wwPDB X-ray Structure Validation Summary Report (i)

Nov 5, 2026 – 06:08 PM EST

PDB ID	:	37ZC / pdb_000037zc
Title	:	Tri-complex of Compound 2, KRas WT, and CypA
Authors	:	Tomlinson, A.C.A.; Chen, A.; Yano, J.K.
Deposited on	:	2026-08-14
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 (i) 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 (i)) were used in the production of this report:

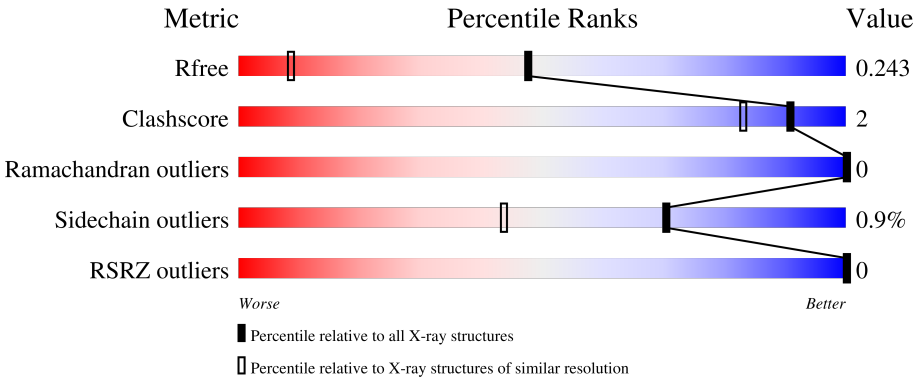
MolProbity	:	4-5-2 with Phenix2.2
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.2
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

1 Overall quality at a glance (i)

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 <=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	B	170	91% 8%
1	C	170	94% 5%
2	D	166	94%
2	E	166	91% 8%

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 6169 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 Isoform 2B of GTPase KRas.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	167	Total	C	N	O	S	0	1	0
			1342	842	230	265	5			
1	C	170	Total	C	N	O	S	0	0	0
			1359	851	233	271	4			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	0	SER	-	expression tag	UNP P01116
B	51	SER	CYS	conflict	UNP P01116
B	80	LEU	CYS	conflict	UNP P01116
B	118	SER	CYS	conflict	UNP P01116
C	0	SER	-	expression tag	UNP P01116
C	51	SER	CYS	conflict	UNP P01116
C	80	LEU	CYS	conflict	UNP P01116
C	118	SER	CYS	conflict	UNP P01116

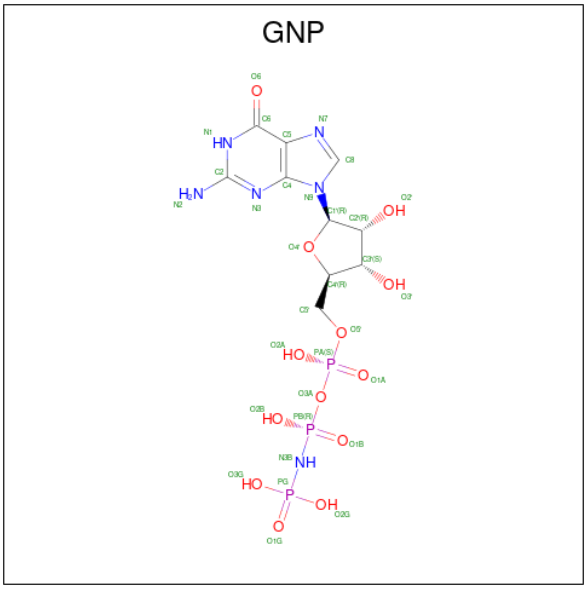
- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	163	Total	C	N	O	S	0	0	0
			1245	789	216	233	7			
2	E	165	Total	C	N	O	S	0	0	0
			1259	797	218	236	8			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	0	SER	-	expression tag	UNP P62937
D	52	SER	CYS	conflict	UNP P62937
E	0	SER	-	expression tag	UNP P62937
E	52	SER	CYS	conflict	UNP P62937

- Molecule 3 is PHOSPHOAMINOPHOSPHONIC ACID-GUANYLATE ESTER (CCD ID: GNP) (formula: $C_{10}H_{17}N_6O_{13}P_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	C	N	O	P	0	0
			32	10	6	13	3		
3	C	1	Total	C	N	O	P	0	0
			32	10	6	13	3		

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

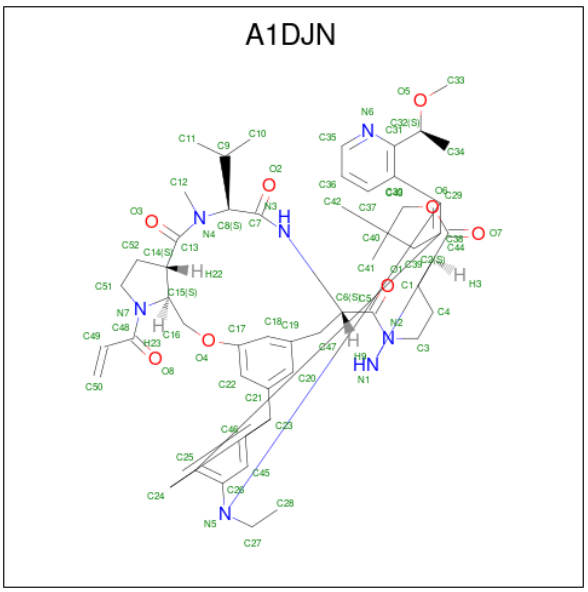
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Mg	0	0
			1	1		
4	C	1	Total	Mg	0	0
			1	1		

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Cl	0	0
			1	1		
5	C	1	Total	Cl	0	0
			1	1		

- Molecule 6 is (1M,9S,13S,16S,19S,21S,25S,32M)-33-ethyl-32-{2-[(1S)-1-methoxyethyl]pyridin-3-yl}-15,29,29-trimethyl-16-(propan-2-yl)-10-(prop-2-enoyl)-7,27-dioxa-10,15,18,21,33,39-hexaazaheptacyclo[29.5.2.1 2,6 .1 4,19 .1 21,25 .0 9,13 .0 34,38]hentetraconta-1(36),2(41),3,5,31,34,37-heptaene-14,17,20,26-tetrone (non-preferred name) (CCD ID: A1DJN) (formula:

$C_{52}H_{65}N_7O_8$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	D	1	Total C N O 67 52 7 8	0	0
6	E	1	Total C N O 67 52 7 8	0	0

- Molecule 7 is water.

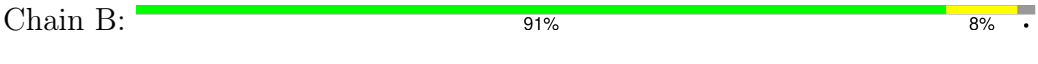
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	B	212	Total O 212 212	0	0
7	D	178	Total O 178 178	0	0
7	C	210	Total O 210 210	0	0
7	E	162	Total O 162 162	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

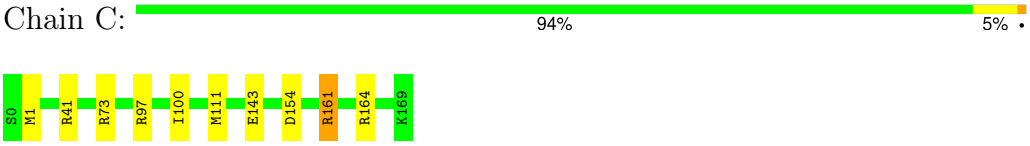
• Molecule 1: Isoform 2B of GTPase KRas

Chain B:



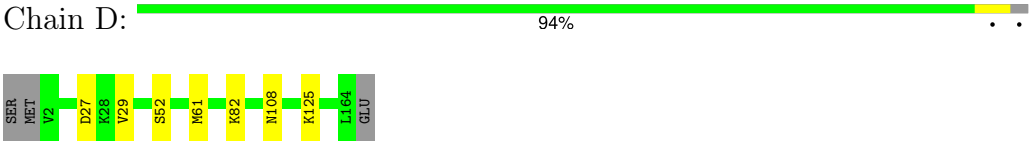
• Molecule 1: Isoform 2B of GTPase KRas

Chain C:



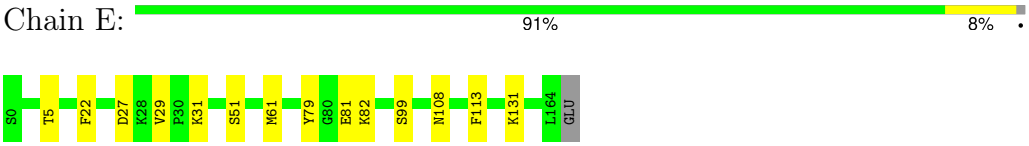
• Molecule 2: Peptidyl-prolyl cis-trans isomerase A

Chain D:



• Molecule 2: Peptidyl-prolyl cis-trans isomerase A

Chain E:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	48.12Å 102.10Å 66.12Å 90.00° 90.53° 90.00°	Depositor
Resolution (Å)	43.53 – 1.44 43.53 – 1.44	Depositor EDS
% Data completeness (in resolution range)	96.3 (43.53-1.44) 96.3 (43.53-1.44)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.48 (at 1.44Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, R_{free}	0.180 , 0.243 0.180 , 0.243	Depositor DCC
R_{free} test set	5529 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å^2)	18.8	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 27.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	0.166 for h,-k,-l	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	6169	wwPDB-VP
Average B, all atoms (Å^2)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.72% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: GNP, CL, MG, A1DJN

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	B	0.93	0/1363	1.25	2/1838 (0.1%)
1	C	0.97	1/1380 (0.1%)	1.30	4/1859 (0.2%)
2	D	0.96	1/1273 (0.1%)	1.22	1/1707 (0.1%)
2	E	1.03	1/1287 (0.1%)	1.27	3/1725 (0.2%)
All	All	0.97	3/5303 (0.1%)	1.26	10/7129 (0.1%)

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
1	C	0	4
All	All	0	5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	143	GLU	CD-OE2	8.70	1.41	1.25
2	E	81	GLU	CD-OE2	5.41	1.35	1.25
2	D	52	SER	CA-CB	5.05	1.62	1.53

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	164	ARG	NE-CZ-NH1	-7.07	114.44	121.50
1	C	164	ARG	NE-CZ-NH2	6.45	125.00	119.20
1	C	154	ASP	CA-CB-CG	6.33	118.93	112.60
2	E	27	ASP	CA-CB-CG	5.42	118.02	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	164	ARG	NE-CZ-NH2	5.16	123.84	119.20

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	41	ARG	Sidechain
1	C	161	ARG	Sidechain
1	C	41	ARG	Sidechain
1	C	73	ARG	Sidechain
1	C	97	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	B	1342	0	1327	8	0
1	C	1359	0	1343	2	0
2	D	1245	0	1210	2	0
2	E	1259	0	1227	6	0
3	B	32	0	13	0	0
3	C	32	0	13	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
6	D	67	0	0	0	0
6	E	67	0	0	0	0
7	B	212	0	0	0	0
7	C	210	0	0	0	0
7	D	178	0	0	0	0
7	E	162	0	0	2	0
All	All	6169	0	5133	18	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 18 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:72[A]:MET:HE1	1:B:99:GLN:OE1	1.85	0.77
1:B:24:ILE:HG22	1:B:25:GLN:HG3	1.81	0.61
1:B:126:ASP:HB2	1:B:129:GLN:HG3	1.85	0.58
1:C:100:ILE:HG21	1:C:111:MET:HE2	1.88	0.55
1:B:72[A]:MET:CE	1:B:99:GLN:OE1	2.57	0.52

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	B	166/170 (98%)	163 (98%)	3 (2%)	0	100	100
1	C	168/170 (99%)	163 (97%)	5 (3%)	0	100	100
2	D	161/166 (97%)	155 (96%)	6 (4%)	0	100	100
2	E	163/166 (98%)	156 (96%)	7 (4%)	0	100	100
All	All	658/672 (98%)	637 (97%)	21 (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	B	148/150 (99%)	147 (99%)	1 (1%)	76 53
1	C	150/150 (100%)	150 (100%)	0	100 100
2	D	130/134 (97%)	128 (98%)	2 (2%)	57 24
2	E	132/134 (98%)	130 (98%)	2 (2%)	57 24
All	All	560/568 (99%)	555 (99%)	5 (1%)	70 44

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	54	ASP
2	D	29	VAL
2	D	61	MET
2	E	29	VAL
2	E	61	MET

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

Mol	Chain	Res	Type
1	B	25	GLN
1	C	61	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)

Of 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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	$\#\|Z\| > 2$
6	A1DJN	D	201	-	72,74,74	1.03	5 (6%)	90,110,110	1.07	7 (7%)
3	GNP	C	201	4	34,34,34	1.78	6 (17%)	47,54,54	1.25	4 (8%)
3	GNP	B	201	4	34,34,34	1.38	6 (17%)	47,54,54	1.08	3 (6%)
6	A1DJN	E	201	-	72,74,74	1.14	8 (11%)	90,110,110	1.20	8 (8%)

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
6	A1DJN	D	201	-	-	12/78/101/101	0/1/8/8
3	GNP	C	201	4	-	4/18/38/38	0/3/3/3
3	GNP	B	201	4	-	4/18/38/38	0/3/3/3
6	A1DJN	E	201	-	-	12/78/101/101	0/1/8/8

The worst 5 of 25 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	201	GNP	PG-O2G	-4.98	1.43	1.56
3	C	201	GNP	PG-O1G	4.98	1.53	1.46
3	C	201	GNP	PG-O3G	-4.93	1.43	1.56
6	E	201	A1DJN	C49-C48	-4.47	1.37	1.49
3	B	201	GNP	PG-O1G	4.39	1.52	1.46

The worst 5 of 22 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	201	A1DJN	C49-C48-N7	4.84	123.20	117.82
3	C	201	GNP	O1G-PG-N3B	-4.62	104.97	111.77
3	B	201	GNP	O1G-PG-N3B	-4.47	105.18	111.77
6	E	201	A1DJN	O8-C48-N7	-4.16	116.63	120.23
6	D	201	A1DJN	C49-C48-N7	4.11	122.39	117.82

There are no chirality outliers.

5 of 32 torsion outliers are listed below:

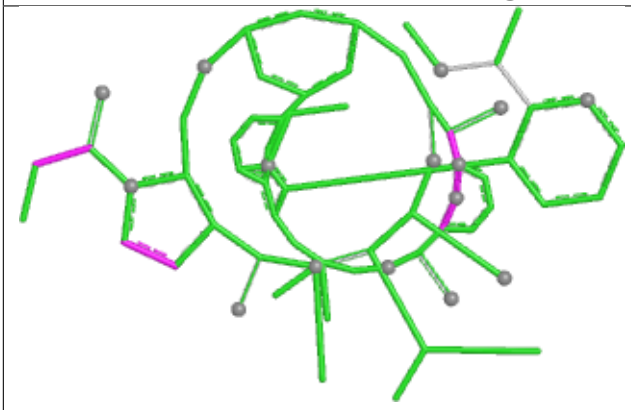
Mol	Chain	Res	Type	Atoms
3	B	201	GNP	PB-N3B-PG-O1G
3	B	201	GNP	PG-N3B-PB-O1B
3	B	201	GNP	PG-N3B-PB-O3A
3	C	201	GNP	PB-N3B-PG-O1G
3	C	201	GNP	PG-N3B-PB-O1B

There are no ring outliers.

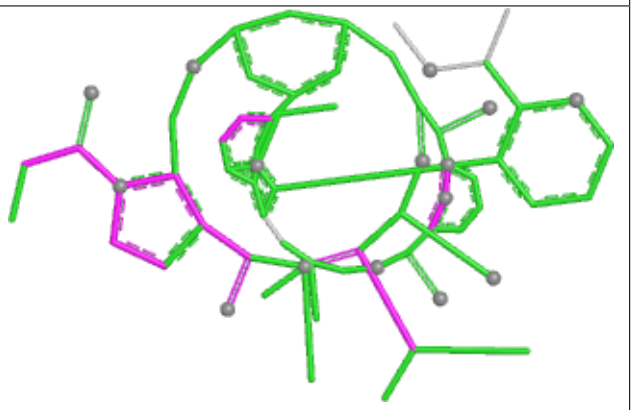
No monomer is involved in short contacts.

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 then 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.

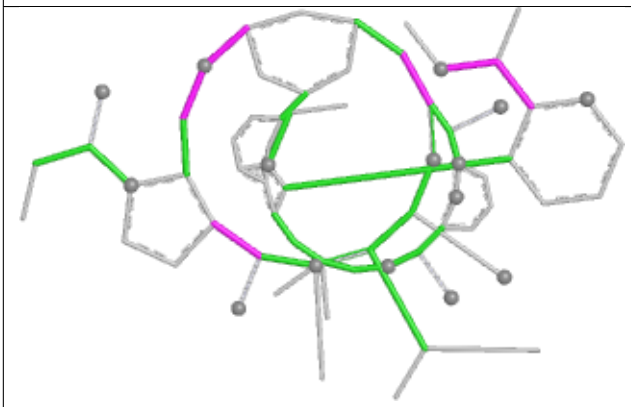
Ligand A1DJN D 201



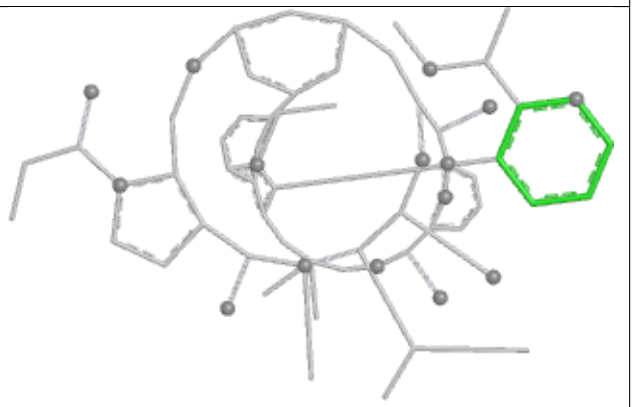
Bond lengths



Bond angles

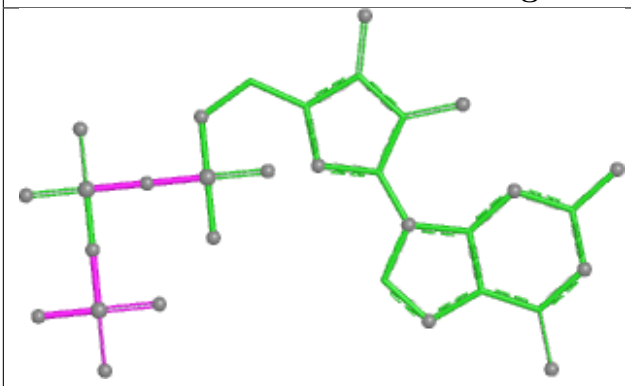


Torsions

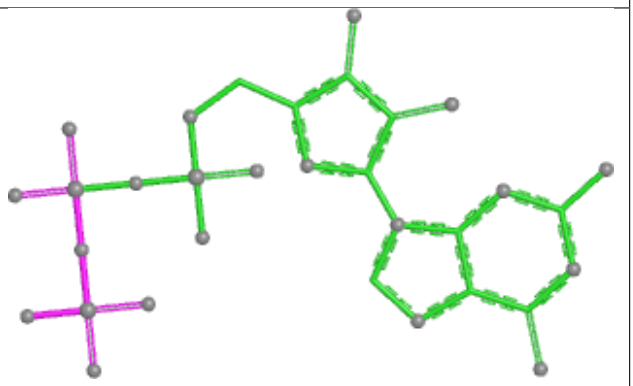


Rings

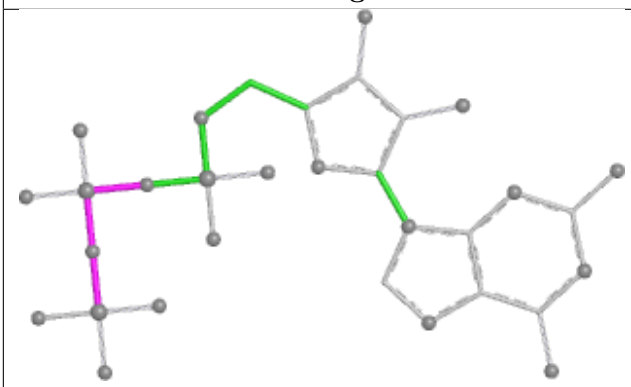
Ligand GNP C 201



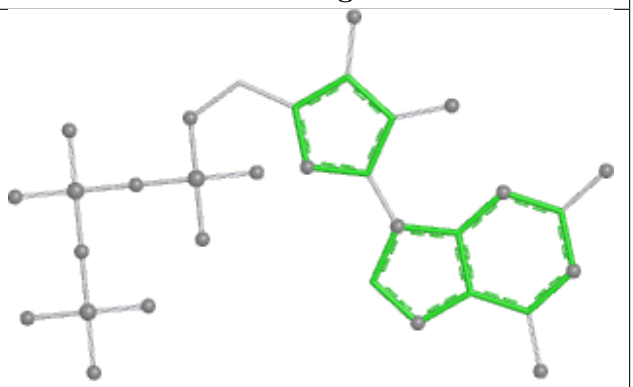
Bond lengths



Bond angles

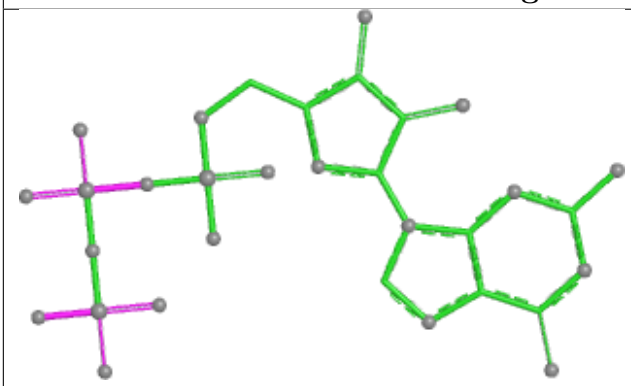


Torsions

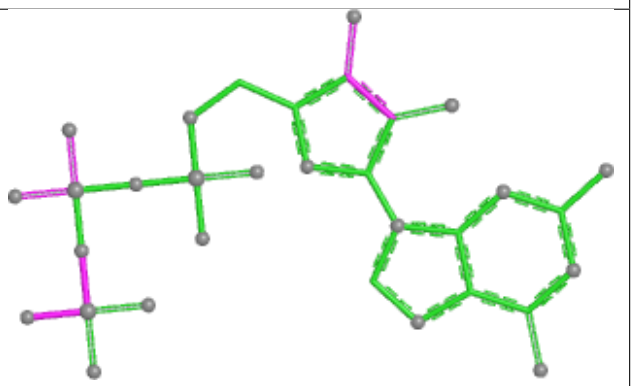


Rings

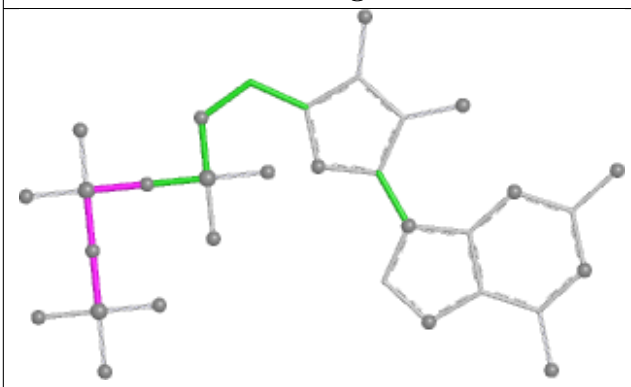
Ligand GNP B 201



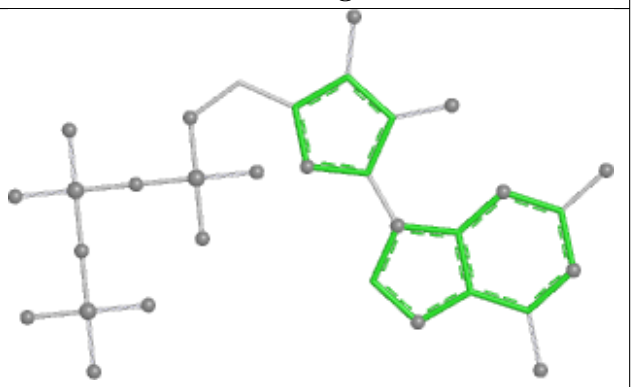
Bond lengths



Bond angles

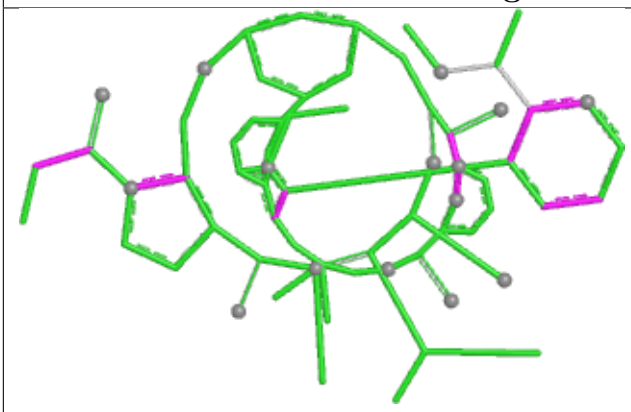


Torsions

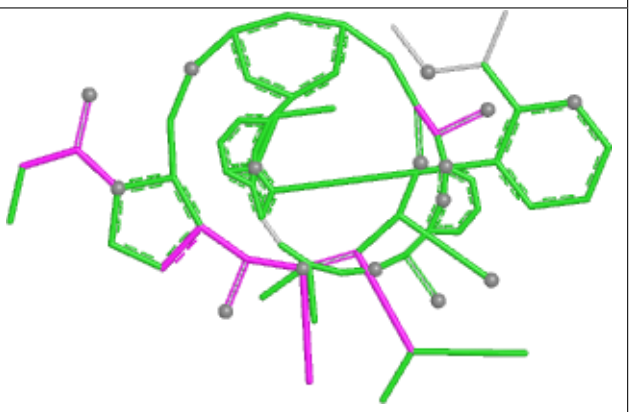


Rings

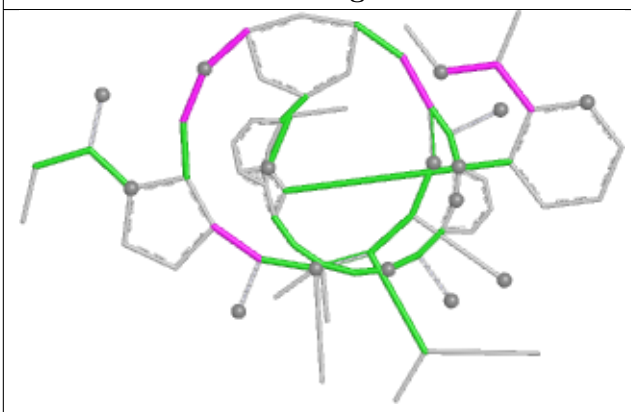
Ligand A1DJN E 201



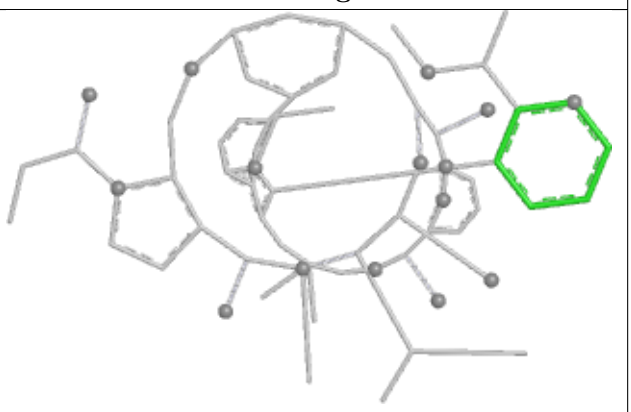
Bond lengths



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

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	B	167/170 (98%)	-1.08	0	100	100	9, 23, 33, 39	1 (0%)
1	C	170/170 (100%)	-1.07	0	100	100	15, 23, 34, 42	0
2	D	163/166 (98%)	-1.17	0	100	100	14, 19, 26, 33	0
2	E	165/166 (99%)	-1.12	0	100	100	14, 19, 26, 33	0
All	All	665/672 (98%)	-1.11	0	100	100	9, 21, 32, 42	1 (0%)

There are no RSRZ outliers to report.

6.2 Non-standard residues in protein, DNA, RNA chains

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

6.3 Carbohydrates

There are no oligosaccharides in this entry.

6.4 Ligands

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^{th} 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
6	A1DJN	D	201	67/67	0.99	0.03	12,16,21,28	0
6	A1DJN	E	201	67/67	0.99	0.03	13,17,24,33	0
4	MG	B	202	1/1	1.00	0.02	17,17,17,17	0
4	MG	C	202	1/1	1.00	0.02	19,19,19,19	0

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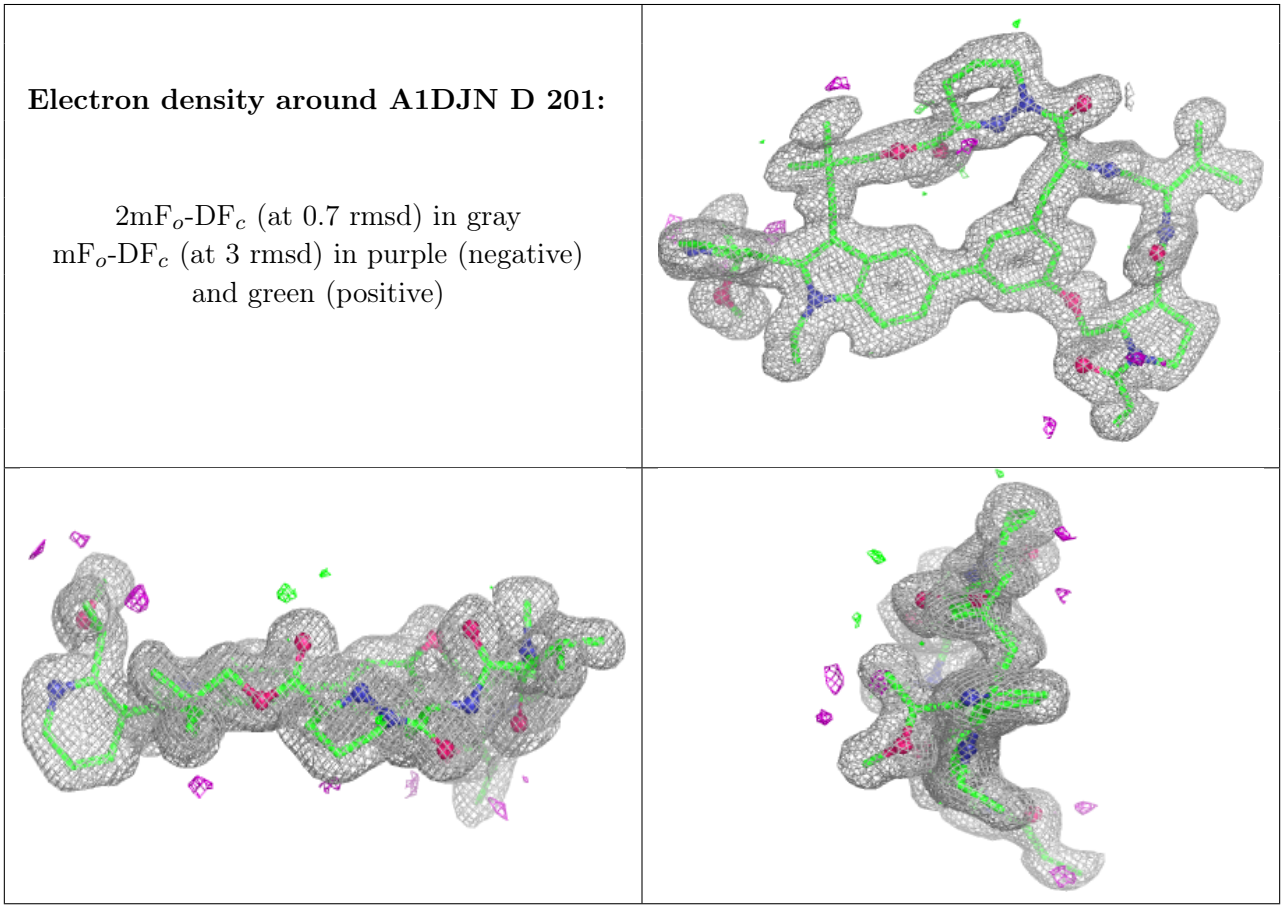
Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	CL	B	203	1/1	1.00	0.06	24,24,24,24	0
5	CL	C	203	1/1	1.00	0.02	24,24,24,24	0
3	GNP	B	201	32/32	1.00	0.02	16,21,24,26	0
3	GNP	C	201	32/32	1.00	0.02	16,23,26,28	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.

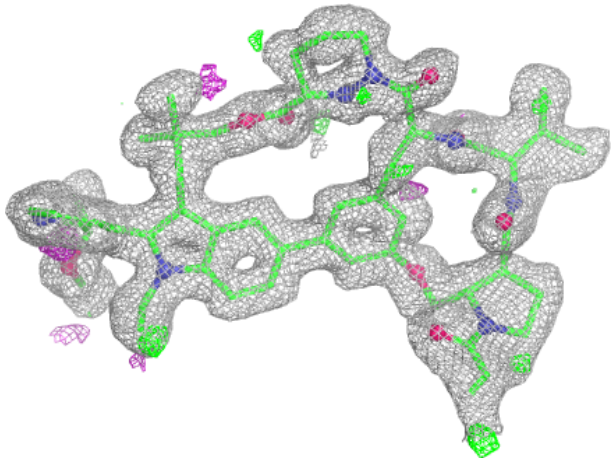
Electron density around A1DJN D 201:

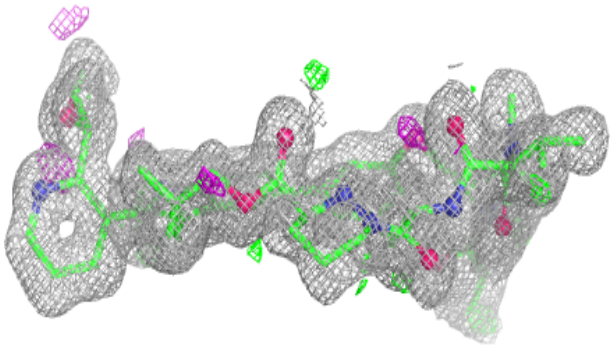
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

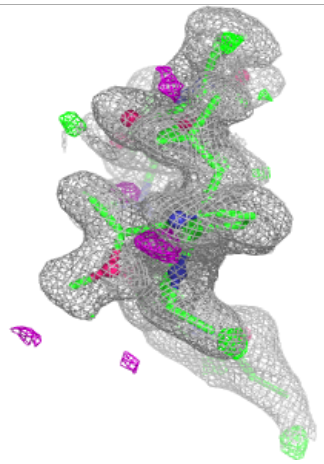


Electron density around A1DJN E 201:

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

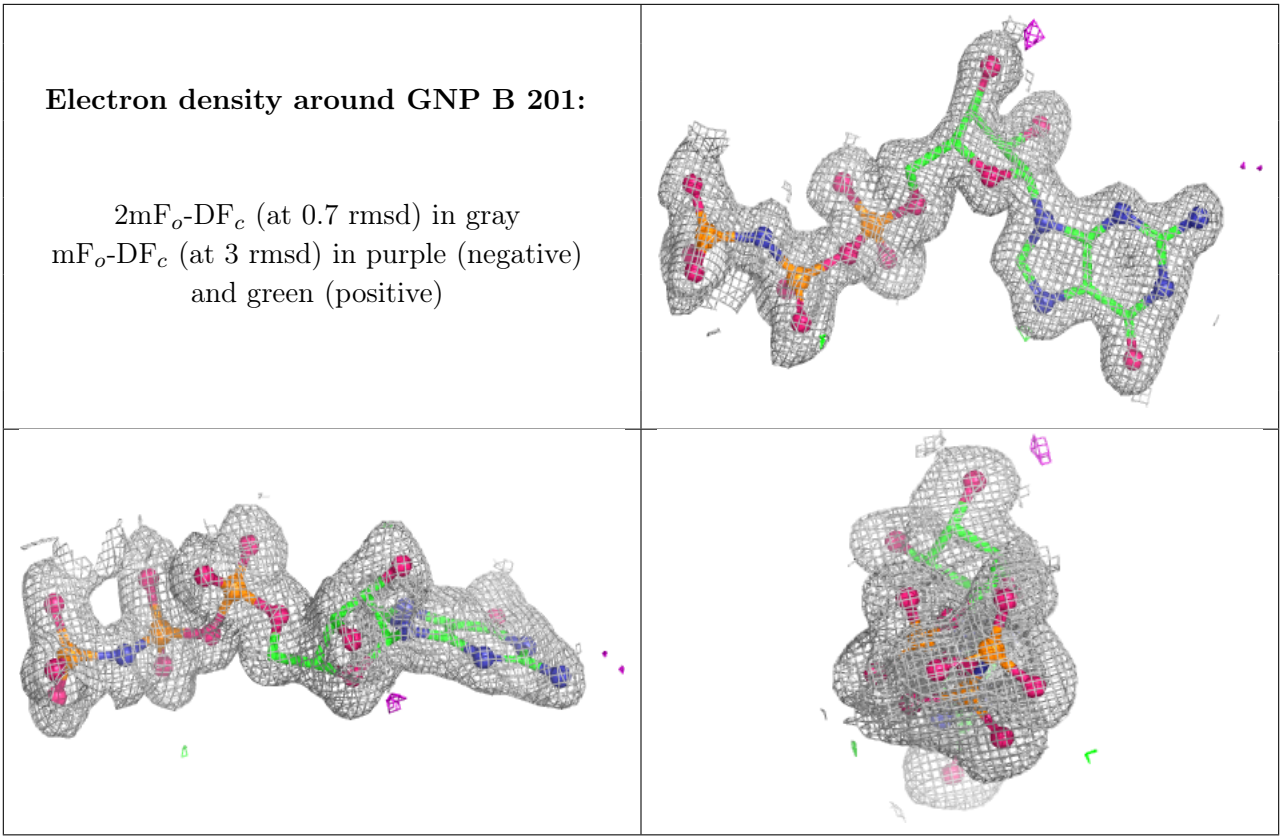






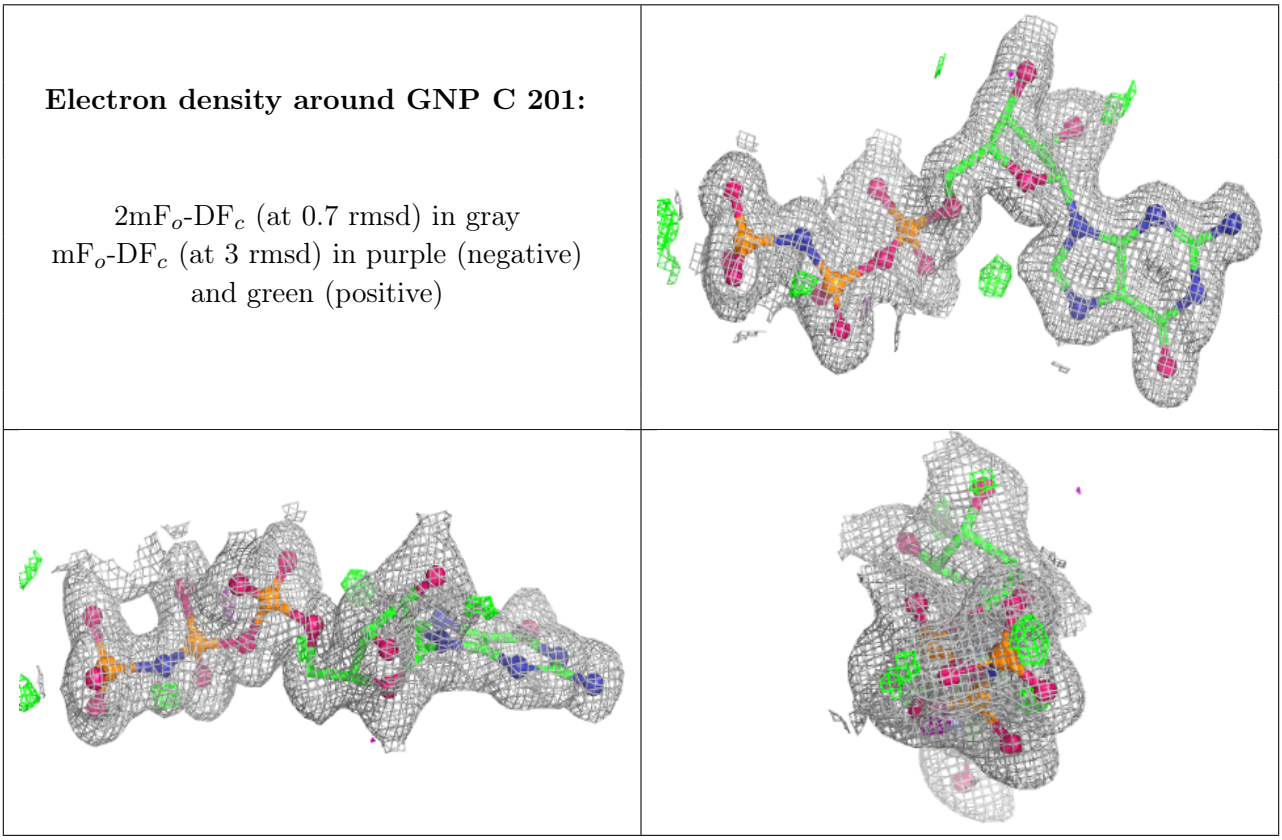
Electron density around GNP B 201:

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



Electron density around GNP C 201:

$2mF_o$-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.