

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

Feb 15, 2024 - 10:35 AM EST

PDB ID	:	3PDJ
Title	:	Crystal Structure of Human 11-beta-Hydroxysteroid Dehydrogenase 1 (11b-
		HSD1) in Complex with 4,4-Disubstituted Cyclohexylbenzamide Inhibitor
Authors	:	Wang, Z.; Sudom, A.; Walker, N.P.
Deposited on	:	2010-10-22
Resolution	:	2.30  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:

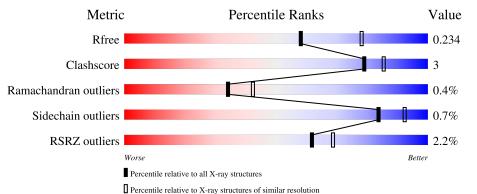
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
$\mathrm{EDS}$	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	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:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	273	93%	6%						
1	В	273	3% 94%	6%						



## 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 4549 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	Λ	272	Total	С	Ν	0	$\mathbf{S}$	0	2	0
	A	212	2099	1336	356	391	16	0	2	0
1	В	272	Total	С	Ν	0	S	0	к	0
	D	212	2104	1340	356	392	16	0	5	0

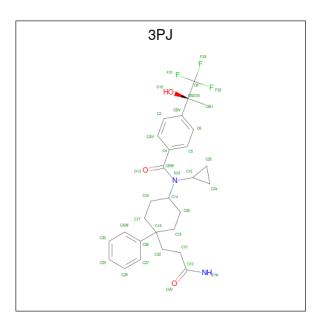
• Molecule 1 is a protein called Corticosteroid 11-beta-dehydrogenase isozyme 1.

Chain	Residue	Modelled	Actual	Comment	Reference
А	20	GLN	-	expression tag	UNP P28845
А	21	GLN	-	expression tag	UNP P28845
А	22	PRO	-	expression tag	UNP P28845
А	23	LEU	-	expression tag	UNP P28845
А	272	SER	CYS	engineered mutation	UNP P28845
В	20	GLN	-	expression tag	UNP P28845
В	21	GLN	-	expression tag	UNP P28845
В	22	PRO	-	expression tag	UNP P28845
В	23	LEU	-	expression tag	UNP P28845
В	272	SER	CYS	engineered mutation	UNP P28845

There are 10 discrepancies between the modelled and reference sequences:

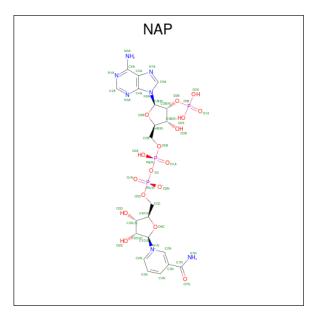
• Molecule 2 is N-[trans-4-(3-amino-3-oxopropyl)-4-phenylcyclohexyl]-N-cyclopropyl-4-[(1 S)-2,2,2-trifluoro-1-hydroxy-1-methylethyl]benzamide (three-letter code: 3PJ) (formula:  $C_{28}H_{33}F_3N_2O_3$ ).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	Λ	1	Total	С	F	Ν	0	0	0	
	Л	1	36	28	3	2	3	0	0	
0	В	1	Total	С	F	Ν	Ο	0	0	
	D	1	36	28	3	2	3	0	0	

• Molecule 3 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula:  $C_{21}H_{28}N_7O_{17}P_3$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
3	Λ	1	Total	С	Ν	Ο	Р	0	0
5	А	1	48	21	7	17	3	U	0

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

• Molecule 4 is water.

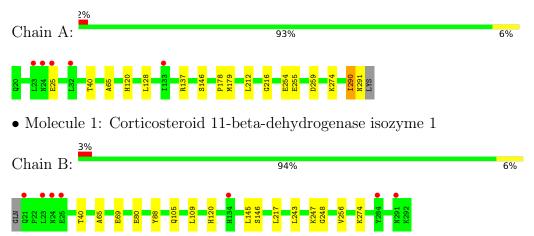
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	91	Total O 91 91	0	0
4	В	87	Total O 87 87	0	0



# 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: Corticosteroid 11-beta-dehydrogenase isozyme 1





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Depositor
Resolution (Å)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness	99.4 (92.85-2.30)	Depositor
(in resolution range)	99.4 (76.04-2.30)	EDS
R <sub>merge</sub>	0.06	Depositor
$R_{sym}$	0.06	Depositor
$< I/\sigma(I) > 1$	$4.45 (at 2.29 \text{\AA})$	Xtriage
Refinement program	REFMAC	Depositor
$R, R_{free}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor DCC
$R_{free}$ test set	1978 reflections $(5.02\%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	48.9	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.35 , $40.2$	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.51, < L^2 > = 0.35$	Xtriage
Estimated twinning fraction	0.019 for -h,-k,l	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	4549	wwPDB-VP
Average B, all atoms $(Å^2)$	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.65% 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: 3PJ, NAP

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		lengths	Bond angles		
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.63	0/2145	0.63	0/2896	
1	В	0.62	0/2165	0.63	0/2922	
All	All	0.62	0/4310	0.63	0/5818	

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	А	2099	0	2140	16	0
1	В	2104	0	2154	11	0
2	А	36	0	33	1	0
2	В	36	0	33	0	0
3	А	48	0	25	0	0
3	В	48	0	25	1	0
4	А	91	0	0	0	0
4	В	87	0	0	0	0
All	All	4549	0	4410	25	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 3.



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:ARG:HE	1:B:145[B]:LEU:HD21	1.45	0.81
1:A:128:LEU:HD23	1:A:179:MET:HE1	1.68	0.75
1:A:40:THR:OG1	1:A:120:HIS:HD2	1.71	0.72
1:A:128:LEU:HD23	1:A:179:MET:CE	2.24	0.68
1:A:120:HIS:HE1	1:A:146:SER:OG	1.83	0.60
1:A:128:LEU:CD2	1:A:179:MET:HE3	2.33	0.59
1:A:178:PRO:HB2	1:A:179:MET:HE2	1.84	0.58
1:A:216:GLY:HA3	1:A:259:ASP:OD2	2.05	0.57
1:A:128:LEU:CD2	1:A:179:MET:CE	2.84	0.55
1:A:179:MET:HG3	2:A:1:3PJ:H30	1.87	0.55
1:A:137:ARG:HE	1:B:145[B]:LEU:CD2	2.19	0.54
1:B:40:THR:OG1	1:B:120:HIS:HD2	1.91	0.54
1:B:243:LEU:HG	1:B:247:LYS:HE3	1.94	0.50
1:A:290:ILE:HG22	1:A:291:ASN:ND2	2.30	0.47
1:B:248:GLY:HA3	1:B:256:VAL:CG2	2.46	0.46
1:A:212:LEU:O	1:A:255:GLU:HA	2.15	0.46
1:B:274:LYS:HE2	1:B:274:LYS:HB3	1.77	0.45
1:A:40:THR:CB	1:A:120:HIS:HD2	2.30	0.45
1:B:120:HIS:HE1	1:B:146:SER:OG	2.00	0.44
1:A:254:GLU:OE2	1:A:274:LYS:HD3	2.17	0.44
1:B:105:GLN:O	1:B:109:LEU:HD13	2.17	0.44
1:A:128:LEU:HD21	1:A:179:MET:HE3	1.99	0.43
1:B:88:TYR:C	1:B:88:TYR:CD1	2.92	0.43
1:B:217:LEU:HD12	3:B:1:NAP:O7N	2.21	0.41

All (25) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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	272/273~(100%)	259~(95%)	12~(4%)	1 (0%)	34 42
1	В	275/273~(101%)	261 (95%)	13~(5%)	1 (0%)	34 42
All	All	547/546~(100%)	520 (95%)	25~(5%)	2~(0%)	34 42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	65	ALA
1	В	65	ALA

#### 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	А	231/230~(100%)	229~(99%)	2(1%)	78 89		
1	В	234/230~(102%)	233 (100%)	1 (0%)	91 96		
All	All	465/460~(101%)	462~(99%)	3~(1%)	84 94		

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	25	GLU
1	А	290	ILE
1	В	69	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	24	ASN
1	А	119	ASN
1	А	120	HIS
1	А	160	GLN
1	А	207	ASN
1	А	291	ASN

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Mol	Chain	Res	Type	
1	В	119	ASN	
1	В	120	HIS	

#### 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)

4 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 Cha	Chain	Chain Res	Link	Bo	Bond lengths			Bond angles		
10101	Type	Type Chain Re	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
2	3PJ	В	2	-	39,39,39	1.14	4 (10%)	45,59,59	1.24	4 (8%)
2	3PJ	А	1	-	39,39,39	1.07	4 (10%)	45,59,59	1.12	<mark>3 (6%)</mark>
3	NAP	В	1	-	45,52,52	1.77	4 (8%)	56,80,80	1.27	<mark>5 (8%)</mark>
3	NAP	А	293	-	$45,\!52,\!52$	1.71	5 (11%)	56,80,80	1.25	5 (8%)

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	3PJ	В	2	-	-	3/43/57/57	0/4/4/4
2	3PJ	А	1	-	-	3/43/57/57	0/4/4/4
3	NAP	В	1	-	-	3/31/67/67	0/5/5/5
3	NAP	А	293	-	-	5/31/67/67	0/5/5/5

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	В	1	NAP	O7N-C7N	9.10	1.41	1.24
3	А	293	NAP	O7N-C7N	8.19	1.39	1.24
3	А	293	NAP	C2A-N3A	4.27	1.39	1.32
3	В	1	NAP	C2A-N3A	4.01	1.38	1.32
2	В	2	3PJ	CBW-N12	3.84	1.42	1.35
2	А	1	3PJ	CBW-N12	3.65	1.42	1.35
2	А	1	3PJ	C32-C18	-2.74	1.53	1.55
2	В	2	3PJ	C25-C15	2.65	1.54	1.48
3	В	1	NAP	C2A-N1A	2.63	1.38	1.33
2	В	2	3PJ	C24-C15	2.57	1.54	1.48
3	А	293	NAP	C2N-N1N	2.45	1.37	1.35
3	В	1	NAP	C2N-N1N	2.38	1.37	1.35
3	А	293	NAP	P2B-O2B	2.30	1.63	1.59
2	А	1	3PJ	C25-C15	2.27	1.53	1.48
3	А	293	NAP	C2A-N1A	2.23	1.38	1.33
2	В	2	3PJ	C32-C18	-2.15	1.53	1.55
2	А	1	3PJ	C24-C15	2.13	1.53	1.48

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
3	В	1	NAP	N3A-C2A-N1A	-6.41	118.66	128.68
3	А	293	NAP	N3A-C2A-N1A	-5.01	120.85	128.68
2	В	2	3PJ	C20-C14-N12	-4.99	103.94	112.76
2	А	1	3PJ	C20-C14-N12	-3.97	105.75	112.76
3	А	293	NAP	O7N-C7N-N7N	-3.66	117.38	122.58
3	А	293	NAP	C4A-C5A-N7A	-2.47	106.83	109.40
3	В	1	NAP	C1B-N9A-C4A	-2.45	122.33	126.64
2	В	2	3PJ	C19-C18-C26	-2.41	105.62	111.15
3	А	293	NAP	C3N-C7N-N7N	2.31	120.52	117.75
3	В	1	NAP	O7N-C7N-N7N	-2.30	119.31	122.58
2	А	1	3PJ	C16-C14-N12	2.18	116.62	112.76
2	В	2	3PJ	C6-CBV-CBZ	-2.18	119.07	121.46
2	А	1	3PJ	C6-CBV-CBZ	-2.17	119.07	121.46

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Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^{o})$	$Ideal(^{o})$
2	В	2	3PJ	C32-C18-C17	2.14	113.15	108.68
3	В	1	NAP	C3N-C7N-N7N	2.12	120.29	117.75
3	В	1	NAP	O2N-PN-O1N	2.10	122.63	112.24
3	А	293	NAP	O7N-C7N-C3N	2.02	122.05	119.63

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There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	1	3PJ	C4-CBW-N12-C14
3	А	293	NAP	C2B-O2B-P2B-O2X
3	А	293	NAP	C5D-O5D-PN-O1N
2	А	1	3PJ	C16-C14-N12-C15
2	В	2	3PJ	C16-C14-N12-C15
2	А	1	3PJ	O13-CBW-N12-C14
3	А	293	NAP	O4B-C4B-C5B-O5B
2	В	2	3PJ	C4-CBW-N12-C14
3	А	293	NAP	C5B-O5B-PA-O3
3	В	1	NAP	C2B-O2B-P2B-O2X
2	В	2	3PJ	O13-CBW-N12-C14
3	А	293	NAP	PN-O3-PA-O1A
3	В	1	NAP	C3B-C2B-O2B-P2B
3	В	1	NAP	O4B-C4B-C5B-O5B

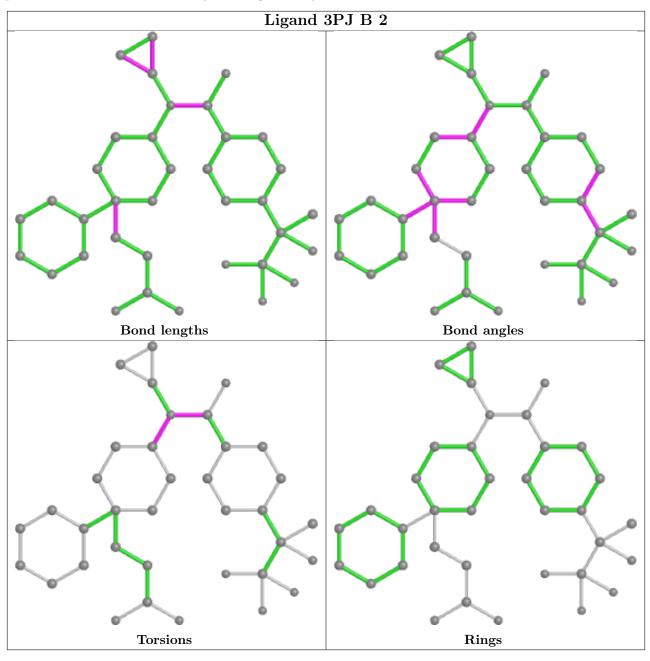
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	$\operatorname{Res}$	Type	Clashes	Symm-Clashes
2	А	1	3PJ	1	0
3	В	1	NAP	1	0

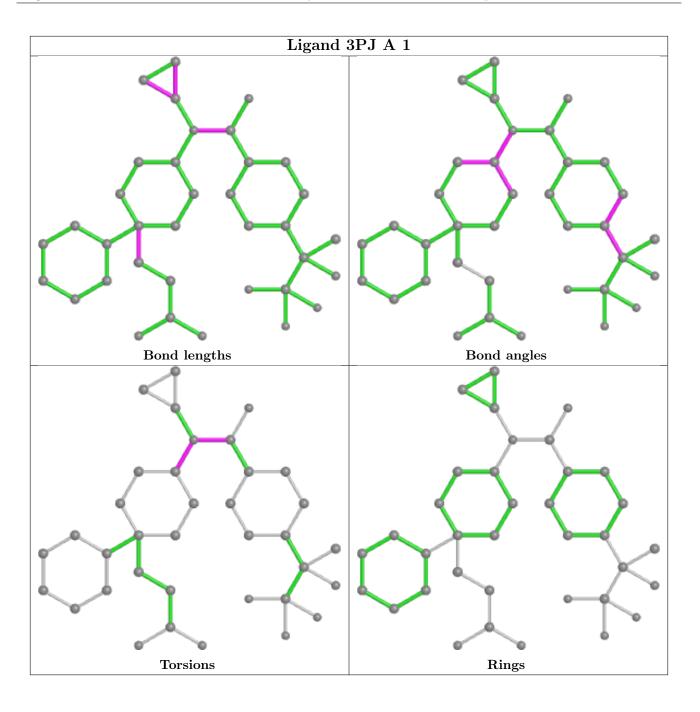
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



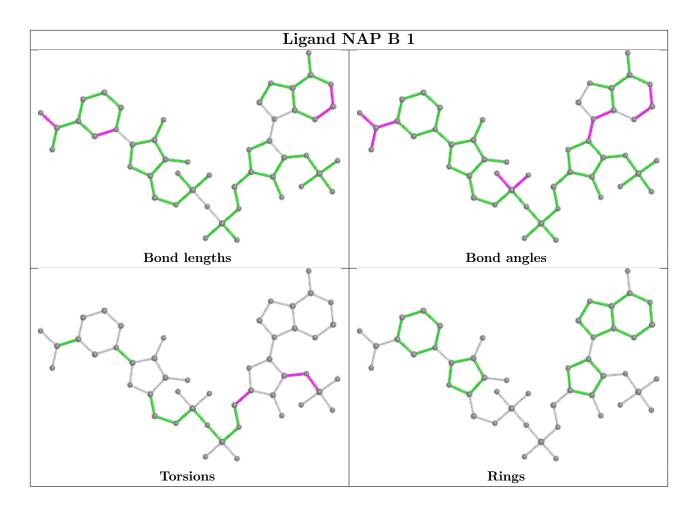


equivalents in the CSD to analyse the geometry.

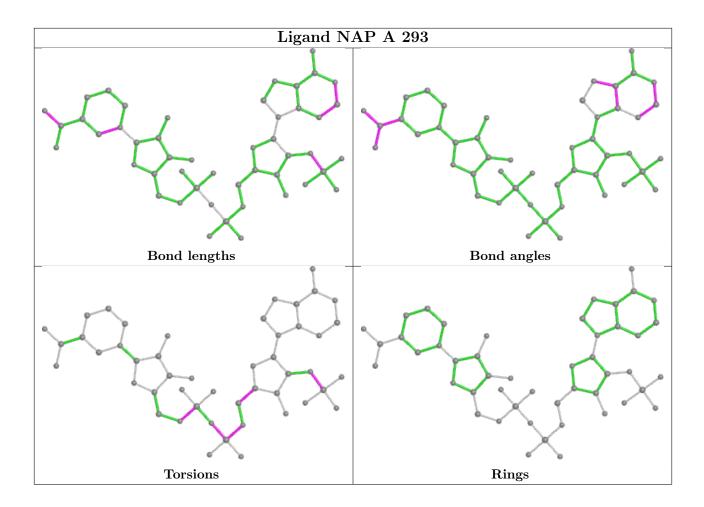












## 5.7 Other polymers (i)

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,  $95^{th}$  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		$\mathbf{OWAB}(\mathbf{A}^2)$	Q<0.9
1	А	272/273~(99%)	0.19	5 (1%) 6	<b>58</b> 74	31, 47, 68, 88	9(3%)
1	В	272/273~(99%)	0.07	7 (2%) 5	56 63	30, 45, 65, 96	6 (2%)
All	All	544/546~(99%)	0.13	12 (2%)	62 69	30, 46, 67, 96	15 (2%)

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	24	ASN	5.9
1	В	21	GLN	4.0
1	А	24	ASN	3.9
1	В	23	LEU	3.5
1	А	23	LEU	3.1
1	В	284	TYR	2.7
1	В	25	GLU	2.7
1	А	25	GLU	2.5
1	В	291	ASN	2.4
1	А	32	LEU	2.4
1	А	133	ILE	2.0
1	В	134	HIS	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.

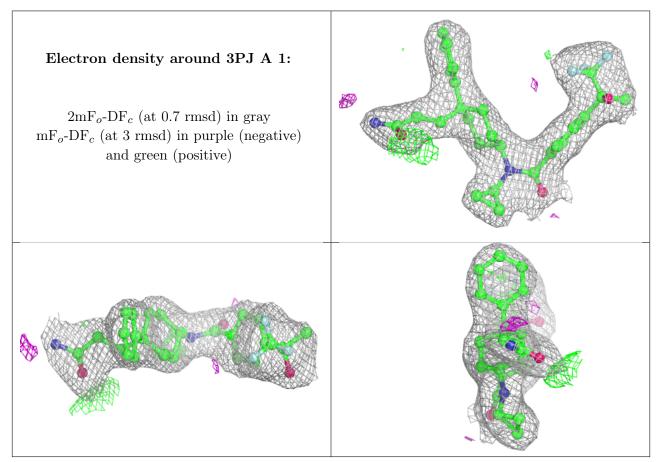


### 6.4 Ligands (i)

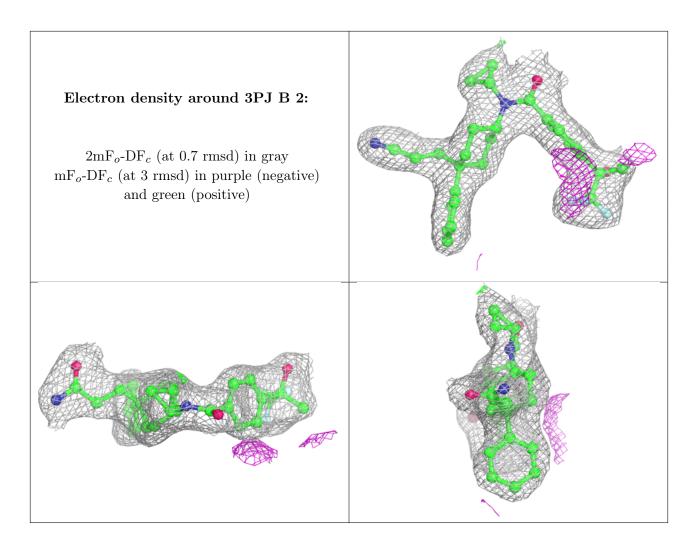
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
2	3PJ	А	1	36/36	0.97	0.13	37,42,47,49	0
2	3PJ	В	2	36/36	0.97	0.13	29,36,41,42	0
3	NAP	А	293	48/48	0.98	0.13	30,38,43,47	0
3	NAP	В	1	48/48	0.98	0.13	31,40,47,49	0

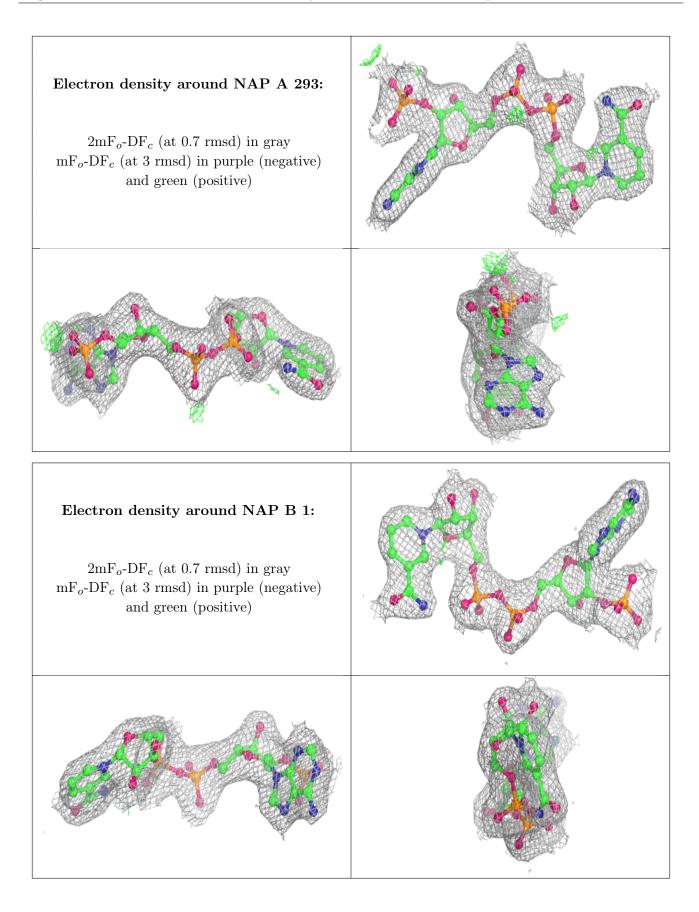
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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













## 6.5 Other polymers (i)

There are no such residues in this entry.

