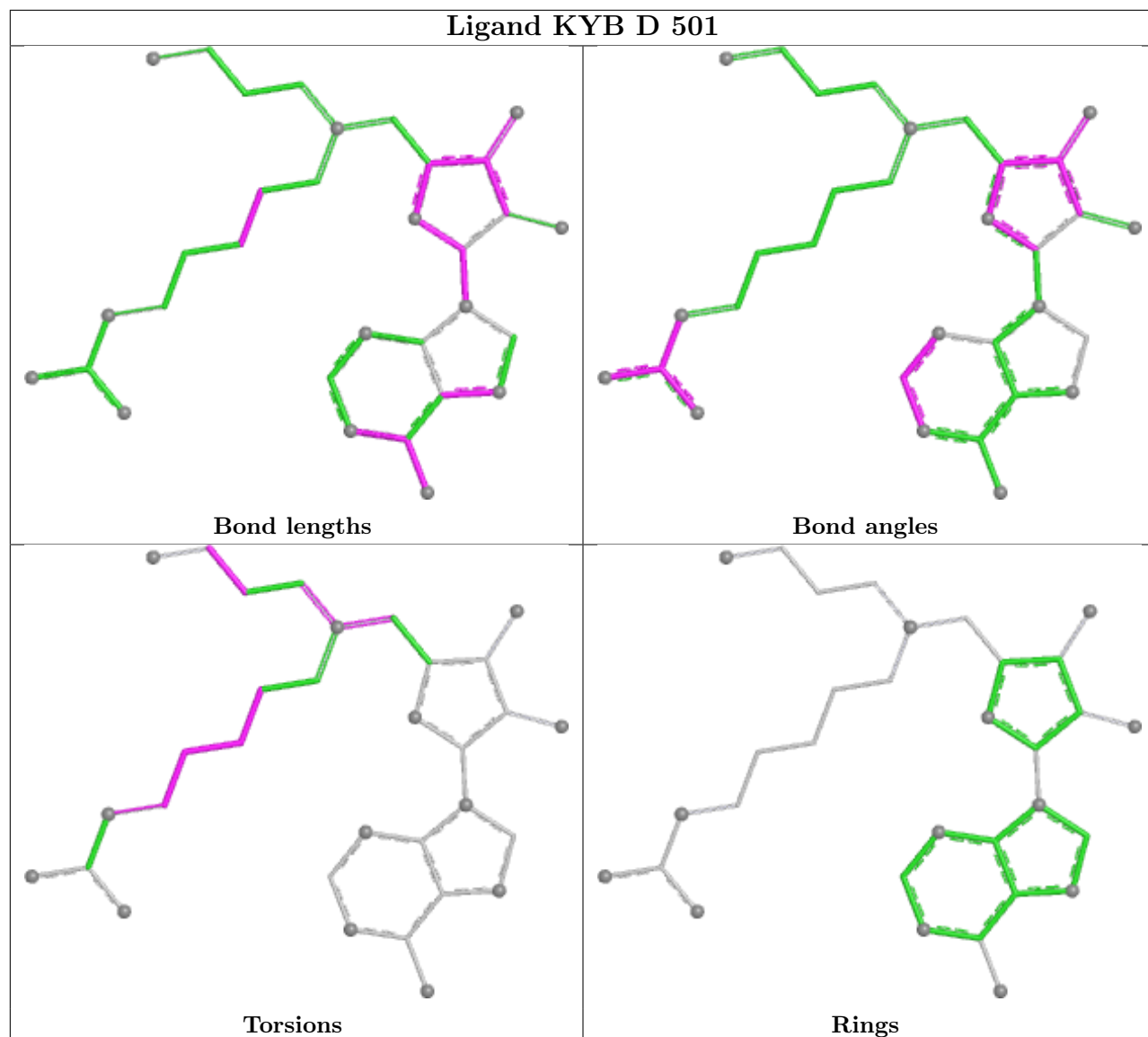
There are no ring outliers.

No monomer is involved in short contacts.

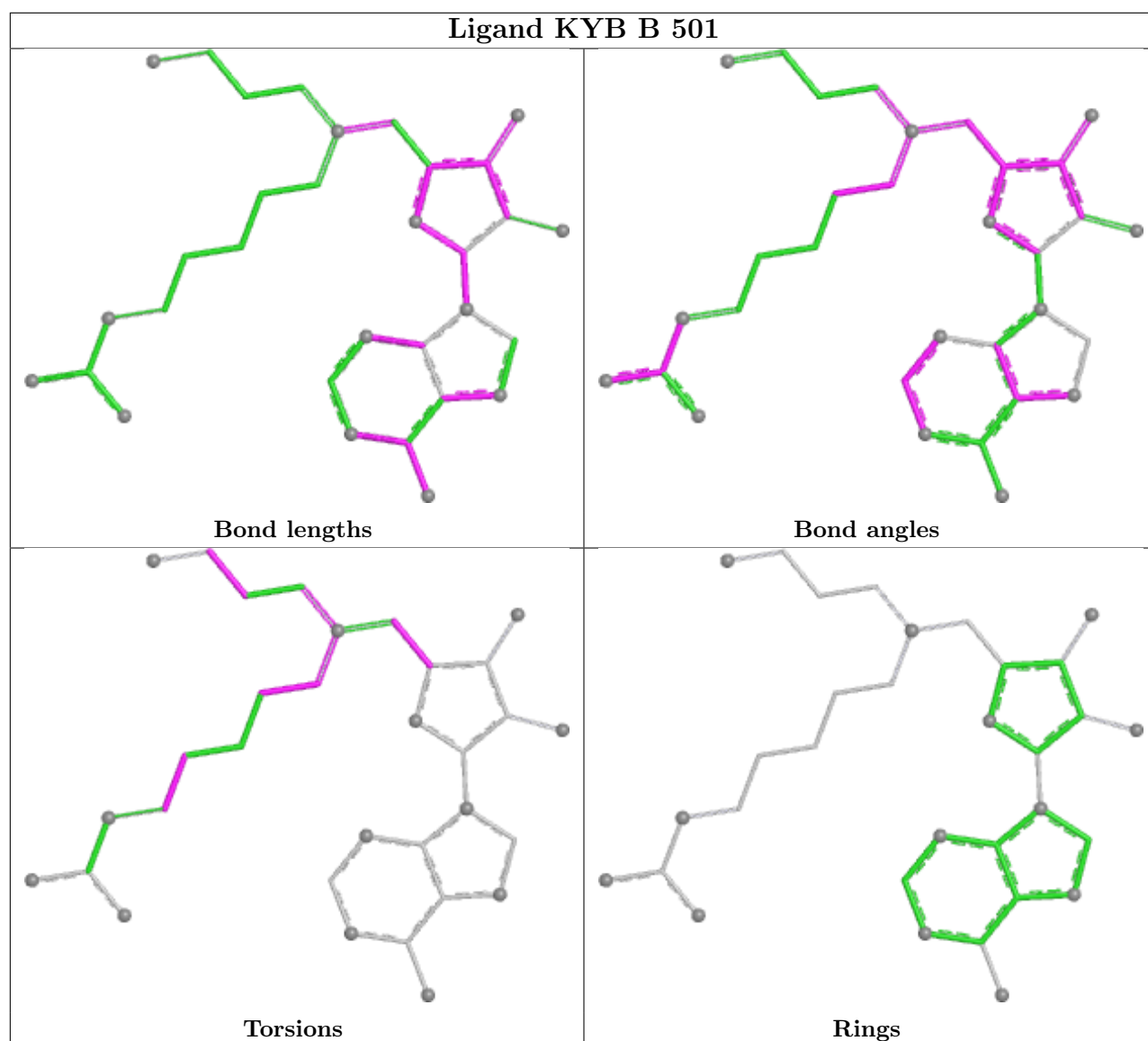
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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	342/351 (97%)	-0.40	2 (0%) 89 92	20, 33, 50, 65	0
1	B	342/351 (97%)	-0.32	3 (0%) 84 88	30, 44, 65, 82	0
1	C	342/351 (97%)	-0.35	2 (0%) 89 92	21, 37, 57, 69	0
1	D	342/351 (97%)	-0.29	2 (0%) 89 92	31, 44, 63, 98	0
All	All	1368/1404 (97%)	-0.34	9 (0%) 87 91	20, 40, 61, 98	0

The worst 5 of 9 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	476	TYR	3.4
1	A	282	SER	3.1
1	D	476	TYR	2.7
1	C	314	TYR	2.5
1	A	476	TYR	2.2

### 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](#)

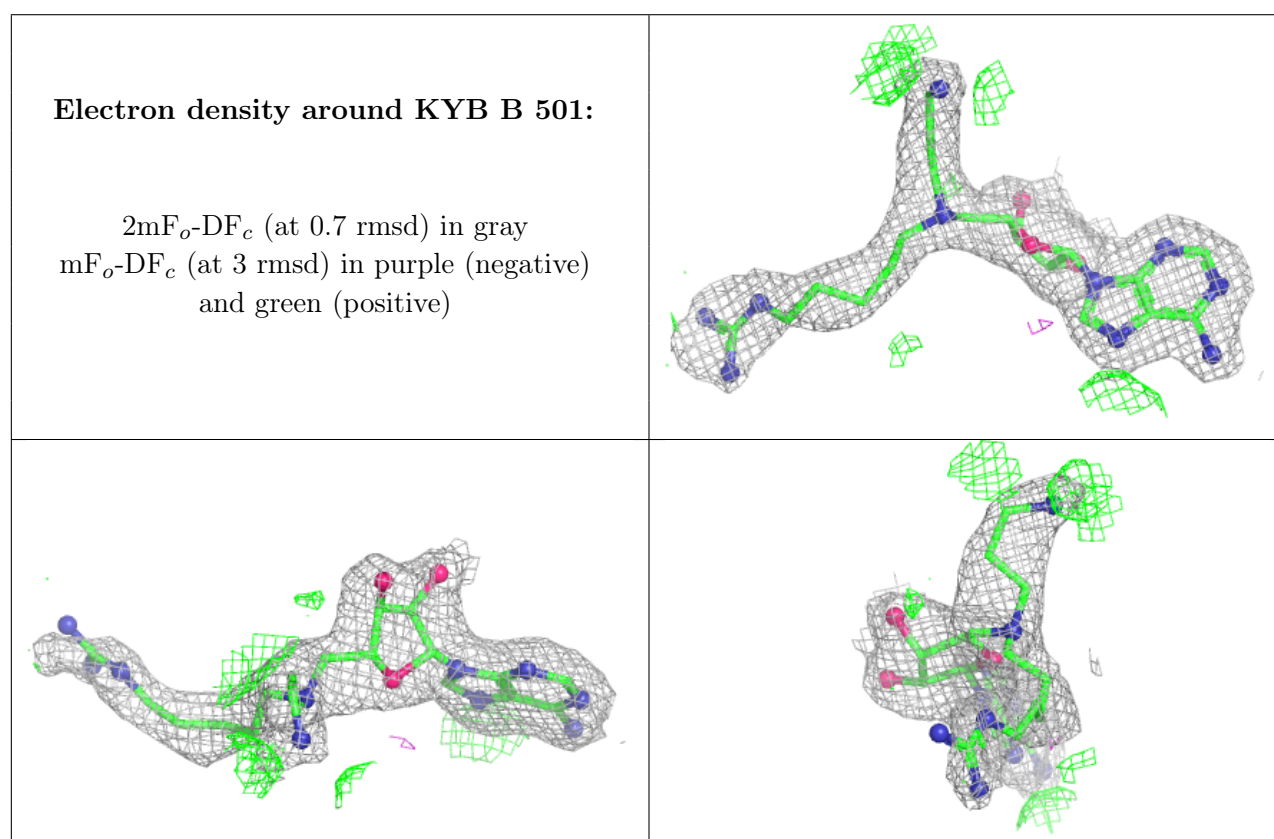
There are no monosaccharides in this entry.

### 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.

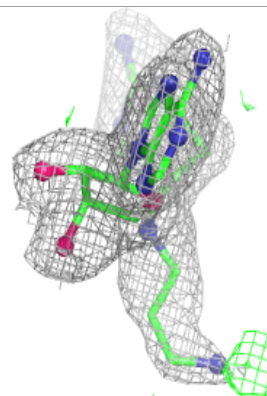
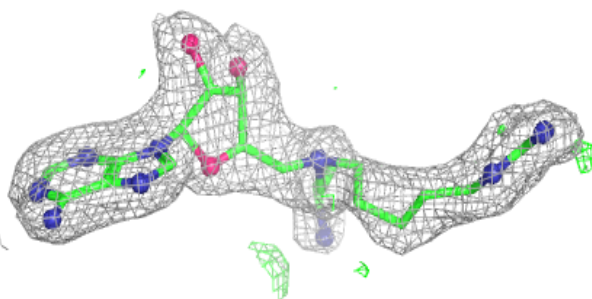
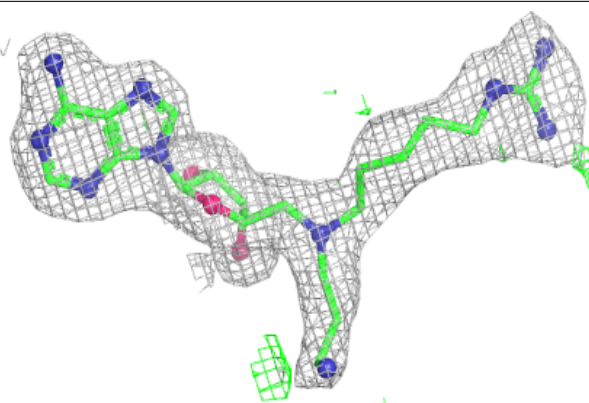
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
3	GOL	D	502	6/6	0.81	0.20	74,78,86,90	0
3	GOL	A	502	6/6	0.85	0.15	56,61,65,67	0
3	GOL	C	502	6/6	0.88	0.15	54,60,72,83	0
2	KYB	B	501	32/32	0.93	0.12	37,51,84,92	0
2	KYB	A	501	32/32	0.94	0.12	30,38,72,77	0
2	KYB	C	501	32/32	0.94	0.12	27,41,71,73	0
2	KYB	D	501	32/32	0.94	0.12	35,46,71,75	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.

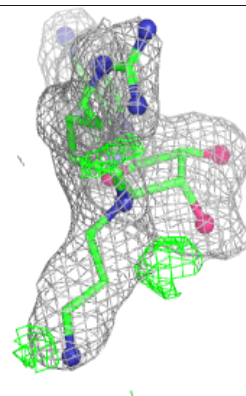
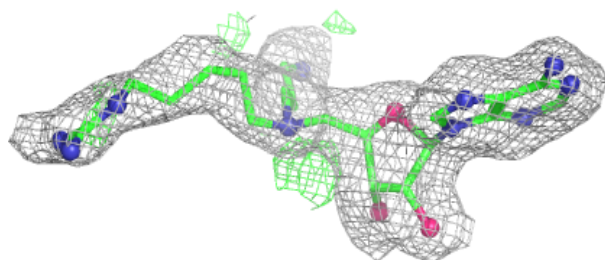
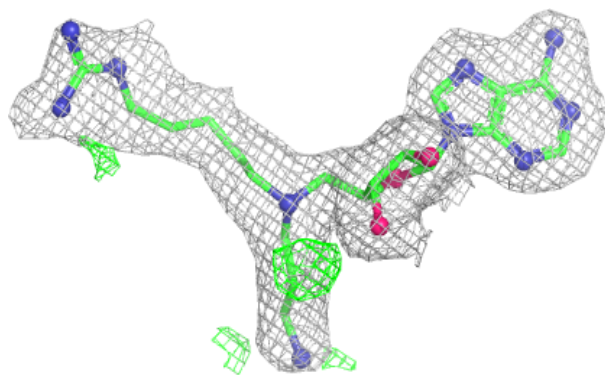


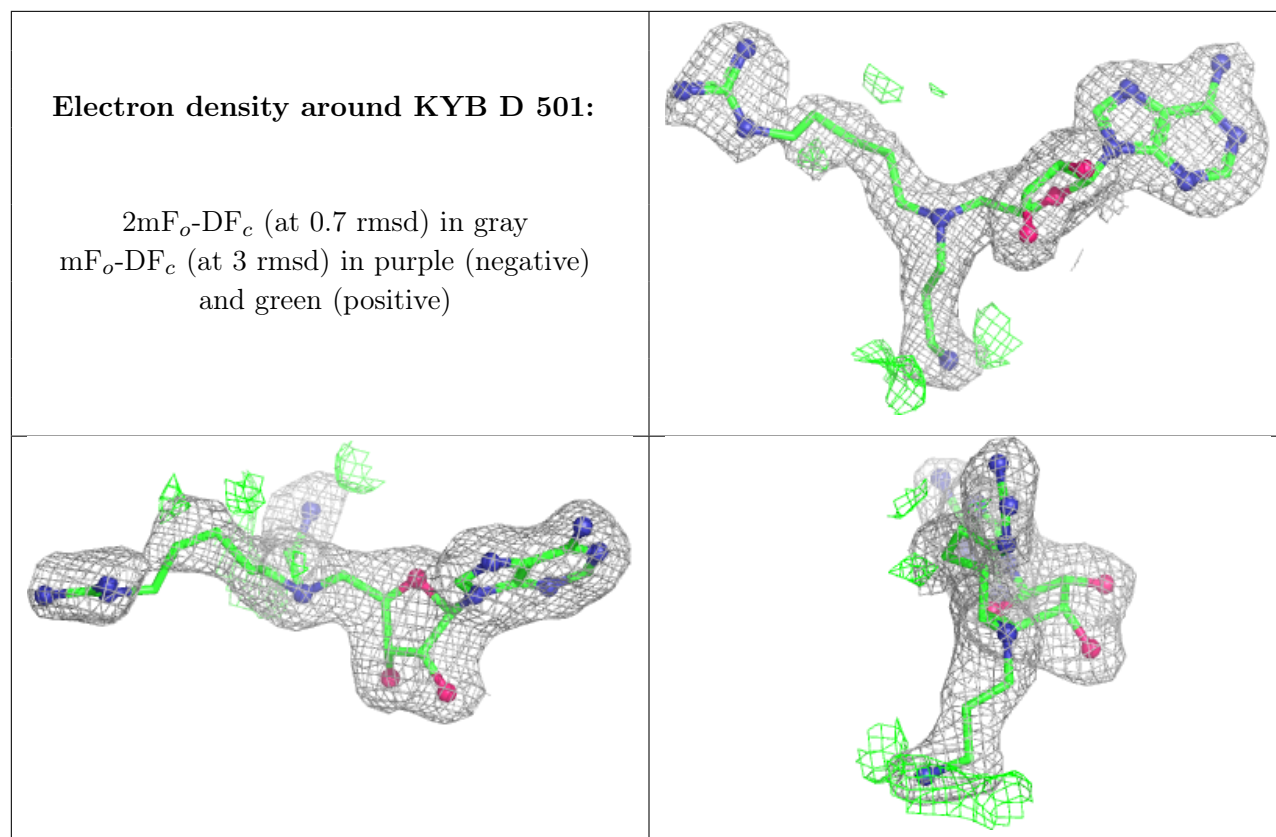
**Electron density around KYB A 501:**

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

**Electron density around KYB C 501:**

$2mF_o-DF_c$  (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.