

wwPDB X-ray Structure Validation Summary Report (i)

Feb 3, 2024 – 10:06 PM EST

PDB ID	:	1N7G
Title	:	Crystal Structure of the GDP-mannose 4,6-dehydratase ternary complex with
		NADPH and GDP-rhamnose.
Authors	:	Mulichak, A.M.; Bonin, C.P.; Reiter, WD.; Garavito, R.M.
Deposited on	:	2002-11-14
Resolution	:	2.20 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 (1)) were used in the production of this report:

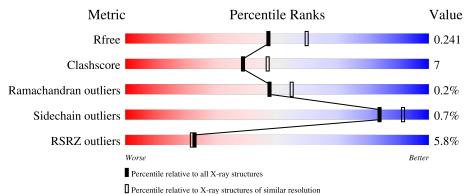
MolProbity Mogul Xtriage (Phenix) EDS	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.36
buster-report Percentile statistics Refmac	: : :	1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

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	$\begin{array}{c} \textbf{Whole archive} \\ \textbf{(\#Entries)} \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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	А	381	3% 74%	13%	13%
1	В	381	70%	18%	12%
1	С	381	73%	14%	• 12%
1	D	381	8%	10%	18%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 11034 atoms, of which 0 are hydrogens and 0 are deuteriums.

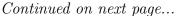
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Δ	333	Total	С	Ν	0	\mathbf{S}	0	0	0
	А	ააა	2625	1675	453	488	9	0		0
1	В	336	Total	С	Ν	0	S	0	0	0
	D	550	2626	1676	451	490	9	0		
1	С	334	Total	С	Ν	0	S	0	0	0
		-004	2620	1672	449	490	9	0	0	0
1	П	313	Total	С	Ν	0	S	0	0	0
	515	2382	1514	414	446	8	0	0	0	

• Molecule 1 is a protein called GDP-D-mannose-4,6-dehydratase.

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	374	LEU	-	expression tag	UNP P93031
А	375	GLU	-	expression tag	UNP P93031
A	376	HIS	-	expression tag	UNP P93031
A	377	HIS	-	expression tag	UNP P93031
А	378	HIS	-	expression tag	UNP P93031
А	379	HIS	-	expression tag	UNP P93031
A	380	HIS	-	expression tag	UNP P93031
А	381	HIS	-	expression tag	UNP P93031
В	374	LEU	-	expression tag	UNP P93031
В	375	GLU	-	expression tag	UNP P93031
В	376	HIS	-	expression tag	UNP P93031
В	377	HIS	-	expression tag	UNP P93031
В	378	HIS	-	expression tag	UNP P93031
В	379	HIS	-	expression tag	UNP P93031
В	380	HIS	-	expression tag	UNP P93031
В	381	HIS	-	expression tag	UNP P93031
С	374	LEU	-	expression tag	UNP P93031
С	375	GLU	-	expression tag	UNP P93031
С	376	HIS	-	expression tag	UNP P93031
С	377	HIS	-	expression tag	UNP P93031
С	378	HIS	-	expression tag	UNP P93031



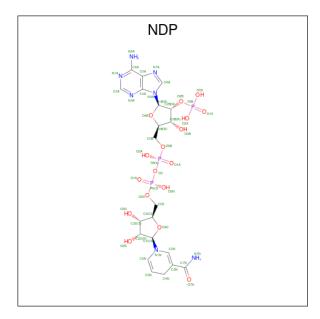


1N	7	G
ΠN	(G

Chain Desidue Medelled Actual Comment Deference								
Chain	Residue	Modelled	Actual	Comment	Reference			
С	379	HIS	-	expression tag	UNP P93031			
C	380	HIS	-	expression tag	UNP P93031			
С	381	HIS	-	expression tag	UNP P93031			
D	374	LEU	-	expression tag	UNP P93031			
D	375	GLU	-	expression tag	UNP P93031			
D	376	HIS	-	expression tag	UNP P93031			
D	377	HIS	-	expression tag	UNP P93031			
D	378	HIS	-	expression tag	UNP P93031			
D	379	HIS	-	expression tag	UNP P93031			
D	380	HIS	-	expression tag	UNP P93031			
D	381	HIS	-	expression tag	UNP P93031			

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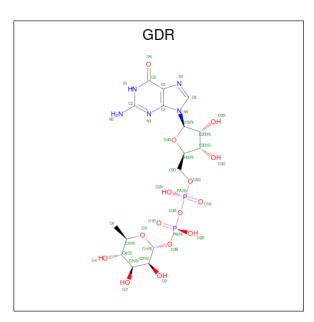
• Molecule 2 is NADPH DIHYDRO-NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NDP) (formula: C₂₁H₃₀N₇O₁₇P₃).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	А	1	Total	С	Ν	Ο	Р	0	0
2	Л	1	48	21	7	17	3	0	0
2	В	1	Total	С	Ν	Ο	Р	0	0
	Z D	1	48	21	7	17	3	0	0
2	С	1	Total	С	Ν	Ο	Р	0	0
	U	1	48	21	7	17	3	0	0
2	Л	1	Total	С	Ν	Ο	Р	0	0
	D	1	48	21	7	17	3	U	0

• Molecule 3 is GUANOSINE-5'-DIPHOSPHATE-RHAMNOSE (three-letter code: GDR) (formula: $C_{16}H_{25}N_5O_{15}P_2$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
3	Δ	1	Total	С	Ν	Ο	Р	0	0
0	Λ	T	38	16	5	15	2	0	0
3	Δ	1	Total	С	Ν	Ο	Р	0	0
0	Λ	T	38	16	5	15	2	0	0
3	Δ	1	Total	С	N	Ō	Р	0	0
0	Λ	T	38	16	5	15	2	0	0

• Molecule 4 is water.

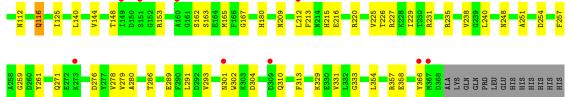
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	140	Total O 140 140	0	0
4	В	109	Total O 109 109	0	0
4	С	130	Total O 130 130	0	0
4	D	96	Total O 96 96	0	0



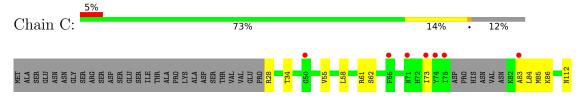
3 Residue-property plots (i)

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.

- Chain A: 74% 13% 13% M367 ASP ALA ALA ALA GLN CGLN CGLN HIS HIS HIS HIS HIS HIS HIS HIS • Molecule 1: GDP-D-mannose-4,6-dehydratase Chain B: 70% 18% 12% SP ER ER LU RO VS LA LA SER ALU
- Molecule 1: GDP-D-mannose-4,6-dehydratase



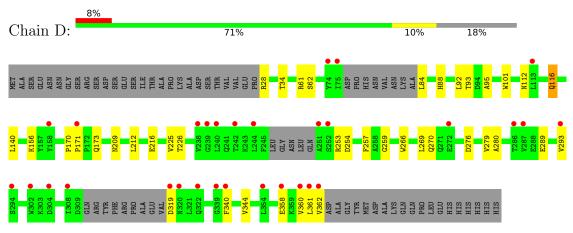
• Molecule 1: GDP-D-mannose-4,6-dehydratase







• Molecule 1: GDP-D-mannose-4,6-dehydratase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	113.18Å 119.01Å 118.89Å	Denesiten
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 - 2.20	Depositor
Resolution (A)	28.86 - 2.20	EDS
% Data completeness	(Not available) $(30.00-2.20)$	Depositor
(in resolution range)	87.8 (28.86-2.20)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	0.04	Depositor
$\frac{R_{sym}}{\langle I/\sigma(I) \rangle^{1}}$	5.26 (at 2.20Å)	Xtriage
Refinement program	CNS	Depositor
D D	0.201 , 0.247	Depositor
R, R_{free}	0.194 , 0.241	DCC
R_{free} test set	3775 reflections $(4.88%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	29.6	Xtriage
Anisotropy	0.989	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.40,60.5	EDS
L-test for twinning ²	$< L > = 0.48, < L^2 > = 0.31$	Xtriage
	0.013 for -h,l,k	
	0.015 for -k,-h,-l	
Estimated twinning fraction	0.015 for l,-k,h	Xtriage
	0.000 for l,h,k	
	0.000 for k,l,h	
F_o, F_c correlation	0.95	EDS
Total number of atoms	11034	wwPDB-VP
Average B, all atoms $(Å^2)$	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 13.44% of the height of the origin peak. No significant pseudotranslation is detected.

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.



 $^{^1 \}mathrm{Intensities}$ 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: GDR, NDP

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	Bo	ond angles
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.31	0/2688	0.57	2/3648~(0.1%)
1	В	0.30	0/2689	0.56	1/3653~(0.0%)
1	С	0.31	0/2683	0.56	1/3644~(0.0%)
1	D	0.30	0/2434	0.55	1/3306~(0.0%)
All	All	0.30	0/10494	0.56	5/14251~(0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	116	GLN	N-CA-C	-6.80	92.64	111.00
1	В	116	GLN	N-CA-C	-6.69	92.93	111.00
1	D	116	GLN	N-CA-C	-6.32	93.95	111.00
1	С	116	GLN	N-CA-C	-6.26	94.09	111.00
1	А	54	GLU	N-CA-C	-5.35	96.54	111.00

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	А	2625	0	2532	33	0
1	В	2626	0	2510	49	0

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		i previous				
Mol	Chain	Non-H	${ m H}({ m model})$	H(added)	Clashes	Symm-Clashes
1	С	2620	0	2510	35	0
1	D	2382	0	2239	26	0
2	А	48	0	26	4	0
2	В	48	0	26	6	0
2	С	48	0	26	5	0
2	D	48	0	26	1	0
3	А	114	0	69	17	0
4	А	140	0	0	4	0
4	В	109	0	0	0	0
4	С	130	0	0	3	0
4	D	96	0	0	2	0
All	All	11034	0	9964	153	0

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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 7.

The worst 5 of 153 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)
2:A:701:NDP:H41N	3:A:801:GDR:HC62	1.41	1.02
3:A:802:GDR:HC62	2:B:702:NDP:H41N	1.44	0.97
3:A:803:GDR:HC62	2:C:703:NDP:H41N	1.52	0.90
1:B:231:ARG:HG3	1:B:235:ARG:HH12	1.46	0.80
1:B:215:HIS:CE1	2:B:702:NDP:H42N	2.17	0.79

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	А	329/381~(86%)	319~(97%)	9(3%)	1 (0%)	41 46	

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	ntiles
1	В	332/381~(87%)	325~(98%)	6~(2%)	1 (0%)	41	46
1	С	330/381~(87%)	318~(96%)	12~(4%)	0	100	100
1	D	305/381~(80%)	295~(97%)	10 (3%)	0	100	100
All	All	1296/1524~(85%)	1257 (97%)	37 (3%)	2(0%)	47	55

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All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	83	ALA
1	В	83	ALA

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	P	Perce	ntiles
1	А	270/323~(84%)	269 (100%)	1 (0%)		91	96
1	В	267/323~(83%)	266 (100%)	1 (0%)		91	96
1	С	268/323~(83%)	264 (98%)	4 (2%)		65	78
1	D	235/323~(73%)	234 (100%)	1 (0%)		91	96
All	All	1040/1292~(80%)	1033 (99%)	7 (1%)		84	91

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	305	TYR
1	С	320	ASN
1	D	116	GLN
1	С	354	LEU
1	С	116	GLN

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 16 such side chains are listed below:



Mol	Chain	Res	Type
1	D	223	ASN
1	D	180	HIS
1	С	320	ASN
1	D	173	GLN
1	С	248	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

7 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bo	Bond lengths			Bond angles		
1VIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	NDP	В	702	-	$45,\!52,\!52$	1.86	4 (8%)	53,80,80	0.86	2(3%)	
3	GDR	А	802	-	34,41,41	0.97	3 (8%)	45,64,64	0.74	2 (4%)	
2	NDP	А	701	-	45,52,52	1.82	4 (8%)	53,80,80	0.81	1 (1%)	
3	GDR	А	803	-	34,41,41	0.94	3 (8%)	45,64,64	0.78	2 (4%)	
2	NDP	D	704	-	45,52,52	1.88	5 (11%)	53,80,80	0.86	2(3%)	
2	NDP	С	703	-	45,52,52	1.84	4 (8%)	53,80,80	0.84	2(3%)	
3	GDR	А	801	-	34,41,41	0.94	3 (8%)	45,64,64	0.73	2 (4%)	



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	NDP	В	702	-	-	9/30/77/77	0/5/5/5
3	GDR	А	802	-	-	3/17/57/57	0/4/4/4
2	NDP	А	701	-	-	7/30/77/77	0/5/5/5
3	GDR	А	803	-	-	4/17/57/57	0/4/4/4
2	NDP	D	704	-	-	9/30/77/77	0/5/5/5
2	NDP	С	703	-	-	7/30/77/77	0/5/5/5
3	GDR	А	801	-	-	2/17/57/57	0/4/4/4

The worst 5 of 26 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
2	D	704	NDP	C4N-C3N	-7.42	1.35	1.49
2	В	702	NDP	C4N-C3N	-7.34	1.35	1.49
2	С	703	NDP	C4N-C3N	-7.29	1.35	1.49
2	А	701	NDP	C4N-C3N	-7.21	1.35	1.49
2	D	704	NDP	C7N-C3N	-6.31	1.35	1.48

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	803	GDR	O3A-PB-O3B	2.87	108.27	102.48
2	D	704	NDP	O4B-C1B-C2B	-2.77	101.78	106.59
2	В	702	NDP	O4B-C1B-C2B	-2.48	102.28	106.59
3	А	802	GDR	O3A-PB-O3B	2.46	107.44	102.48
3	А	801	GDR	O3A-PB-O3B	2.42	107.37	102.48

There are no chirality outliers.

5 of 41 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	701	NDP	C2B-O2B-P2B-O1X
2	В	702	NDP	C2B-O2B-P2B-O1X
2	С	703	NDP	C2B-O2B-P2B-O1X
2	D	704	NDP	C2B-O2B-P2B-O1X
3	А	802	GDR	C1'-O3B-PB-O3A



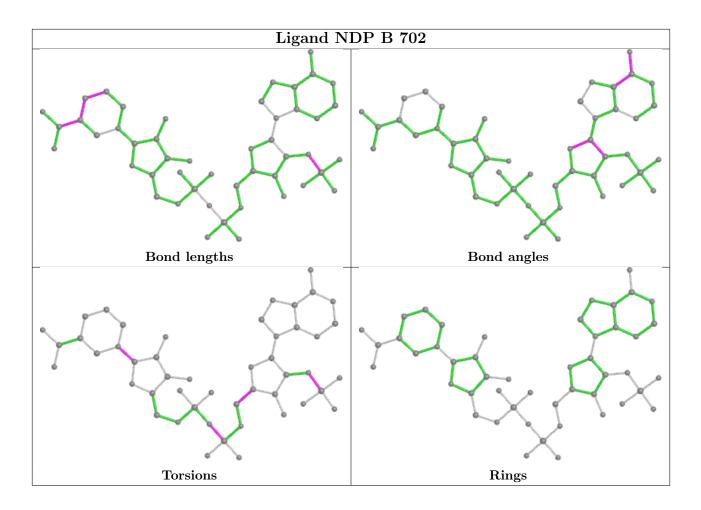
There are no ring outliers.

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	702	NDP	6	0
3	А	802	GDR	4	0
2	А	701	NDP	4	0
3	А	803	GDR	6	0
2	D	704	NDP	1	0
2	С	703	NDP	5	0
3	А	801	GDR	7	0

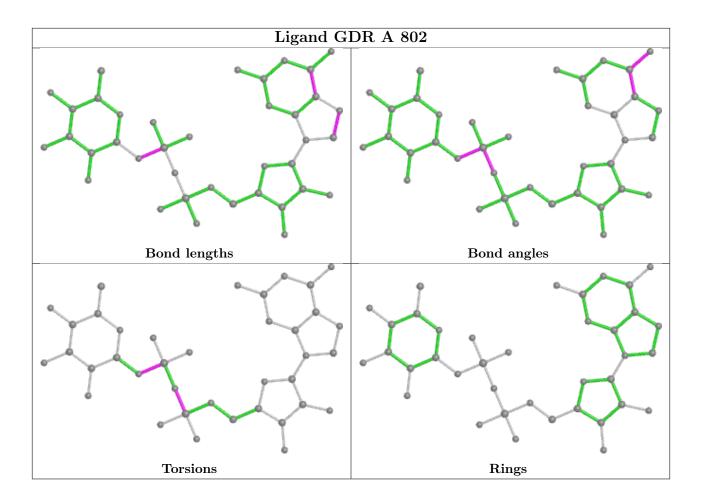
7 monomers are involved in 21 short contacts:

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.

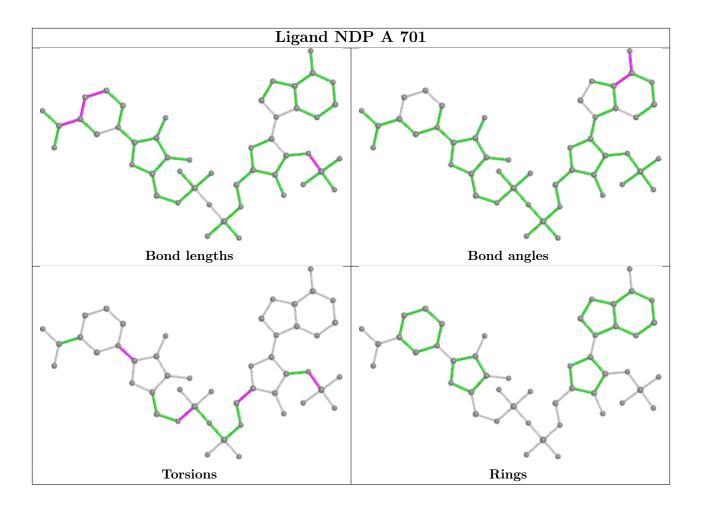




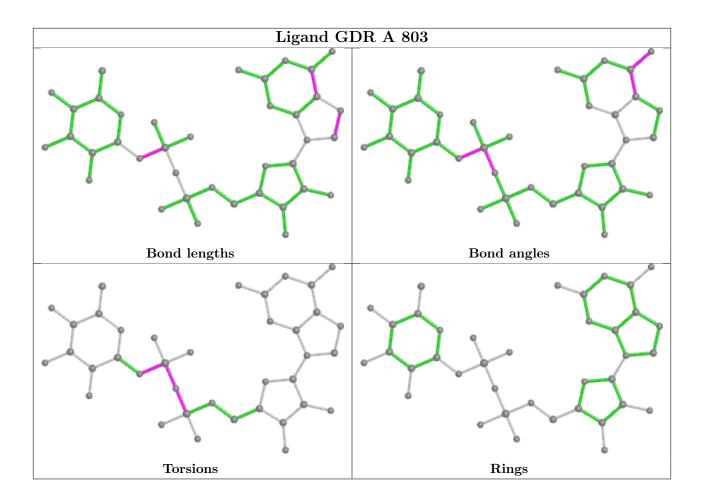




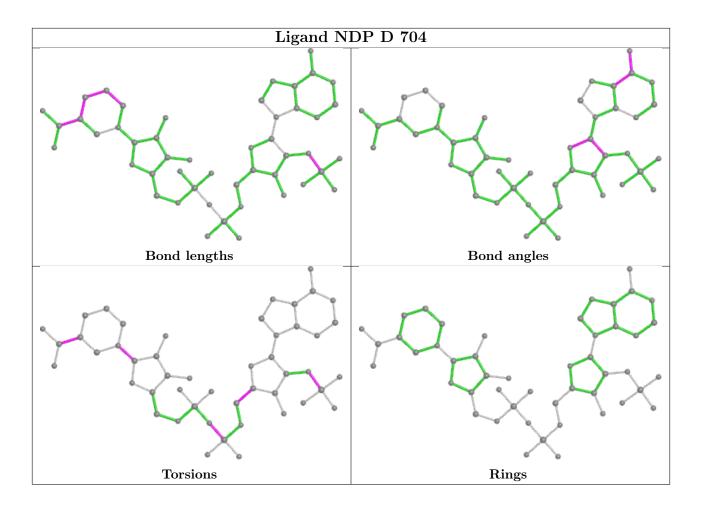




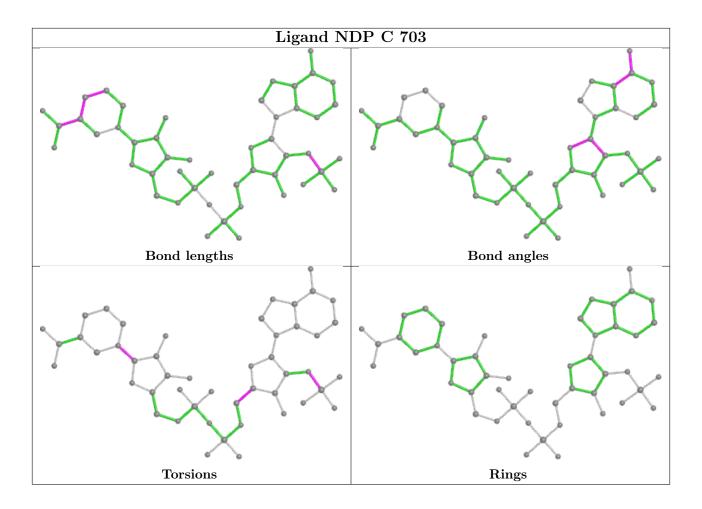




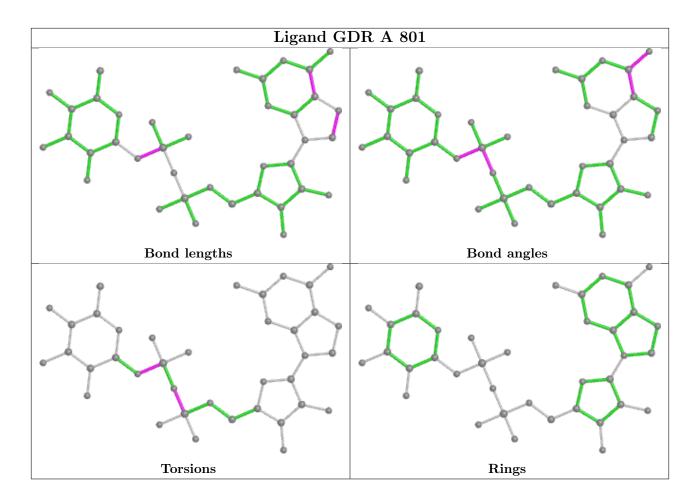












5.7 Other polymers (i)

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	$\langle RSRZ \rangle$	#RSRZ>2	2	$\mathbf{OWAB}(\mathbf{\AA}^2)$	$\mathbf{Q}{<}0.9$
1	А	333/381~(87%)	-0.03	11 (3%) 46	44	20, 32, 46, 60	0
1	В	336/381~(88%)	0.10	16 (4%) 30	29	22, 35, 48, 61	0
1	С	334/381~(87%)	0.20	19 (5%) 23	22	20, 36, 47, 54	0
1	D	313/381 (82%)	0.28	30 (9%) 8	6	22, 35, 54, 59	0
All	All	1316/1524 (86%)	0.14	76 (5%) 23	22	20, 34, 50, 61	0

The worst 5 of 76 RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	D	251	ALA	6.0
1	D	361	LEU	5.4
1	D	74	TYR	4.4
1	В	83	ALA	4.2
1	С	74	TYR	4.1

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.

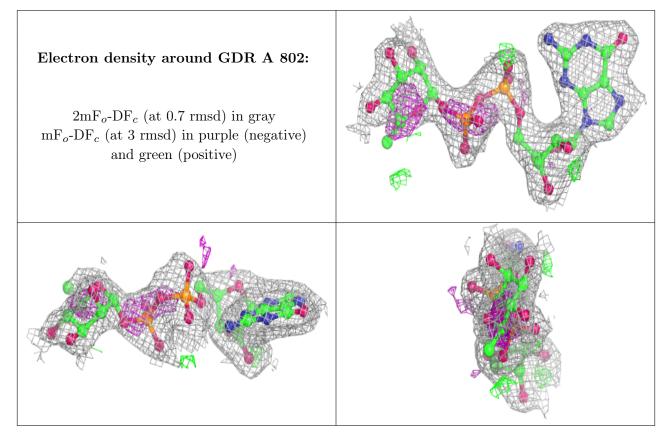
6.4 Ligands (i)

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.

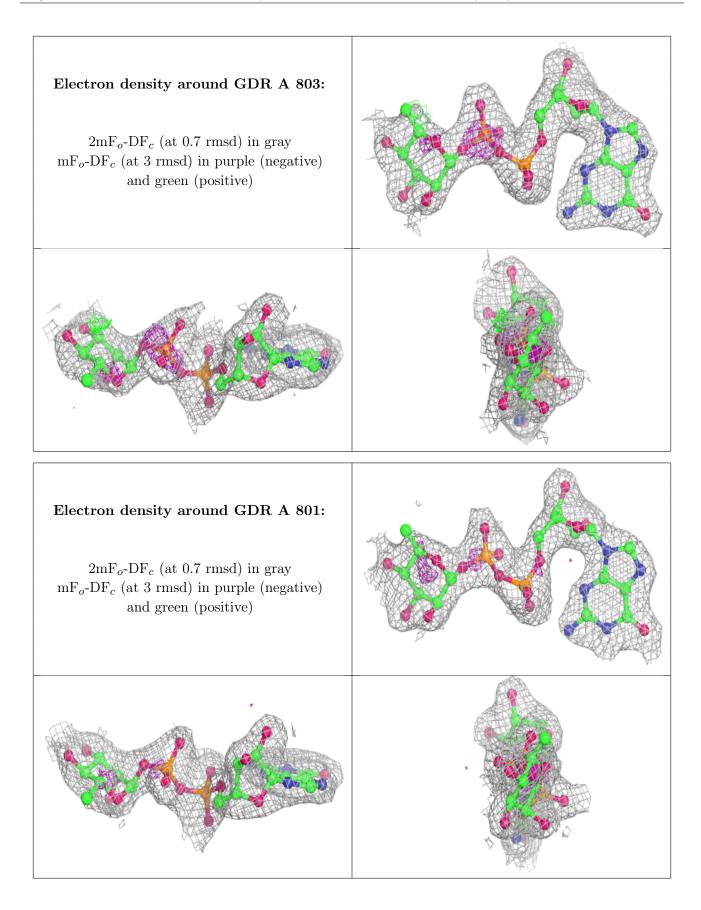


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
3	GDR	А	802	38/38	0.93	0.12	40,43,48,48	0
3	GDR	А	803	38/38	0.94	0.13	$38,\!43,\!47,\!47$	0
3	GDR	А	801	38/38	0.95	0.13	34,38,40,41	0
2	NDP	С	703	48/48	0.96	0.14	21,27,36,38	0
2	NDP	D	704	48/48	0.97	0.12	23,28,34,35	0
2	NDP	А	701	48/48	0.97	0.13	20,24,29,30	0
2	NDP	В	702	48/48	0.98	0.13	23,26,36,37	0

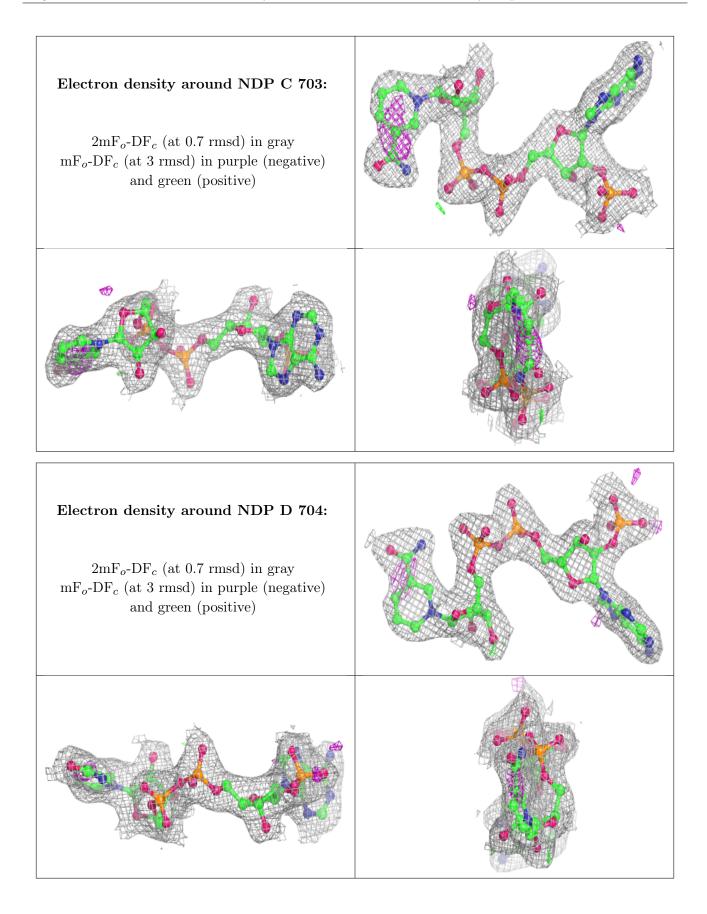
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



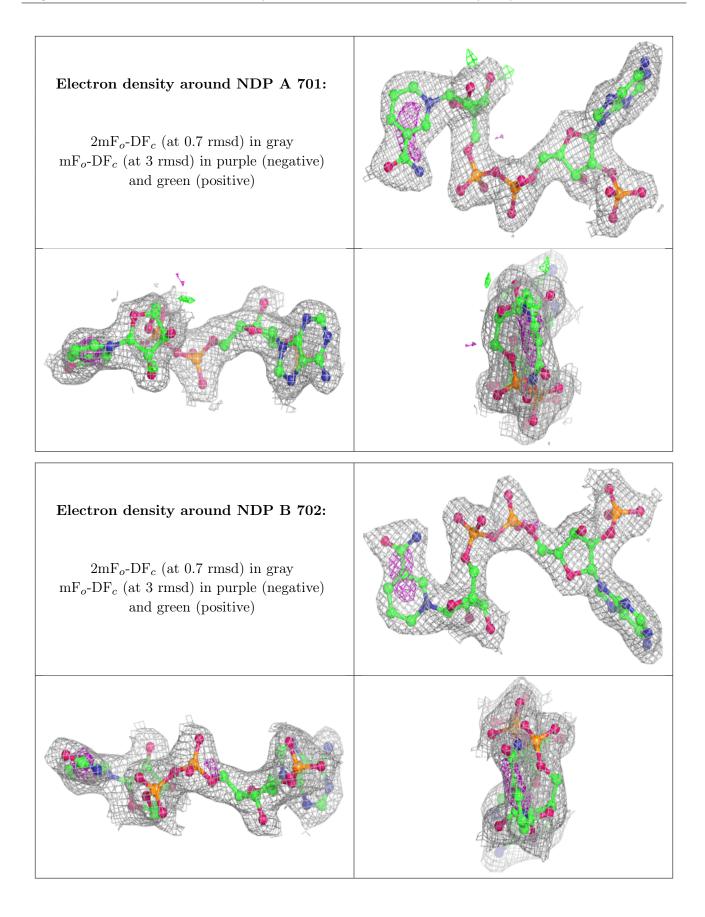














6.5 Other polymers (i)

There are no such residues in this entry.

