

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

#### Aug 22, 2020 - 08:42 PM BST

PDB ID	:	5U5G
$\operatorname{Title}$	:	Psf3 in complex with NADP+ and 2-OPP
Authors	:	Olivares, P.; Nair, S.K.
Deposited on		
$\operatorname{Resolution}$	:	2.05  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 following versions of software and data (see references (1)) were used in the production of this report:

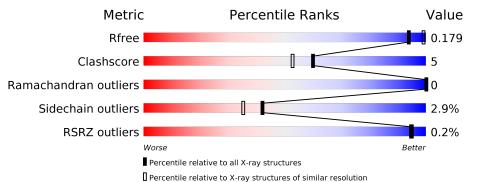
Ŭ.	:	4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.13.1
$\mathrm{buster}$ -report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
$\operatorname{Refmac}$	:	5.8.0158
$\operatorname{CCP4}$	:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13.1

# 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 2.05 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
$R_{free}$	130704	1692 (2.04-2.04)
Clashscore	141614	1773 (2.04-2.04)
Ramachandran outliers	138981	1752(2.04-2.04)
Sidechain outliers	138945	1752 (2.04-2.04)
RSRZ outliers	127900	1672(2.04-2.04)

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 <=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	295	88%	8%	•	•
1	В	295	84%	11%	• •	
1	С	295	87%	8%	• •	•
1	D	295	86%	9%	• •	



# 2 Entry composition (i)

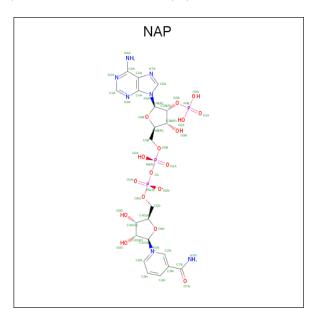
There are 5 unique types of molecules in this entry. The entry contains 9610 atoms, of which 0 are hydrogens and 0 are deuteriums.

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		At	oms			ZeroOcc	AltConf	Trace	
1	Λ	286	Total	С	Ν	Ο	$\mathbf{S}$	0	0	0	
	A	280	2133	1335	378	406	14	0	0	0	
1	В	284	Total	С	Ν	Ο	S	0	0	0	
	D	204	2118	1326	374	404	14	0	0	0	
1	С	283	Total	С	Ν	Ο	S	0	0	0	
	U	200	2112	1323	373	402	14	0	0	0	
1	D	284	Total	С	Ν	Ο	S	0	0	0	
		204	2118	1326	374	404	14	0	U	U	

• Molecule 1 is a protein called 6-phosphogluconate dehydrogenase.

• Molecule 2 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C<sub>21</sub>H<sub>28</sub>N<sub>7</sub>O<sub>17</sub>P<sub>3</sub>).



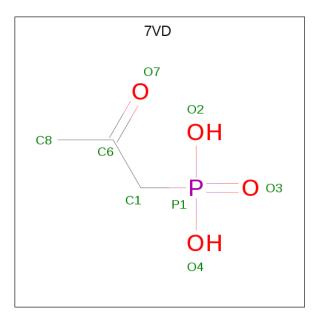
Mol	Chain	Residues		Ate	oms			ZeroOcc	AltConf	
0	Δ	1	Total	С	Ν	Ο	Р	0	0	
	А	1	48	21	7	17	3	0	0	
0	D	1	Total	С	Ν	Ο	Р	0	0	
	D		48	21	7	17	3	0		

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Co	ntinued	l fron	ı previous pa	ge						
Mo	ol Ch	ain	Residues		$\mathbf{At}$	$\mathbf{oms}$			ZeroOcc	AltConf
2		n	1	Total					0	0
		0	L	48	21	7	17	3	0	0
2		n	1	Total	-		-	_	0	0
		U	L	48	21	7	17	3	0	0

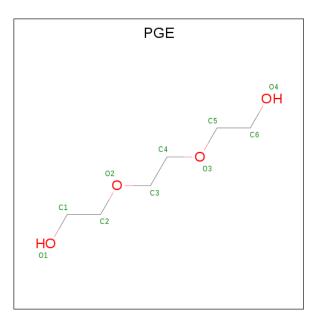
• Molecule 3 is (2-oxopropyl)phosphonic acid (three-letter code: 7VD) (formula:  $C_3H_7O_4P$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total         C         O         P           8         3         4         1	0	0
3	В	1	Total         C         O         P           8         3         4         1	0	0
3	С	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{P} \\ 8 & 3 & 4 & 1 \end{array}$	0	0
3	D	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{O} & \text{P} \\ 8 & 3 & 4 & 1 \end{array}$	0	0

• Molecule 4 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula:  $C_6H_{14}O_4$ ).





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

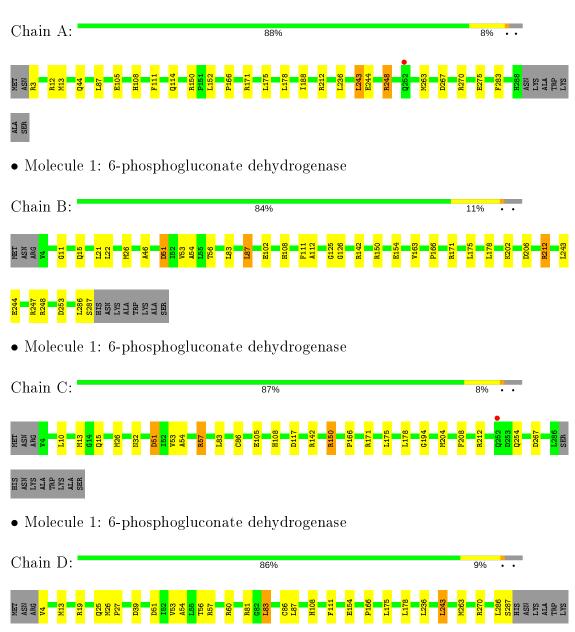
• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	230	Total O 230 230	0	0
5	В	227	Total         O           227         227	0	0
5	С	208	Total         O           208         208	0	0
5	D	220	Total O 220 220	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: 6-phosphogluconate dehydrogenase



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	46.08Å $87.37$ Å $164.01$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $92.04^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	46.32 - 2.05	Depositor
Resolution (A)	46.32 - 2.05	EDS
% Data completeness	94.4(46.32 - 2.05)	Depositor
(in resolution range)	$94.4 \ (46.32 - 2.05)$	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	0.12	Depositor
$< I/\sigma(I) > 1$	$2.60 ({ m at} 2.05 { m \AA})$	Xtriage
Refinement program	PHENIX $(1.10_{2155})$	Depositor
$R, R_{free}$	0.170 , $0.207$	Depositor
$\mathbf{n}, \mathbf{n}_{free}$	0.172 , $0.179$	DCC
$R_{free}$ test set	3891 reflections $(5.03%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	25.8	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35 , $46.4$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.124 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	9610	wwPDB-VP
Average B, all atoms $(Å^2)$	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.54% of the height of the origin peak. No significant pseudotranslation is detected.

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



<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: NAP, PGE,  $7\mathrm{VD}$ 

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		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.39	0/2167	0.59	1/2939~(0.0%)	
1	В	0.41	0/2151	0.60	2/2917~(0.1%)	
1	С	0.59	4/2145~(0.2%)	0.56	0/2909	
1	D	0.40	0/2151	0.56	0/2917	
All	All	0.45	4/8614~(0.0%)	0.58	3/11682~(0.0%)	

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
1	С	150	ARG	NE-CZ	-11.42	1.18	1.33
1	С	150	ARG	CZ-NH1	-9.78	1.20	1.33
1	С	150	ARG	CZ-NH2	-9.54	1.20	1.33
1	С	150	ARG	CD-NE	-9.31	1.30	1.46

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
1	В	212	ARG	NE-CZ-NH2	-6.97	116.81	120.30
1	В	87	LEU	CB-CG-CD2	-6.10	100.63	111.00
1	А	248	ARG	NE-CZ-NH2	5.34	122.97	120.30

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



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2133	0	2130	17	0
1	В	2118	0	2121	27	0
1	С	2112	0	2116	19	0
1	D	2118	0	2121	18	0
2	А	48	0	25	1	0
2	В	48	0	25	2	0
2	С	48	0	25	1	0
2	D	48	0	25	1	0
3	А	8	0	0	1	0
3	В	8	0	0	1	0
3	С	8	0	0	0	0
3	D	8	0	0	1	0
4	А	10	0	14	0	0
4	С	10	0	14	1	0
5	А	230	0	0	4	0
5	В	227	0	0	7	0
5	С	208	0	0	5	1
5	D	220	0	0	7	1
All	All	9610	0	8616	79	1

the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

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 5.

The worst 5 of 79 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:D:39:ASP:OD1	5:D:401:HOH:O	1.84	0.95
1:C:204:MET:SD	5:C:562:HOH:O	2.25	0.94
1:C:15:GLN:NE2	5:C:401:HOH:O	2.02	0.90
1:D:287:SER:OG	5:D:402:HOH:O	1.91	0.88
1:B:206:ASP:OD2	5:B:402:HOH:O	2.02	0.77

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:550:HOH:O	5:D:402:HOH:O[2_657]	2.00	0.20



### 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	ntiles
1	А	284/295~(96%)	281~(99%)	3~(1%)	0	100	100
1	В	282/295~(96%)	278~(99%)	4 (1%)	0	100	100
1	С	281/295~(95%)	278~(99%)	3 (1%)	0	100	100
1	D	282/295~(96%)	279~(99%)	3~(1%)	0	100	100
All	All	1129/1180~(96%)	1116 (99%)	13~(1%)	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	Percen	tiles
1	А	224/232~(97%)	219~(98%)	5(2%)	52	46
1	В	223/232~(96%)	214~(96%)	9 (4%)	31	24
1	С	222/232~(96%)	216~(97%)	6 (3%)	44	38
1	D	223/232~(96%)	217~(97%)	6 (3%)	44	38
All	All	892/928~(96%)	866~(97%)	26~(3%)	42	35

5 of 26 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	В	243	LEU
1	С	51	ASP
1	D	178	LEU

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Mol	Chain	Res	Type
1	В	286	LEU
1	В	287	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	В	29	HIS
1	В	114	GLN
1	С	252	GLN
1	D	25	GLN
1	D	73	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)

10 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	oe Chain Res		Гуре Chain	Link	B	ond leng	gths	E	Bond ang	gles
IVI		туре	Chain Res		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2	
	3	7VD	D	302	-	7,7,7	0.95	0	9,10,10	2.41	2 (22%)



Mal	Mol Type Chain		n Res Link		Bond lengths			Bond angles		
	Type	Cham	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
3	7VD	В	302	-	7,7,7	1.09	0	9,10,10	1.98	<mark>3 (33%)</mark>
4	PGE	С	303	-	$9,\!9,\!9$	0.27	0	8,8,8	0.48	0
2	NAP	D	301	-	$45,\!52,\!52$	2.74	15 (33%)	56,80,80	1.78	10 (17%)
2	NAP	А	301	-	45,52,52	2.90	13 (28%)	56,80,80	1.79	12 (21%)
3	7VD	С	302	-	7,7,7	1.11	0	9,10,10	1.32	1 (11%)
2	NAP	С	301	-	45,52,52	2.64	12 (26%)	56,80,80	1.77	12 (21%)
3	7VD	А	302	-	7,7,7	1.00	0	9,10,10	1.73	2 (22%)
4	PGE	А	303	-	$9,\!9,\!9$	0.32	0	8,8,8	0.34	0
2	NAP	В	301	-	45,52,52	2.48	12 (26%)	56,80,80	1.86	10 (17%)

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	7VD	D	302	-	-	1/5/5/5	-
3	7VD	В	302	-	-	$\frac{5}{5}/\frac{5}{5}$	-
4	PGE	С	303	-	-	3/7/7/7	-
2	NAP	D	301	-	-	3/31/67/67	0/5/5/5
2	NAP	А	301	-	-	2/31/67/67	0/5/5/5
3	7VD	С	302	-	-	3/5/5/5	-
2	NAP	С	301	-	-	6/31/67/67	0/5/5/5
3	7VD	А	302	-	-	$\frac{5}{5}/\frac{5}{5}$	-
4	PGE	А	303	-	-	2/7/7/7	-
2	NAP	В	301	-	_	4/31/67/67	0/5/5/5

The worst 5 of 52 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	А	301	NAP	P2B-O2B	13.71	1.85	1.59
2	D	301	NAP	P2B-O2B	11.73	1.81	1.59
2	С	301	NAP	P2B-O2B	10.35	1.78	1.59
2	В	301	NAP	P2B-O2B	10.17	1.78	1.59
2	А	301	NAP	C4N-C3N	6.85	1.51	1.39

The worst 5 of 52 bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	301	NAP	O7N-C7N-C3N	5.77	126.53	119.63
3	D	302	7VD	O3-P1-C1	-5.43	98.56	110.94
2	В	301	NAP	C5N-C4N-C3N	-5.32	114.04	120.34
2	С	301	NAP	PN-O3-PA	-5.32	114.58	132.83
2	D	301	NAP	C5N-C4N-C3N	-5.28	114.09	120.34

There are no chirality outliers.

5 of 34 torsion outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	Atoms
3	В	302	7VD	C6-C1-P1-O2
3	В	302	7VD	C6-C1-P1-O3
3	В	302	7VD	C6-C1-P1-O4
3	В	302	7VD	P1-C1-C6-C8
2	D	301	NAP	O4D-C1D-N1N-C2N

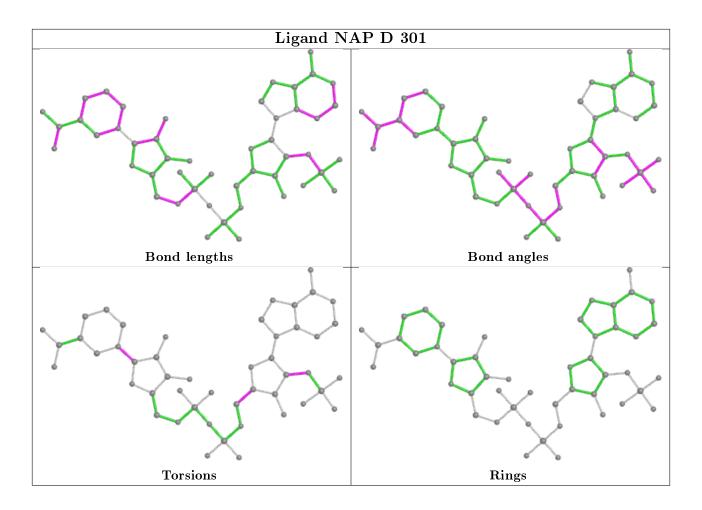
There are no ring outliers.

8 monomers are involved in 9 short contacts:

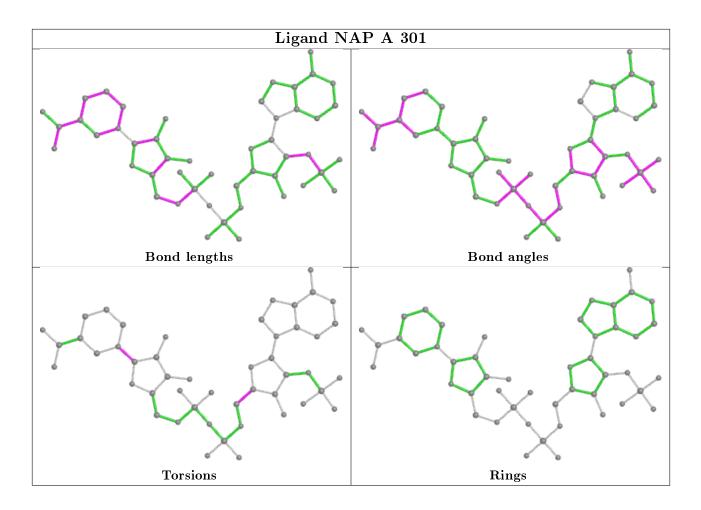
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	302	7VD	1	0
3	В	302	7VD	1	0
4	С	303	PGE	1	0
2	D	301	NAP	1	0
2	А	301	NAP	1	0
2	С	301	NAP	1	0
3	А	302	7VD	1	0
2	В	301	NAP	2	0

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 similar 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.

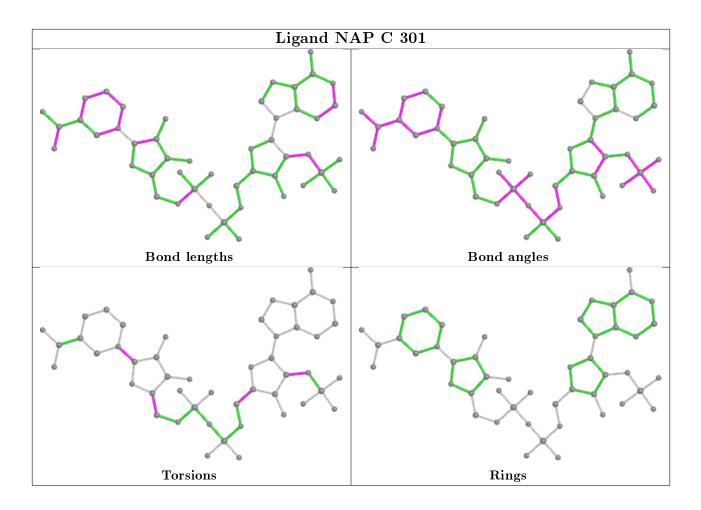






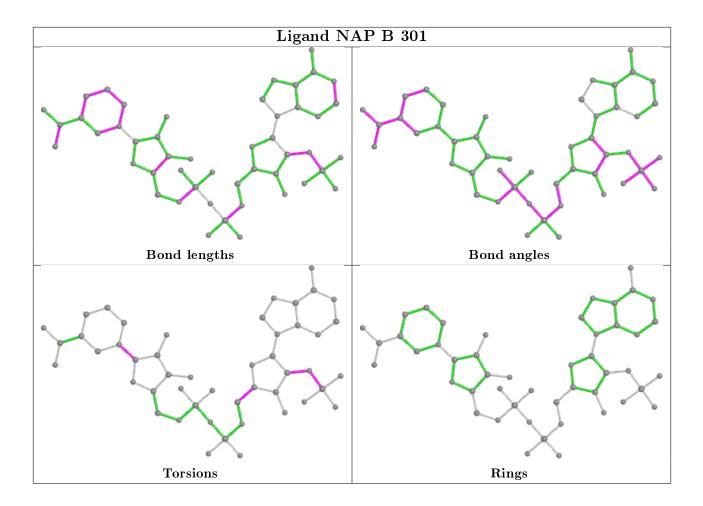












## 5.7 Other polymers (i)

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<sup>th</sup> 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	$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	286/295~(96%)	-0.42	1 (0%) 94 94	18, 25, 38, 59	0
1	В	284/295~(96%)	-0.44	0 100 100	18, 24, 37, 57	0
1	С	283/295~(95%)	-0.39	1 (0%) 92 93	19, 25, 38, 61	0
1	D	284/295~(96%)	-0.41	0 100 100	18, 26, 40, 61	0
All	All	1137/1180~(96%)	-0.42	2 (0%) 95 95	18, 25, 38, 61	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	252	GLN	2.2
1	А	252	GLN	2.1

### 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.

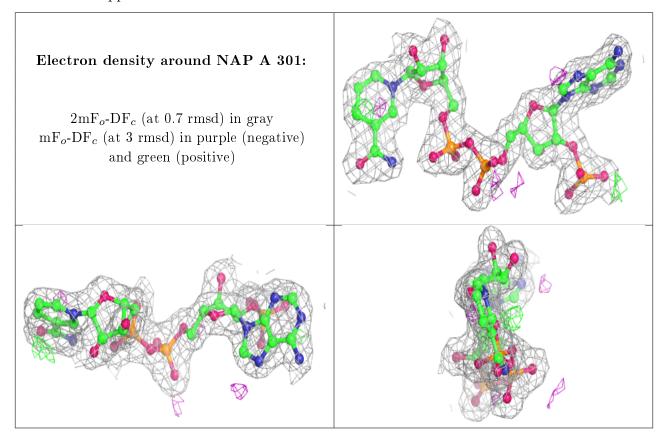
### 6.4 Ligands (i)

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.

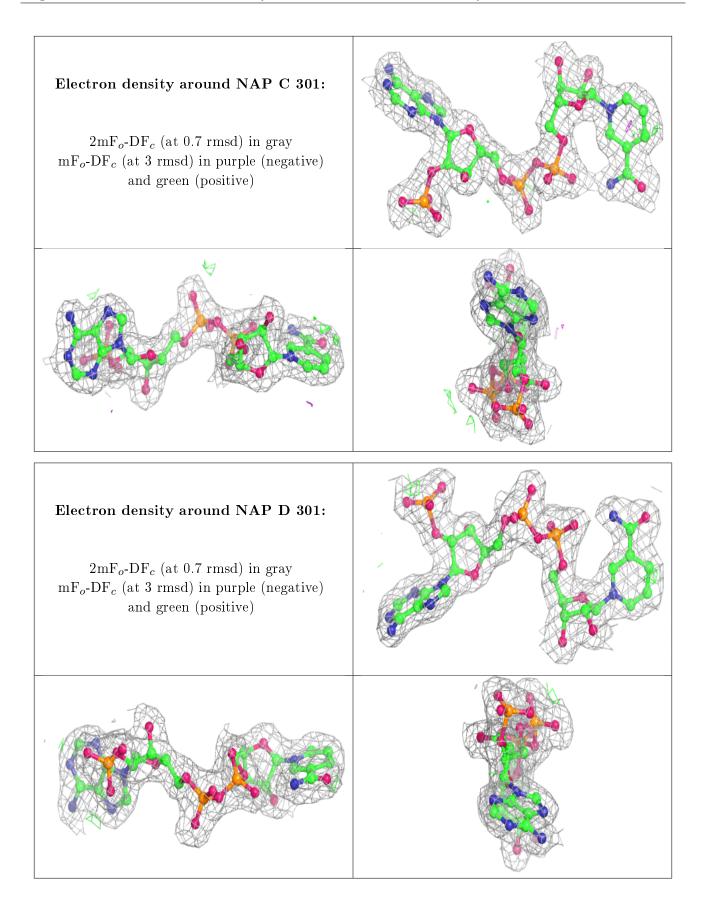


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$\mathbf{Q}{<}0.9$
4	PGE	А	303	10/10	0.95	0.09	$35,\!38,\!40,\!42$	0
4	PGE	С	303	10/10	0.96	0.08	$34,\!38,\!41,\!43$	0
2	NAP	А	301	48/48	0.98	0.09	$18,\!22,\!25,\!26$	0
2	NAP	С	301	48/48	0.98	0.10	17,22,25,27	0
2	NAP	D	301	48/48	0.98	0.10	18,22,25,28	0
2	NAP	В	301	48/48	0.98	0.10	$16,\!22,\!25,\!27$	0
3	7VD	В	302	8/8	0.99	0.10	$21,\!23,\!26,\!27$	0
3	7VD	А	302	8/8	0.99	0.09	$20,\!25,\!28,\!29$	0
3	7VD	D	302	8/8	0.99	0.10	$23,\!25,\!29,\!31$	0
3	7VD	С	302	8/8	0.99	0.10	$21,\!23,\!24,\!26$	0

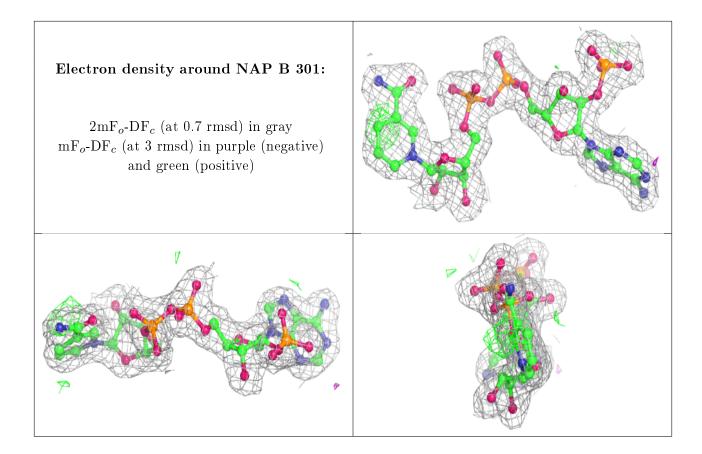
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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











## 6.5 Other polymers (i)

There are no such residues in this entry.

