

wwPDB X-ray Structure Validation Summary Report (i)

May 16, 2020 - 05:41 pm BST

PDB ID	:	60WE
Title	:	Enoyl-CoA carboxylases/reductases in complex with ethylmalonyl CoA
Authors	:	DeMirci, H.
Deposited on	:	2019-05-09
Resolution	:	1.72 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:

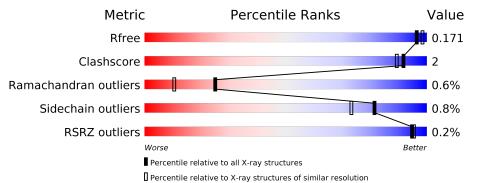
MolProbity		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
$\operatorname{CCP4}$:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 1.72 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	5722(1.74-1.70)
Clashscore	141614	6152(1.74-1.70)
Ramachandran outliers	138981	6051(1.74-1.70)
Sidechain outliers	138945	6051(1.74-1.70)
RSRZ outliers	127900	5629(1.74-1.70)

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 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	449	95%	
1	В	449	94%	6%
1	С	449	98%	<mark>.</mark>
1	D	449	% 9 6%	



60WE

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 15445 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	4.46	Total	С	Ν	0	\mathbf{S}	0	0	
	A	446	3510	2202	634	661	13	0	8	0
1	В	448	Total	С	Ν	0	S	0	7	0
	D	440	3517	2209	635	660	13	0	1	0
1	С	447	Total	С	Ν	0	S	0	-	0
	U	447	3505	2199	636	656	14	0	1	0
1	1 D	445	Total	С	Ν	Ο	S	0	6	0
	445	3477	2186	625	652	14	0	0 6		

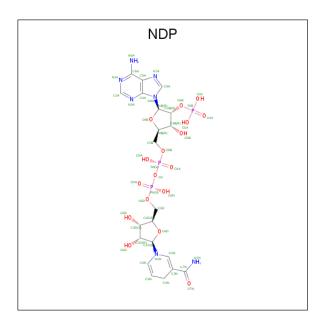
• Molecule 1 is a protein called Crotonyl-CoA carboxylase/reductase.

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLU	-	expression tag	UNP E4N096
A	-2	GLY	-	expression tag	UNP E4N096
A	-1	ARG	-	expression tag	UNP E4N096
A	0	HIS	-	expression tag	UNP E4N096
В	-3	GLU	-	expression tag	UNP E4N096
В	-2	GLY	-	expression tag	UNP E4N096
В	-1	ARG	-	expression tag	UNP E4N096
В	0	HIS	-	expression tag	UNP E4N096
С	-3	GLU	-	expression tag	UNP E4N096
C	-2	GLY	-	expression tag	UNP E4N096
С	-1	ARG	-	expression tag	UNP E4N096
С	0	HIS	-	expression tag	UNP E4N096
D	-3	GLU	-	expression tag	UNP E4N096
D	-2	GLY	-	expression tag	UNP E4N096
D	-1	ARG	-	expression tag	UNP E4N096
D	0	HIS	-	expression tag	UNP E4N096

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

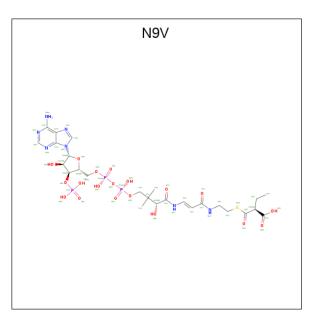




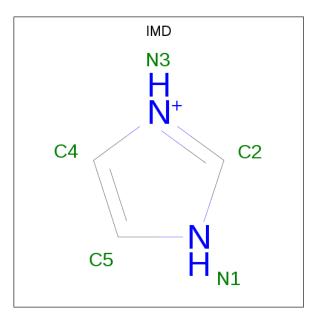
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	Δ	1	Total	С	Ν	Ο	Р	0	0
	А	T	48	21	7	17	3	0	0
2	р	1	Total	tal C N O P	0	0			
		DI	48	21	7	17	3	0	0
2	C	1	Total	С	Ν	Ο	Р	0	0
	U	1	48	21	7	17	3	0	0
0	р	1	Total	С	Ν	Ο	Р	0	0
	2 D		48	21	7	17	3	U	0

• Molecule 3 is 5'-O-[(S)-{[(S)-{[(3R)-4-({(1E)-3-[(2-{[(2S)-2-carboxybutanoyl]sulfanyl}ethyl)a mino]-3-oxoprop-1-en-1-yl}amino)-3-hydroxy-2,2-dimethyl-4-oxobutoxy](hydroxy)phosphor yl]oxy}(hydroxy)phosphoryl]adenosine 3'-(dihydrogen phosphate) (three-letter code: N9V) (formula: $C_{26}H_{40}N_7O_{19}P_3S$).





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
2	Δ	1	Total	С	Ν	Ο	Р	S	0	0
0	3 A		56	26	7	19	3	1	0	0
2	л	1	Total	С	Ν	Ο	Р	S	0	0
0	D	D 1		26	7	19	3	1	0	U



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{N} \\ 5 3 2 \end{array}$	0	0
4	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{N} \\ 5 3 2 \end{array}$	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	C	1	$\begin{array}{ccc} \text{Total} \text{C} \text{N} \\ 5 3 2 \end{array}$	0	0
4	D	1	$\begin{array}{ccc} \text{Total} \text{C} \text{N} \\ 5 3 2 \end{array}$	0	0

• Molecule 5 is water.

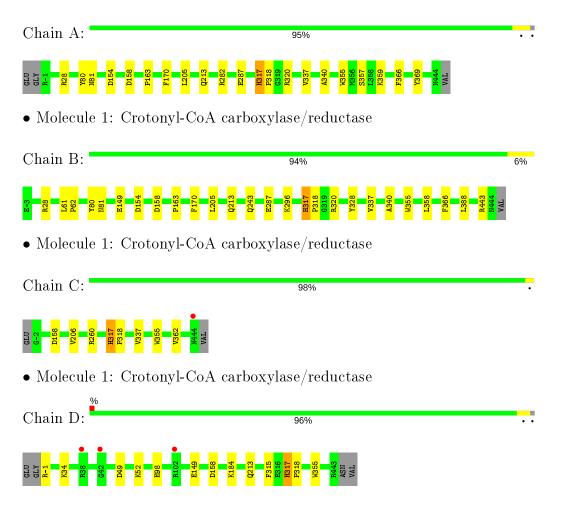
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	284	Total O 284 284	0	0
5	В	307	Total O 307 307	0	0
5	С	259	Total O 259 259	0	0
5	D	262	Total O 262 262	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Crotonyl-CoA carboxylase/reductase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	109.10Å 78.70Å 138.90Å	Depositor
a, b, c, α , β , γ	90.00° 108.10° 90.00°	Depositor
Resolution (Å)	29.89 - 1.72	Depositor
Resolution (A)	49.19 - 1.37	EDS
% Data completeness	97.2 (29.89-1.72)	Depositor
(in resolution range)	81.1 (49.19 - 1.37)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$0.78 (at 1.37 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.15.2_3472)	Depositor
D D.	0.157 , 0.170	Depositor
R, R_{free}	0.158 , 0.171	DCC
R_{free} test set	1978 reflections (0.52%)	wwPDB-VP
Wilson B-factor $(Å^2)$	17.3	Xtriage
Anisotropy	0.060	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.36 , 43.3	EDS
L-test for twinning ²	$ \langle L \rangle = 0.48, \langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	15445	wwPDB-VP
Average B, all atoms $(Å^2)$	26.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 54.79 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.4736e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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.



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: NDP, N9V, IMD $\,$

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	Bond angles		
	Cham	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.63	0/3592	0.69	0/4867	
1	В	0.65	0/3599	0.69	0/4878	
1	С	0.63	0/3587	0.68	0/4861	
1	D	0.61	0/3559	0.67	0/4825	
All	All	0.63	0/14337	0.68	0/19431	

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	3510	0	3432	11	0
1	В	3517	0	3446	15	0
1	С	3505	0	3430	4	0
1	D	3477	0	3406	6	0
2	А	48	0	23	2	0
2	В	48	0	23	2	0
2	С	48	0	24	1	0
2	D	48	0	23	2	0
3	А	56	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	56	0	0	5	0
4	А	5	0	5	0	0
4	В	5	0	5	1	0
4	С	5	0	5	2	0
4	D	5	0	5	3	0
5	А	284	0	0	2	0
5	В	307	0	0	2	0
5	С	259	0	0	0	0
5	D	262	0	0	2	0
All	All	15445	0	13827	44	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 2.

The worst 5 of 44 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:502:N9V:C02	5:A:722:HOH:O	2.30	0.80
3:A:502:N9V:C01	5:A:789:HOH:O	2.31	0.79
1:C:206:VAL:HG12	4:C:502:IMD:H5	1.76	0.67
1:B:170:PHE:CD2	3:D:501:N9V:O06	2.50	0.65
1:B:317:HIS:H	1:B:318:PRO:CD	2.13	0.61

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	453/449~(101%)	443~(98%)	7 (2%)	3 (1%)	22 8
1	В	454/449~(101%)	443~(98%)	8 (2%)	3(1%)	22 8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	С	452/449~(101%)	440 (97%)	10~(2%)	2~(0%)	34	18
1	D	449/449~(100%)	437~(97%)	10 (2%)	2(0%)	34	18
All	All	1808/1796~(101%)	1763~(98%)	35~(2%)	10 (1%)	25	10

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5 of 10 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	158	ASP
1	А	317	HIS
1	В	158	ASP
1	В	317	HIS
1	С	158	ASP

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		Percentiles		
1	А	367/360~(102%)	362~(99%)	5(1%)	67	52	
1	В	367/360~(102%)	363~(99%)	4 (1%)	73	62	
1	С	365/360~(101%)	364~(100%)	1 (0%)	92	89	
1	D	363/360~(101%)	361~(99%)	2(1%)	86	80	
All	All	1462/1440~(102%)	1450~(99%)	12 (1%)	81	73	

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	28	ARG
1	В	80	TYR
1	С	355	TRP
1	А	369	TYR
1	В	358	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.



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 carbohydrates 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	Chain	Res	Link	B	ond leng	gths	E	Bond ang	gles
	туре	Unam	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	N9V	D	501	-	47,58,58	2.57	14 (29%)	54,86,86	2.36	15 (27%)
2	NDP	А	501	-	45,52,52	2.41	19 (42%)	53,80,80	1.28	5 (9%)
2	NDP	D	502	-	45,52,52	2.40	16 (35%)	53,80,80	1.29	<mark>6 (11%)</mark>
2	NDP	В	501	-	45,52,52	2.65	21 (46%)	53,80,80	1.22	2 (3%)
4	IMD	В	502	-	3,5,5	0.86	0	4,5,5	0.56	0
2	NDP	С	501	-	$45,\!52,\!52$	2.60	18 (40%)	53,80,80	1.29	7 (13%)
3	N9V	А	502	-	47,58,58	2.78	15 (31%)	54,86,86	2.08	11 (20%)
4	IMD	С	502	-	3,5,5	0.72	0	4,5,5	0.79	0
4	IMD	D	503	-	$_{3,5,5}$	0.63	0	4,5,5	0.98	0
4	IMD	А	503	_	3,5,5	0.84	0	4,5,5	0.61	0

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.



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Mol	Type	Chain	\mathbf{Res}	Link	Chirals	Torsions	Rings
3	N9V	D	501	-	-	14/52/77/77	0/3/3/3
2	NDP	А	501	-	-	5/30/77/77	0/5/5/5
2	NDP	D	502	-	-	4/30/77/77	0/5/5/5
2	NDP	В	501	-	-	4/30/77/77	0/5/5/5
4	IMD	В	502	-	-	-	0/1/1/1
2	NDP	С	501	-	-	6/30/77/77	0/5/5/5
3	N9V	А	502	-	-	14/52/77/77	0/3/3/3
4	IMD	С	502	-	-	-	0/1/1/1
4	IMD	D	503	-	-	-	0/1/1/1
4	IMD	А	503	_	_	_	0/1/1/1

The worst 5 of 103 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
3	А	502	N9V	P52-O51	11.18	1.80	1.59
3	D	501	N9V	P52-O51	11.16	1.80	1.59
2	С	501	NDP	P2B-O2B	8.51	1.75	1.59
2	D	502	NDP	P2B-O2B	8.46	1.75	1.59
2	В	501	NDP	P2B-O2B	8.28	1.74	1.59

The worst 5 of 46 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
3	D	501	N9V	O08-C07-S09	-9.90	110.47	123.80
3	А	502	N9V	O08-C07-S09	-8.03	112.99	123.80
3	D	501	N9V	O08-C07-C03	6.95	135.31	124.12
3	А	502	N9V	O08-C07-C03	6.48	134.54	124.12
3	А	502	N9V	O19-C18-N17	-5.06	117.70	123.68

There are no chirality outliers.

5 of 47 torsion outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms
3	D	501	N9V	C01-C02-C03-C04
3	D	501	N9V	C03-C07-S09-C10
3	D	501	N9V	O08-C07-S09-C10
3	D	501	N9V	C24-O25-P26-O29
2	А	501	NDP	C2B-O2B-P2B-O1X

There are no ring outliers.

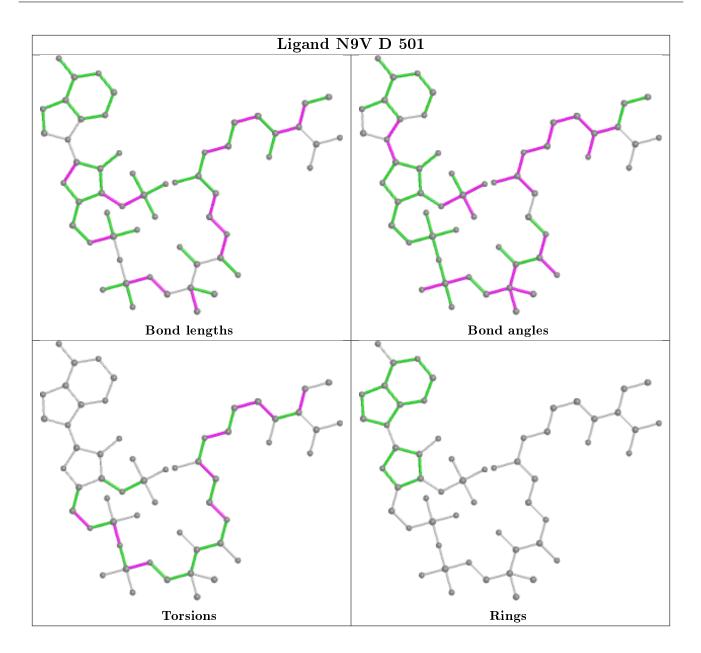
9 monomers are involved in 20 short contacts:



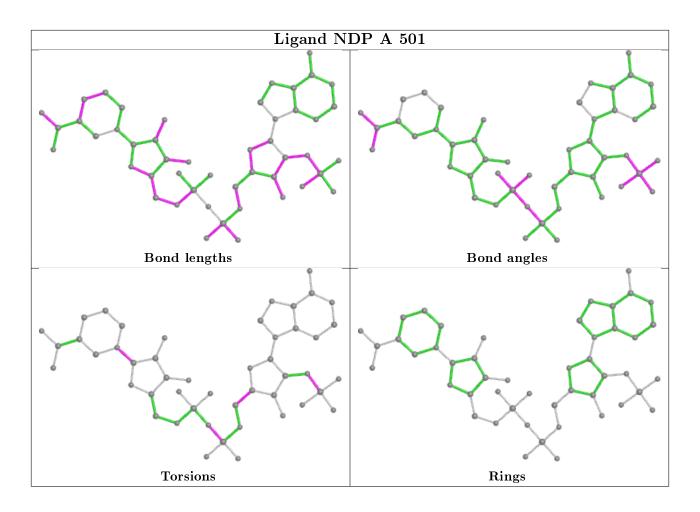
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	501	N9V	5	0
2	А	501	NDP	2	0
2	D	502	NDP	2	0
2	В	501	NDP	2	0
4	В	502	IMD	1	0
2	С	501	NDP	1	0
3	А	502	N9V	5	0
4	С	502	IMD	2	0
4	D	503	IMD	3	0

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.

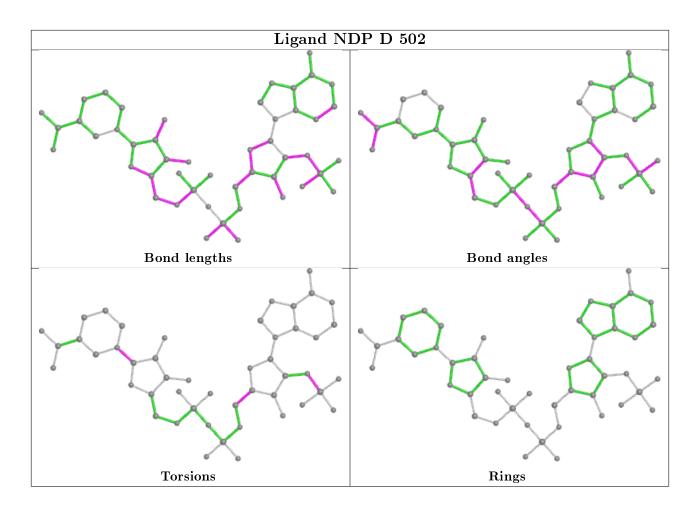




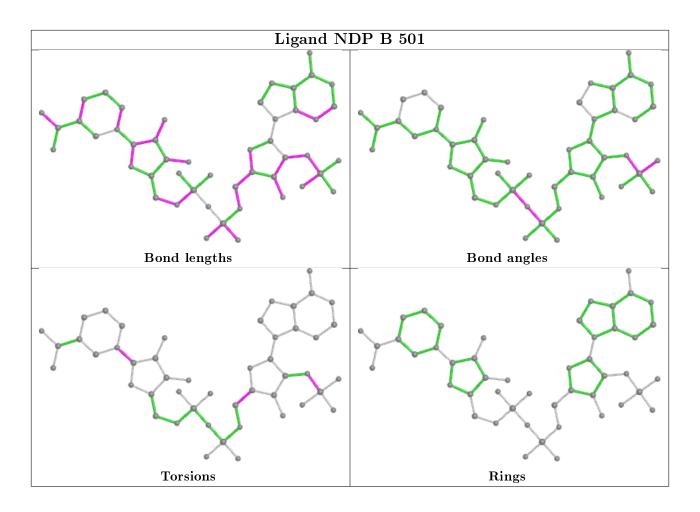




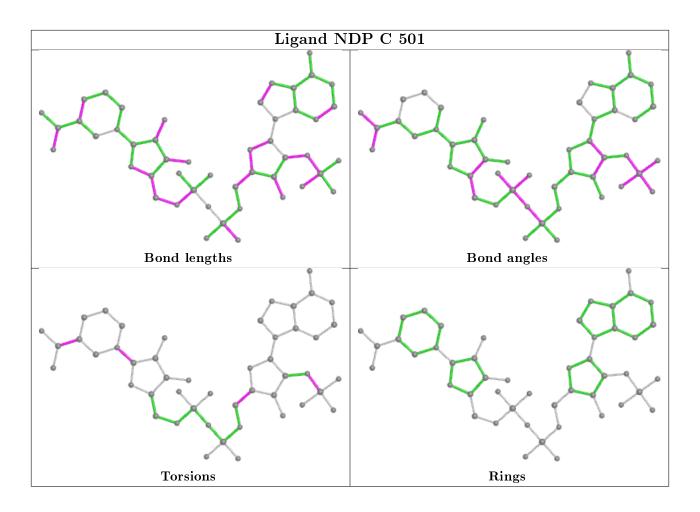




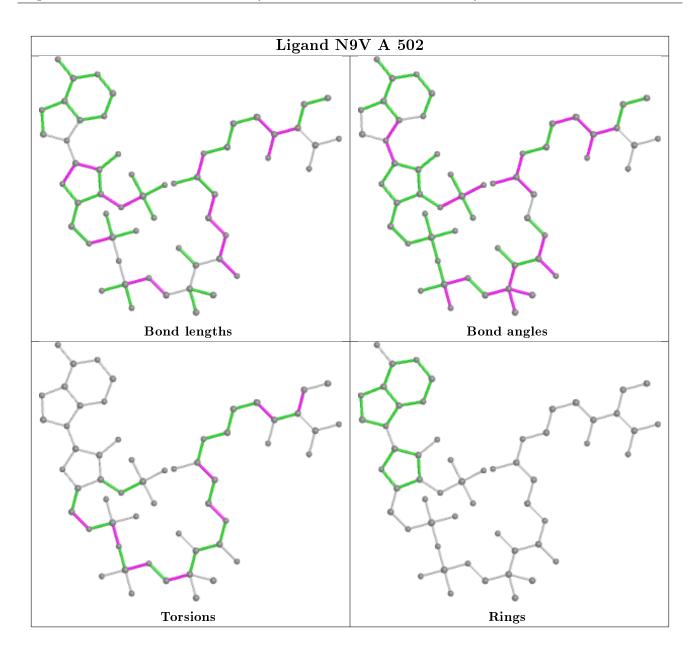












5.7 Other polymers (i)

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	<RSRZ $>$	$\# RSRZ {>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	$\mathbf{Q}{<}0.9$
1	А	446/449~(99%)	-0.71	0 100 100	16, 22, 40, 67	0
1	В	448/449~(99%)	-0.72	0 100 100	16, 22, 37, 58	0
1	С	447/449~(99%)	-0.66	1 (0%) 95 95	15, 23, 41, 76	0
1	D	445/449~(99%)	-0.56	3 (0%) 87 90	16, 24, 43, 59	0
All	All	1786/1796~(99%)	-0.66	4 (0%) 95 95	15, 23, 41, 76	0

All (4) RSRZ outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	RSRZ
1	С	444	ASN	4.4
1	D	102	ARG	2.3
1	D	42	GLY	2.1
1	D	38	ARG	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 carbohydrates in this entry.

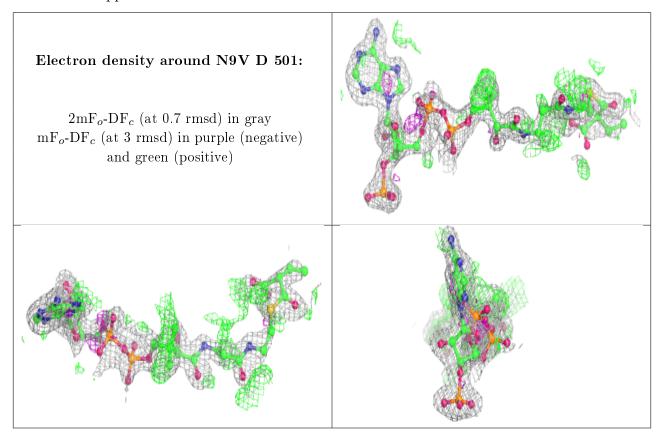
6.4 Ligands (i)

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.

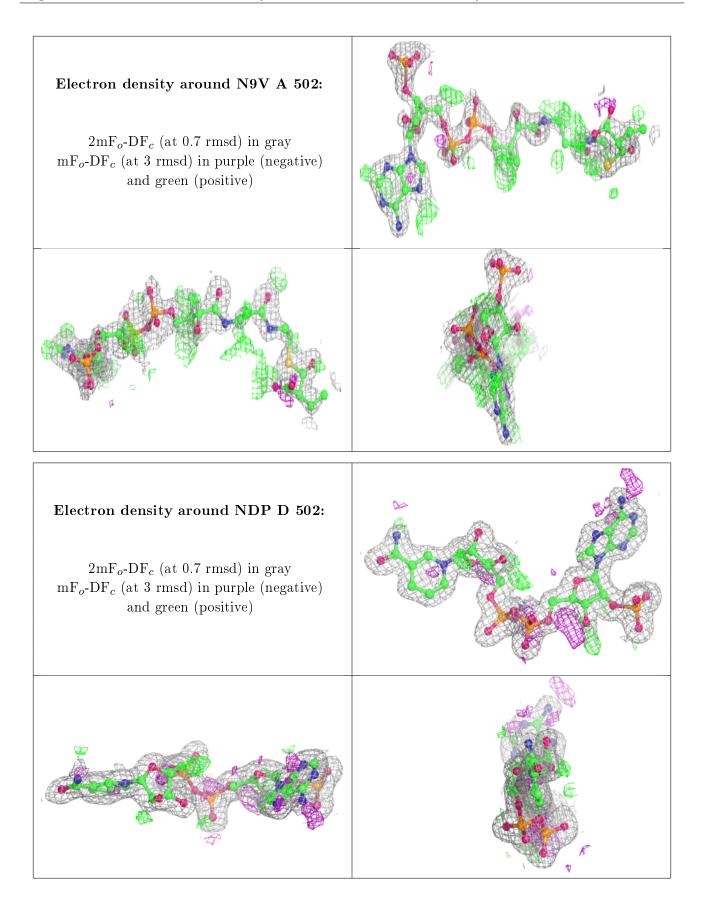


Mol	Type	Chain	\mathbf{Res}	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$\mathbf{Q}{<}0.9$
3	N9V	D	501	56/56	0.78	0.17	$27,\!44,\!70,\!72$	56
3	N9V	А	502	56/56	0.79	0.18	24,48,75,75	56
4	IMD	D	503	5/5	0.80	0.14	$46,\!49,\!49,\!50$	0
4	IMD	С	502	5/5	0.88	0.10	45,47,48,49	0
4	IMD	В	502	5/5	0.93	0.08	$33,\!34,\!36,\!37$	0
4	IMD	А	503	5/5	0.95	0.07	$34,\!36,\!38,\!39$	0
2	NDP	D	502	48/48	0.97	0.06	$20,\!27,\!42,\!50$	0
2	NDP	С	501	48/48	0.97	0.06	$19,\!27,\!46,\!55$	0
2	NDP	А	501	48/48	0.98	0.05	$16,\!19,\!24,\!25$	0
2	NDP	В	501	48/48	0.98	0.05	$16,\!20,\!24,\!28$	0

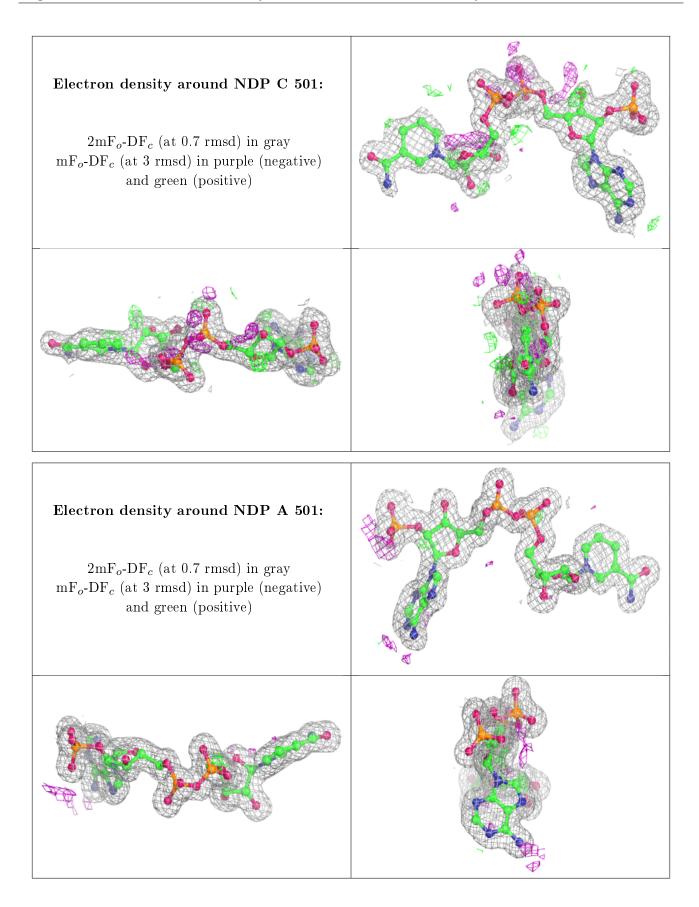
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



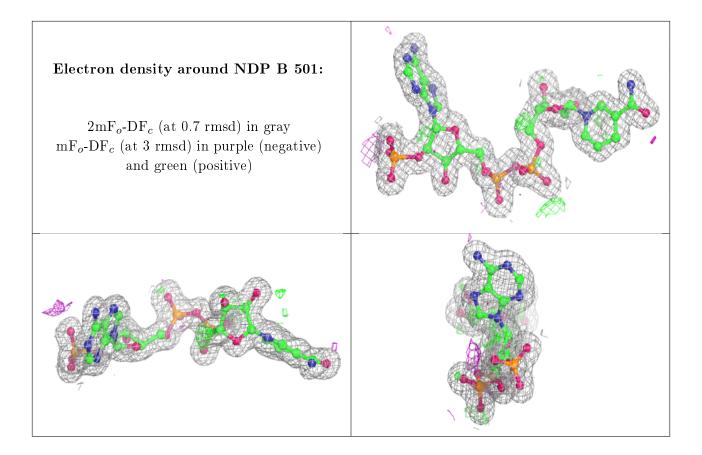












6.5 Other polymers (i)

There are no such residues in this entry.

