

Full wwPDB X-ray Structure Validation Report (i)

Feb 6, 2024 – 02:14 PM EST

PDB ID : 2A04

Title : Molecular Recognition of RNA by Neomycin and a Restricted Neomycin

Derivative

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Deposited on : 2005-06-15

Resolution : 2.95 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 (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 (1)) 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 : 2.36

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)

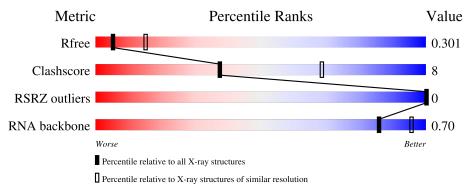
Validation Pipeline (wwPDB-VP) : 2.36

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 2.95 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	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	3104 (3.00-2.92)
Clashscore	141614	3462 (3.00-2.92)
RSRZ outliers	127900	2986 (3.00-2.92)
RNA backbone	3102	1065 (3.22-2.70)

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	A	15	47%	47% 7%				
1	С	15	60%	40%				
2	В	14	71%	29%				
2	D	14	57%	43%				



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 1418 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(*GP*UP*GP*GP*UP*GP*AP*AP*GP*UP*CP*GP*GP*GP*G)-3'.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	Δ	15	Total	С	N	О	Р	0	0	0
1	Λ	10	325	145	62	104	14	U	0	
1	С	15	Total	С	N	О	Р	0	0	0
1		$C \mid 15 \mid$		145	62	104	14	U		U

• Molecule 2 is a RNA chain called 5'-R(*CP*GP*CP*GP*UP*CP*AP*CP*

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	D	D 14	Total	С	N	О	Р	0	0	0
	В	14	289	131	51	94	13	U		
2	D	1.4	Total	С	N	О	Р	0	0	0
	2 D	D 14		131	51	94	13		U	

• Molecule 3 is NEOMYCIN (three-letter code: NMY) (formula: C₂₃H₄₆N₆O₁₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	Λ	1	Total	С	N	Ο	0	0	
3	А	1	42	23	6	13	0	U	
2	Λ	1	Total	С	N	О	0	0	
3	А	1	42	23	6	13	0	U	
3	C	1	Total	С	N	О	0	0	
3	C	1	42	23	6	13	0	U	
3	С	1	Total	С	N	О	0	0	
3		1	42	23	6	13	U	U	

 \bullet Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Mg 1 1	0	0
4	С	1	Total Mg 1 1	0	0

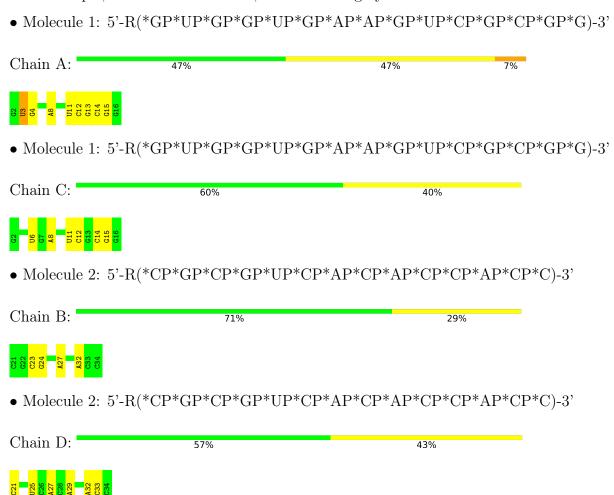
\bullet Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	6	Total O 6 6	0	0
5	В	4	Total O 4 4	0	0
5	С	6	Total O 6 6	0	0
5	D	4	Total O 4 4	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.





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	49.80Å 49.90Å 144.60Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	8.00 - 2.95	Depositor
resolution (A)	28.45 - 2.95	EDS
% Data completeness	88.2 (8.00-2.95)	Depositor
(in resolution range)	88.2 (28.45-2.95)	EDS
R_{merge}	0.13	Depositor
R_{sym}	0.13	Depositor
$< I/\sigma(I) > 1$	$3.00 \; ({\rm at} \; 2.95 {\rm \AA})$	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.254 , 0.318	Depositor
it, it free	0.254 , 0.301	DCC
R_{free} test set	848 reflections (10.61%)	wwPDB-VP
Wilson B-factor (Å ²)	47.4	Xtriage
Anisotropy	1.057	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.20 , 19.4	EDS
L-test for twinning ²	$< L > = 0.47, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	0.469 for k,h,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	1418	wwPDB-VP
Average B, all atoms (\mathring{A}^2)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.53% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities estimated from amplitudes.

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: NMY, MG

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 Chair		Bond	lengths	Bond angles		
IVIOI	Mol Chain		RMSZ # Z > 5		# Z > 5	
1	A	0.57	0/364	0.69	0/568	
1	С	0.60	0/364	0.70	0/568	
2	В	0.51	0/321	0.76	0/497	
2	D	0.50	0/321	0.77	0/497	
All	All	0.55	0/1370	0.73	0/2130	

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 maintenain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
2	D	0	2
All	All	0	3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	3	U	Sidechain
2	D	25	U	Sidechain
2	D	29	A	Sidechain



5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	325	0	164	4	0
1	С	325	0	164	4	0
2	В	289	0	155	3	0
2	D	289	0	155	3	0
3	A	84	0	92	2	0
3	С	84	0	92	4	0
4	A	1	0	0	0	0
4	С	1	0	0	0	0
5	A	6	0	0	0	0
5	В	4	0	0	1	0
5	С	6	0	0	0	0
5	D	4	0	0	0	0
All	All	1418	0	822	15	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 8.

All (15) 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)
3:A:17:NMY:N6	2:B:27:A:N1	2.56	0.54
1:A:15:G:O6	3:A:18:NMY:N23	2.44	0.50
1:A:13:G:H2'	1:A:14:C:C6	2.47	0.50
3:C:17:NMY:N2	3:C:17:NMY:H171	2.27	0.50
1:C:14:C:H2'	1:C:15:G:O4'	2.13	0.49
1:A:3:U:H2'	1:A:4:G:H8	1.81	0.46
1:C:6:U:OP2	3:C:1:NMY:N19	2.46	0.46
2:D:21:C:H6	2:D:21:C:O5'	2.00	0.45
1:C:15:G:O6	3:C:17:NMY:N23	2.49	0.44
2:B:23:C:O2'	2:B:24:G:H5'	2.18	0.44
2:D:32:A:O2'	2:D:33:C:H5'	2.19	0.43
2:B:32:A:P	5:B:36:HOH:O	2.77	0.43
1:A:11:U:O2'	1:A:12:C:H5'	2.20	0.42
3:C:1:NMY:N6	2:D:27:A:N1	2.68	0.41
1:C:11:U:O2'	1:C:12:C:H5'	2.21	0.40



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	14/15 (93%)	1 (7%)	0
1	С	14/15 (93%)	1 (7%)	0
2	В	13/14 (92%)	0	0
2	D	13/14 (92%)	0	0
All	All	54/58 (93%)	2 (3%)	0

All (2) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	8	A
1	С	8	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 6 ligands modelled in this entry, 2 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).

Mal	Mol Type Chain R	Chain	Res	Link	В	ond leng	gths	Bond angles		
MIOI		nes	ites Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
3	NMY	A	18	4	45,45,45	2.33	16 (35%)	63,67,67	1.05	6 (9%)
3	NMY	С	17	-	45,45,45	2.46	17 (37%)	63,67,67	1.20	7 (11%)
3	NMY	С	1	-	45,45,45	1.94	11 (24%)	63,67,67	1.10	5 (7%)
3	NMY	A	17	-	45,45,45	1.89	10 (22%)	63,67,67	1.16	6 (9%)

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	NMY	A	18	4	-	5/18/94/94	0/4/4/4
3	NMY	С	17	-	-	6/18/94/94	0/4/4/4
3	NMY	С	1	-	-	6/18/94/94	0/4/4/4
3	NMY	A	17	-	-	2/18/94/94	0/4/4/4

All (54) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(\AA)$	Ideal(A)
3	С	17	NMY	C20-C19	7.24	1.62	1.53
3	A	18	NMY	C23-C22	6.83	1.61	1.52
3	A	18	NMY	C20-C19	5.95	1.61	1.53
3	A	17	NMY	C20-C19	5.73	1.60	1.53
3	С	17	NMY	C23-C22	5.53	1.59	1.52
3	С	1	NMY	C20-C19	5.31	1.60	1.53
3	С	17	NMY	O22-C18	5.12	1.54	1.41
3	A	18	NMY	O22-C18	4.84	1.54	1.41
3	С	1	NMY	C23-C22	4.77	1.58	1.52
3	A	18	NMY	C20-C21	4.74	1.64	1.52
3	С	1	NMY	C20-C21	4.46	1.63	1.52
3	С	1	NMY	O22-C18	4.23	1.52	1.41
3	A	17	NMY	C20-C21	4.15	1.62	1.52
3	A	17	NMY	C23-C22	4.11	1.57	1.52

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	Ideal(Å)
3	A	17	NMY	O22-C18	3.88	1.51	1.41
3	С	17	NMY	C20-C21	3.77	1.61	1.52
3	С	17	NMY	O5-C1	3.66	1.51	1.41
3	С	17	NMY	C13-C14	3.55	1.57	1.52
3	A	18	NMY	O5-C1	3.41	1.50	1.41
3	С	1	NMY	C13-C14	3.33	1.57	1.52
3	С	17	NMY	C18-C19	3.19	1.58	1.52
3	С	17	NMY	C21-C22	3.17	1.59	1.53
3	С	17	NMY	C4-C5	3.04	1.59	1.53
3	С	17	NMY	C10-C9	3.01	1.59	1.53
3	A	18	NMY	C12-C11	2.99	1.60	1.52
3	A	17	NMY	C13-C14	2.92	1.56	1.52
3	A	18	NMY	C21-C22	2.91	1.59	1.53
3	A	18	NMY	C12-C7	2.90	1.59	1.53
3	A	17	NMY	O5-C1	2.90	1.49	1.41
3	A	17	NMY	C12-C11	2.83	1.59	1.52
3	С	17	NMY	O5-C5	2.79	1.51	1.44
3	С	17	NMY	C12-C11	2.69	1.59	1.52
3	С	17	NMY	C12-C7	2.63	1.59	1.53
3	С	17	NMY	C19-N23	2.63	1.51	1.47
3	С	1	NMY	C12-C11	2.62	1.59	1.52
3	С	17	NMY	C6-C5	2.52	1.55	1.52
3	С	1	NMY	O5-C1	2.48	1.48	1.41
3	A	17	NMY	C8-C7	2.45	1.59	1.53
3	A	18	NMY	O22-C22	2.41	1.50	1.44
3	A	18	NMY	C1-C2	2.37	1.57	1.52
3	С	1	NMY	C18-C19	2.37	1.57	1.52
3	A	17	NMY	C18-C19	2.35	1.57	1.52
3	A	18	NMY	C18-C19	2.29	1.56	1.52
3	A	18	NMY	O16-C13	2.27	1.45	1.41
3	A	18	NMY	C19-N23	2.26	1.50	1.47
3	С	17	NMY	O16-C13	2.26	1.45	1.41
3	С	1	NMY	C8-C7	2.23	1.58	1.53
3	A	18	NMY	C4-C3	2.22	1.58	1.52
3	A	18	NMY	C4-C5	2.19	1.57	1.53
3	A	17	NMY	O16-C13	2.10	1.45	1.41
3	С	1	NMY	C12-C7	2.09	1.58	1.53
3	A	18	NMY	O20-C20	2.07	1.47	1.43
3	С	17	NMY	O22-C22	2.07	1.49	1.44
3	С	1	NMY	C3-C2	2.04	1.56	1.53

All (24) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}(^{o})$
3	С	17	NMY	O1-C1-C2	-4.62	100.26	108.22
3	A	17	NMY	O18-C18-C19	3.15	113.64	108.22
3	С	17	NMY	O11-C13-C14	3.08	114.35	107.96
3	С	17	NMY	O18-C18-C19	3.06	113.48	108.22
3	A	17	NMY	O11-C13-C14	2.97	114.11	107.96
3	A	18	NMY	O22-C22-C23	2.90	111.42	106.01
3	С	1	NMY	O11-C13-C14	2.70	113.55	107.96
3	A	18	NMY	O11-C13-C14	2.65	113.46	107.96
3	A	18	NMY	C1-O5-C5	2.51	118.61	113.69
3	A	17	NMY	O5-C5-C6	2.48	110.62	106.01
3	A	17	NMY	C13-C14-C15	-2.47	99.13	102.10
3	С	1	NMY	O22-C22-C21	-2.45	105.24	109.69
3	С	17	NMY	O11-C11-C12	2.44	113.77	107.28
3	A	18	NMY	O18-C18-C19	2.44	112.41	108.22
3	A	17	NMY	O22-C22-C21	-2.40	105.34	109.69
3	С	1	NMY	O22-C22-C23	2.37	110.43	106.01
3	С	1	NMY	C13-C14-C15	-2.29	99.34	102.10
3	С	17	NMY	O22-C22-C23	2.27	110.23	106.01
3	С	1	NMY	C1-O5-C5	2.11	117.83	113.69
3	A	17	NMY	O1-C1-C2	-2.06	104.67	108.22
3	С	17	NMY	C3-C2-N2	-2.03	106.90	111.05
3	A	18	NMY	C3-C2-N2	-2.03	106.90	111.05
3	С	17	NMY	O5-C5-C6	2.02	109.78	106.01
3	A	18	NMY	O11-C11-C12	2.02	112.65	107.28

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	18	NMY	O22-C22-C23-N19
3	С	1	NMY	O5-C5-C6-N6
3	A	17	NMY	O16-C16-C17-O17
3	A	18	NMY	O16-C16-C17-O17
3	A	17	NMY	C15-C16-C17-O17
3	A	18	NMY	C15-C16-C17-O17
3	С	1	NMY	C15-C16-C17-O17
3	С	1	NMY	O16-C16-C17-O17
3	С	1	NMY	O22-C18-O18-C15
3	A	18	NMY	O5-C1-O1-C10
3	С	17	NMY	C14-C13-O11-C11
3	A	18	NMY	O5-C5-C6-N6
3	С	17	NMY	C12-C11-O11-C13
3	С	17	NMY	C10-C11-O11-C13

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Mol	Chain	Res	Type	${f Atoms}$
3	С	17	NMY	C21-C22-C23-N19
3	С	1	NMY	C10-C11-O11-C13
3	С	17	NMY	C15-C16-C17-O17
3	С	17	NMY	C4-C5-C6-N6
3	С	1	NMY	C12-C11-O11-C13

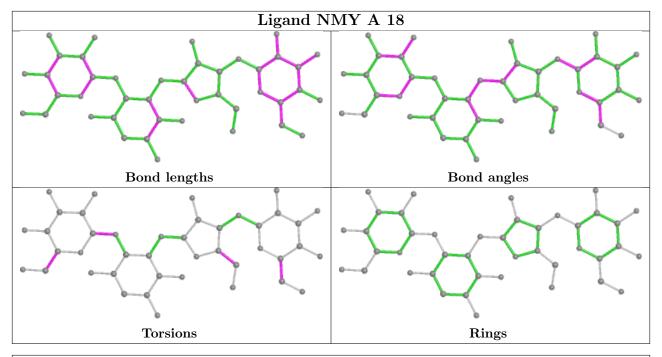
There are no ring outliers.

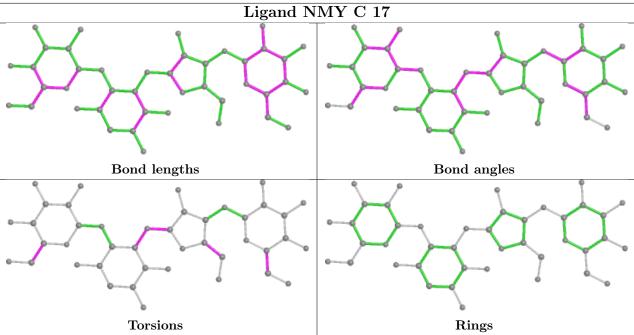
4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	18	NMY	1	0
3	С	17	NMY	2	0
3	С	1	NMY	2	0
3	A	17	NMY	1	0

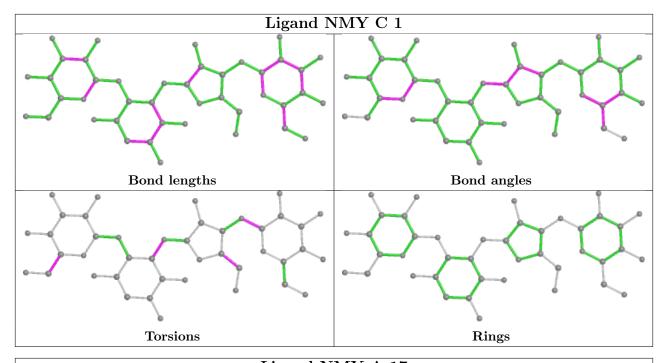
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

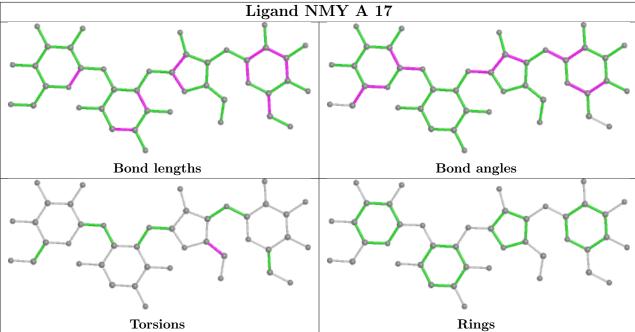












5.7 Other polymers (i)

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, 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		Z>2	$OWAB(A^2)$	Q < 0.9
1	A	15/15~(100%)	-0.41	0	100	100	59, 65, 91, 95	0
1	\mathbf{C}	15/15~(100%)	-0.41	0	100	100	57, 63, 95, 98	0
2	В	$14/14 \ (100\%)$	-0.31	0	100	100	57, 71, 93, 97	0
2	D	14/14~(100%)	-0.52	0	100	100	57, 70, 92, 95	0
All	All	58/58 (100%)	-0.41	0	100	100	57, 70, 95, 98	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 monosaccharides 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, 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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	NMY	С	17	42/42	0.84	0.28	62,70,72,72	0
3	NMY	A	18	42/42	0.85	0.24	61,72,74,75	0
4	MG	A	41	1/1	0.90	0.62	41,41,41,41	0
3	NMY	A	17	42/42	0.92	0.19	55,72,86,86	0

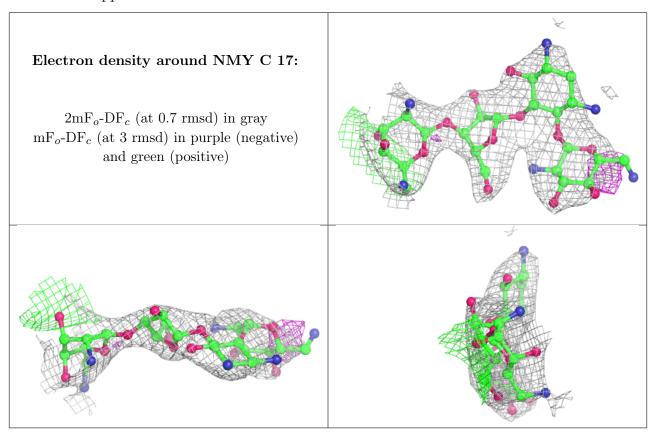
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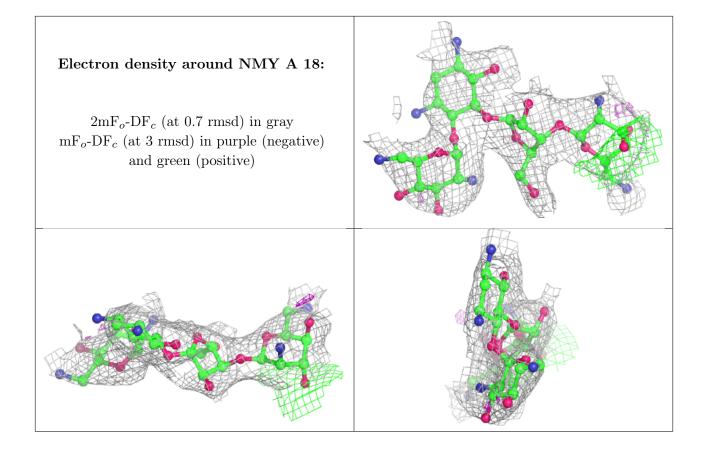
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	NMY	С	1	42/42	0.93	0.16	52,68,81,85	0
4	MG	С	48	1/1	0.94	0.58	41,41,41,41	0

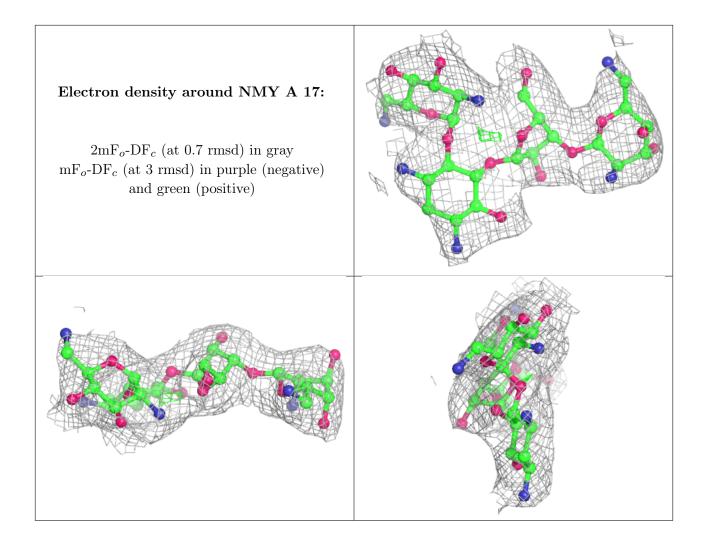
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



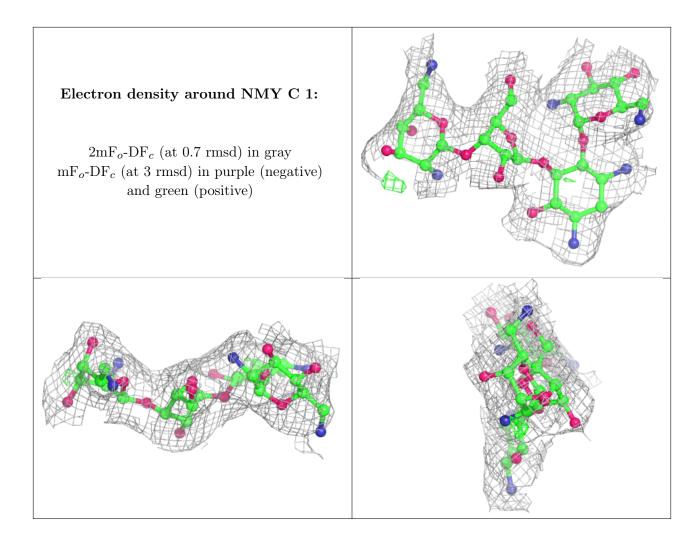












6.5 Other polymers (i)

There are no such residues in this entry.

