

# Full wwPDB X-ray Structure Validation Report (i)

Jun 16, 2024 – 07:47 PM EDT

PDB ID : 5G6R

Title : Imine reductase from Aspergillus oryzae Authors : Man, H.; Aleku, G.; Turner, N.J.; Grogan, G.

Deposited on : 2016-06-23

Resolution : 1.82 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 : 2.37.1

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)

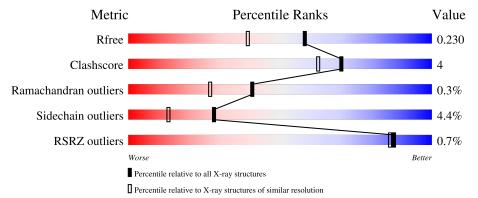
Validation Pipeline (wwPDB-VP) : 2.37.1

## 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 1.82 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
$R_{free}$	130704	7484 (1.84-1.80)
Clashscore	141614	8401 (1.84-1.80)
Ramachandran outliers	138981	8290 (1.84-1.80)
Sidechain outliers	138945	8290 (1.84-1.80)
RSRZ outliers	127900	7371 (1.84-1.80)

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	295	89%	7% ••	
1	В	295	86%	11%	



# 2 Entry composition (i)

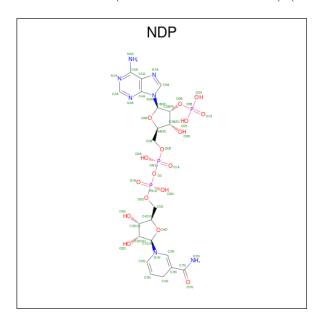
There are 3 unique types of molecules in this entry. The entry contains 4391 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 IMINE REDUCTASE.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	288	Total	C	N	0	S	0	0	0
			2088	1329	345	405	9	_		-
1	B	289	Total	С	N	О	S	0	0	0
1	Ъ	209	2043	1302	338	395	8		0	

• Molecule 2 is NADPH DIHYDRO-NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NDP) (formula: C<sub>21</sub>H<sub>30</sub>N<sub>7</sub>O<sub>17</sub>P<sub>3</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
2	Λ	1	Total	С	N	О	Р	0	0
	A	1	48	21	7	17	3	U	
2	D	1	Total	С	N	О	Р	0	0
	Ъ	1	48	21	7	17	3	U	0

• Molecule 3 is water.



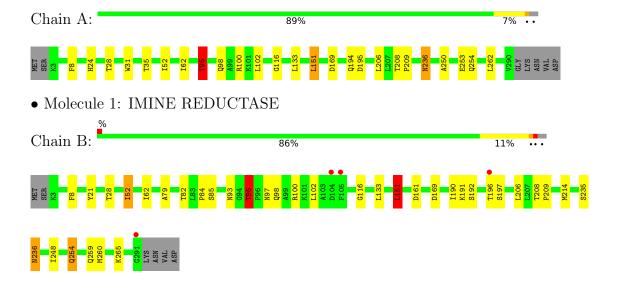
$\mathbf{N}$	/Iol	Chain	Residues	Atoms	ZeroOcc	AltConf
	3	A	112	Total O 112 112	0	0
	3	В	52	Total O 52 52	0	0



# 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: IMINE REDUCTASE





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	39.27Å 92.44Å 84.51Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 100.33° 90.00°	Depositor
Resolution (Å)	61.82 - 1.82	Depositor
Resolution (A)	61.82 - 1.82	EDS
% Data completeness	99.6 (61.82-1.82)	Depositor
(in resolution range)	99.6 (61.82-1.82)	EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.75 (at 1.82Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
P. P.	0.185 , 0.225	Depositor
$R, R_{free}$	0.193 , 0.230	DCC
$R_{free}$ test set	2539 reflections (4.79%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	32.7	Xtriage
Anisotropy	0.081	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.32 , 38.4	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.47, < L^2>=0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	4391	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.38% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>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.



<sup>&</sup>lt;sup>1</sup>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: 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	Bo	nd lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.94	1/2123 (0.0%)	0.91	5/2889~(0.2%)	
1	В	0.85	0/2077	0.91	7/2832~(0.2%)	
All	All	0.90	1/4200 (0.0%)	0.91	$12/5721 \ (0.2\%)$	

#### All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
1	A	95	THR	CB-CG2	-5.83	1.33	1.52

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
1	В	214	MET	CG-SD-CE	11.57	118.71	100.20
1	В	100	ARG	NE-CZ-NH2	-7.77	116.42	120.30
1	A	151	LEU	CA-CB-CG	7.62	132.82	115.30
1	В	100	ARG	NE-CZ-NH1	7.50	124.05	120.30
1	В	151	LEU	CA-CB-CG	7.28	132.04	115.30
1	В	161	ASP	CB-CG-OD1	6.50	124.15	118.30
1	В	95	THR	N-CA-CB	-5.84	99.21	110.30
1	A	100	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	A	95	THR	N-CA-CB	-5.42	100.00	110.30
1	В	169	ASP	CB-CG-OD1	5.36	123.12	118.30
1	A	100	ARG	NE-CZ-NH2	-5.35	117.63	120.30
1	A	169	ASP	CB-CG-OD1	5.24	123.01	118.30

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	2088	0	2062	11	0
1	В	2043	0	1992	20	0
2	A	48	0	26	0	0
2	В	48	0	26	2	0
3	A	112	0	0	2	0
3	В	52	0	0	0	0
All	All	4391	0	4106	30	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 4.

All (30) 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:192:SER:OG	1:B:254:GLN:NE2	2.04	0.89
1:B:79:ALA:O	1:B:82:THR:HG22	1.96	0.65
1:B:248:ILE:CD1	1:B:265:LYS:HD2	2.30	0.61
1:A:8:PHE:CE1	1:A:62:ILE:HG23	2.39	0.57
1:B:8:PHE:CE1	1:B:62:ILE:HG23	2.40	0.56
1:A:8:PHE:CD1	1:A:62:ILE:HG23	2.41	0.55
1:A:24:HIS:HE1	3:A:2010:HOH:O	1.89	0.55
1:B:8:PHE:CD1	1:B:62:ILE:HG23	2.41	0.55
1:B:93:ASN:ND2	2:B:1001:NDP:O2D	2.40	0.55
1:B:208:THR:HB	1:B:209:PRO:HD3	1.90	0.53
1:B:236:ASN:C	1:B:236:ASN:HD22	2.13	0.52
1:A:236:ASN:HD22	1:A:236:ASN:C	2.13	0.51
1:B:95:THR:HG22	1:B:98:GLN:H	1.75	0.51
1:A:116:GLY:HA2	1:A:133:LEU:O	2.13	0.48
1:A:95:THR:HG22	1:A:98:GLN:H	1.77	0.48
3:A:2112:HOH:O	1:B:235:SER:HB2	2.14	0.47
1:B:52:ILE:HG13	1:B:79:ALA:HB2	1.97	0.46
1:B:259:GLN:HG3	1:B:260:MET:CE	2.46	0.46
1:B:116:GLY:HA2	1:B:133:LEU:O	2.15	0.46
1:B:259:GLN:HG3	1:B:260:MET:HE2	1.98	0.46
1:A:208:THR:HB	1:A:209:PRO:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${ m distance}({ m \AA})$	overlap (Å)
1:A:31:TRP:CZ3	1:A:52:ILE:HD11	2.51	0.45
1:A:250:ALA:O	1:A:254:GLN:HG2	2.17	0.45
1:B:190:ILE:HD12	1:B:191:LYS:N	2.33	0.44
1:B:84:PRO:C	1:B:85:SER:HG	2.21	0.44
1:A:8:PHE:CD1	1:A:8:PHE:N	2.86	0.44
1:B:93:ASN:HB2	2:B:1001:NDP:O2D	2.18	0.43
1:B:248:ILE:HD11	1:B:265:LYS:HD2	2.00	0.41
1:B:21:TYR:CE1	1:B:151:LEU:HD21	2.56	0.41
1:A:253:GLU:OE1	1:B:97:ASN:HB2	2.21	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	Perce	entiles
1	A	286/295 (97%)	281 (98%)	5 (2%)	0	100	100
1	В	287/295 (97%)	280 (98%)	5 (2%)	2 (1%)	22	10
All	All	573/590 (97%)	561 (98%)	10 (2%)	2 (0%)	41	27

#### All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	197	SER
1	В	196	THR

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	212/233 (91%)	202 (95%)	10 (5%)	26 11	
1	В	201/233~(86%)	193 (96%)	8 (4%)	31 16	
All	All	413/466 (89%)	395 (96%)	18 (4%)	28 13	

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

Mol	Chain	Res	Type
1	A	28	THR
1	A	35	THR
1	A	95	THR
1	A	102	LEU
1	A	151	LEU
1	A	194	GLN
1	A	195	ASP
1	A	206	LEU
1	A	236	ASN
1	A	262	LEU
1	В	28	THR
1	В	52	ILE
1	В	95	THR
1	В	102	LEU
1	В	151	LEU
1	В	206	LEU
1	В	236	ASN
1	В	254	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	24	HIS
1	A	57	ASN
1	A	224	GLN
1	A	236	ASN
1	В	44	GLN
1	В	59	ASN
1	В	93	ASN
1	В	224	GLN
1	В	236	ASN
1	В	254	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 monosaccharides in this entry.

### 5.6 Ligand geometry (i)

2 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	Tuno	Chain	Res	Link	Во	ond leng	ths	В	ond ang	gles
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
2	NDP	A	1000	-	45,52,52	1.30	6 (13%)	53,80,80	1.73	9 (16%)
2	NDP	В	1001	-	45,52,52	1.19	4 (8%)	53,80,80	1.70	11 (20%)

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	A	1000	-	-	5/30/77/77	0/5/5/5
2	NDP	В	1001	-	-	13/30/77/77	0/5/5/5

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
2	A	1000	NDP	P2B-O2B	3.85	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
2	A	1000	NDP	C6N-C5N	3.82	1.40	1.33
2	В	1001	NDP	C6N-C5N	3.77	1.40	1.33
2	A	1000	NDP	C2A-N3A	2.76	1.36	1.32
2	В	1001	NDP	C2A-N3A	2.63	1.36	1.32
2	В	1001	NDP	C5A-C4A	2.54	1.47	1.40
2	A	1000	NDP	C4A-N3A	2.38	1.38	1.35
2	A	1000	NDP	C5A-C4A	2.25	1.46	1.40
2	A	1000	NDP	C2N-C3N	2.18	1.41	1.34
2	В	1001	NDP	C2N-C3N	2.04	1.40	1.34

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}({}^o)$	$\operatorname{Ideal}({}^{o})$
2	В	1001	NDP	C1B-N9A-C4A	-5.22	117.47	126.64
2	В	1001	NDP	N3A-C2A-N1A	-5.10	120.70	128.68
2	A	1000	NDP	N3A-C2A-N1A	-4.87	121.06	128.68
2	A	1000	NDP	C1B-N9A-C4A	-4.65	118.48	126.64
2	A	1000	NDP	C5B-C4B-C3B	-3.97	100.29	115.18
2	В	1001	NDP	C3N-C7N-N7N	3.53	123.93	117.67
2	В	1001	NDP	O4D-C1D-N1N	3.06	114.03	108.06
2	В	1001	NDP	O2X-P2B-O2B	-3.03	92.43	105.99
2	В	1001	NDP	C3D-C2D-C1D	2.98	107.09	101.43
2	A	1000	NDP	O4D-C1D-N1N	2.95	113.82	108.06
2	A	1000	NDP	C2A-N1A-C6A	2.92	123.75	118.75
2	В	1001	NDP	C2A-N1A-C6A	2.63	123.25	118.75
2	A	1000	NDP	O2A-PA-O1A	2.50	124.60	112.24
2	В	1001	NDP	N6A-C6A-N1A	2.41	123.58	118.57
2	В	1001	NDP	O3X-P2B-O2X	2.35	116.61	107.64
2	A	1000	NDP	O3B-C3B-C2B	2.22	117.47	111.17
2	В	1001	NDP	C5A-C6A-N6A	-2.21	117.00	120.35
2	A	1000	NDP	O3X-P2B-O2X	2.19	116.01	107.64
2	A	1000	NDP	O2X-P2B-O2B	-2.18	96.24	105.99
2	В	1001	NDP	O7N-C7N-N7N	-2.09	118.00	122.88

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1000	NDP	C2B-O2B-P2B-O3X
2	В	1001	NDP	C5B-O5B-PA-O2A
2	В	1001	NDP	C5D-O5D-PN-O1N
2	В	1001	NDP	C5D-O5D-PN-O2N

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Mol	Chain	Res	Type	Atoms
2	В	1001	NDP	PA-O3-PN-O1N
2	A	1000	NDP	PA-O3-PN-O5D
2	В	1001	NDP	PN-O3-PA-O5B
2	A	1000	NDP	O4D-C1D-N1N-C6N
2	В	1001	NDP	C5B-O5B-PA-O3
2	В	1001	NDP	O4D-C1D-N1N-C6N
2	В	1001	NDP	C5B-O5B-PA-O1A
2	В	1001	NDP	O4D-C4D-C5D-O5D
2	В	1001	NDP	PA-O3-PN-O2N
2	A	1000	NDP	PN-O3-PA-O1A
2	A	1000	NDP	PN-O3-PA-O2A
2	В	1001	NDP	C2B-O2B-P2B-O2X
2	В	1001	NDP	C5D-O5D-PN-O3
2	В	1001	NDP	O4B-C4B-C5B-O5B

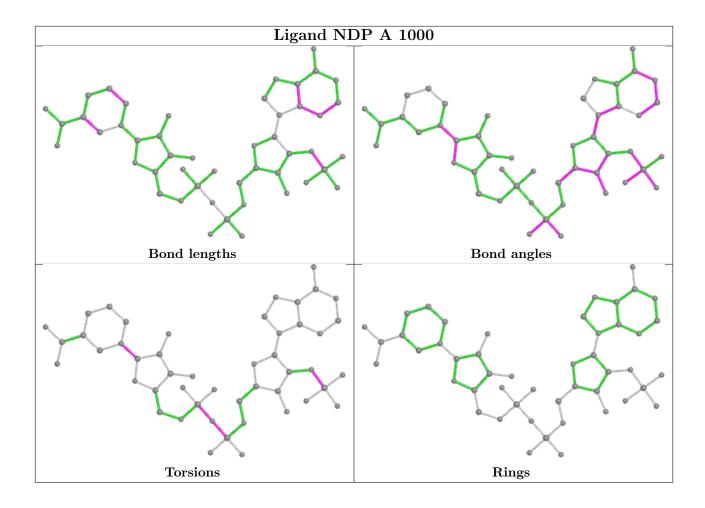
There are no ring outliers.

1 monomer is involved in 2 short contacts:

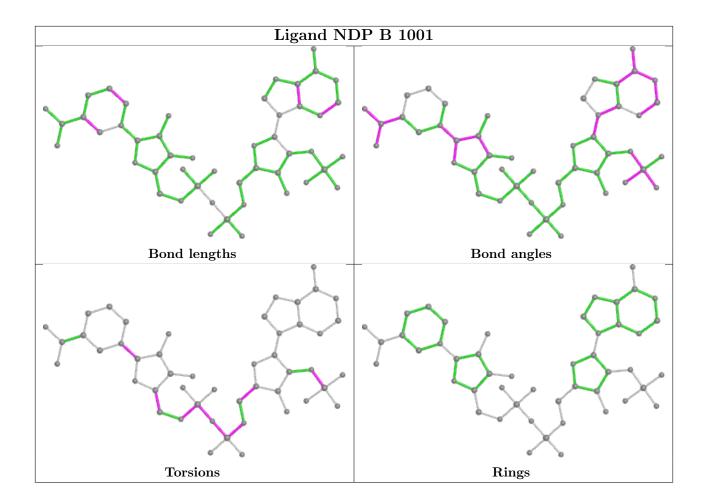
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	1001	NDP	2	0

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 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	sed $ $ <rsrz><math> </math> #RSRZ&gt;2</rsrz>		$OWAB(A^2)$	Q<0.9
1	A	288/295 (97%)	-0.39	0 100 100	20, 34, 54, 77	0
1	В	$289/295 \ (97\%)$	-0.24	4 (1%) 75 72	21, 42, 66, 91	0
All	All	577/590 (97%)	-0.31	4 (0%) 87 86	20, 37, 62, 91	0

#### All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	291	GLY	3.9
1	В	196	THR	3.2
1	В	104	ASP	2.2
1	В	105	PHE	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 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	$\operatorname{Res}$	Atoms	RSCC	RSR	$ m B ext{-}factors( m \AA^2)$	Q<0.9
2	NDP	В	1001	48/48	0.90	0.19	52,77,100,104	0

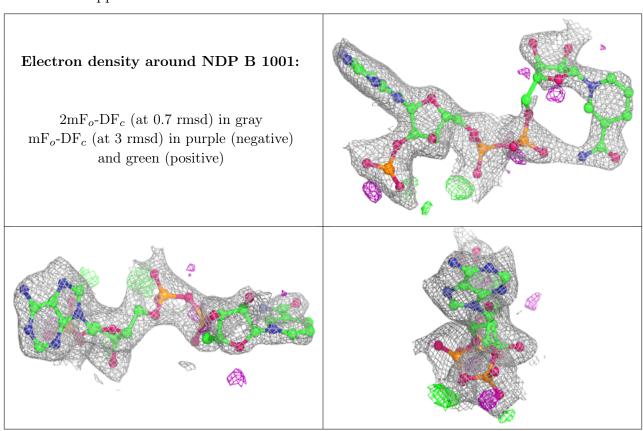
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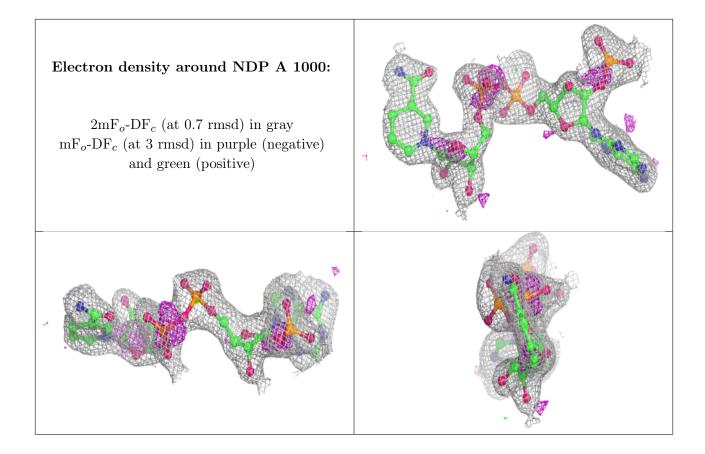
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$ m B ext{-}factors(\AA^2)$	Q<0.9
2	NDP	A	1000	48/48	0.93	0.15	39,49,64,77	0

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.

