



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:29 PM UTC

PDB ID : 2ET5 / pdb_00002et5
Title : Complex Between Ribostamycin and the 16S-RRNA A-Site
Authors : Westhof, E.
Deposited on : 2005-10-27
Resolution : 2.20 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 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

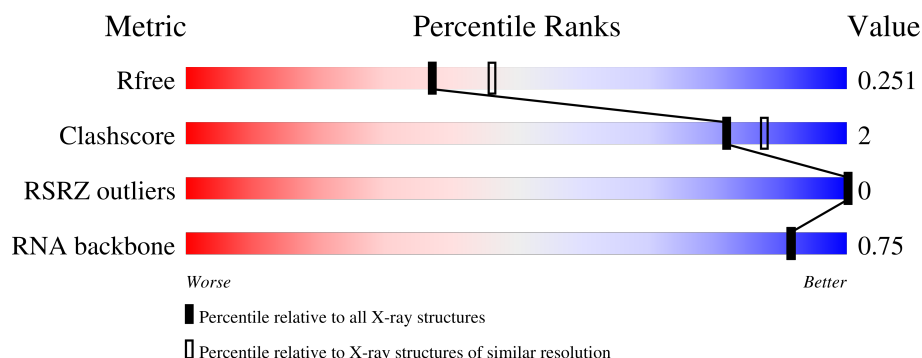
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)
RNA backbone	3983	1052 (2.50-1.90)

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	22	 77% 18% 5%
1	B	22	 91% 5% 5%

2 Entry composition [i](#)

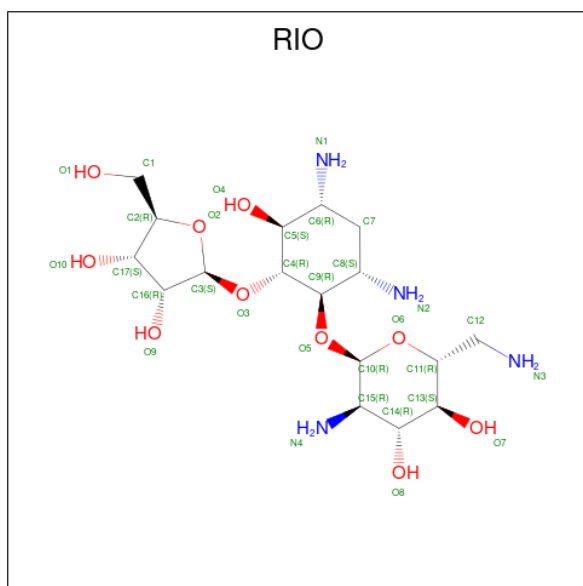
There are 4 unique types of molecules in this entry. The entry contains 1118 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 RNA chain called 5'-R(*CP*GP*CP*GP*UP*CP*AP*CP*AP*CP*CP*GP*GP*UP*GP*AP*AP*GP*UP*CP*GP*C)-3'.

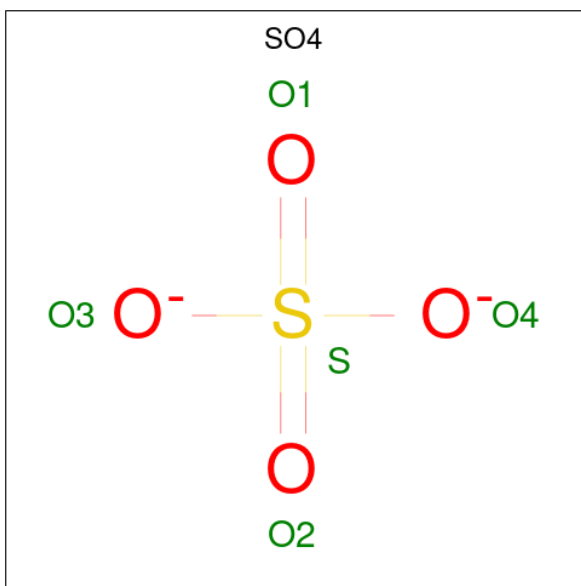
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	21	Total	C	N	O	P	0	0	0
			449	200	82	146	21			
1	B	21	Total	C	N	O	P	0	0	0
			449	200	82	146	21			

- Molecule 2 is RIBOSTAMYCIN (CCD ID: RIO) (formula: C₁₇H₃₄N₄O₁₀).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			31	17	4	10		
2	B	1	Total	C	N	O	0	0
			31	17	4	10		
2	B	1	Total	C	N	O	0	0
			31	17	4	10		
2	B	1	Total	C	N	O	0	0
			31	17	4	10		

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	39	Total	O	0	0
			39	39		
4	B	52	Total	O	0	0
			52	52		

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: 5'-R(*CP*GP*CP*GP*UP*CP*AP*CP*AP*CP*CP*GP*GP*UP*GP*AP*AP*GP*UP*CP*GP*C)-3'

Chain A:  77% 18% 5%



- Molecule 1: 5'-R(*CP*GP*CP*GP*UP*CP*AP*CP*AP*CP*CP*GP*GP*UP*GP*AP*AP*GP*UP*CP*GP*C)-3'

Chain B:  91% 5% 5%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	97.96Å 33.20Å 44.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	32.00 – 2.20 32.00 – 2.20	Depositor EDS
% Data completeness (in resolution range)	93.0 (32.00-2.20) 92.9 (32.00-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.35 (at 2.10Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.228 , 0.265 0.220 , 0.251	Depositor DCC
R_{free} test set	812 reflections (9.71%)	wwPDB-VP
Wilson B-factor (Å ²)	37.9	Xtriage
Anisotropy	0.461	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 48.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	1118	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.82% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SO4, RIO

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	0.38	0/501	0.61	0/779
1	B	0.38	0/501	0.62	0/779
All	All	0.38	0/1002	0.62	0/1558

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	449	0	229	4	0
1	B	449	0	229	0	0
2	A	31	0	34	1	0
2	B	93	0	102	0	0
3	B	5	0	0	0	0
4	A	39	0	0	0	0
4	B	52	0	0	0	0
All	All	1118	0	594	4	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.

All (4) 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:19:U:O4	2:A:54:RIO:N1	2.49	0.46
1:A:2:G:H2'	1:A:3:C:H6	1.82	0.43
1:A:2:G:H2'	1:A:3:C:C6	2.55	0.42
1:A:2:G:O2'	1:A:3:C:H5'	2.20	0.42

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	20/22 (90%)	1 (5%)	0
1	B	20/22 (90%)	1 (5%)	0
All	All	40/44 (90%)	2 (5%)	0

All (2) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	16	A
1	B	39	A

There are no RNA pucker outliers to report.

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](#)

5 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	RIO	B	51	-	32,33,33	2.18	16 (50%)	46,49,49	1.86	10 (21%)
2	RIO	B	53	-	32,33,33	2.16	12 (37%)	46,49,49	1.58	7 (15%)
2	RIO	B	52	-	32,33,33	2.09	13 (40%)	46,49,49	1.55	8 (17%)
3	SO4	B	55	-	4,4,4	0.40	0	6,6,6	0.11	0
2	RIO	A	54	-	32,33,33	2.09	14 (43%)	46,49,49	1.73	8 (17%)

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	RIO	B	51	-	-	1/12/68/68	0/3/3/3
2	RIO	B	52	-	-	1/12/68/68	0/3/3/3
2	RIO	A	54	-	-	1/12/68/68	0/3/3/3
2	RIO	B	53	-	-	0/12/68/68	0/3/3/3

All (55) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	52	RIO	O6-C10	4.38	1.53	1.41
2	B	51	RIO	C5-C6	4.17	1.62	1.53
2	B	53	RIO	O6-C10	3.99	1.52	1.41
2	B	53	RIO	O6-C11	3.92	1.54	1.44
2	B	51	RIO	O2-C2	3.92	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	54	RIO	C5-C6	3.85	1.61	1.53
2	B	53	RIO	C9-C4	3.83	1.60	1.52
2	B	53	RIO	C5-C6	3.82	1.61	1.53
2	B	52	RIO	C9-C4	3.79	1.60	1.52
2	B	52	RIO	O6-C11	3.76	1.53	1.44
2	A	54	RIO	C9-C4	3.67	1.59	1.52
2	B	51	RIO	O6-C10	3.61	1.51	1.41
2	B	52	RIO	C5-C6	3.59	1.60	1.53
2	B	53	RIO	O2-C2	3.59	1.53	1.45
2	B	52	RIO	O2-C2	3.58	1.53	1.45
2	B	51	RIO	O6-C11	3.58	1.53	1.44
2	A	54	RIO	O6-C10	3.50	1.50	1.41
2	A	54	RIO	O6-C11	3.41	1.52	1.44
2	A	54	RIO	O2-C2	3.26	1.52	1.45
2	B	53	RIO	C7-C8	3.14	1.60	1.53
2	A	54	RIO	C15-N4	3.14	1.52	1.47
2	B	51	RIO	C15-N4	3.06	1.51	1.47
2	B	52	RIO	C7-C8	3.04	1.60	1.53
2	B	51	RIO	C9-C4	3.03	1.58	1.52
2	B	53	RIO	C7-C6	3.02	1.60	1.53
2	B	51	RIO	O3-C4	2.90	1.51	1.43
2	B	51	RIO	O8-C14	2.84	1.50	1.43
2	B	53	RIO	C15-N4	2.81	1.51	1.47
2	A	54	RIO	C7-C6	2.80	1.59	1.53
2	B	51	RIO	C7-C6	2.78	1.59	1.53
2	A	54	RIO	O8-C14	2.74	1.49	1.43
2	B	53	RIO	O8-C14	2.68	1.49	1.43
2	A	54	RIO	O3-C4	2.66	1.50	1.43
2	B	53	RIO	C6-N1	2.56	1.57	1.47
2	A	54	RIO	C7-C8	2.53	1.59	1.53
2	B	52	RIO	C15-N4	2.44	1.51	1.47
2	B	52	RIO	O5-C9	-2.43	1.37	1.43
2	B	52	RIO	C6-N1	2.40	1.57	1.47
2	B	51	RIO	O5-C9	-2.39	1.37	1.43
2	B	51	RIO	C7-C8	2.39	1.58	1.53
2	B	52	RIO	C7-C6	2.38	1.58	1.53
2	B	51	RIO	C6-N1	2.36	1.56	1.47
2	A	54	RIO	O5-C9	-2.36	1.37	1.43
2	B	52	RIO	O3-C4	2.32	1.49	1.43
2	B	51	RIO	O2-C3	-2.31	1.37	1.41
2	B	51	RIO	O9-C16	-2.29	1.37	1.43
2	B	53	RIO	O3-C4	2.29	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	54	RIO	C6-N1	2.28	1.56	1.47
2	B	53	RIO	O5-C9	-2.27	1.38	1.43
2	B	52	RIO	O8-C14	2.17	1.48	1.43
2	B	51	RIO	C9-C8	-2.13	1.48	1.53
2	B	52	RIO	O2-C3	-2.12	1.37	1.41
2	B	51	RIO	C10-C15	2.11	1.56	1.52
2	A	54	RIO	O2-C3	-2.07	1.38	1.41
2	A	54	RIO	O4-C5	2.04	1.48	1.43

All (33) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	51	RIO	O3-C3-O2	6.89	118.40	111.37
2	A	54	RIO	O3-C3-O2	6.41	117.91	111.37
2	B	51	RIO	O5-C10-C15	4.60	115.60	108.08
2	B	53	RIO	C3-O3-C4	4.43	128.49	117.98
2	B	52	RIO	C3-O3-C4	4.21	127.97	117.98
2	A	54	RIO	C10-O5-C9	4.21	127.95	117.98
2	B	53	RIO	C10-O5-C9	4.02	127.51	117.98
2	B	51	RIO	C10-O5-C9	3.87	127.14	117.98
2	A	54	RIO	O5-C10-C15	3.85	114.37	108.08
2	B	52	RIO	C10-O5-C9	3.84	127.08	117.98
2	B	53	RIO	O5-C10-C15	3.83	114.35	108.08
2	B	52	RIO	O5-C10-C15	3.08	113.11	108.08
2	B	51	RIO	O2-C2-C1	3.06	115.68	109.22
2	B	51	RIO	C3-O3-C4	2.80	124.62	117.98
2	A	54	RIO	O2-C2-C1	2.66	114.84	109.22
2	B	52	RIO	O6-C11-C12	2.62	111.09	106.07
2	B	53	RIO	O2-C2-C17	-2.51	100.17	105.15
2	B	52	RIO	O2-C2-C17	-2.50	100.19	105.15
2	B	52	RIO	O3-C3-O2	2.43	113.85	111.37
2	B	53	RIO	O6-C11-C12	2.43	110.74	106.07
2	B	51	RIO	C3-C16-C17	2.23	105.06	102.29
2	A	54	RIO	C3-O3-C4	2.23	123.26	117.98
2	B	51	RIO	C3-O2-C2	2.21	114.18	105.76
2	B	52	RIO	O6-C10-C15	-2.15	105.33	110.08
2	B	53	RIO	O6-C10-C15	-2.14	105.35	110.08
2	B	51	RIO	C10-C15-C14	2.09	115.53	110.29
2	B	53	RIO	O2-C2-C1	2.06	113.58	109.22
2	B	52	RIO	C10-C15-N4	-2.06	106.50	110.20
2	A	54	RIO	O1-C1-C2	-2.05	104.35	111.33
2	A	54	RIO	C3-O2-C2	2.05	113.57	105.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	54	RIO	O6-C10-C15	-2.03	105.59	110.08
2	B	51	RIO	O6-C10-C15	-2.01	105.63	110.08
2	B	51	RIO	O2-C2-C17	-2.00	101.18	105.15

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	54	RIO	C4-C9-O5-C10
2	B	51	RIO	C4-C9-O5-C10
2	B	52	RIO	O6-C10-O5-C9

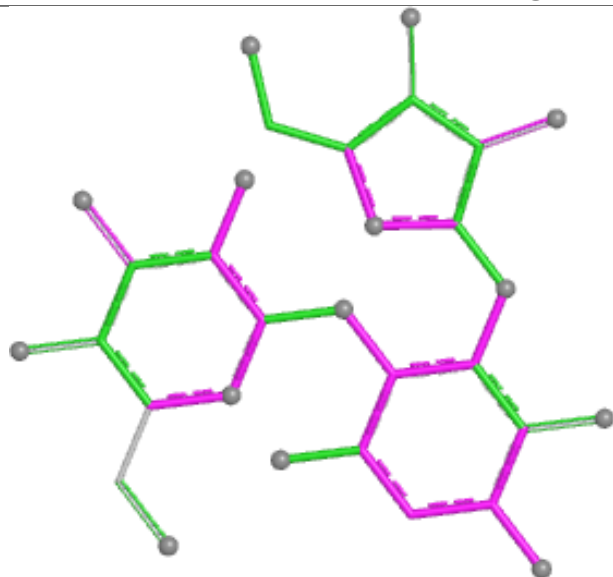
There are no ring outliers.

1 monomer is involved in 1 short contact:

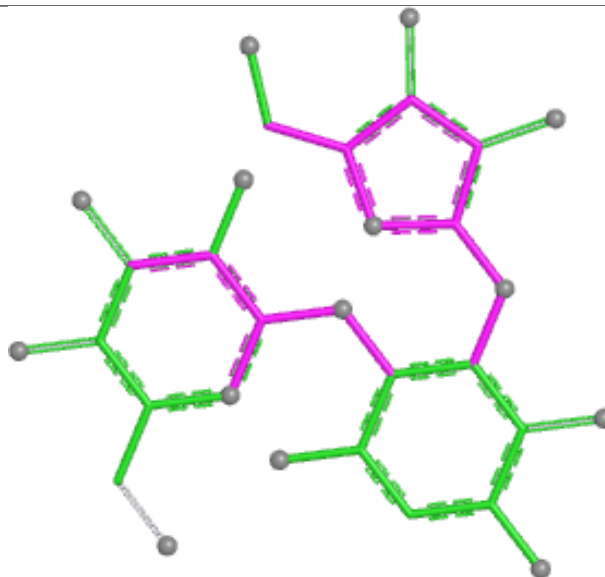
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	54	RIO	1	0

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.

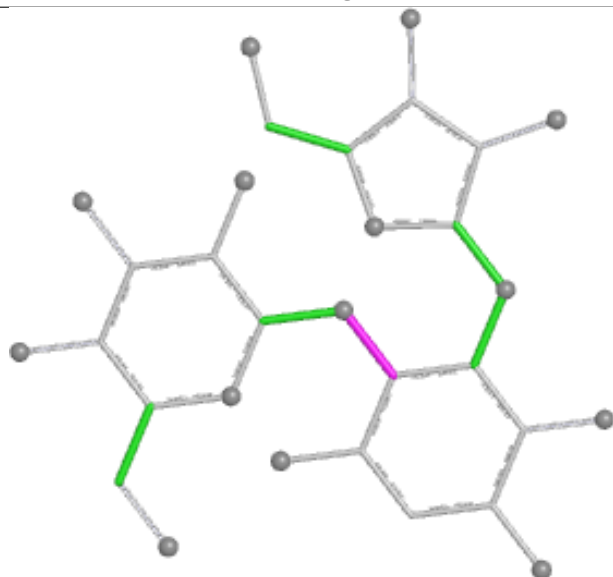
Ligand RIO B 51



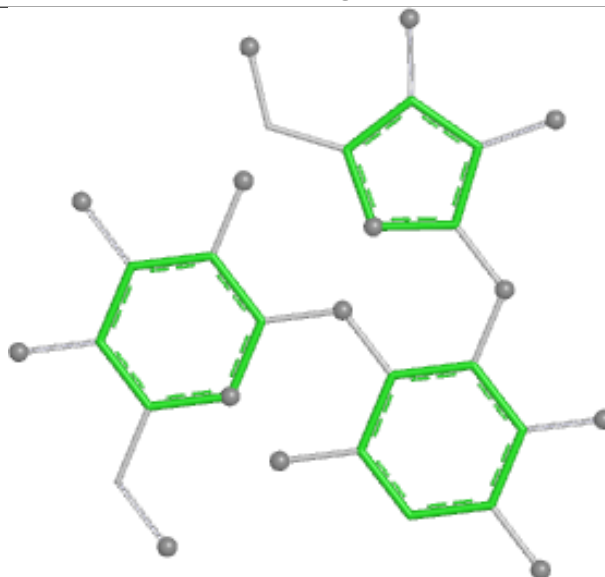
Bond lengths



Bond angles

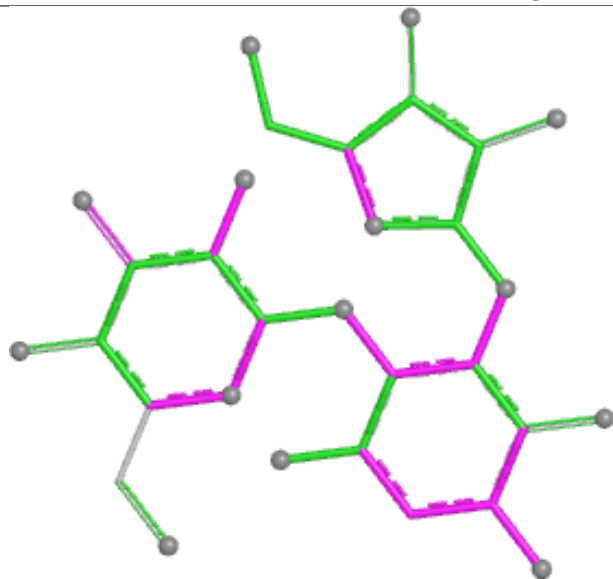


Torsions

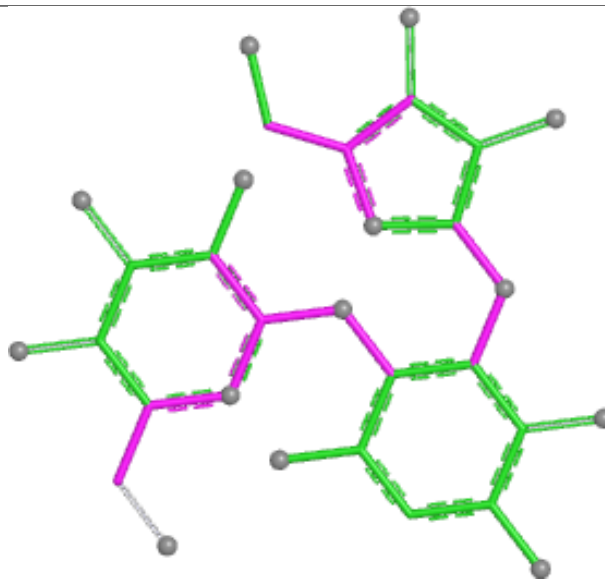


Rings

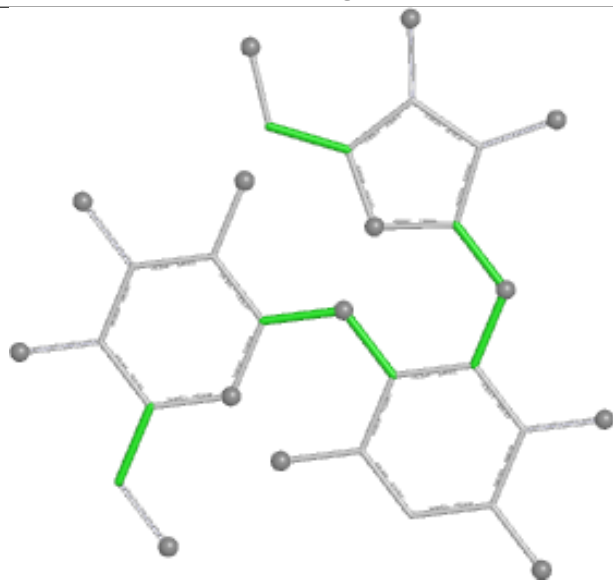
Ligand RIO B 53



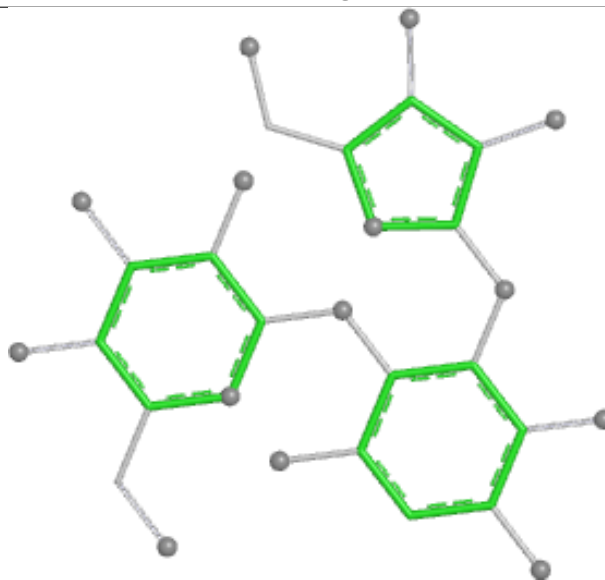
Bond lengths



Bond angles

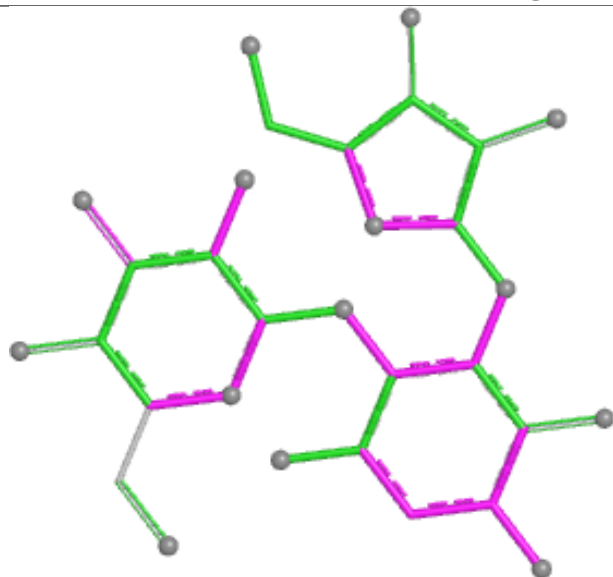


Torsions

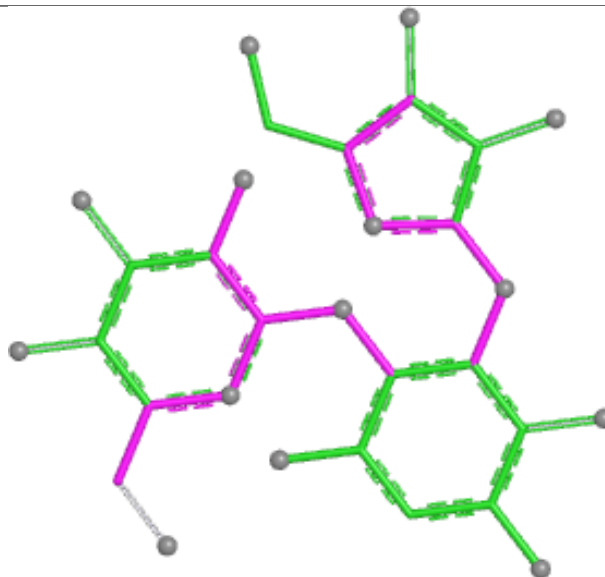


Rings

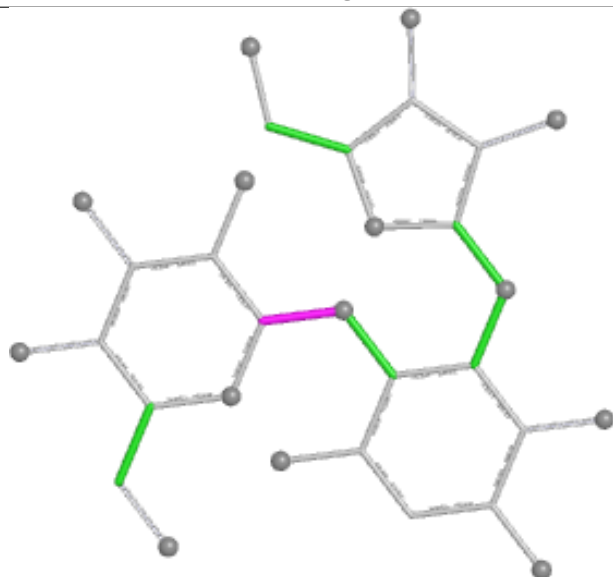
Ligand RIO B 52



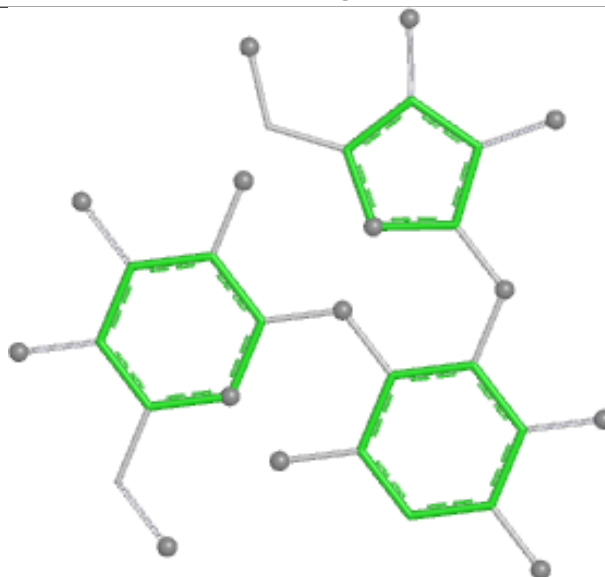
Bond lengths



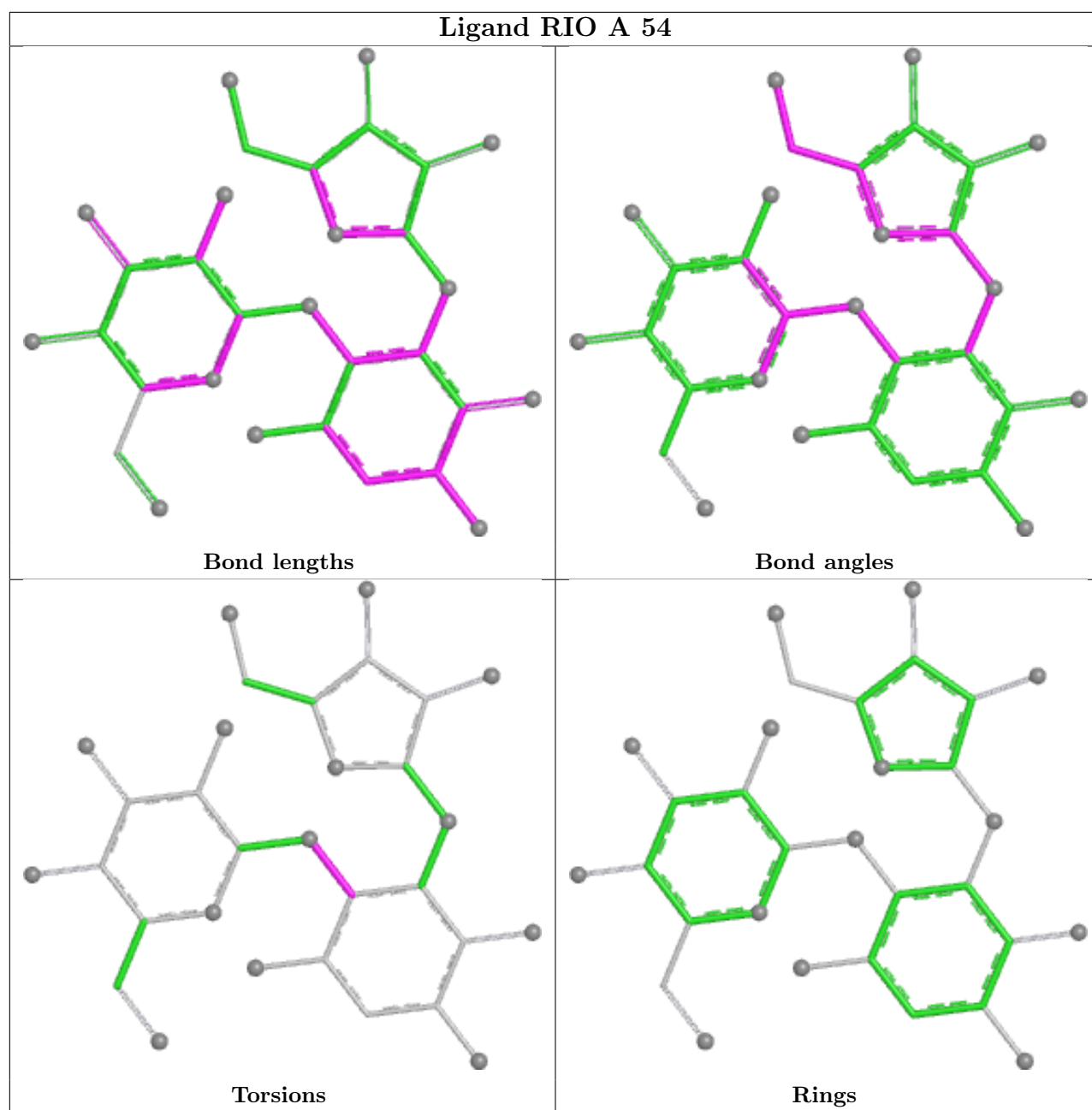
Bond angles



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	21/22 (95%)	-0.76	0 100 100	24, 30, 41, 50	0
1	B	21/22 (95%)	-0.70	0 100 100	24, 30, 38, 45	0
All	All	42/44 (95%)	-0.73	0 100 100	24, 30, 41, 50	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.

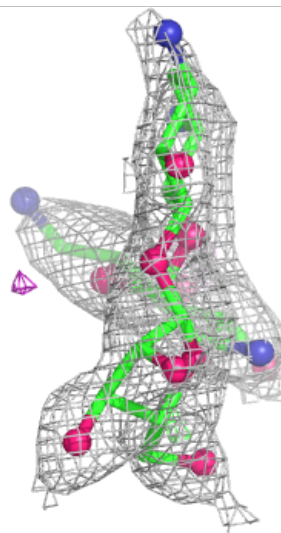
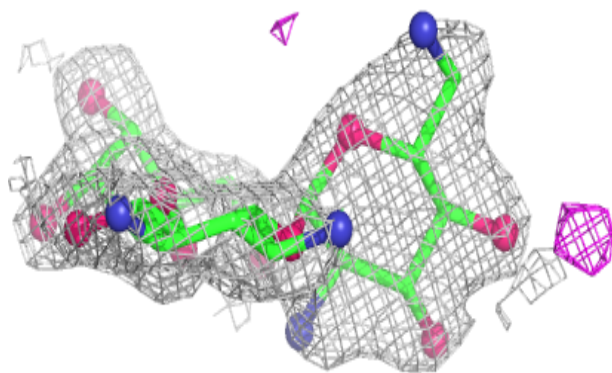
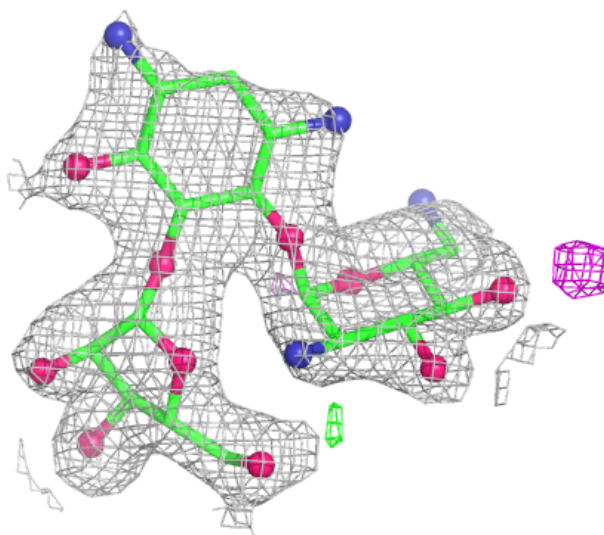
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	SO4	B	55	5/5	0.84	0.19	75,76,76,77	0
2	RIO	B	53	31/31	0.91	0.10	30,36,38,42	0
2	RIO	A	54	31/31	0.92	0.09	25,32,36,38	0
2	RIO	B	51	31/31	0.92	0.09	16,22,30,34	0
2	RIO	B	52	31/31	0.93	0.09	22,24,32,37	0

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.

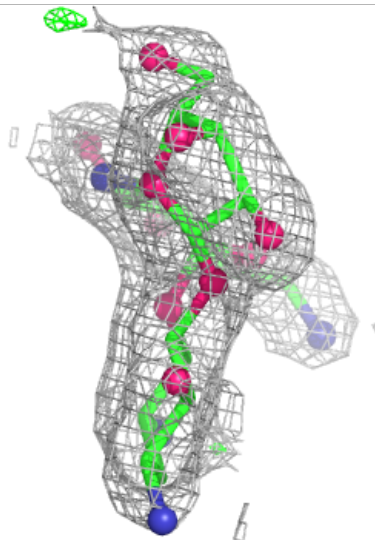
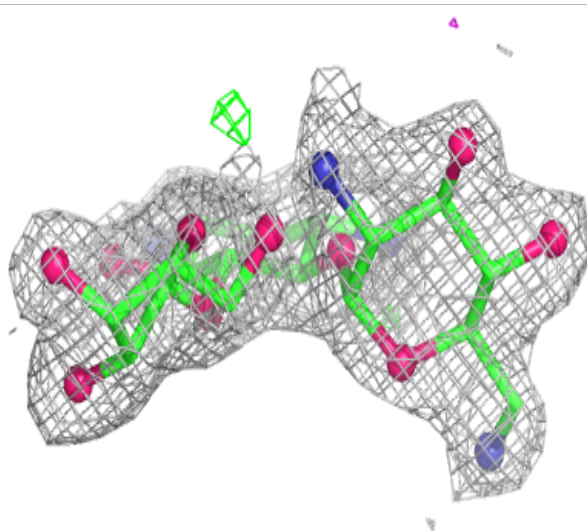
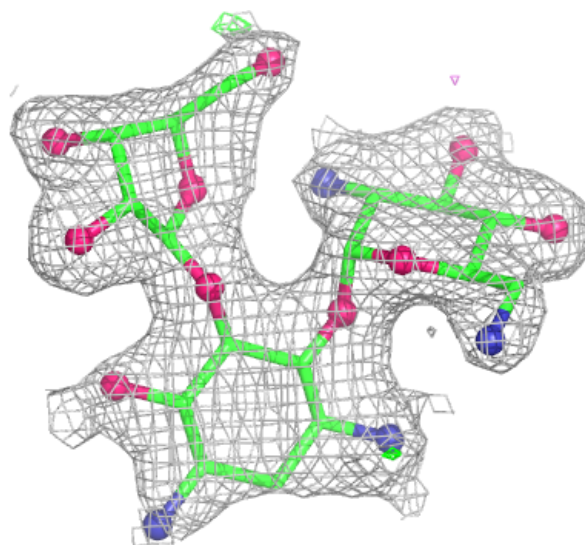
Electron density around RIO B 53:

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



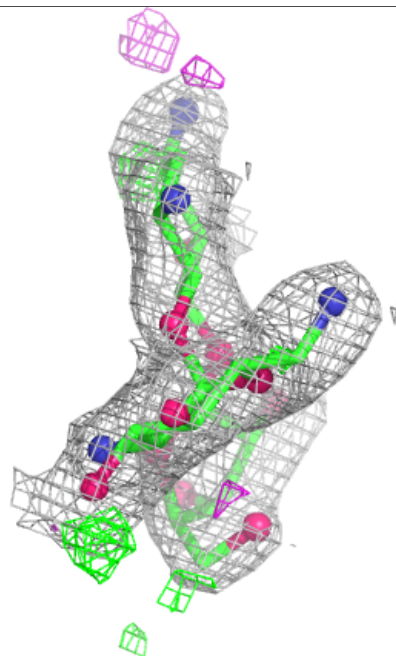
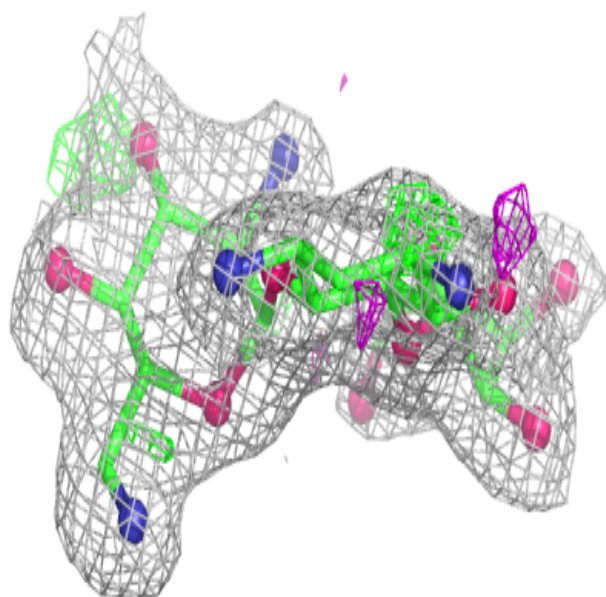
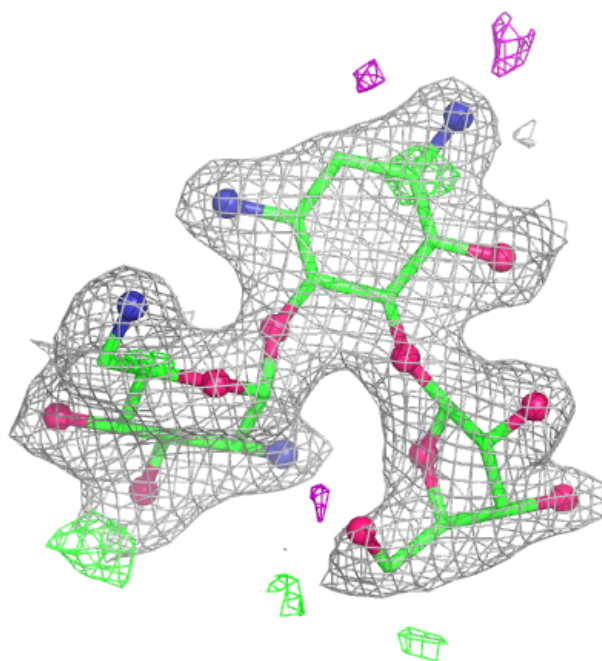
Electron density around RIO A 54:

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



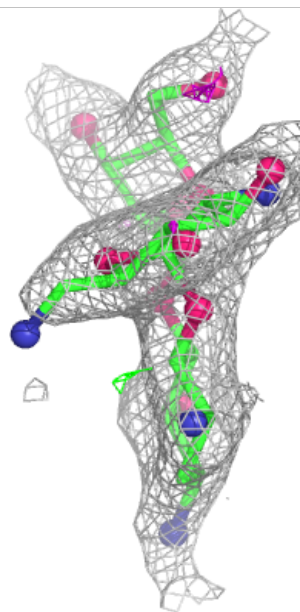
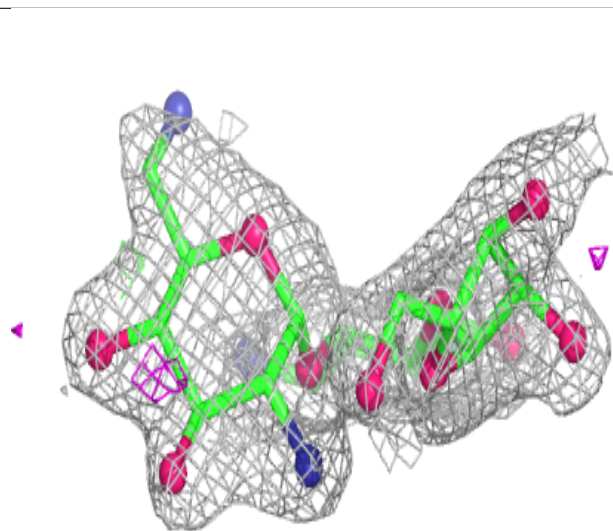
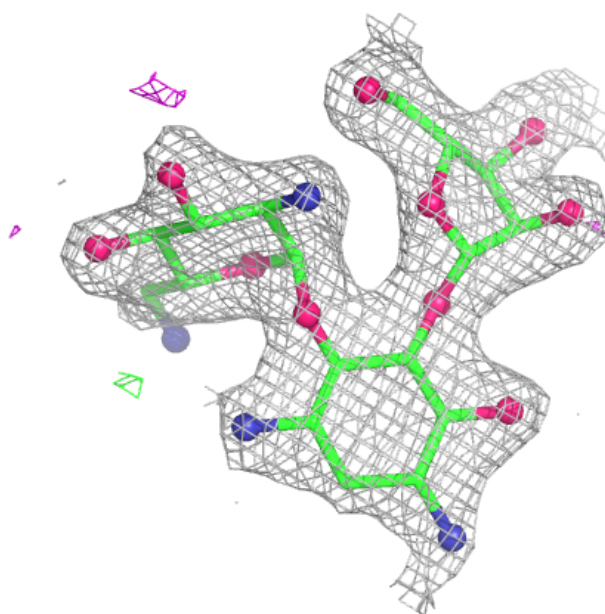
Electron density around RIO B 51:

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



Electron density around RIO B 52:

$2mF_o-DF_c$ (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.