



Full wwPDB X-ray Structure Validation Report ⓘ

May 24, 2020 – 07:34 pm BST

PDB ID : 2WOE
Title : Crystal Structure of the D97N variant of dinitrogenase reductase-activating glycohydrolase (DRAG) from *Rhodospirillum rubrum* in complex with ADP-ribose
Authors : Berthold, C.L.; Wang, H.; Nordlund, S.; Hogbom, M.
Deposited on : 2009-07-23
Resolution : 1.90 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

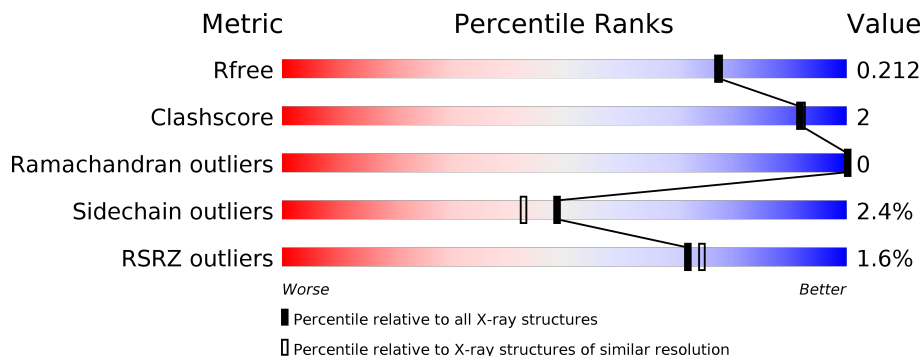
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 on 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	299	 2% 92% 5% .
1	B	299	 2% 93% . . .
1	C	299	 % 93% . .

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 7541 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 ADP-RIBOSYL-[DINITROGEN REDUCTASE] GLYCOHYDROLASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	291	2232	1397	407	411	17	0	5	0
1	B	291	2214	1385	402	411	16	0	2	0
1	C	291	2210	1381	402	410	17	0	2	0

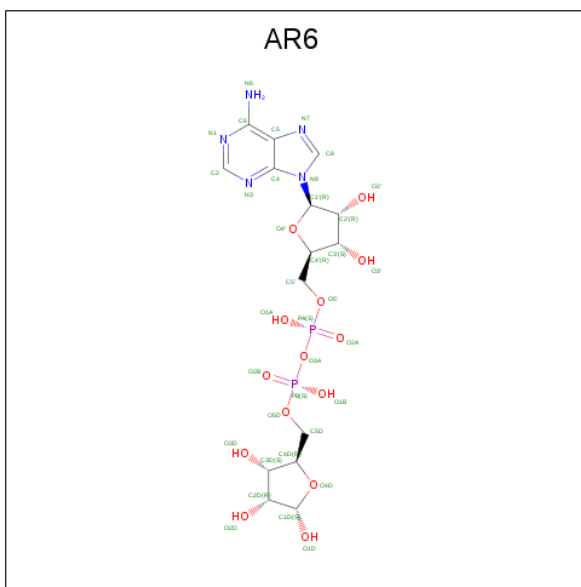
There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	97	ASN	ASP	engineered mutation	UNP P14300
B	97	ASN	ASP	engineered mutation	UNP P14300
C	97	ASN	ASP	engineered mutation	UNP P14300

- Molecule 2 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

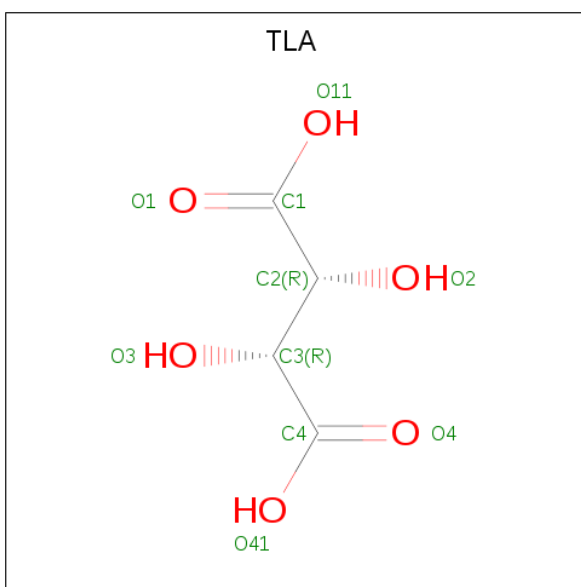
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total 1	Mn 1	0	0
2	A	1	Total 1	Mn 1	0	0
2	C	1	Total 1	Mn 1	0	0

- Molecule 3 is [(2R,3S,4R,5R)-5-(6-AMINOPURIN-9-YL)-3,4-DIHYDROXY-OXOLAN-2-YL]METHYL [HYDROXY-[(2R,3S,4R,5S)-3,4,5-TRIHYDROXYOXOLAN-2-YL]METHOXY]PHOSPHORYL] HYDROGEN PHOSPHATE (three-letter code: AR6) (formula: C₁₅H₂₃N₅O₁₄P₂).



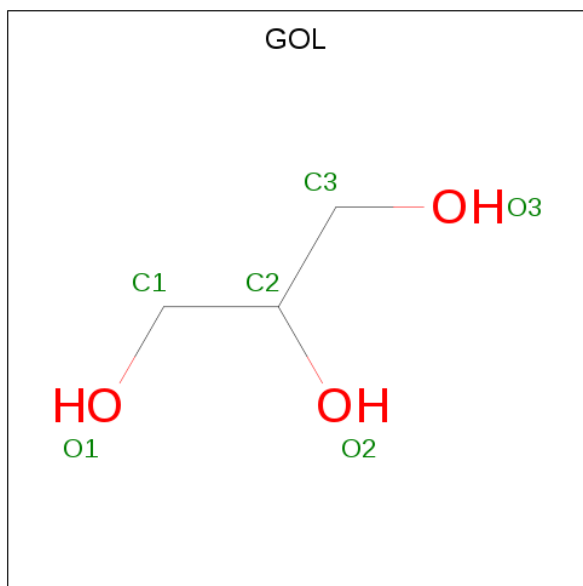
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
			Total	C	N	O			P	
3	A	1	Total	36	15	5	14	2	0	0
3	B	1	Total	36	15	5	14	2	0	0
3	C	1	Total	36	15	5	14	2	0	0

- Molecule 4 is L(+)-TARTARIC ACID (three-letter code: TLA) (formula: C₄H₆O₆).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	
			Total	C	O			
4	A	1	Total	10	4	6	0	0

- Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	276	Total O 276 276	0	0
6	B	276	Total O 276 276	0	0
6	C	206	Total O 206 206	0	0

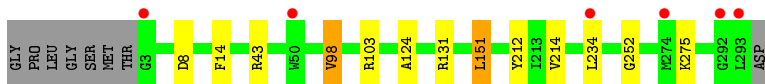
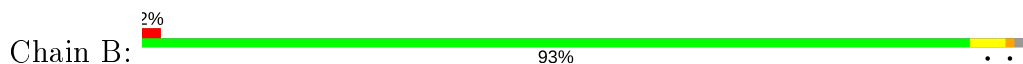
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

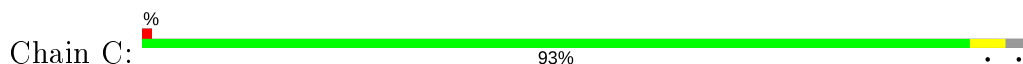
- Molecule 1: ADP-RIBOSYL-[DINITROGEN REDUCTASE] GLYCOHYDROLASE



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4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	82.11Å 84.36Å 146.10Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 1.90 73.06 – 1.85	Depositor EDS
% Data completeness (in resolution range)	97.2 (30.00-1.90) 97.2 (73.06-1.85)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.45 (at 1.84Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.167 , 0.207 0.172 , 0.212	Depositor DCC
R_{free} test set	4266 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	22.4	Xtrriage
Anisotropy	0.611	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.021 for k,h,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7541	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.75% 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: GOL, TLA, MN, AR6

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	0.48	0/2292	0.58	0/3103
1	B	0.46	0/2264	0.61	0/3065
1	C	0.40	0/2260	0.58	0/3059
All	All	0.45	0/6816	0.59	0/9227

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 [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	2232	0	2219	9	0
1	B	2214	0	2194	7	0
1	C	2210	0	2189	5	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
3	A	36	0	19	2	0
3	B	36	0	21	1	0
3	C	36	0	19	0	0
4	A	10	0	4	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	6	0	8	0	0
6	A	276	0	0	2	0
6	B	276	0	0	2	0
6	C	206	0	0	0	0
All	All	7541	0	6673	21	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 (21) 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:98:VAL:O	1:C:54:LYS:NZ	2.10	0.84
1:C:95:PRO:HG2	1:C:98:VAL:HG22	1.76	0.68
1:B:8:ASP:OD2	6:B:2006:HOH:O	2.13	0.67
3:A:401:AR6:O2A	6:A:2268:HOH:O	2.16	0.59
1:B:234:LEU:HD21	1:B:252:GLY:HA2	1.83	0.59
1:C:234:LEU:HD21	1:C:252:GLY:HA2	1.91	0.53
1:B:43:ARG:HG2	6:B:2043:HOH:O	2.14	0.48
1:B:98:VAL:HG13	1:B:103:ARG:NH2	2.28	0.47
1:C:58:ILE:HD12	1:C:62:THR:HB	1.98	0.46
1:A:76:GLY:O	1:A:290:LEU:HD11	2.17	0.44
1:A:107:ARG:O	1:A:111[A]:HIS:CD2	2.71	0.44
1:A:78:LEU:HD21	1:A:152:ALA:CB	2.49	0.43
1:A:194:VAL:HG11	1:A:201:HIS:CE1	2.55	0.42
1:C:147:GLU:HB3	1:C:148:PRO:HD3	2.01	0.42
1:A:44:LYS:HG3	1:A:46:THR:HG23	2.01	0.41
1:B:124:ALA:HB3	3:B:401:AR6:C5	2.51	0.41
1:B:151:LEU:HA	1:B:151:LEU:HD22	1.91	0.41
1:B:212:TYR:CE2	1:B:214:VAL:HB	2.54	0.41
1:A:194:VAL:CG1	1:A:201:HIS:CE1	3.03	0.41
1:A:211:ALA:HB3	3:A:401:AR6:H4'	2.03	0.40
1:A:196:GLN:NE2	6:A:2183:HOH:O	2.54	0.40

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	294/299 (98%)	288 (98%)	6 (2%)	0	100	100
1	B	291/299 (97%)	286 (98%)	5 (2%)	0	100	100
1	C	291/299 (97%)	284 (98%)	7 (2%)	0	100	100
All	All	876/897 (98%)	858 (98%)	18 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	229/230 (100%)	222 (97%)	7 (3%)	40	32
1	B	226/230 (98%)	221 (98%)	5 (2%)	52	47
1	C	226/230 (98%)	220 (97%)	6 (3%)	44	38
All	All	681/690 (99%)	663 (97%)	18 (3%)	49	39

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	PHE
1	A	52	ARG
1	A	94[A]	ARG
1	A	94[B]	ARG
1	A	98	VAL

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Mol	Chain	Res	Type
1	A	199[A]	ASP
1	A	199[B]	ASP
1	B	14	PHE
1	B	98	VAL
1	B	131	ARG
1	B	151	LEU
1	B	275	LYS
1	C	14	PHE
1	C	52	ARG
1	C	54	LYS
1	C	116	THR
1	C	162	LEU
1	C	287	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	197	HIS
1	B	196	GLN
1	C	38	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 3 are monoatomic - leaving 5 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	AR6	C	401	2	34,39,39	0.84	1 (2%)	40,60,60	1.25	4 (10%)
4	TLA	A	500	-	3,9,9	0.55	0	6,12,12	1.52	2 (33%)
5	GOL	A	600	-	5,5,5	0.41	0	5,5,5	0.33	0
3	AR6	B	401	-	34,39,39	0.81	1 (2%)	40,60,60	1.30	7 (17%)
3	AR6	A	401	2	34,39,39	0.88	1 (2%)	40,60,60	1.24	3 (7%)

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	AR6	C	401	2	-	3/18/54/54	0/4/4/4
4	TLA	A	500	-	-	0/4/12/12	-
5	GOL	A	600	-	-	4/4/4/4	-
3	AR6	B	401	-	-	7/18/54/54	0/4/4/4
3	AR6	A	401	2	-	7/18/54/54	0/4/4/4

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	401	AR6	C5-C4	2.42	1.47	1.40
3	C	401	AR6	C5-C4	2.30	1.47	1.40
3	B	401	AR6	C5-C4	2.16	1.46	1.40

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	AR6	N3-C2-N1	-4.16	122.18	128.68
3	C	401	AR6	N3-C2-N1	-4.03	122.38	128.68
3	A	401	AR6	N3-C2-N1	-3.72	122.87	128.68
3	C	401	AR6	O1D-C1D-O4D	-2.72	107.65	111.13
4	A	500	TLA	C4-C3-C2	-2.62	107.47	113.11
4	A	500	TLA	C1-C2-C3	-2.60	107.51	113.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	AR6	C4-C5-N7	-2.58	106.71	109.40
3	B	401	AR6	O1A-PA-O2A	2.44	124.31	112.24
3	B	401	AR6	O1D-C1D-O4D	-2.29	108.20	111.13
3	C	401	AR6	O4D-C1D-C2D	2.27	107.25	104.46
3	C	401	AR6	O1B-PB-O2B	2.25	123.37	112.24
3	A	401	AR6	O5D-PB-O2B	-2.21	100.44	109.07
3	B	401	AR6	C1'-N9-C4	-2.15	122.87	126.64
3	A	401	AR6	C4-C5-N7	-2.07	107.24	109.40
3	B	401	AR6	C2-N1-C6	2.07	122.29	118.75
3	B	401	AR6	O1B-PB-O2B	2.06	122.44	112.24

There are no chirality outliers.

All (21) torsion outliers are listed below:

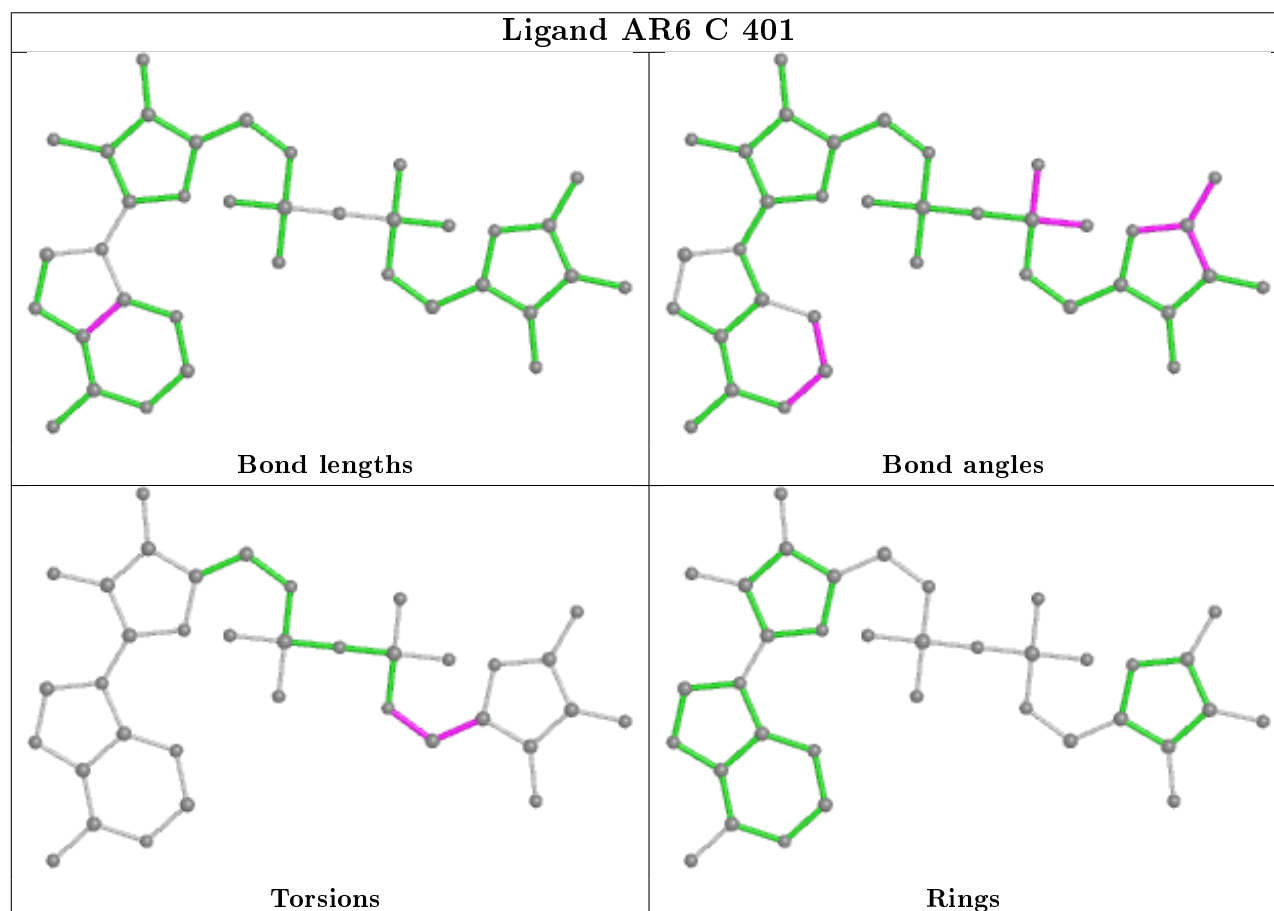
Mol	Chain	Res	Type	Atoms
3	C	401	AR6	C3D-C4D-C5D-O5D
3	C	401	AR6	O4D-C4D-C5D-O5D
3	B	401	AR6	C5'-O5'-PA-O1A
3	B	401	AR6	C5'-O5'-PA-O3A
3	B	401	AR6	C5D-O5D-PB-O3A
5	A	600	GOL	O1-C1-C2-C3
5	A	600	GOL	C1-C2-C3-O3
3	A	401	AR6	C3D-C4D-C5D-O5D
3	A	401	AR6	O4D-C4D-C5D-O5D
3	B	401	AR6	O4'-C4'-C5'-O5'
5	A	600	GOL	O1-C1-C2-O2
5	A	600	GOL	O2-C2-C3-O3
3	A	401	AR6	C5'-O5'-PA-O3A
3	A	401	AR6	PB-O3A-PA-O2A
3	B	401	AR6	C5'-O5'-PA-O2A
3	B	401	AR6	C5D-O5D-PB-O2B
3	B	401	AR6	C3'-C4'-C5'-O5'
3	A	401	AR6	PB-O3A-PA-O1A
3	C	401	AR6	C4D-C5D-O5D-PB
3	A	401	AR6	C4D-C5D-O5D-PB
3	A	401	AR6	C5'-O5'-PA-O2A

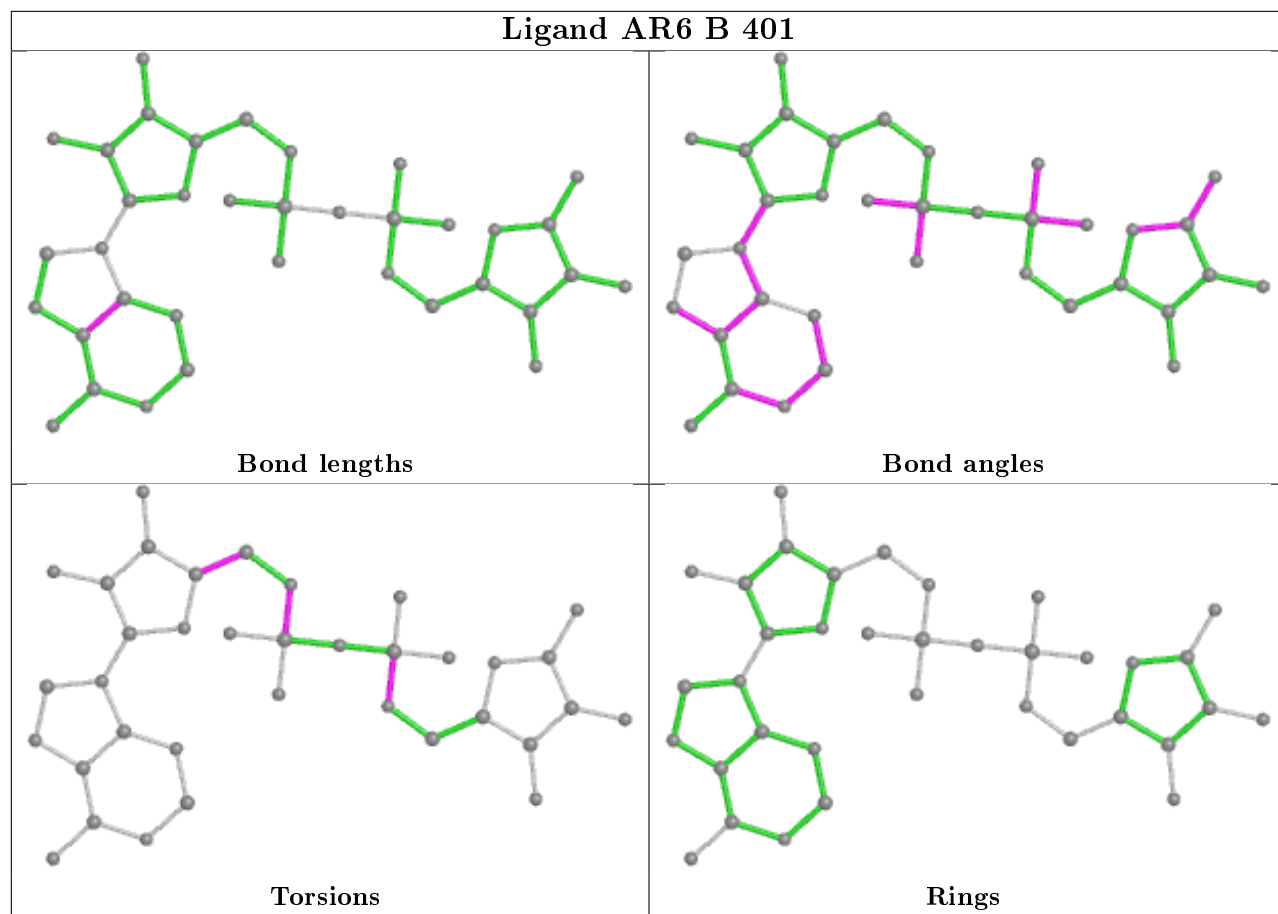
There are no ring outliers.

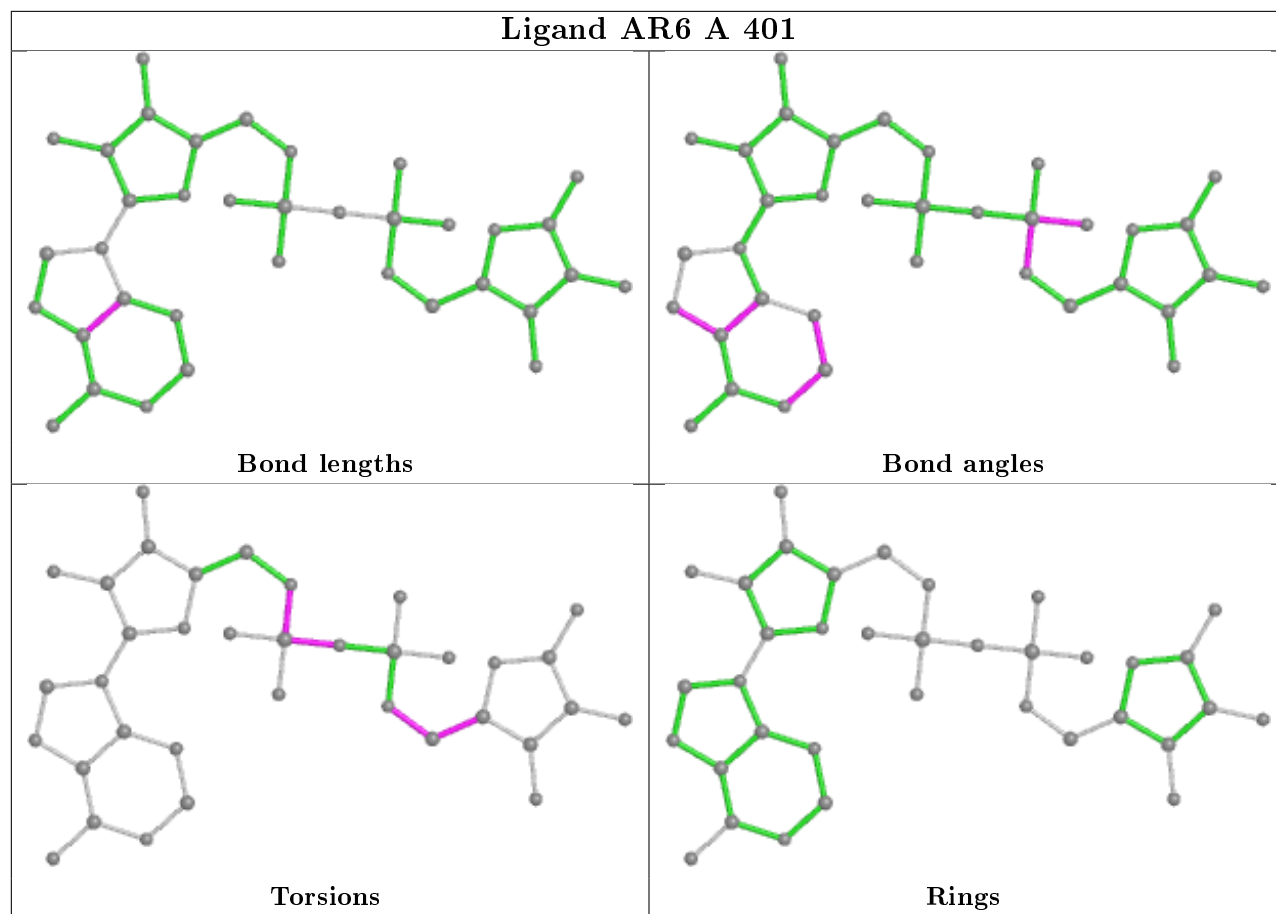
2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	401	AR6	1	0
3	A	401	AR6	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.







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	291/299 (97%)	0.29	6 (2%) 63 66	25, 28, 32, 39	0
1	B	291/299 (97%)	0.28	6 (2%) 63 66	26, 28, 32, 39	0
1	C	291/299 (97%)	0.23	2 (0%) 87 88	25, 28, 32, 39	0
All	All	873/897 (97%)	0.27	14 (1%) 72 74	25, 28, 32, 39	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	293	LEU	5.3
1	A	3	GLY	5.2
1	A	293	LEU	4.6
1	B	50	TRP	3.6
1	C	293	LEU	3.1
1	B	3	GLY	2.6
1	A	198	ARG	2.3
1	B	274	MET	2.3
1	C	195	HIS	2.2
1	B	234	LEU	2.2
1	B	292	GLY	2.1
1	A	274	MET	2.1
1	A	98	VAL	2.1
1	A	278	ARG	2.0

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 carbohydrates in this entry.

6.4 Ligands [i](#)

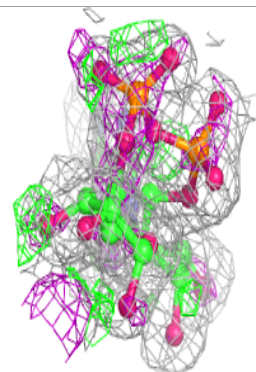
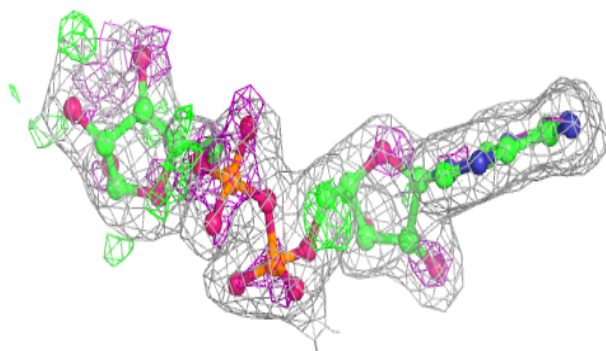
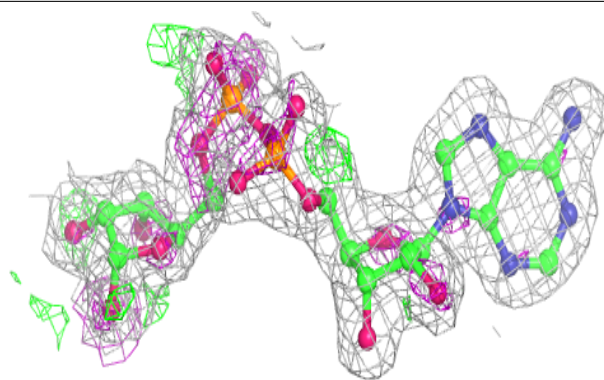
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	GOL	A	600	6/6	0.84	0.21	38,40,40,40	0
4	TLA	A	500	10/10	0.88	0.19	37,41,42,42	0
3	AR6	B	401	36/36	0.95	0.12	26,30,34,35	0
3	AR6	C	401	36/36	0.96	0.12	21,27,33,36	0
3	AR6	A	401	36/36	0.96	0.10	22,25,30,32	0
2	MN	B	400	1/1	0.99	0.10	35,35,35,35	0
2	MN	C	400	1/1	0.99	0.10	40,40,40,40	0
2	MN	A	400	1/1	1.00	0.12	33,33,33,33	0

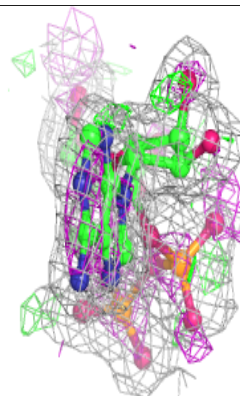
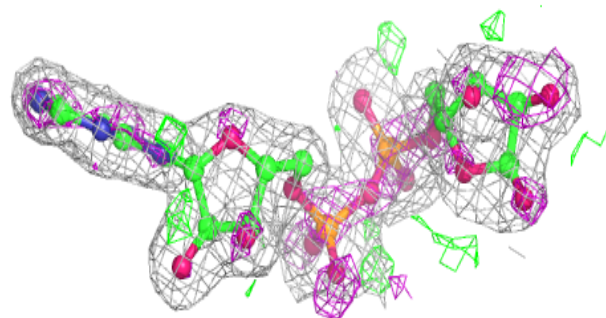
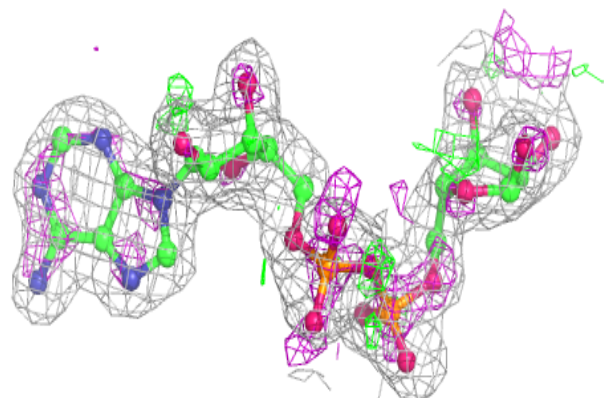
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

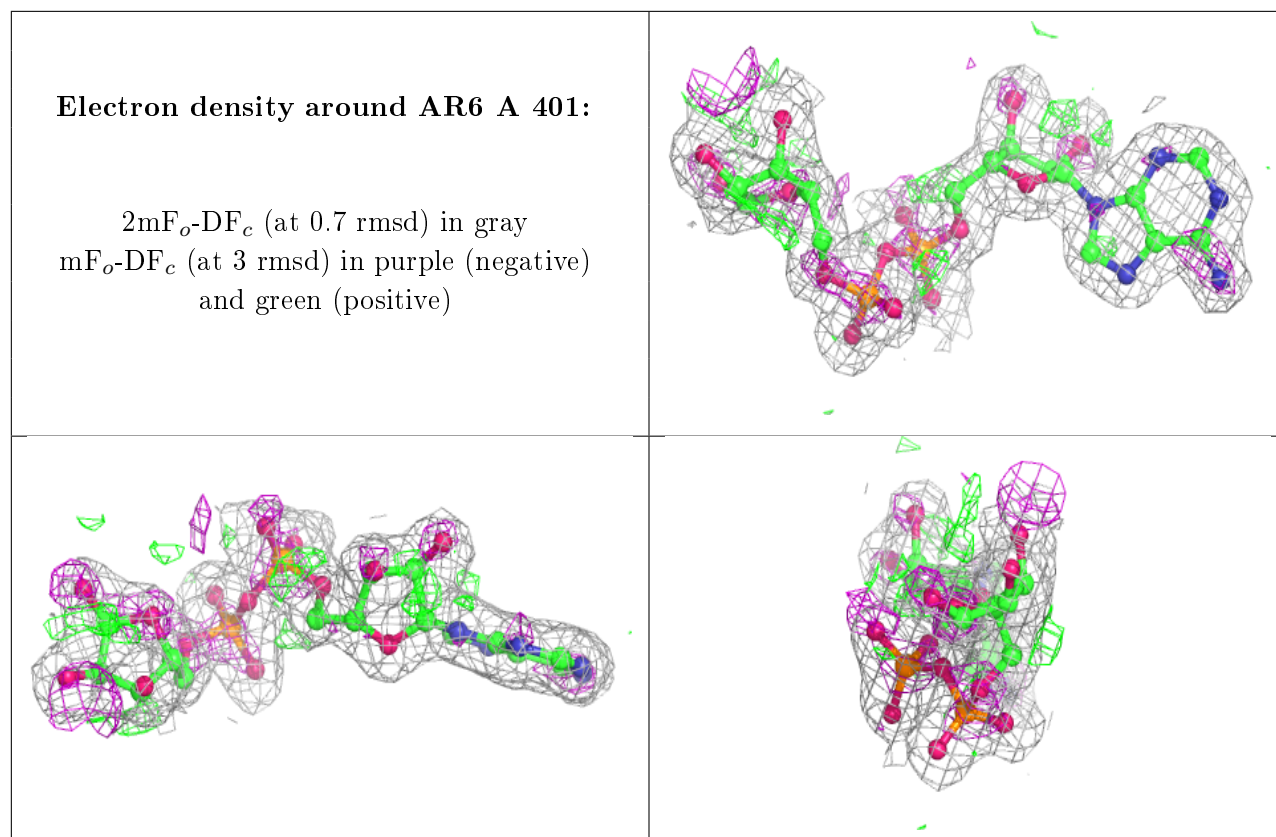
Electron density around AR6 B 401:

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

**Electron density around AR6 C 401:**

$2mF_o-DF_c$ (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.