



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 8, 2026 – 05:42 PM UTC

PDB ID : 1NJJ / pdb_00001njj
Title : Crystal structure determination of T. brucei ornithine decarboxylase bound to D-ornithine and to G418
Authors : Jackson, L.K.; Goldsmith, E.J.; Phillips, M.A.
Deposited on : 2002-12-31
Resolution : 2.45 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

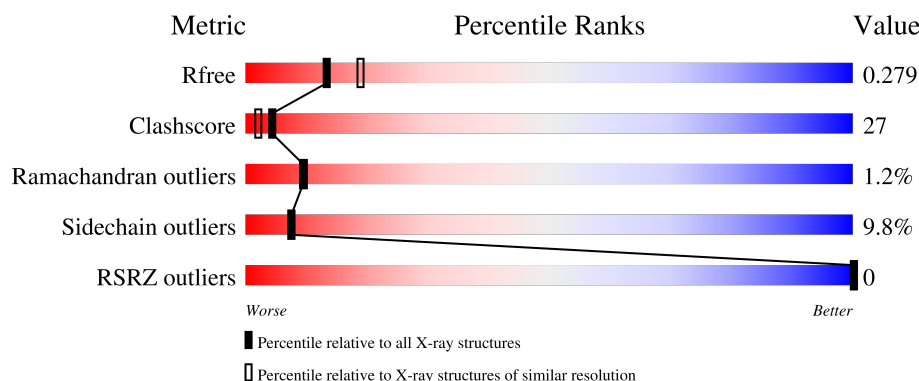
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.45 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	1190 (2.46-2.46)
Clashscore	190562	1229 (2.46-2.46)
Ramachandran outliers	187476	1218 (2.46-2.46)
Sidechain outliers	187428	1218 (2.46-2.46)
RSRZ outliers	180081	1190 (2.46-2.46)

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	425	
1	B	425	
1	C	425	
1	D	425	

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
2	GET	A	601	X	-	-	-
2	GET	B	602	X	-	-	-
2	GET	C	603	X	-	-	-
3	ORX	A	602	-	X	-	-
3	ORX	B	603	-	X	-	-
3	ORX	C	604	-	X	-	-
3	ORX	D	426	X	-	-	-

2 Entry composition [i](#)

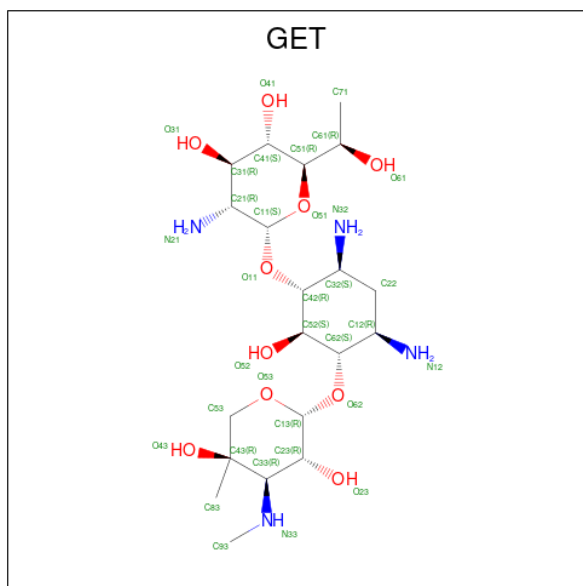
There are 4 unique types of molecules in this entry. The entry contains 11424 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ornithine decarboxylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	349	Total	C	N	O	S	0	0	0
			2734	1756	456	506	16			
1	B	349	Total	C	N	O	S	0	0	0
			2738	1760	457	505	16			
1	C	352	Total	C	N	O	S	0	0	0
			2770	1784	462	508	16			
1	D	354	Total	C	N	O	S	12	0	0
			2777	1784	464	513	16			

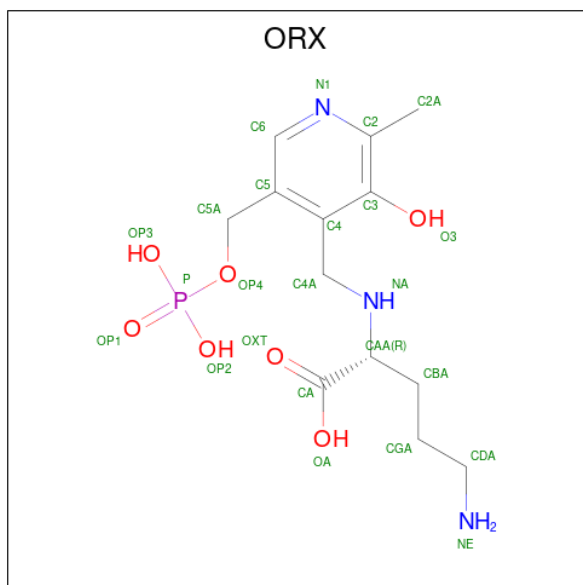
- Molecule 2 is GENETICIN (CCD ID: GET) (formula: $C_{20}H_{40}N_4O_{10}$).



Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	C	1	Total	C	N	O	0	0
			34	20	4	10		

- Molecule 3 is N 2 -({3-HYDROXY-2-METHYL-5-[(PHOSPHONOOXY)METHYL]PYRIDIN-4-YL}METHYL)-D-ORNITHINE (CCD ID: ORX) (formula: C₁₃H₂₂N₃O₇P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			24	13	3	7	1		
3	B	1	Total	C	N	O	P	0	0
			24	13	3	7	1		
3	C	1	Total	C	N	O	P	0	0
			24	13	3	7	1		
3	D	1	Total	C	N	O	P	0	0
			24	13	3	7	1		

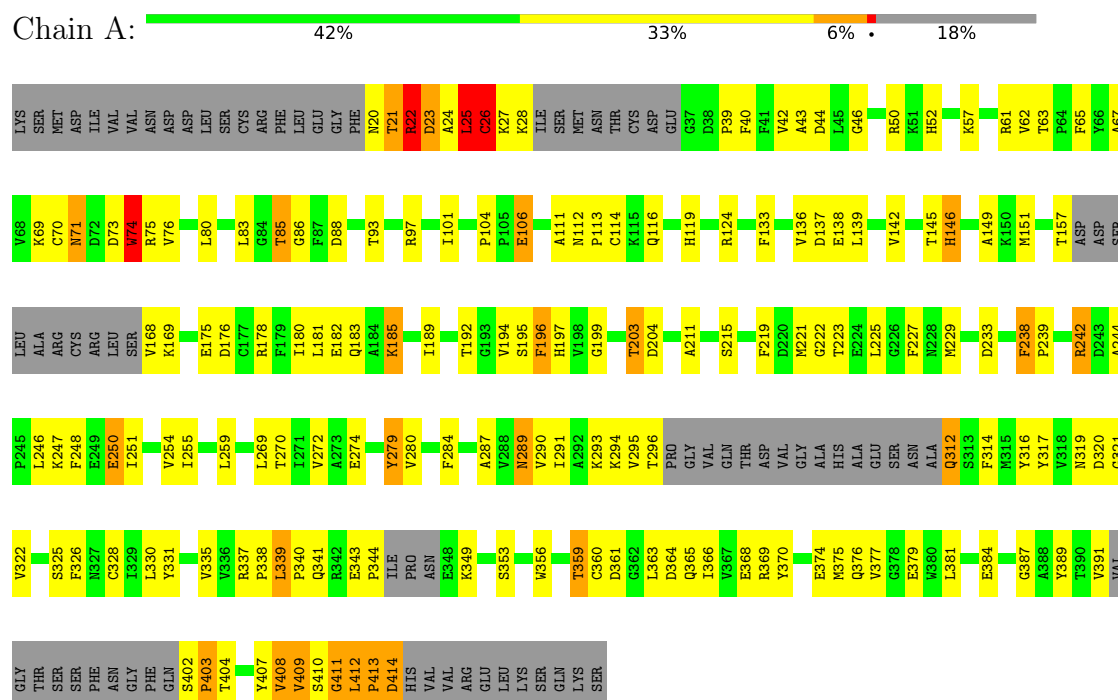
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	51	Total	O	0	0
			51	51		
4	B	48	Total	O	0	0
			48	48		
4	C	59	Total	O	0	0
			59	59		
4	D	49	Total	O	0	0
			49	49		

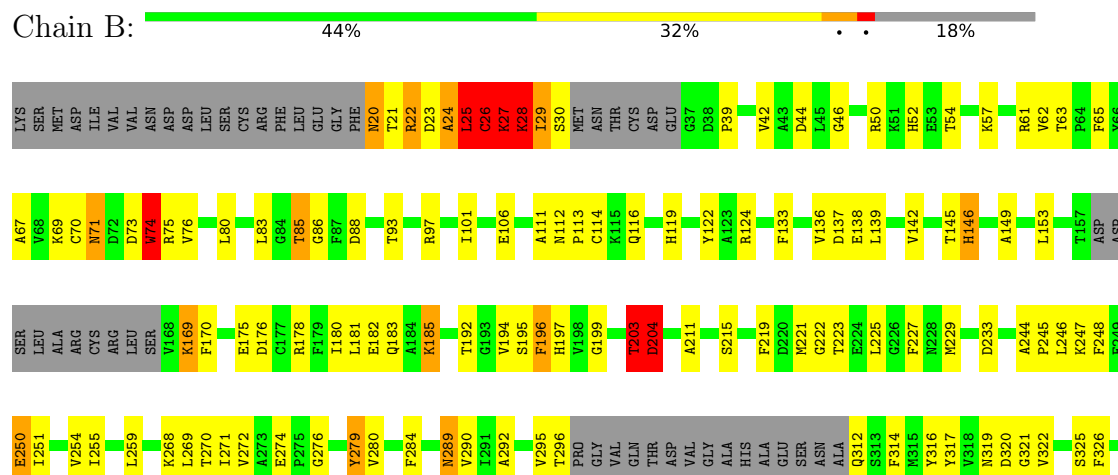
3 Residue-property plots

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: ornithine decarboxylase



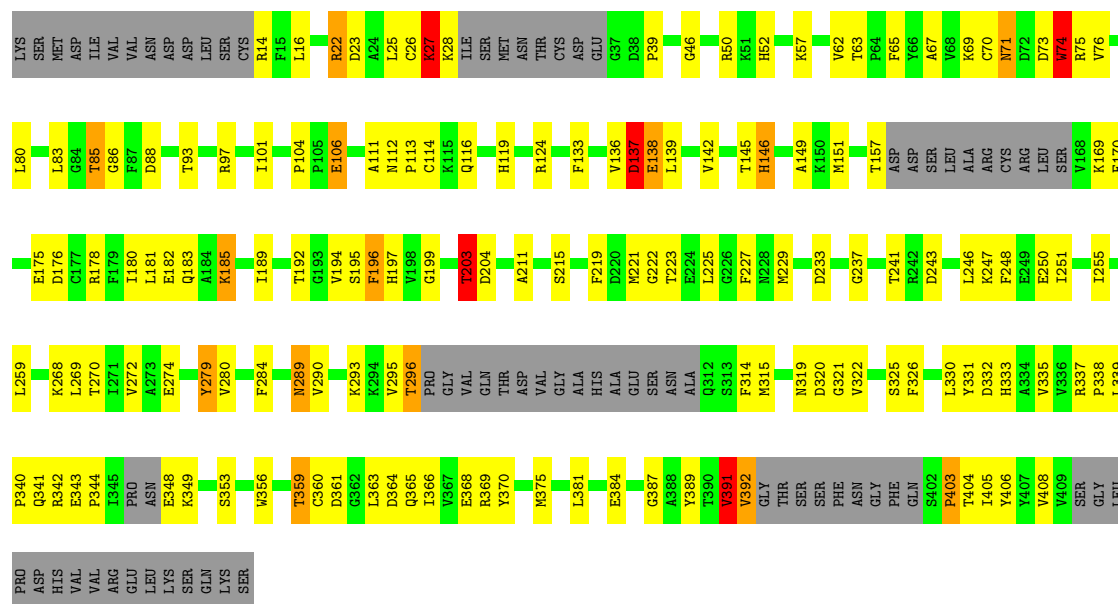
- Molecule 1: ornithine decarboxylase





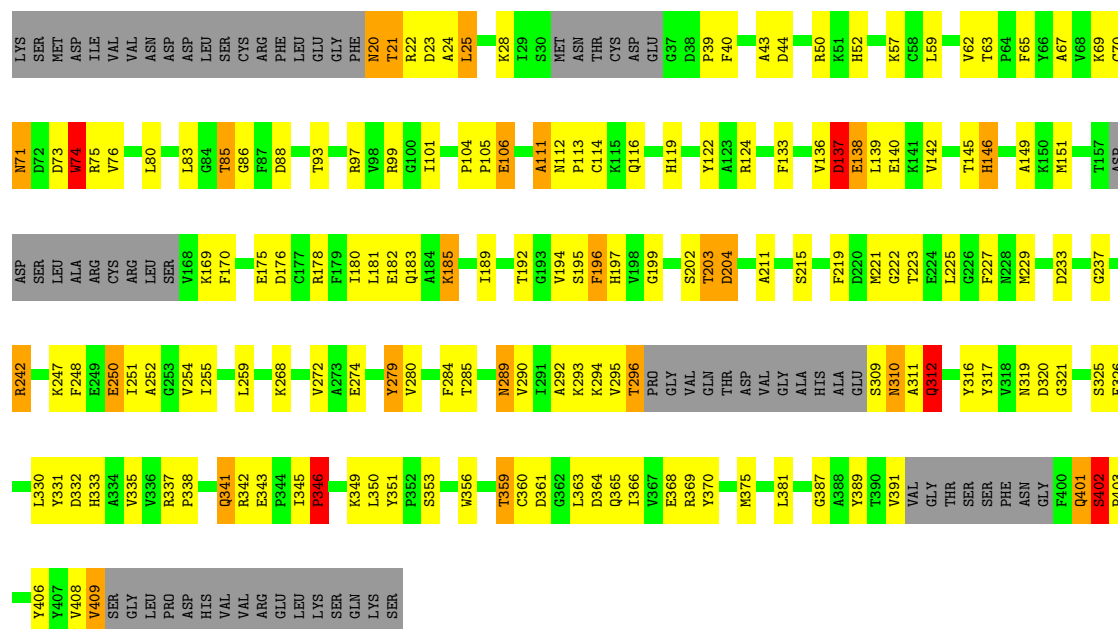
• Molecule 1: ornithine decarboxylase

Chain C: 47% 31% 17%



• Molecule 1: ornithine decarboxylase

Chain D: 46% 31% 5% 17%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	67.82Å 88.54Å 150.44Å 90.00° 90.03° 90.00°	Depositor
Resolution (Å)	35.00 – 2.45 35.00 – 2.45	Depositor EDS
% Data completeness (in resolution range)	87.6 (35.00-2.45) 87.5 (35.00-2.45)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.19 (at 2.45Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.260 , 0.283 0.259 , 0.279	Depositor DCC
R_{free} test set	6399 reflections (10.10%)	wwPDB-VP
Wilson B-factor (Å ²)	42.0	Xtriage
Anisotropy	0.730	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 37.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.138 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	11424	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.55% of the height of the origin peak. No significant pseudotranslation is detected.*

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: GET, ORX

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	0.51	1/2797 (0.0%)	1.14	31/3790 (0.8%)
1	B	0.65	7/2802 (0.2%)	1.20	37/3799 (1.0%)
1	C	0.44	0/2834	1.06	20/3838 (0.5%)
1	D	0.51	2/2842 (0.1%)	1.10	26/3853 (0.7%)
All	All	0.53	10/11275 (0.1%)	1.13	114/15280 (0.7%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	27	LYS	CA-C	9.97	1.66	1.52
1	D	401	GLN	CA-C	8.10	1.62	1.52
1	B	204	ASP	CG-OD2	-7.13	1.11	1.25
1	A	204	ASP	CG-OD2	-6.67	1.12	1.25
1	B	26	CYS	CA-C	6.33	1.61	1.53

The worst 5 of 114 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	402	SER	CA-C-N	-11.09	108.36	119.78
1	D	402	SER	C-N-CA	-11.09	108.36	119.78
1	A	24	ALA	N-CA-C	-10.74	95.13	111.56
1	B	343	GLU	CA-C-N	10.65	133.15	119.84
1	B	343	GLU	C-N-CA	10.65	133.15	119.84

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	2734	0	2701	154	0
1	B	2738	0	2712	171	0
1	C	2770	0	2742	146	0
1	D	2777	0	2745	146	0
2	A	34	0	40	5	0
2	B	34	0	40	13	0
2	C	34	0	40	9	0
3	A	24	0	19	2	0
3	B	24	0	18	3	0
3	C	24	0	19	1	0
3	D	24	0	19	2	0
4	A	51	0	0	9	0
4	B	48	0	0	2	0
4	C	59	0	0	3	0
4	D	49	0	0	4	0
All	All	11424	0	11095	596	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 27.

The worst 5 of 596 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:146:HIS:ND1	1:A:149:ALA:HB2	1.63	1.13
1:C:146:HIS:ND1	1:C:149:ALA:HB2	1.63	1.12
1:B:146:HIS:ND1	1:B:149:ALA:HB2	1.63	1.11
1:D:146:HIS:ND1	1:D:149:ALA:HB2	1.64	1.10
1:A:124:ARG:HB2	1:A:146:HIS:HD2	1.26	1.00

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	337/425 (79%)	307 (91%)	23 (7%)	7 (2%)	5	4
1	B	339/425 (80%)	307 (91%)	29 (9%)	3 (1%)	14	17
1	C	340/425 (80%)	314 (92%)	23 (7%)	3 (1%)	14	17
1	D	344/425 (81%)	314 (91%)	26 (8%)	4 (1%)	10	11
All	All	1360/1700 (80%)	1242 (91%)	101 (7%)	17 (1%)	9	9

5 of 17 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	22	ARG
1	B	345	ILE
1	B	346	PRO
1	C	27	LYS
1	D	402	SER

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	297/364 (82%)	267 (90%)	30 (10%)	7	7
1	B	298/364 (82%)	268 (90%)	30 (10%)	7	7
1	C	300/364 (82%)	272 (91%)	28 (9%)	8	9
1	D	302/364 (83%)	273 (90%)	29 (10%)	8	8
All	All	1197/1456 (82%)	1080 (90%)	117 (10%)	7	7

5 of 117 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	359	THR
1	D	343	GLU
1	C	175	GLU
1	D	341	GLN
1	D	185	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 58 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	71	ASN
1	D	333	HIS
1	C	210	GLN
1	D	312	GLN
1	D	210	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	GET	A	601	-	35,36,36	1.69	6 (17%)	43,55,55	1.70	8 (18%)
2	GET	C	603	-	35,36,36	1.56	7 (20%)	43,55,55	1.54	5 (11%)
3	ORX	C	604	-	24,24,24	2.48	8 (33%)	29,33,33	4.53	16 (55%)
3	ORX	B	603	-	24,24,24	2.77	9 (37%)	29,33,33	4.45	15 (51%)
2	GET	B	602	-	35,36,36	1.47	5 (14%)	43,55,55	1.84	7 (16%)
3	ORX	A	602	-	24,24,24	2.88	10 (41%)	29,33,33	4.42	15 (51%)
3	ORX	D	426	-	24,24,24	2.71	11 (45%)	29,33,33	4.42	15 (51%)

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	GET	A	601	-	1/1/15/16	4/13/74/74	0/3/3/3
2	GET	C	603	-	1/1/15/16	5/13/74/74	0/3/3/3
3	ORX	C	604	-	-	14/19/19/19	0/1/1/1
3	ORX	B	603	-	-	7/19/19/19	0/1/1/1
2	GET	B	602	-	1/1/15/16	8/13/74/74	0/3/3/3
3	ORX	A	602	-	-	6/19/19/19	0/1/1/1
3	ORX	D	426	-	1/1/3/4	4/19/19/19	0/1/1/1

The worst 5 of 56 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	602	ORX	C3-C2	8.44	1.49	1.41
3	B	603	ORX	C3-C2	7.96	1.49	1.41
3	D	426	ORX	C3-C2	7.56	1.48	1.41
3	C	604	ORX	C3-C2	6.72	1.47	1.41
2	A	601	GET	C53-C43	5.69	1.57	1.52

The worst 5 of 81 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	604	ORX	C6-C5-C4	13.84	128.53	118.06
3	A	602	ORX	C6-C5-C4	13.42	128.22	118.06
3	B	603	ORX	C6-C5-C4	13.12	127.99	118.06
3	D	426	ORX	C6-C5-C4	12.56	127.57	118.06
3	B	603	ORX	C2A-C2-C3	11.19	133.89	120.80

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	601	GET	C61
2	B	602	GET	C61
2	C	603	GET	C61
3	D	426	ORX	CAA

5 of 48 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	GET	C21-C11-O11-C42
2	A	601	GET	O51-C51-C61-O61
2	B	602	GET	C21-C11-O11-C42
2	B	602	GET	C41-C51-C61-O61
2	B	602	GET	C41-C51-C61-C71

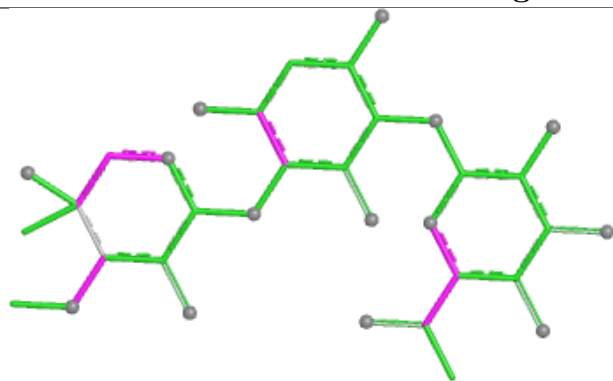
There are no ring outliers.

7 monomers are involved in 35 short contacts:

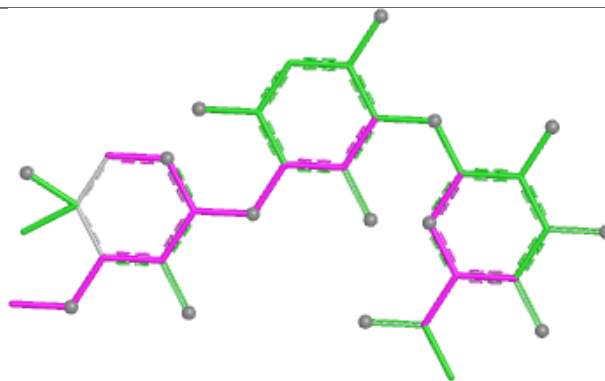
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	601	GET	5	0
2	C	603	GET	9	0
3	C	604	ORX	1	0
3	B	603	ORX	3	0
2	B	602	GET	13	0
3	A	602	ORX	2	0
3	D	426	ORX	2	0

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.

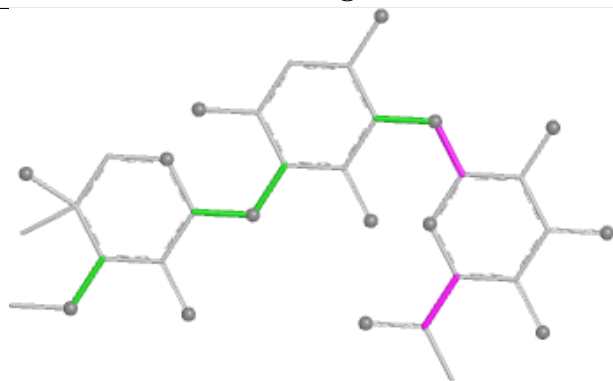
Ligand GET A 601



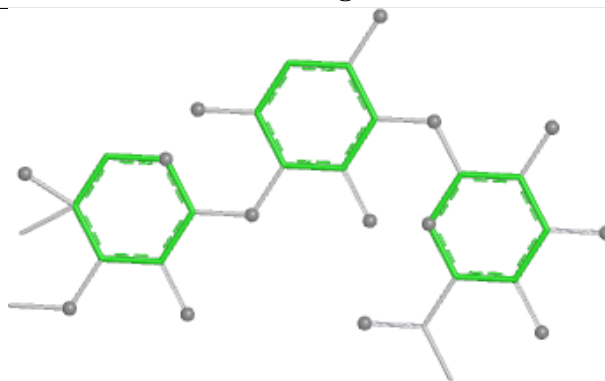
Bond lengths



Bond angles

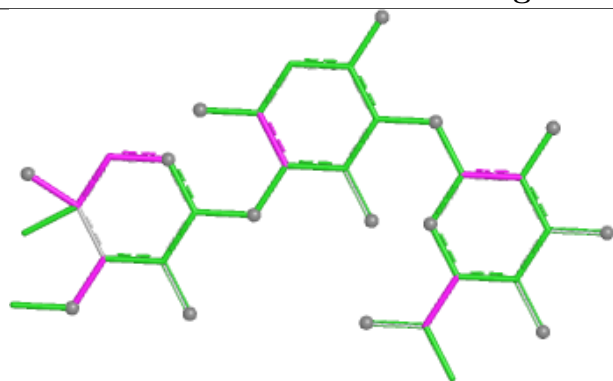


Torsions

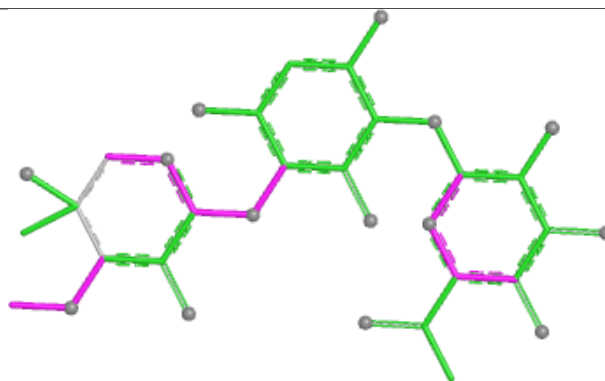


Rings

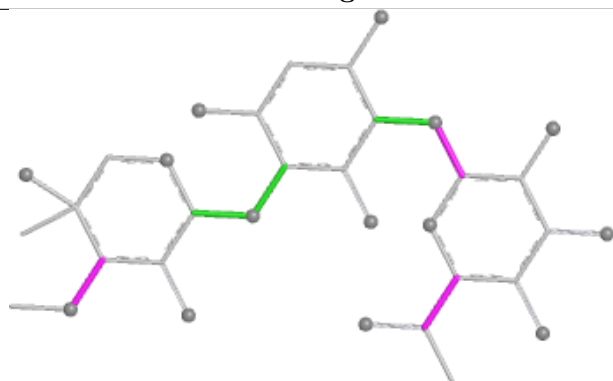
Ligand GET C 603



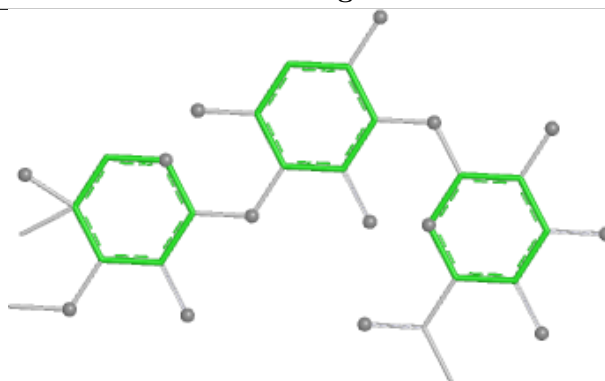
Bond lengths



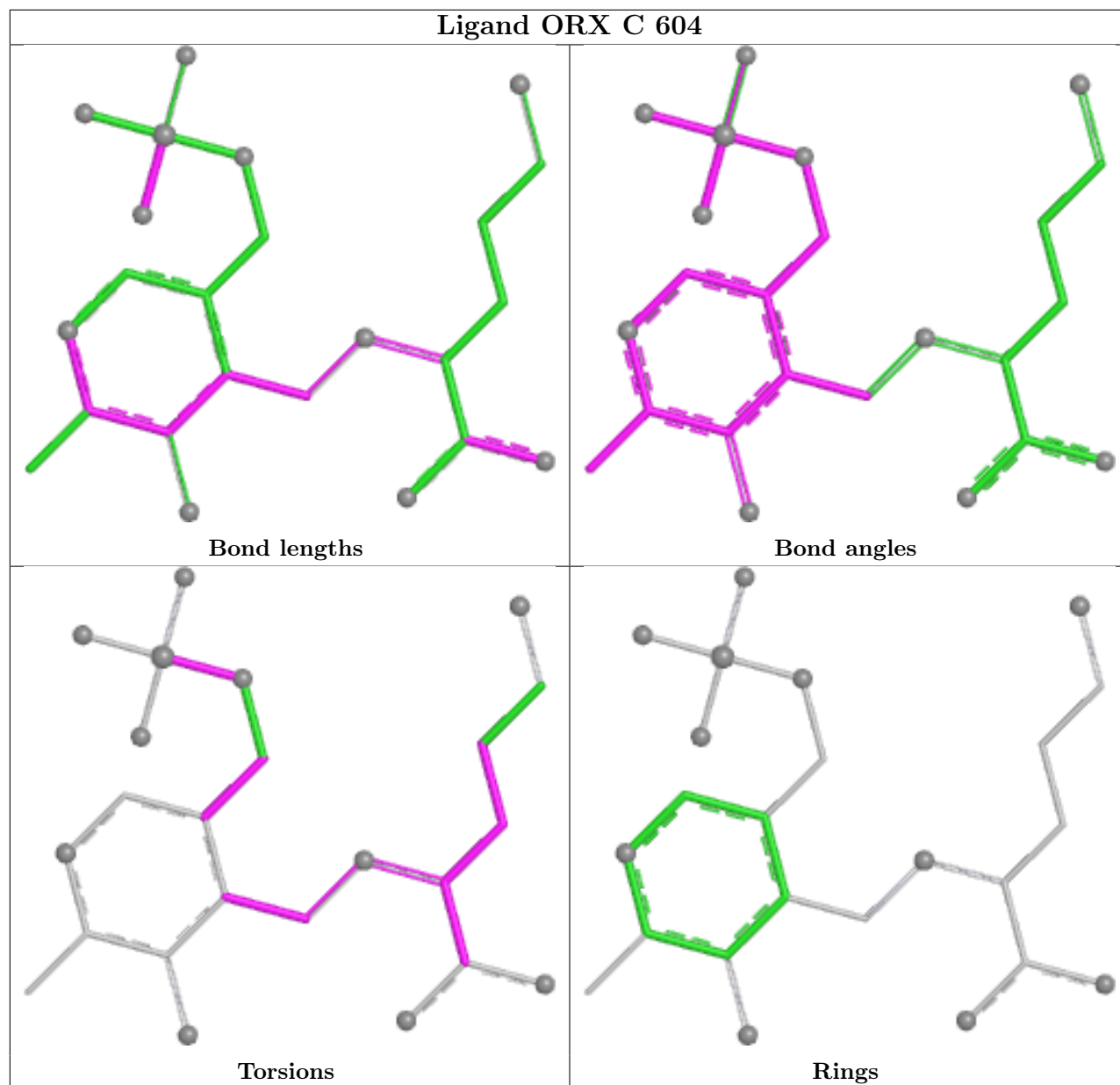
Bond angles

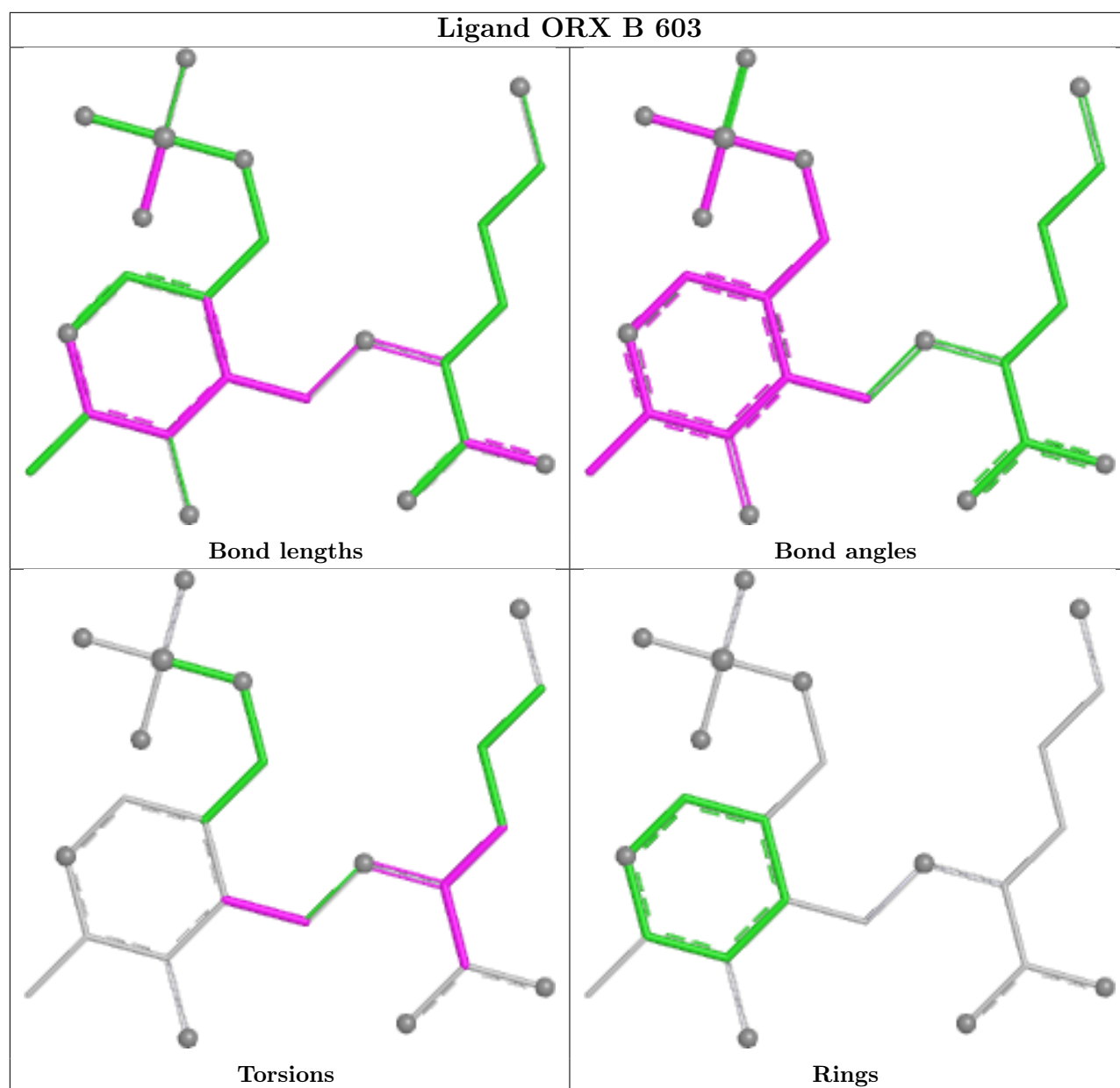


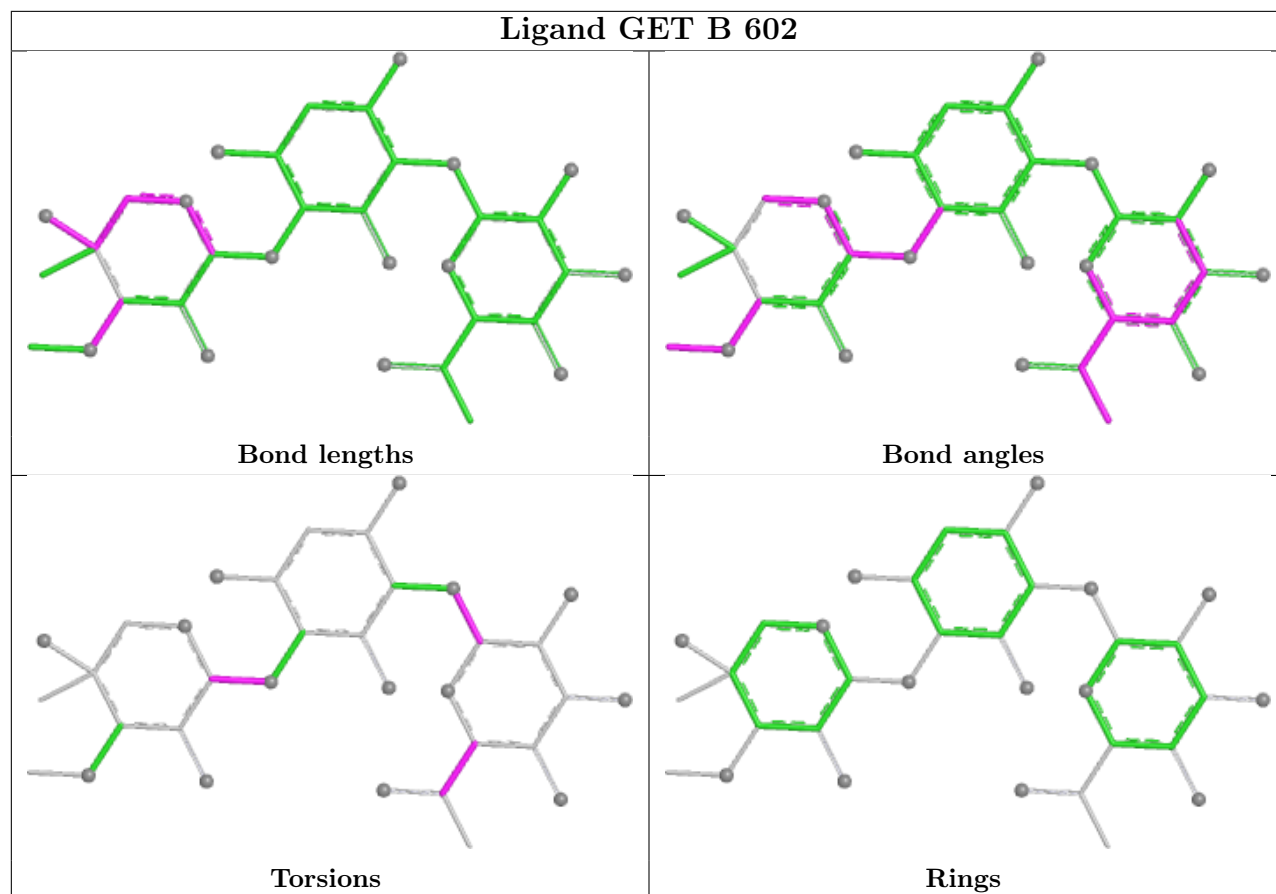
Torsions

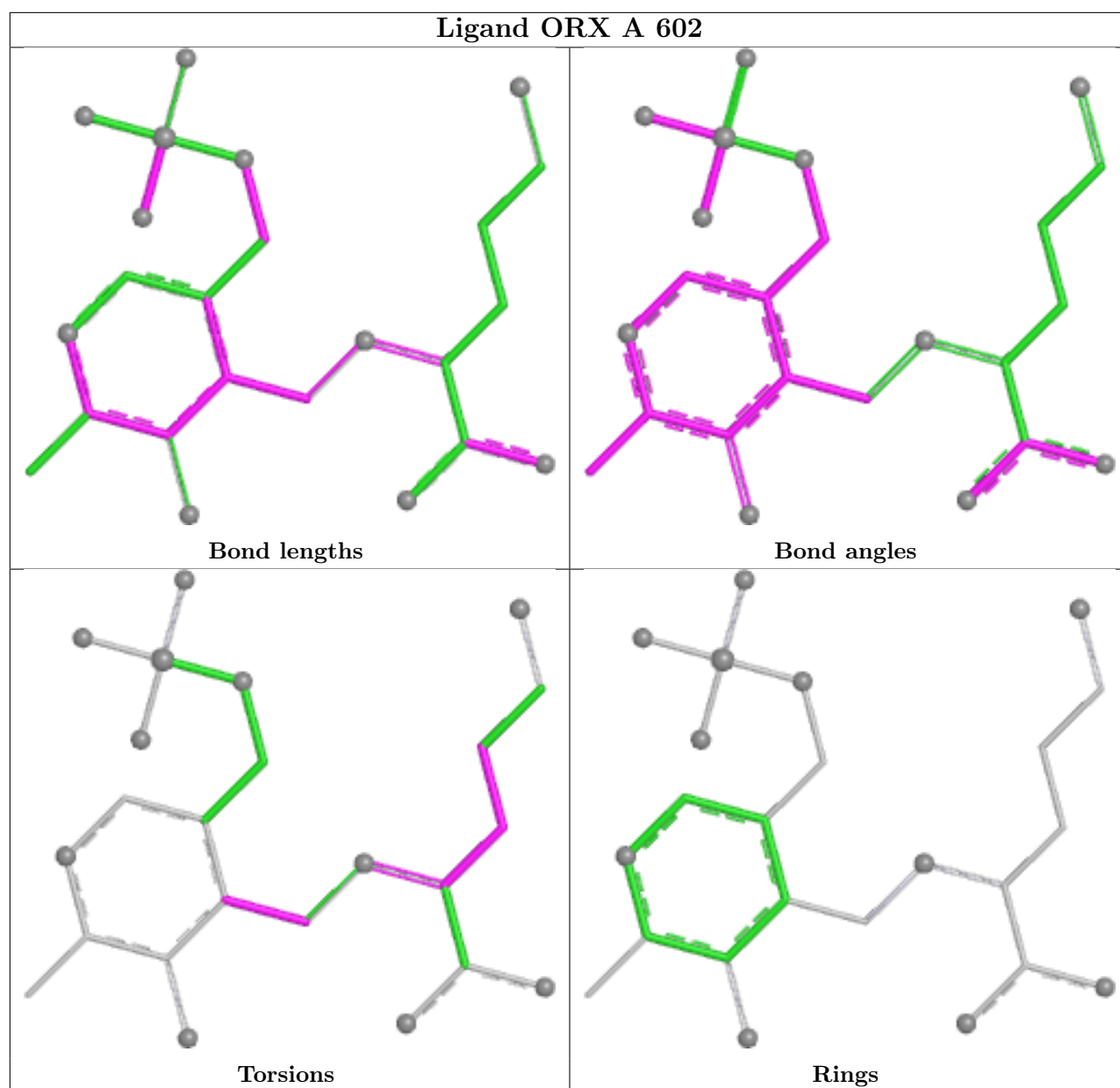


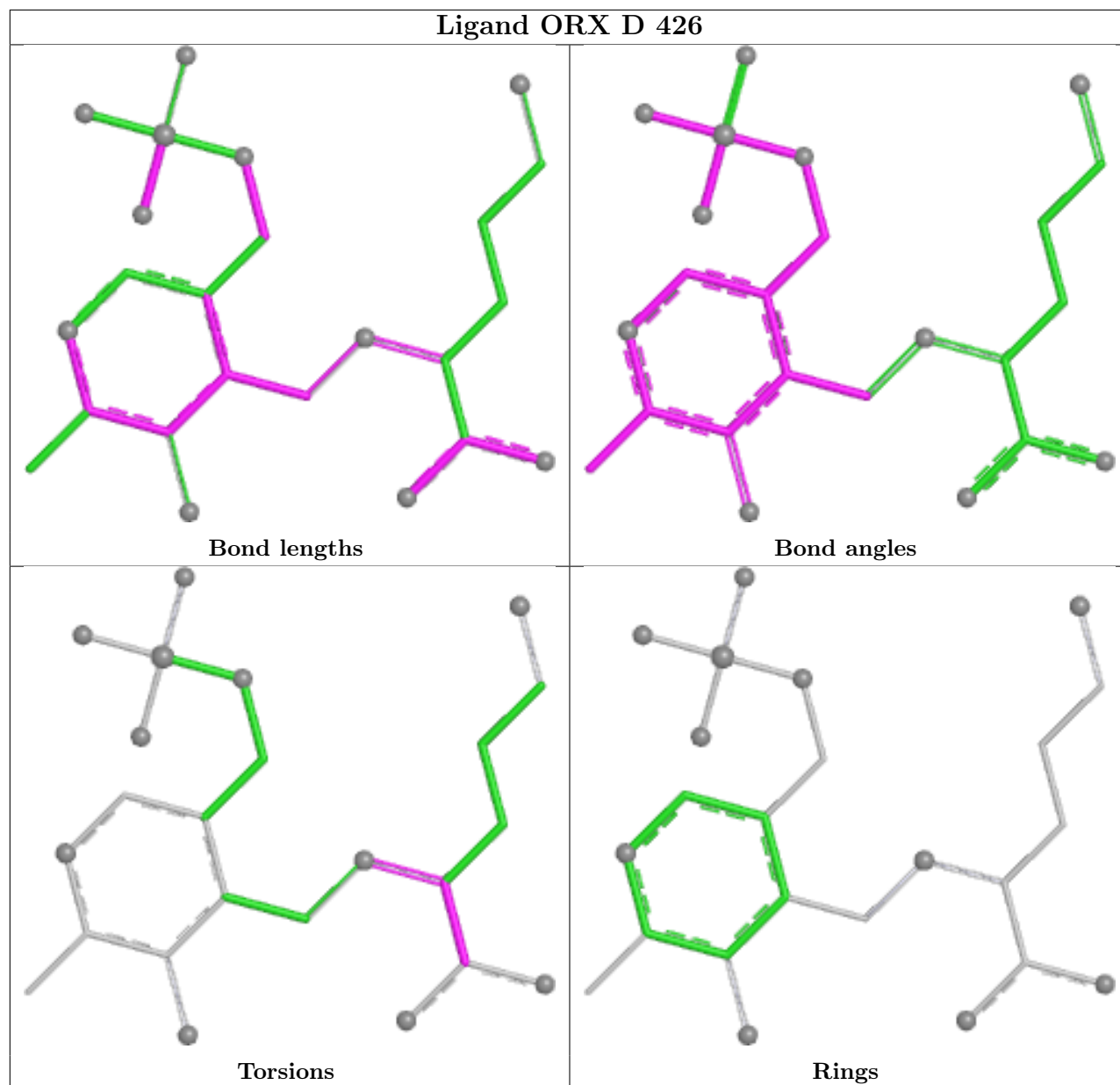
Rings











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 [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	349/425 (82%)	-1.41	0 100 100	24, 41, 74, 97	0
1	B	349/425 (82%)	-1.42	0 100 100	19, 41, 75, 97	0
1	C	352/425 (82%)	-1.40	0 100 100	22, 41, 77, 91	0
1	D	354/425 (83%)	-1.39	0 100 100	20, 40, 74, 99	2 (0%)
All	All	1404/1700 (82%)	-1.40	0 100 100	19, 41, 76, 99	2 (0%)

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

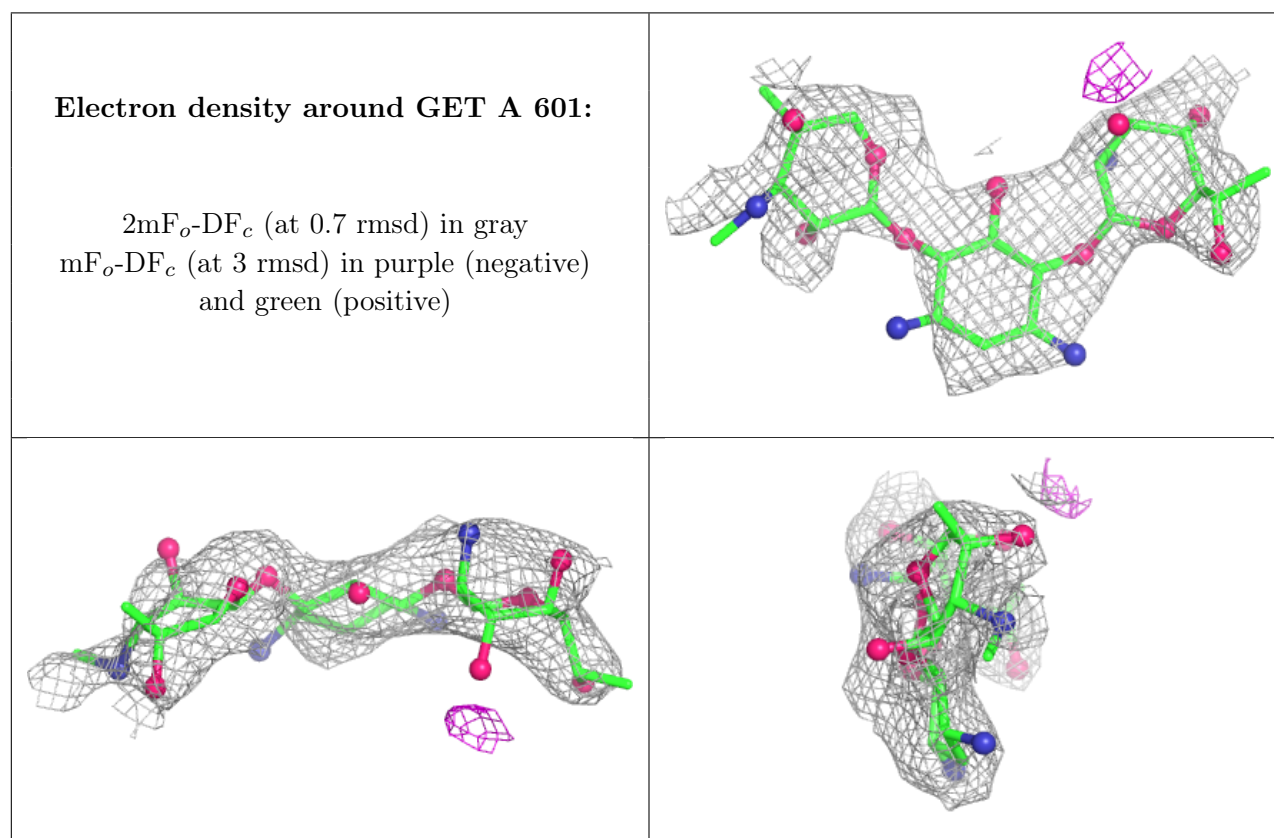
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GET	A	601	34/34	0.97	0.07	99,101,106,106	0
2	GET	B	602	34/34	0.97	0.08	99,104,112,113	0
2	GET	C	603	34/34	0.97	0.07	95,97,100,101	0
3	ORX	A	602	24/24	0.99	0.04	29,39,45,46	0

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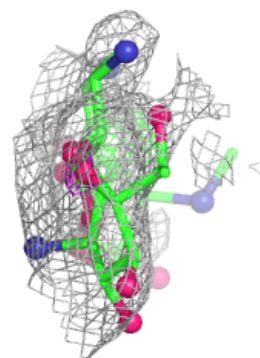
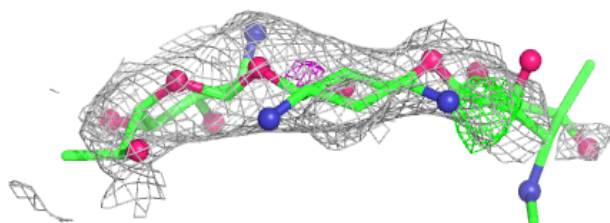
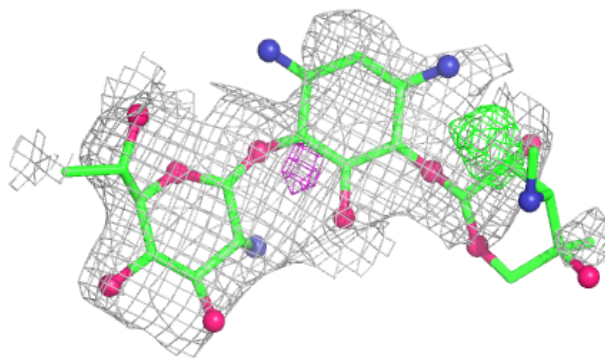
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	ORX	B	603	24/24	0.99	0.04	18,46,52,52	0
3	ORX	C	604	24/24	0.99	0.03	34,48,54,55	0
3	ORX	D	426	24/24	1.00	0.03	31,47,52,54	0

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.

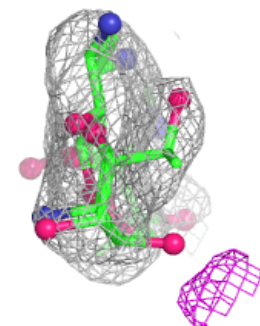
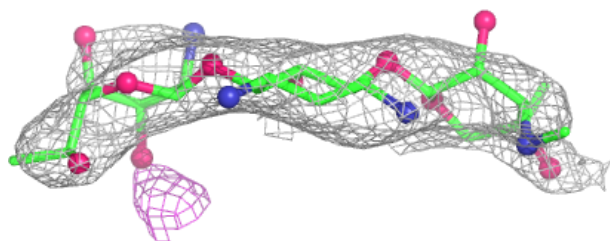
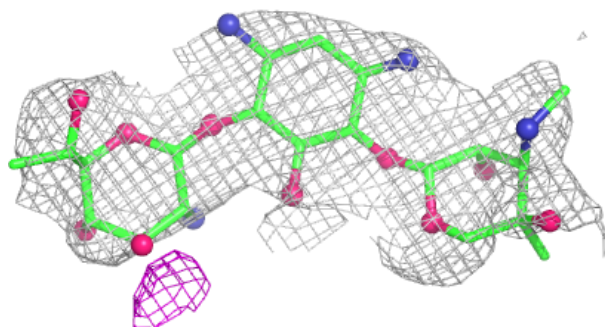


Electron density around GET B 602:

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

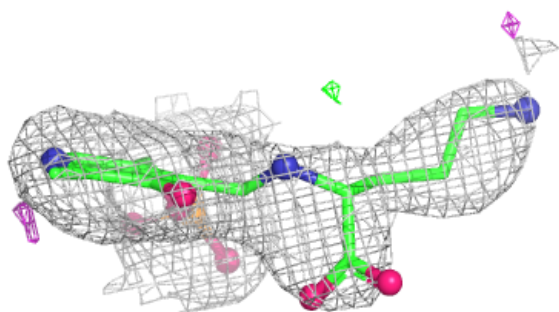
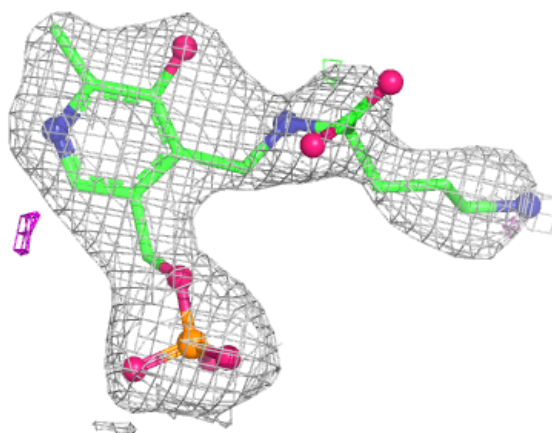
**Electron density around GET C 603:**

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



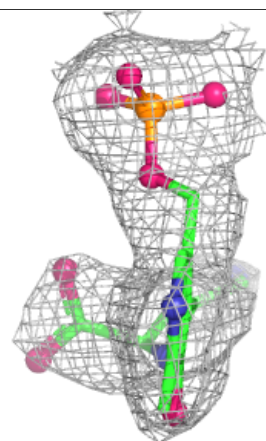
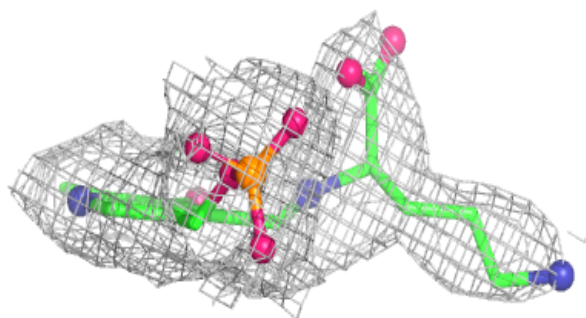
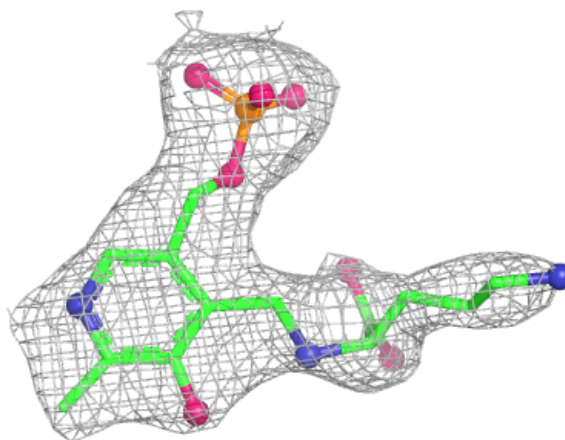
Electron density around ORX A 602:

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



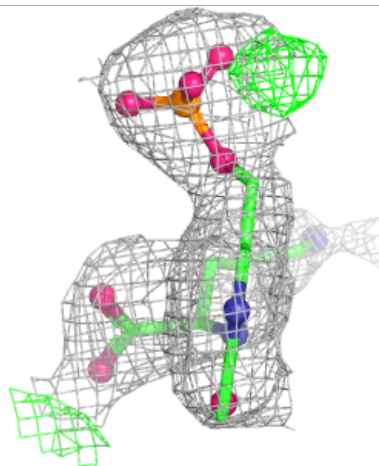
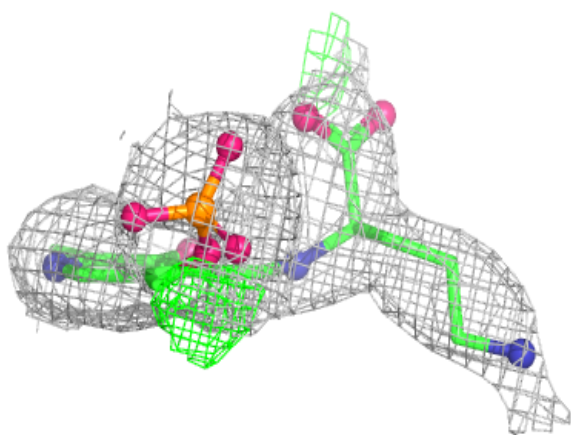
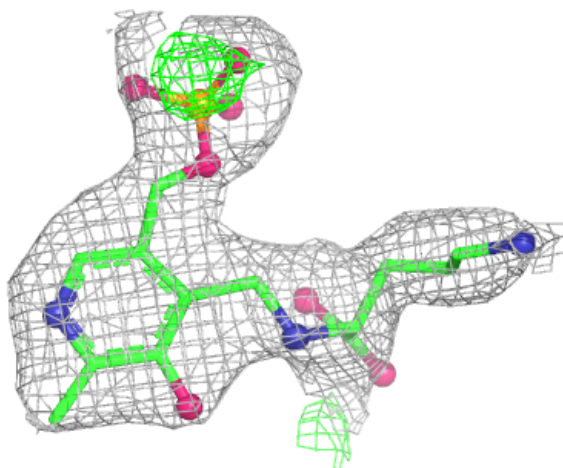
Electron density around ORX B 603:

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



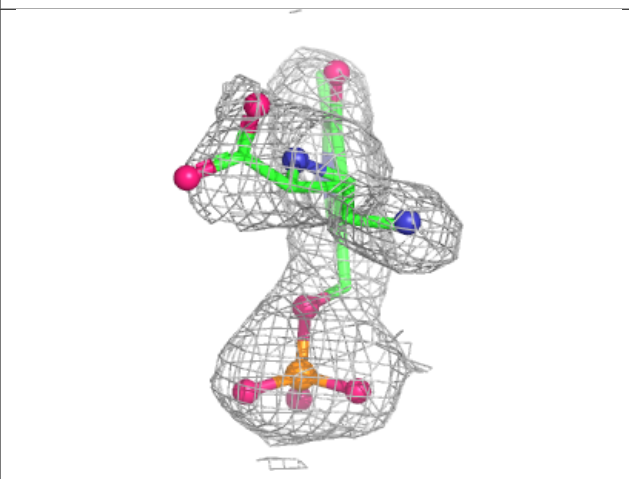
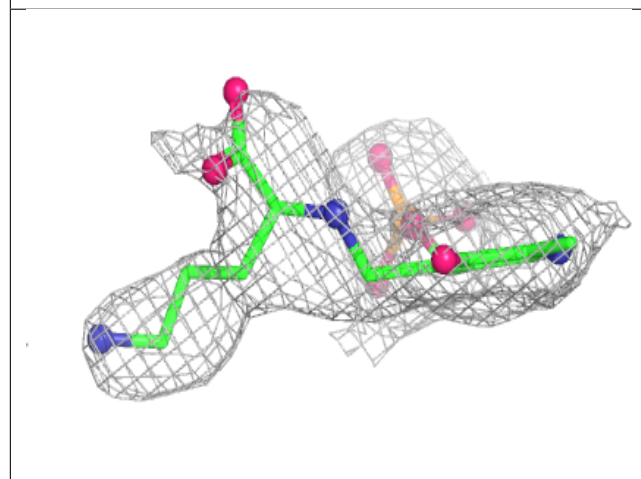
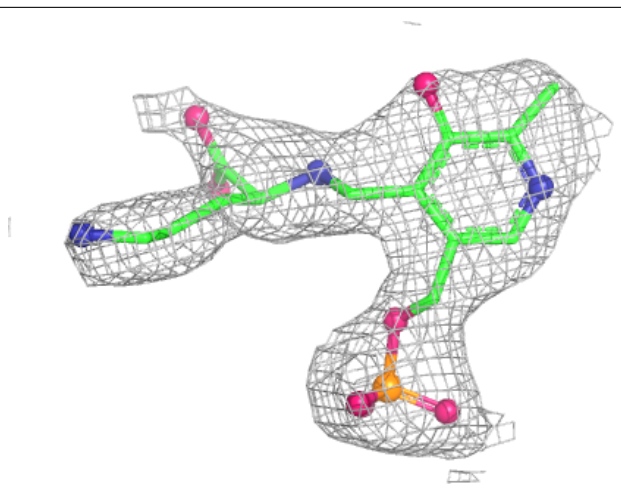
Electron density around ORX C 604:

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



Electron density around ORX D 426:

$2mF_o-DF_c$ (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.