



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 10:43 AM UTC

PDB ID : 8D5R / pdb_00008d5r
Title : Structure of Y430F D-ornithine/D-lysine decarboxylase complex with D-ornithine
Authors : Phillips, R.S.; Nguyen Hoang, K.N.
Deposited on : 2022-06-06
Resolution : 1.44 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

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 : 4-5-2 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

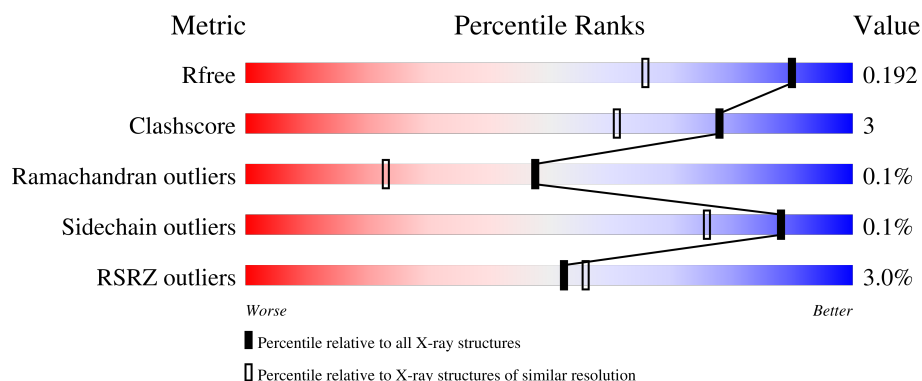
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.44 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	3234 (1.46-1.42)
Clashscore	190562	3289 (1.46-1.42)
Ramachandran outliers	187476	3248 (1.46-1.42)
Sidechain outliers	187428	3248 (1.46-1.42)
RSRZ outliers	180081	3234 (1.46-1.42)

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 $\leq 5\%$. 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	477	3% 90% 6% .
1	B	477	3% 88% 8% .

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 8900 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 D-ornithine/D-lysine decarboxylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	461	Total	C	N	O	S	0	46	0
			3974	2520	681	748	25			
1	B	459	Total	C	N	O	S	0	44	0
			3951	2500	684	742	25			

There are 26 discrepancies between the modelled and reference sequences:

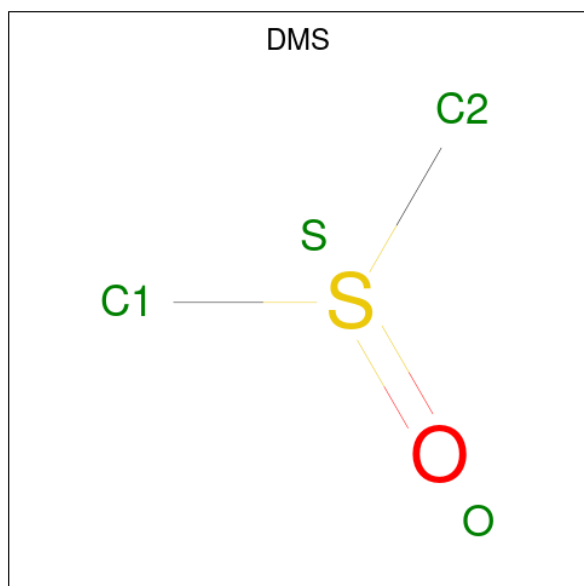
Chain	Residue	Modelled	Actual	Comment	Reference
A	430	PHE	TYR	engineered mutation	UNP Q8ZNC4
A	466	LEU	-	expression tag	UNP Q8ZNC4
A	467	ALA	-	expression tag	UNP Q8ZNC4
A	468	ALA	-	expression tag	UNP Q8ZNC4
A	469	ALA	-	expression tag	UNP Q8ZNC4
A	470	LEU	-	expression tag	UNP Q8ZNC4
A	471	GLU	-	expression tag	UNP Q8ZNC4
A	472	HIS	-	expression tag	UNP Q8ZNC4
A	473	HIS	-	expression tag	UNP Q8ZNC4
A	474	HIS	-	expression tag	UNP Q8ZNC4
A	475	HIS	-	expression tag	UNP Q8ZNC4
A	476	HIS	-	expression tag	UNP Q8ZNC4
A	477	HIS	-	expression tag	UNP Q8ZNC4
B	430	PHE	TYR	engineered mutation	UNP Q8ZNC4
B	466	LEU	-	expression tag	UNP Q8ZNC4
B	467	ALA	-	expression tag	UNP Q8ZNC4
B	468	ALA	-	expression tag	UNP Q8ZNC4
B	469	ALA	-	expression tag	UNP Q8ZNC4
B	470	LEU	-	expression tag	UNP Q8ZNC4
B	471	GLU	-	expression tag	UNP Q8ZNC4
B	472	HIS	-	expression tag	UNP Q8ZNC4
B	473	HIS	-	expression tag	UNP Q8ZNC4
B	474	HIS	-	expression tag	UNP Q8ZNC4
B	475	HIS	-	expression tag	UNP Q8ZNC4
B	476	HIS	-	expression tag	UNP Q8ZNC4

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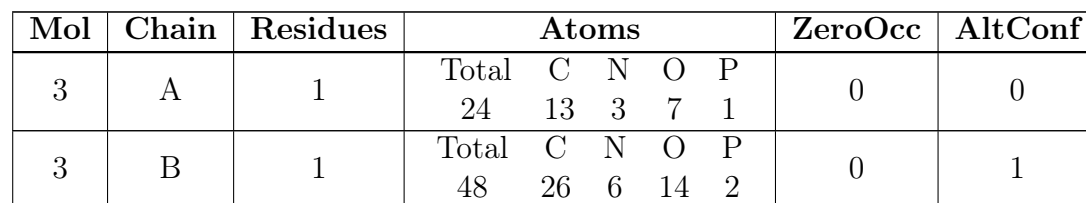
Chain	Residue	Modelled	Actual	Comment	Reference
B	477	HIS	-	expression tag	UNP Q8ZNC4

- Molecule 2 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C_2H_6OS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	O	S	0	0
			4	2	1	1		
2	A	1	Total	C	O	S	0	0
			4	2	1	1		
2	B	1	Total	C	O	S	0	0
			4	2	1	1		
2	B	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 3 is N 2 -({3-HYDROXY-2-METHYL-5-[(PHOSPHONOOXY)METHYL]PYRIDIN-4-YL}METHYL)-D-ORNITHINE (CCD ID: ORX) (formula: $C_{13}H_{22}N_3O_7P$) (labeled as "Ligand of Interest" by depositor).



- ACT
-
- CH₃ C O⁻ O

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 4 2 2	0	0
4	B	1	Total C O 4 2 2	0	0

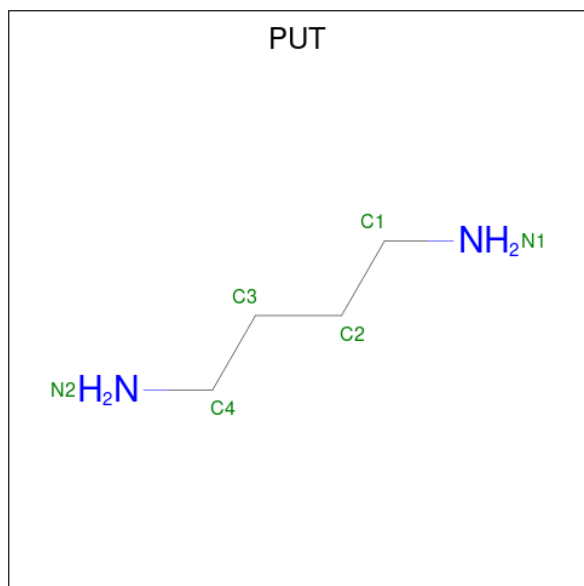
- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Na	0	0
			1	1		
5	B	2	Total	Na	0	0
			2	2		

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

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

- Molecule 7 is 1,4-DIAMINOBUTANE (CCD ID: PUT) (formula: C₄H₁₂N₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	C	N	0	0
			6	4	2		

- Molecule 8 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	421	Total	O	0	42
			421	421		
9	B	443	Total	O	0	31
			443	443		

4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	141.53Å 50.20Å 140.28Å 90.00° 116.00° 90.00°	Depositor
Resolution (Å)	37.34 – 1.44 37.34 – 1.44	Depositor EDS
% Data completeness (in resolution range)	99.9 (37.34-1.44) 99.8 (37.34-1.44)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 1.44Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.165 , 0.190 0.165 , 0.192	Depositor DCC
R_{free} test set	2003 reflections (1.25%)	wwPDB-VP
Wilson B-factor (Å ²)	20.4	Xtriage
Anisotropy	0.448	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 45.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	8900	wwPDB-VP
Average B, all atoms (Å ²)	33.0	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 47.73 % 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 9.5150e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical 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: EDO, ACT, ORX, PUT, CL, DMS, NA

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	0.41	0/4113	0.59	0/5560
1	B	0.47	0/4089	0.61	0/5522
All	All	0.44	0/8202	0.60	0/11082

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	328[A]	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	3974	0	3905	22	0
1	B	3951	0	3883	26	0
2	A	8	0	12	1	0
2	B	8	0	12	0	0
3	A	24	0	18	0	0
3	B	48	0	37	2	0
4	A	4	0	3	0	0
4	B	4	0	3	0	0
5	A	1	0	0	0	0
5	B	2	0	0	0	0
6	A	1	0	0	0	0
6	B	1	0	0	0	0
7	B	6	0	12	0	0
8	B	4	0	6	0	0
9	A	421	0	0	4	0
9	B	443	0	0	5	0
All	All	8900	0	7891	44	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 3.

The worst 5 of 44 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:387[B]:CYS:SG	1:B:388[B]:ASP:N	2.65	0.69
1:A:71[A]:LYS:NZ	9:A:606:HOH:O	2.31	0.64
1:A:120[A]:VAL:HG12	1:A:141:LEU:HB2	1.81	0.61
1:B:326[B]:GLU:OE1	9:B:601[B]:HOH:O	2.18	0.56
3:B:503[B]:ORX:NA	3:B:503[B]:ORX:O3	2.38	0.56

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	503/477 (106%)	489 (97%)	14 (3%)	0	100	100
1	B	499/477 (105%)	488 (98%)	9 (2%)	2 (0%)	30	11
All	All	1002/954 (105%)	977 (98%)	23 (2%)	2 (0%)	48	22

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	19[A]	GLY
1	B	19[B]	GLY

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	435/406 (107%)	435 (100%)	0	100	100
1	B	431/406 (106%)	429 (100%)	2 (0%)	81	63
All	All	866/812 (107%)	864 (100%)	2 (0%)	88	76

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	149[A]	GLU
1	B	149[B]	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 8 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	337	ASN
1	B	187	HIS
1	B	61	HIS
1	A	152	HIS
1	B	152	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 ⓘ

Of 16 ligands modelled in this entry, 5 are monoatomic - leaving 11 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	ORX	A	502	1	24,24,24	1.92	6 (25%)	29,33,33	1.20	3 (10%)
8	EDO	B	505	-	3,3,3	0.37	0	2,2,2	0.58	0
2	DMS	A	501	-	3,3,3	0.62	0	3,3,3	0.45	0
4	ACT	A	503	-	3,3,3	1.49	1 (33%)	3,3,3	1.34	0
7	PUT	B	501	-	5,5,5	0.28	0	4,4,4	0.13	0
4	ACT	B	504	-	3,3,3	1.40	1 (33%)	3,3,3	1.36	0
3	ORX	B	503[B]	-	24,24,24	1.96	7 (29%)	29,33,33	1.23	3 (10%)
3	ORX	B	503[A]	1	24,24,24	2.06	6 (25%)	29,33,33	1.53	4 (13%)
2	DMS	B	502	-	3,3,3	0.63	0	3,3,3	0.52	0
2	DMS	B	506	-	3,3,3	0.71	0	3,3,3	0.41	0
2	DMS	A	504	-	3,3,3	0.69	0	3,3,3	0.52	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	ORX	A	502	1	-	5/19/19/19	0/1/1/1
8	EDO	B	505	-	-	0/1/1/1	-
7	PUT	B	501	-	-	0/3/3/3	-
3	ORX	B	503[B]	-	-	10/19/19/19	0/1/1/1
3	ORX	B	503[A]	1	-	2/19/19/19	0/1/1/1

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	503[A]	ORX	C4A-C4	5.51	1.60	1.52
3	A	502	ORX	C4A-C4	5.05	1.59	1.52
3	B	503[B]	ORX	C4A-C4	4.51	1.58	1.52
3	B	503[B]	ORX	C2A-C2	3.56	1.56	1.50
3	B	503[A]	ORX	C2A-C2	3.43	1.55	1.50

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	503[A]	ORX	C6-C5-C4	4.68	121.60	118.06
3	B	503[A]	ORX	C5-C6-N1	-3.27	118.51	123.83
3	B	503[B]	ORX	C5-C6-N1	-2.75	119.35	123.83
3	B	503[B]	ORX	C6-C5-C4	2.70	120.10	118.06
3	A	502	ORX	OA-CA-CAA	2.58	122.25	113.51

There are no chirality outliers.

5 of 17 torsion outliers are listed below:

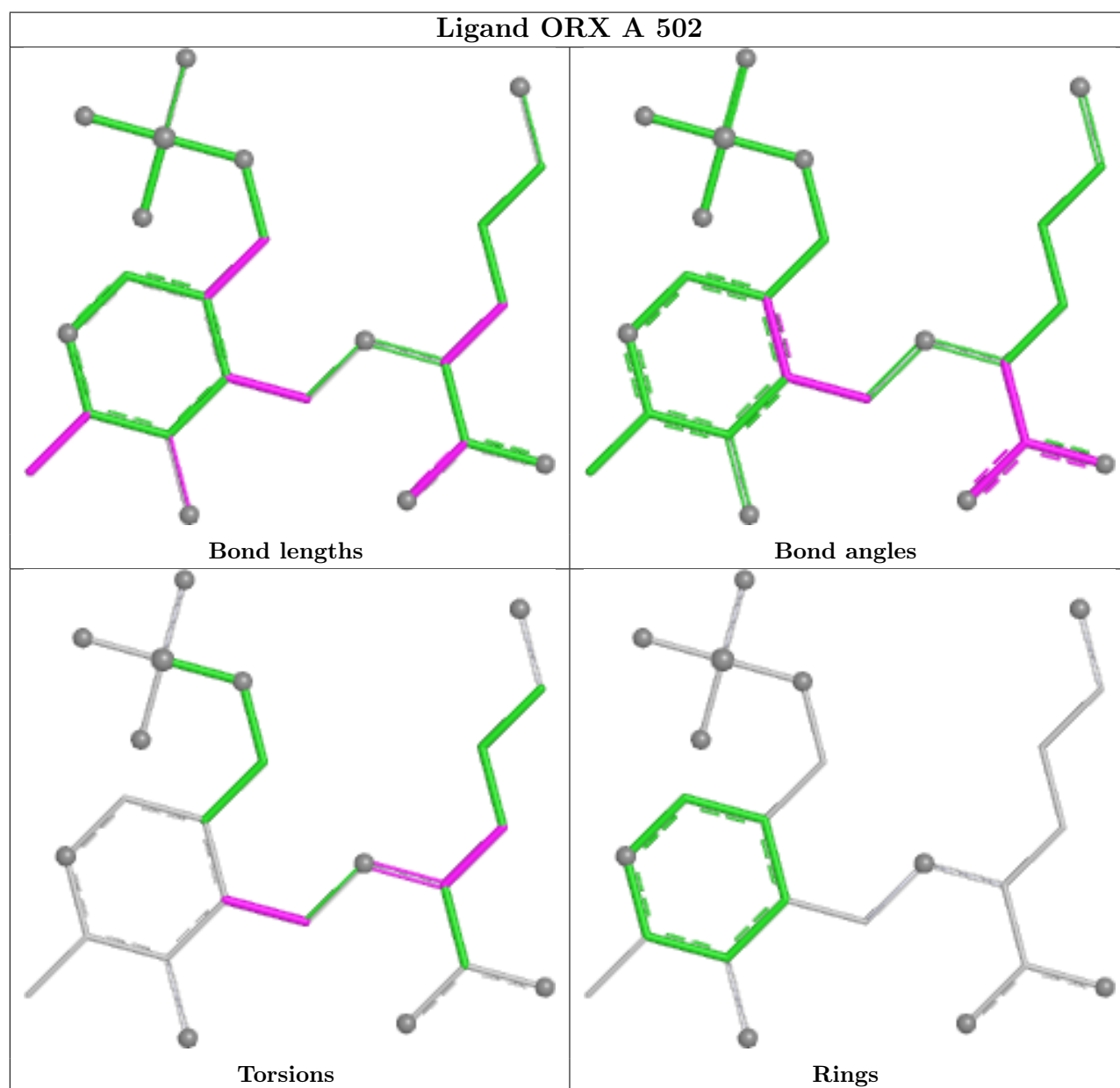
Mol	Chain	Res	Type	Atoms
3	A	502	ORX	CA-CAA-NA-C4A
3	A	502	ORX	CBA-CAA-NA-C4A
3	B	503[B]	ORX	CBA-CAA-NA-C4A
3	B	503[B]	ORX	NA-CAA-CBA-CGA
3	B	503[B]	ORX	C5-C4-C4A-NA

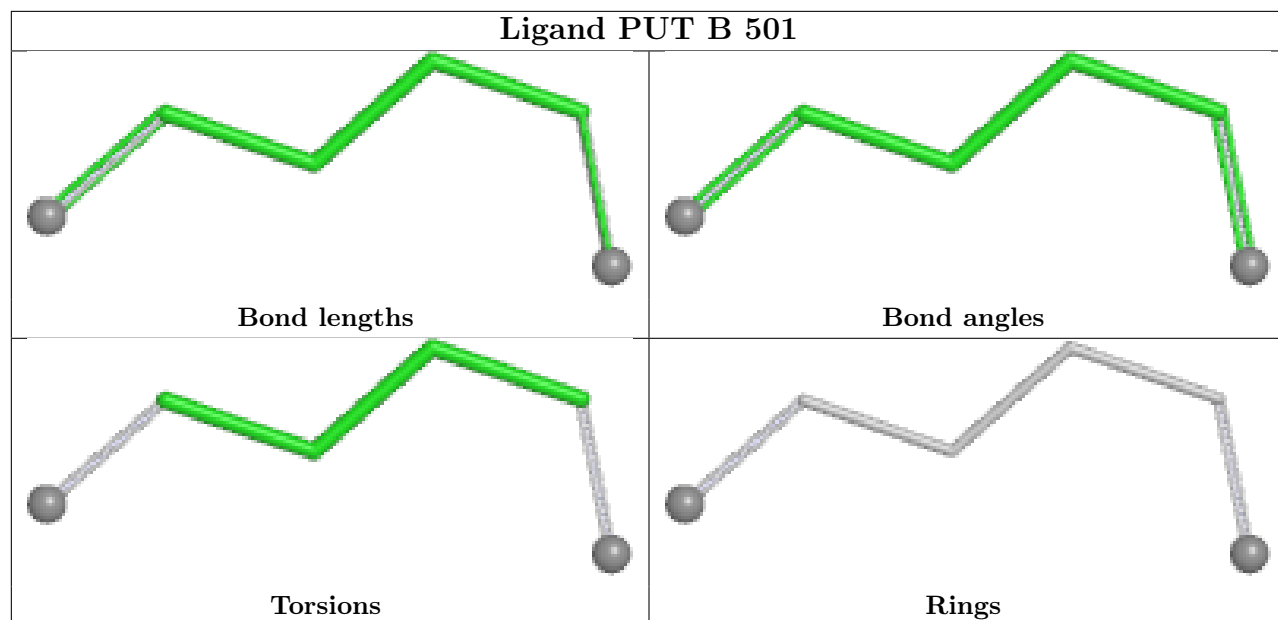
There are no ring outliers.

2 monomers are involved in 3 short contacts:

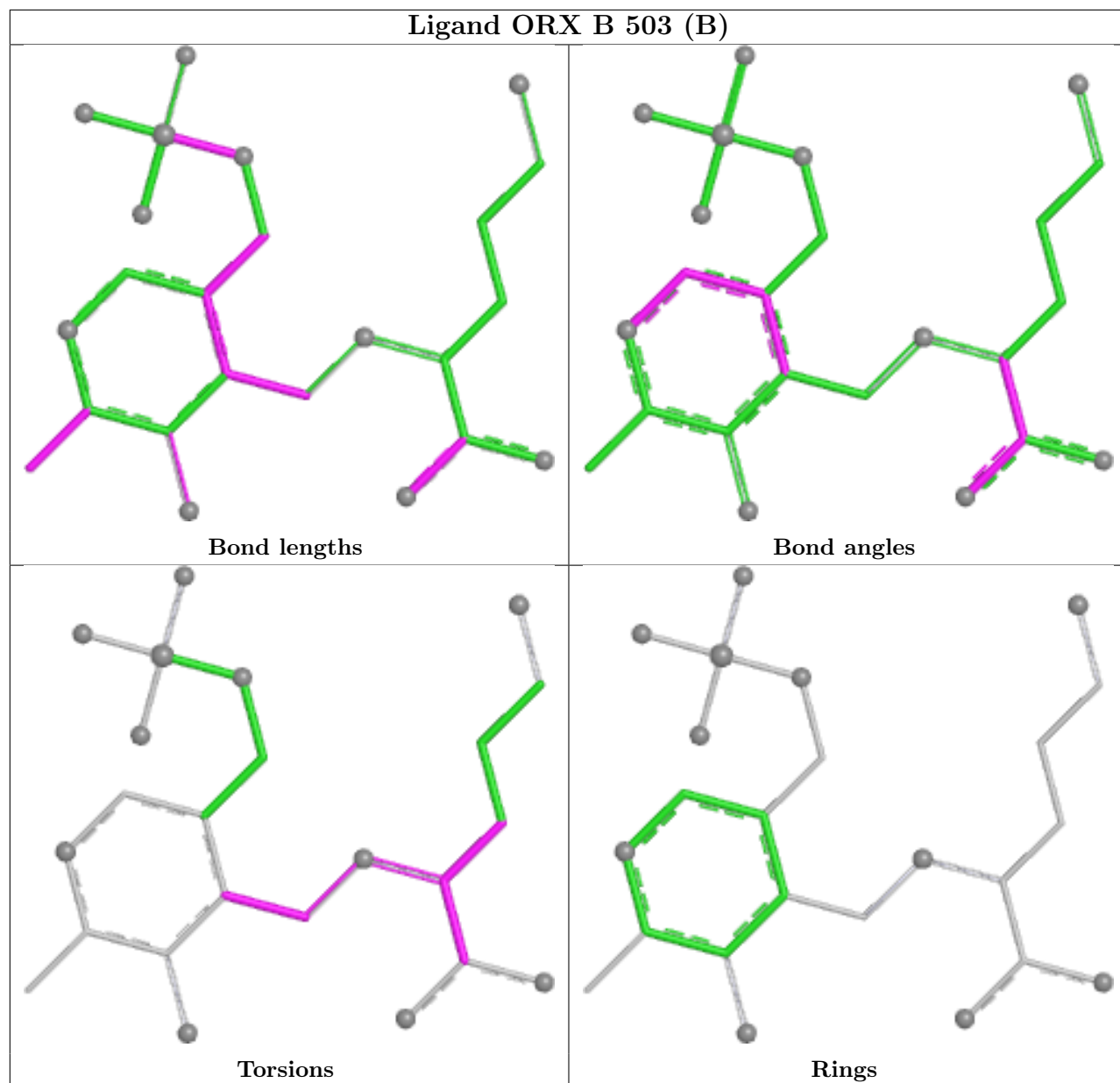
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	DMS	1	0
3	B	503[B]	ORX	2	0

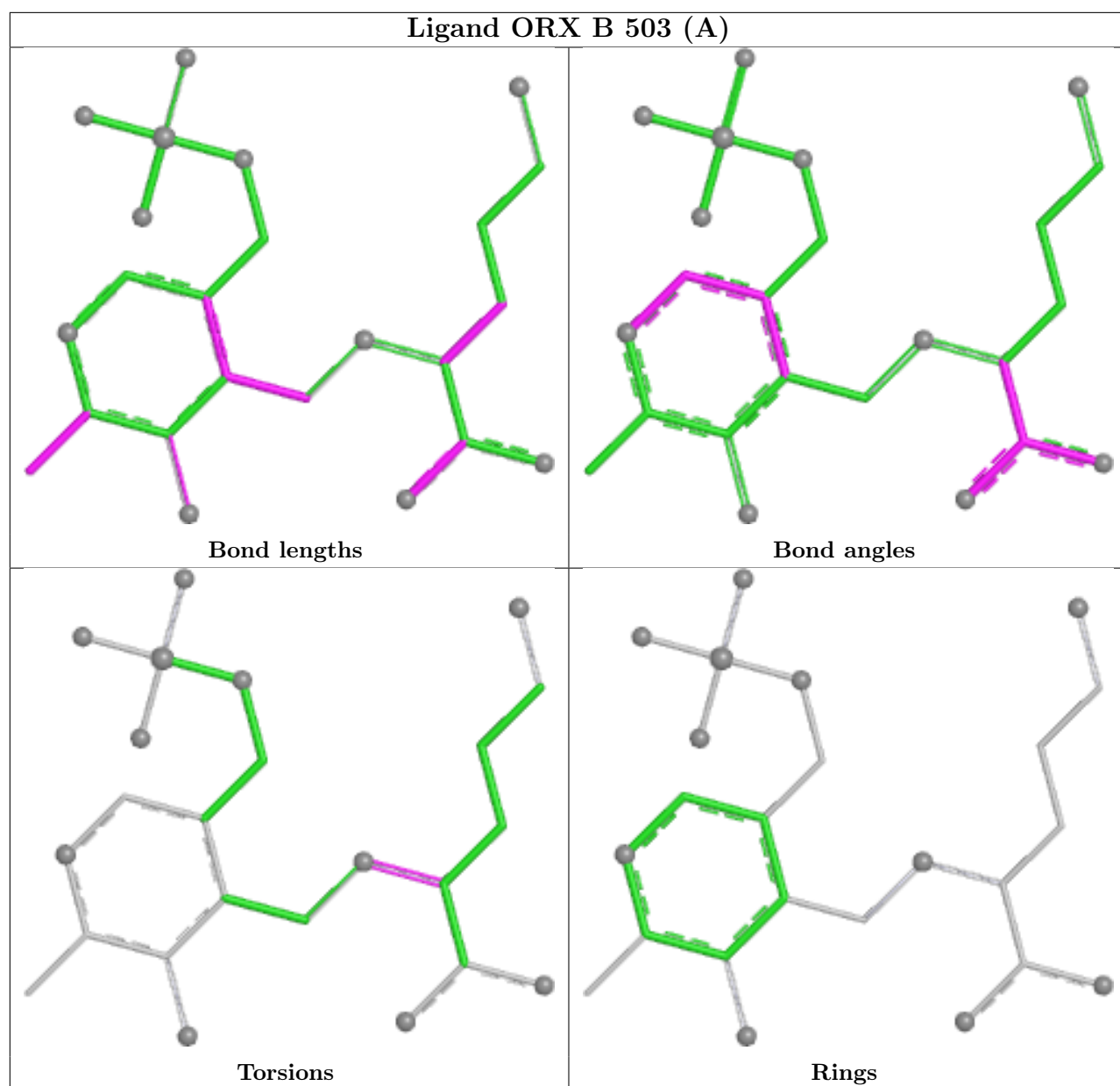
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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





Ligand ORX B 503 (B)





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, 95th 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	461/477 (96%)	0.11	15 (3%) 49 52	11, 29, 61, 115	46 (9%)
1	B	459/477 (96%)	-0.10	13 (2%) 55 58	8, 26, 55, 108	44 (9%)
All	All	920/954 (96%)	0.01	28 (3%) 52 56	8, 28, 61, 115	90 (9%)

The worst 5 of 28 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	186	PHE	4.8
1	A	186[A]	PHE	4.7
1	B	185	ALA	4.3
1	B	467	ALA	3.8
1	A	18[A]	ASN	3.8

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](#)

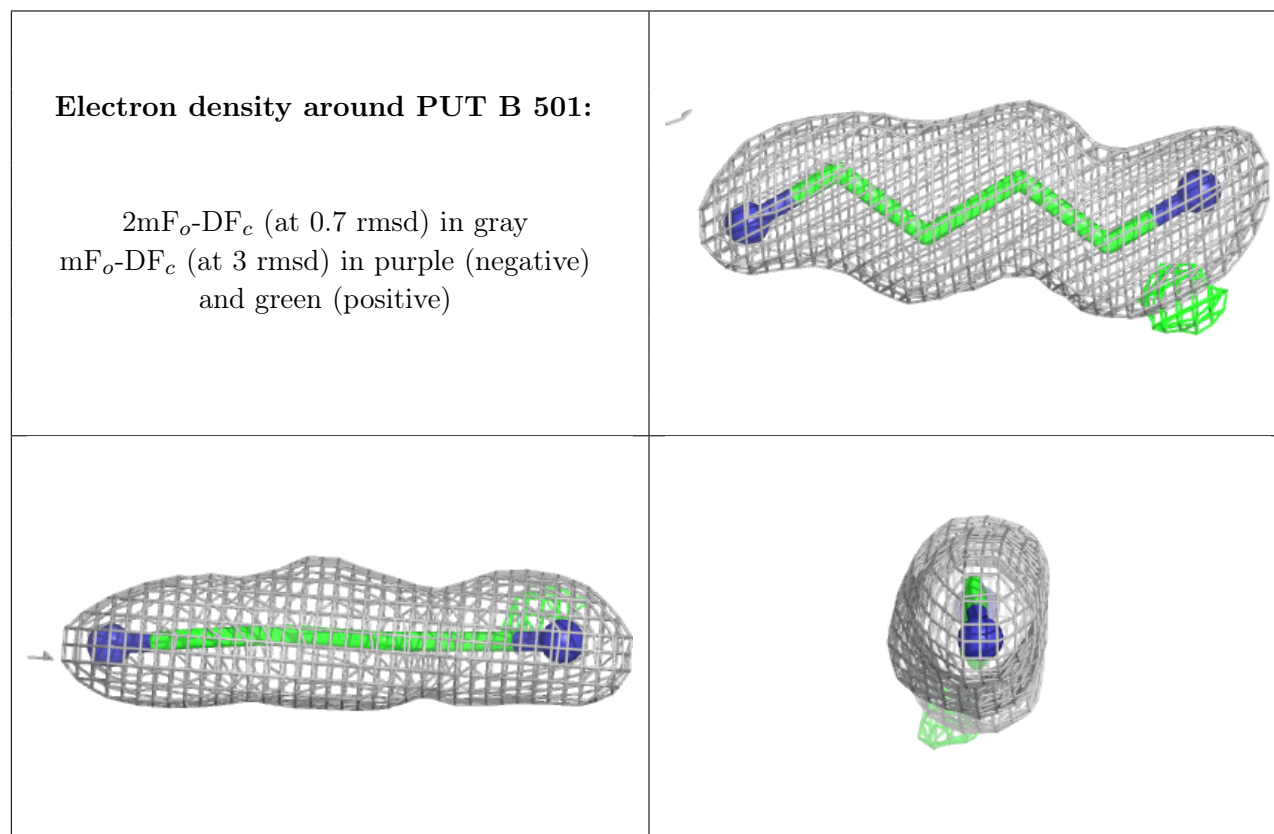
There are no oligosaccharides in this entry.

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, 95th 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.

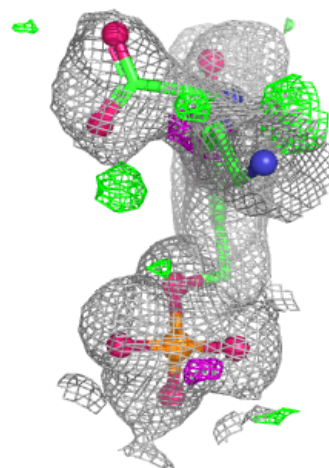
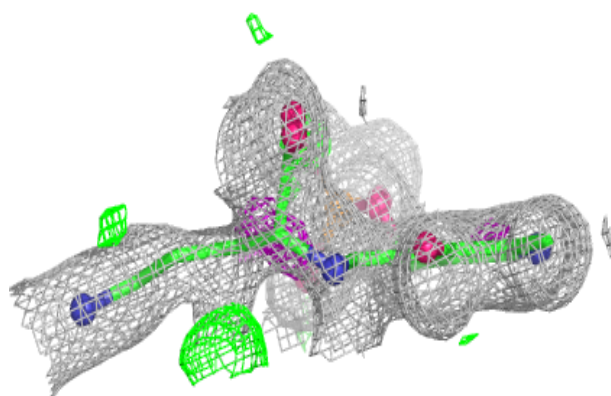
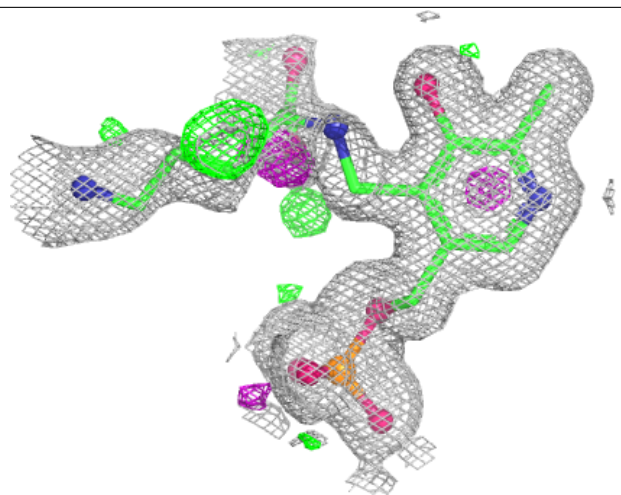
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	ACT	B	504	4/4	0.77	0.13	45,46,65,70	0
4	ACT	A	503	4/4	0.82	0.12	33,58,60,64	0
2	DMS	B	502	4/4	0.82	0.17	45,60,62,83	0
7	PUT	B	501	6/6	0.85	0.11	38,40,40,49	0
2	DMS	A	501	4/4	0.86	0.13	47,60,63,85	0
2	DMS	B	506	4/4	0.87	0.14	35,47,51,54	0
8	EDO	B	505	4/4	0.89	0.14	34,54,58,63	0
2	DMS	A	504	4/4	0.90	0.15	44,51,54,59	0
5	NA	B	508	1/1	0.93	0.11	40,40,40,40	0
3	ORX	B	503[B]	24/24	0.95	0.09	19,26,43,48	24
3	ORX	B	503[A]	24/24	0.95	0.09	18,24,45,48	24
3	ORX	A	502	24/24	0.96	0.09	20,23,53,62	0
6	CL	A	506	1/1	0.97	0.06	27,27,27,27	1
5	NA	A	505	1/1	0.98	0.11	26,26,26,26	0
5	NA	B	507	1/1	0.98	0.11	29,29,29,29	0
6	CL	B	509	1/1	0.99	0.07	33,33,33,33	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.



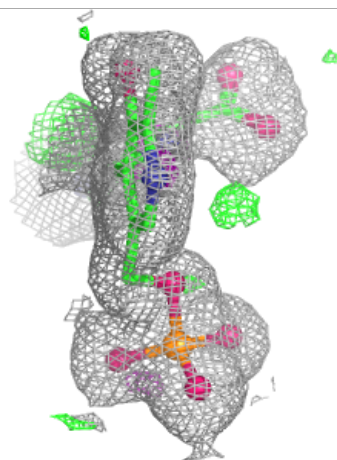
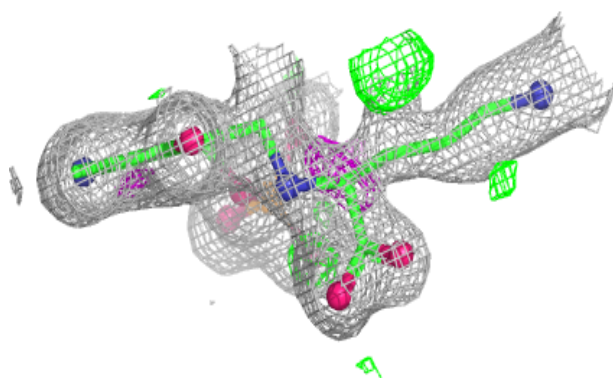
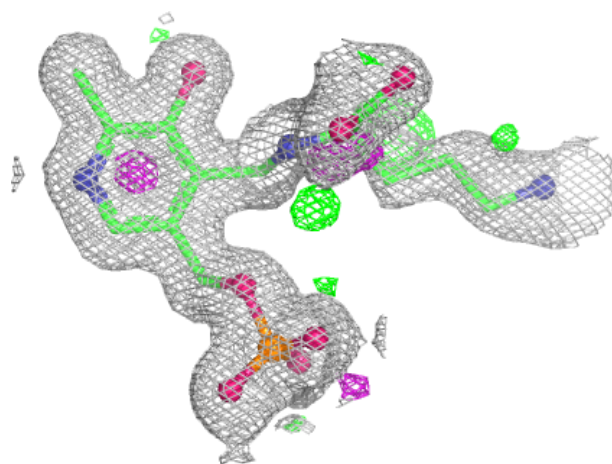
Electron density around ORX B 503 (B):

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



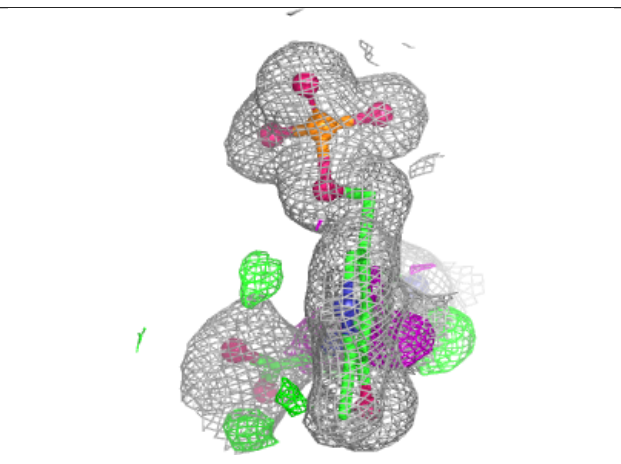
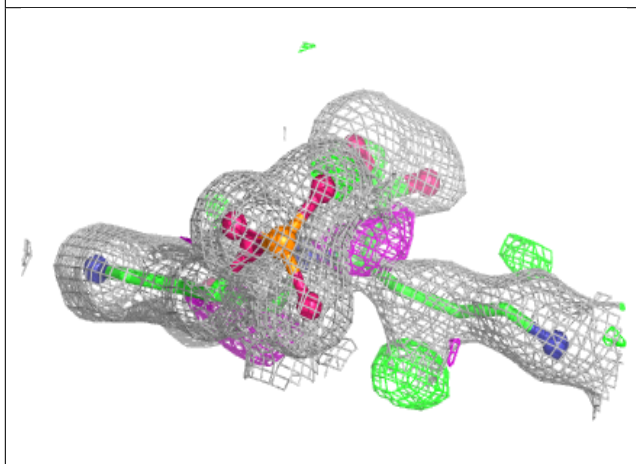
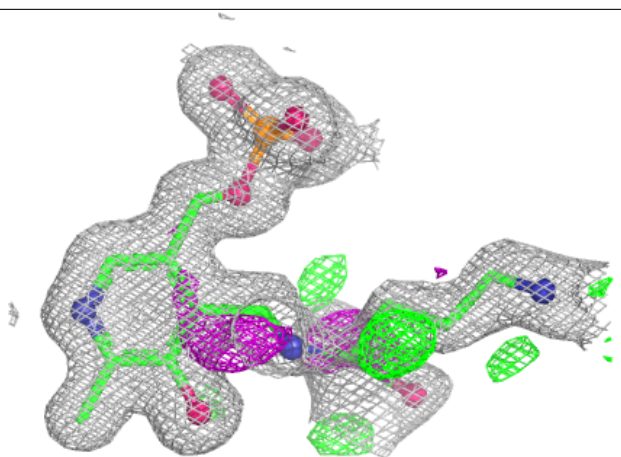
Electron density around ORX B 503 (A):

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



Electron density around ORX A 502:

$2mF_o-DF_c$ (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.