

Full wwPDB X-ray Structure Validation Report (i)

Jan 3, 2024 – 01:48 pm GMT

PDB ID	:	5G0S
Title	:	InhA in complex with a DNA encoded library hit
Authors	:	Read, J.A.; Breed, J.
Deposited on		
Resolution	:	1.74 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:

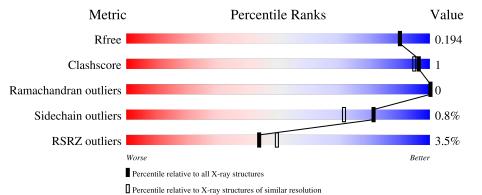
MolProbity		4 02b-467
·		
Mogul	:	1.8.4, CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (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 1.74 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	3764(1.76-1.72)
Clashscore	141614	3923 (1.76-1.72)
Ramachandran outliers	138981	3878 (1.76-1.72)
Sidechain outliers	138945	3878 (1.76-1.72)
RSRZ outliers	127900	3705 (1.76-1.72)

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	269	94%	
1	В	269	<mark>6%</mark> 94%	5%•
1	С	269	3% 93%	• 6%
1	D	269	4% 94%	• •



5G0S

2 Entry composition (i)

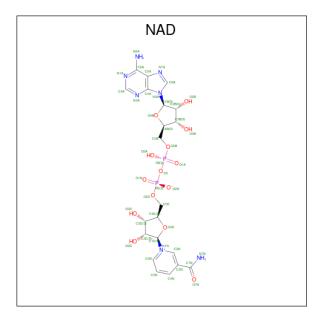
There are 4 unique types of molecules in this entry. The entry contains 8793 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH].

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	А	260	Total	С	Ν	0	S	0	1	0
	A	200	1905	1208	329	359	9	0		0
1	В	267	Total	С	Ν	0	S	0	1	0
	D	207	1961	1240	340	371	10	0		
1	С	253	Total	С	Ν	0	S	0	0	0
	U	200	1847	1174	317	347	9	0	0	
1	Л	263	Total	С	Ν	0	\mathbf{S}	0	1	0
	D	203	1910	1214	328	358	10	0		0

• Molecule 2 is NICOTINAMIDE-ADENINE-DINUCLEOTIDE (three-letter code: NAD) (formula: $C_{21}H_{27}N_7O_{14}P_2$).

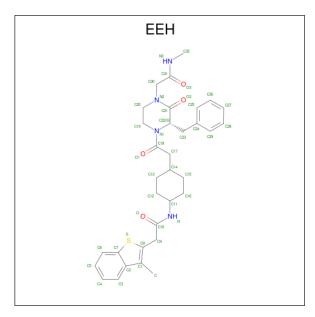


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
2	Δ	1	Total	С	Ν	Ο	Р	Ο	0
2	11	T	44	21	$\overline{7}$	14	2	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf					
2	В	1	Total C N O P 44 21 7 14 2	0	0					
2	С	1	Total C N O P 44 21 7 14 2	0	0					
2	D	1	Total C N O P 44 21 7 14 2	0	0					

• Molecule 3 is N-[4-[2-[(2S)-4-[2-(methylamino)-2-oxidanylidene-ethyl]-3-oxidanylidene-2-(ph enylmethyl)piperazin-1-yl]-2-oxidanylidene-ethyl]cyclohexyl]-2-(3-methyl-1-benzothiophen-2-yl)ethanamide (three-letter code: EEH) (formula: $C_{33}H_{40}N_4O_4S$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	В	1	Total	С	Ν	0	\mathbf{S}	0	0	
0	D	1	42	33	4	4	1	0	0	
2	С	1	Total	С	Ν	0	S	0	0	
0	U		42	33	4	4	1		U	

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	251	Total O 251 251	0	0
4	В	255	Total O 255 255	0	0
4	С	198	Total O 198 198	0	0



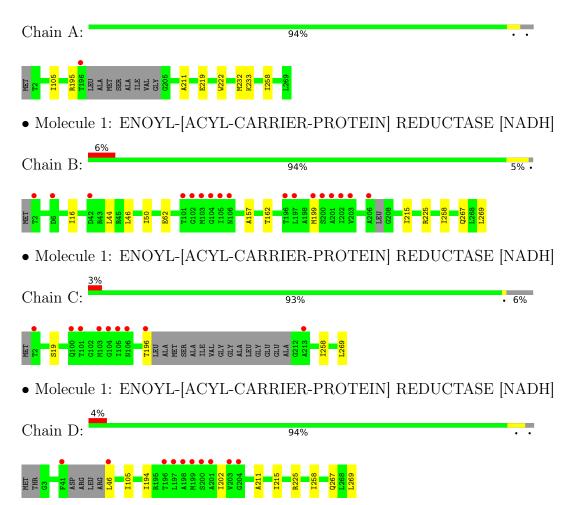
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	206	Total O 206 206	0	0



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: ENOYL-[ACYL-CARRIER-PROTEIN] REDUCTASE [NADH]





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	65.32Å 112.65Å 68.12 Å	Depositor
a, b, c, α , β , γ	90.00° 98.23° 90.00°	Depositor
Resolution (Å)	57.85 - 1.74	Depositor
Resolution (A)	56.07 - 1.74	EDS
% Data completeness	97.7 (57.85-1.74)	Depositor
(in resolution range)	98.3 (56.07 - 1.74)	EDS
R _{merge}	0.05	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.32 (at 1.74 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
D D.	0.163 , 0.186	Depositor
R, R_{free}	0.167 , 0.194	DCC
R_{free} test set	4803 reflections $(4.93%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	21.7	Xtriage
Anisotropy	0.408	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32 , 54.4	EDS
L-test for $twinning^2$	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.021 for l,-k,h	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	8793	wwPDB-VP
Average B, all atoms $(Å^2)$	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.55% 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.



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: NAD, EEH

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	
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.52	0/1942	0.61	0/2641
1	В	0.51	0/1998	0.60	0/2714
1	С	0.52	0/1884	0.60	0/2564
1	D	0.52	0/1947	0.59	0/2649
All	All	0.52	0/7771	0.60	0/10568

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	1905	0	1876	4	0
1	В	1961	0	1931	7	0
1	С	1847	0	1809	2	0
1	D	1910	0	1884	5	0
2	А	44	0	26	0	0
2	В	44	0	26	0	0
2	С	44	0	26	0	0
2	D	44	0	26	1	0
3	В	42	0	0	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	С	42	0	0	0	0
4	А	251	0	0	0	0
4	В	255	0	0	0	0
4	С	198	0	0	0	0
4	D	206	0	0	0	0
All	All	8793	0	7604	16	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 1.

All (16) 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:44:LEU:HD21	1:B:62:GLU:HB2	1.80	0.63
1:A:258:ILE:HD12	1:D:258:ILE:HD12	1.83	0.61
1:D:202:ILE:HG21	1:D:215:ILE:HD13	1.84	0.59
1:B:258:ILE:HD12	1:C:258:ILE:HD12	1.86	0.56
1:D:194:ILE:H	2:D:1270:NAD:H72N	1.54	0.56
1:B:16:ILE:O	1:B:50:ILE:HD13	2.05	0.56
1:A:219:GLU:HB3	1:A:232:MET:SD	2.47	0.55
1:A:105:ILE:HG22	1:A:211:ALA:HB2	1.88	0.55
1:B:157:ALA:HB3	1:B:215:ILE:HD11	1.88	0.54
1:D:105:ILE:HG22	1:D:211:ALA:HB2	1.92	0.51
1:C:19:SER:O	1:C:196:THR:HG22	2.17	0.45
1:B:225:ARG:HD2	1:B:267:GLN:O	2.19	0.42
1:A:195:ARG:CG	1:A:233:LYS:HA	2.49	0.42
1:B:199:MET:HE3	1:B:199:MET:HB3	1.95	0.42
1:D:225:ARG:HD2	1:D:267:GLN:O	2.20	0.42
1:B:46:LEU:O	1:B:50:ILE:HD12	2.21	0.41

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.



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	А	257/269~(96%)	247~(96%)	10 (4%)	0	100 100
1	В	264/269~(98%)	253~(96%)	11 (4%)	0	100 100
1	С	249/269~(93%)	238~(96%)	11 (4%)	0	100 100
1	D	260/269~(97%)	251~(96%)	9~(4%)	0	100 100
All	All	1030/1076~(96%)	989~(96%)	41 (4%)	0	100 100

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

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	F	Perce	ntiles
1	А	189/205~(92%)	188 (100%)	1 (0%)		88	83
1	В	194/205~(95%)	192~(99%)	2(1%)		76	63
1	С	182/205~(89%)	181 (100%)	1 (0%)		88	83
1	D	188/205~(92%)	186~(99%)	2(1%)		73	59
All	All	753/820~(92%)	747~(99%)	6 (1%)		81	72

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	222	TRP
1	В	162	THR
1	В	269	LEU
1	С	269	LEU
1	D	46	LEU
1	D	269	LEU

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such side chains are listed below:



Mol	Chain	Res	Type
1	А	139	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)

6 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
INIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	EEH	С	1271	-	43,46,46	0.80	1 (2%)	49,64,64	0.49	0
2	NAD	А	1270	-	42,48,48	0.68	0	50,73,73	0.74	2 (4%)
2	NAD	D	1270	-	42,48,48	0.71	0	50,73,73	0.70	1 (2%)
2	NAD	С	1270	-	42,48,48	0.70	0	50,73,73	0.79	2 (4%)
3	EEH	В	1271	-	43,46,46	0.80	1 (2%)	49,64,64	0.46	0
2	NAD	В	1270	-	42,48,48	0.75	0	50,73,73	0.79	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.



0000

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EEH	С	1271	-	-	3/24/53/53	0/5/5/5
2	NAD	А	1270	-	-	7/26/62/62	0/5/5/5
2	NAD	D	1270	-	-	9/26/62/62	0/5/5/5
2	NAD	С	1270	-	-	6/26/62/62	0/5/5/5
3	EEH	В	1271	-	-	3/24/53/53	0/5/5/5
2	NAD	В	1270	-	-	7/26/62/62	0/5/5/5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
3	С	1271	EEH	C1-C2	4.23	1.45	1.40
3	В	1271	EEH	C1-C2	4.16	1.45	1.40

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
2	А	1270	NAD	O4B-C1B-C2B	-2.46	103.33	106.93
2	С	1270	NAD	O4B-C1B-C2B	-2.38	103.45	106.93
2	С	1270	NAD	C5A-C6A-N6A	2.37	123.95	120.35
2	А	1270	NAD	C5A-C6A-N6A	2.34	123.90	120.35
2	В	1270	NAD	O4B-C1B-C2B	-2.27	103.61	106.93
2	В	1270	NAD	C5A-C6A-N6A	2.25	123.77	120.35
2	D	1270	NAD	C5A-C6A-N6A	2.01	123.40	120.35

There are no chirality outliers.

:

Mol	Chain	Res	Type	Atoms
2	А	1270	NAD	PN-O3-PA-O5B
2	А	1270	NAD	C5D-O5D-PN-O1N
2	А	1270	NAD	C5D-O5D-PN-O2N
2	А	1270	NAD	O4D-C1D-N1N-C2N
2	В	1270	NAD	C5D-O5D-PN-O1N
2	В	1270	NAD	C5D-O5D-PN-O2N
2	В	1270	NAD	O4D-C1D-N1N-C2N
2	С	1270	NAD	PN-O3-PA-O5B
2	С	1270	NAD	C5D-O5D-PN-O1N
2	С	1270	NAD	C5D-O5D-PN-O2N
2	С	1270	NAD	O4D-C1D-N1N-C2N
2	D	1270	NAD	PN-O3-PA-O5B
2	D	1270	NAD	C5D-O5D-PN-O1N



Mol	Chain	Res	Type	Atoms
2	D	1270	NAD	O4D-C1D-N1N-C2N
2	D	1270	NAD	O4D-C1D-N1N-C6N
3	В	1271	EEH	C17-C18-N1-C22
3	С	1271	EEH	C17-C18-N1-C22
2	В	1270	NAD	PN-O3-PA-O5B
3	С	1271	EEH	C30-C31-N3-C32
2	А	1270	NAD	C5B-O5B-PA-O3
2	D	1270	NAD	C5D-O5D-PN-O2N
3	В	1271	EEH	C31-C30-N2-C20
3	В	1271	EEH	O1-C18-N1-C19
3	С	1271	EEH	O1-C18-N1-C19
2	А	1270	NAD	C5D-O5D-PN-O3
2	В	1270	NAD	C5B-O5B-PA-O3
2	В	1270	NAD	C5D-O5D-PN-O3
2	С	1270	NAD	C5D-O5D-PN-O3
2	D	1270	NAD	C5B-O5B-PA-O3
2	D	1270	NAD	C5D-O5D-PN-O3
2	С	1270	NAD	O4B-C4B-C5B-O5B
2	D	1270	NAD	C5B-O5B-PA-O2A
2	А	1270	NAD	O4B-C4B-C5B-O5B
2	В	1270	NAD	O4B-C4B-C5B-O5B
2	D	1270	NAD	O4B-C4B-C5B-O5B

Continued from previous page...

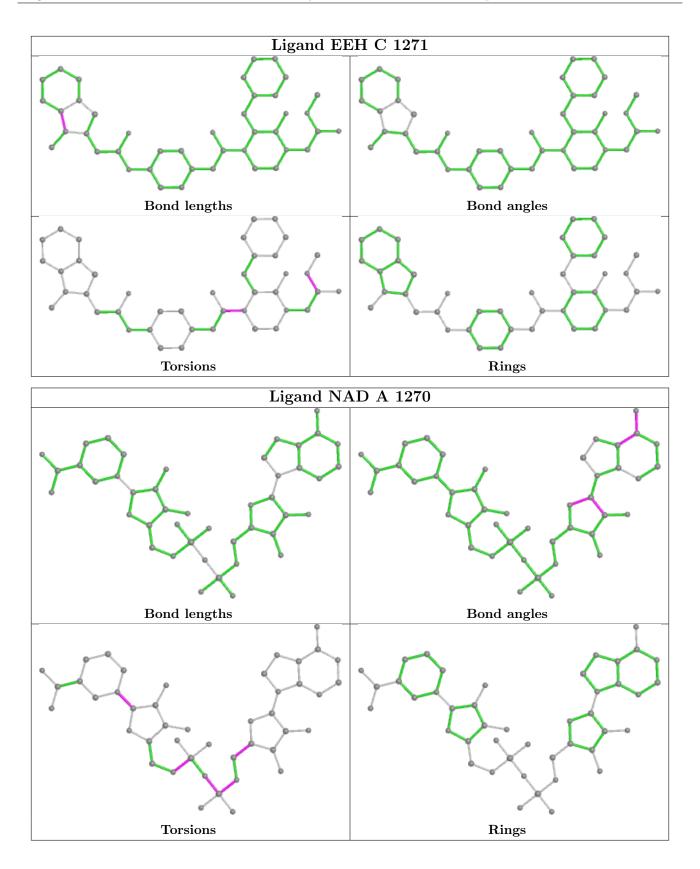
There are no ring outliers.

1 monomer is involved in 1 short contact:

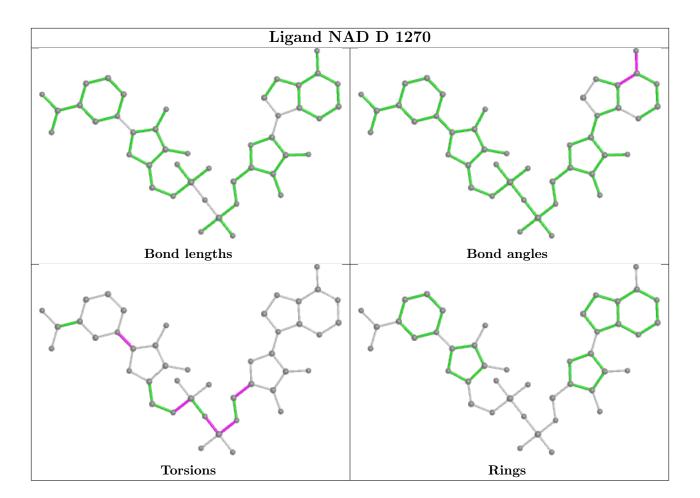
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	1270	NAD	1	0

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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

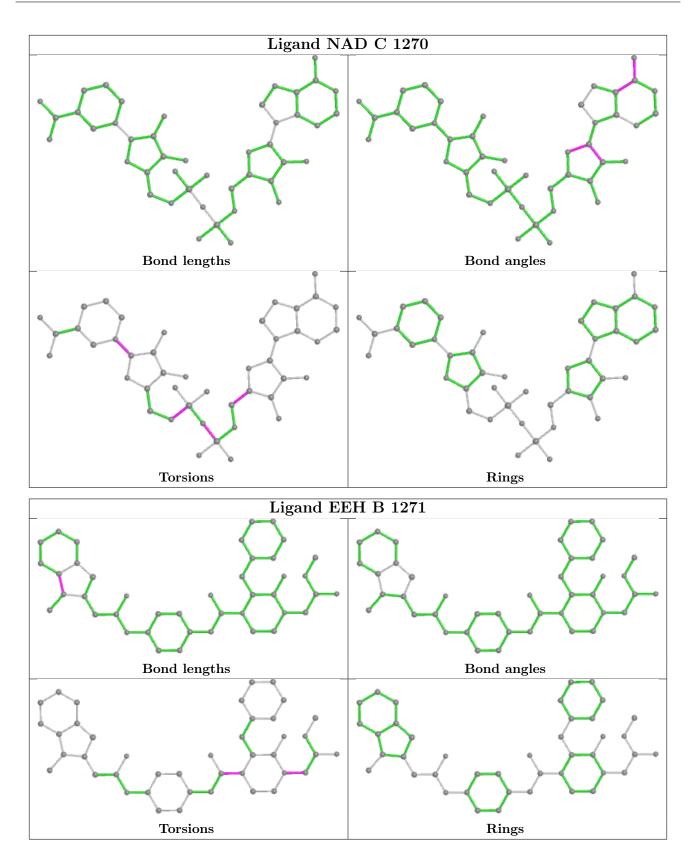






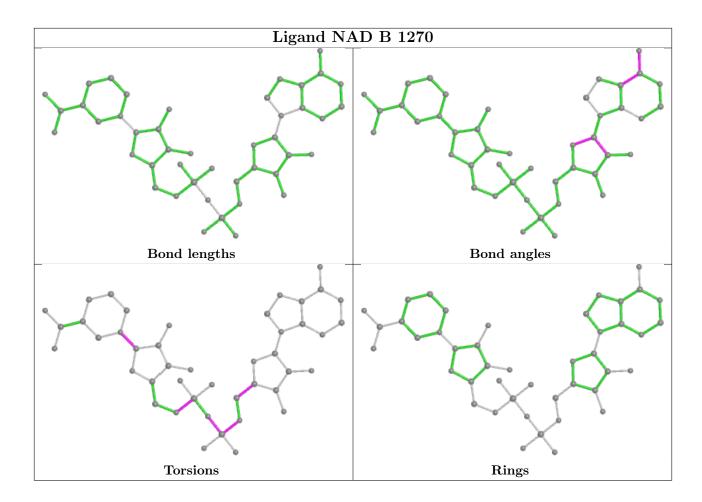












5.7 Other polymers (i)

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	$OWAB(Å^2)$	Q<0.9
1	А	260/269~(96%)	-0.26	1 (0%) 92 94	15, 23, 43, 54	0
1	В	267/269~(99%)	0.05	17 (6%) 19 23	17, 28, 49, 92	0
1	С	253/269~(94%)	-0.00	9 (3%) 42 48	16, 26, 47, 62	0
1	D	263/269~(97%)	0.00	10 (3%) 40 46	16, 25, 49, 77	0
All	All	1043/1076~(96%)	-0.05	37 (3%) 44 49	15, 25, 48, 92	0

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	105	ILE	10.8
1	D	197	LEU	8.9
1	В	202	ILE	7.8
1	С	103	MET	6.6
1	С	104	GLY	6.4
1	С	105	ILE	6.1
1	D	198	ALA	6.0
1	В	206	ALA	5.0
1	В	201	ALA	4.2
1	D	199	MET	4.1
1	В	200	SER	4.0
1	D	200	SER	3.9
1	D	203	VAL	3.9
1	D	204	GLY	3.9
1	С	196	THR	3.8
1	В	197	LEU	3.7
1	С	101	THR	3.6
1	В	203	VAL	3.5
1	D	196	THR	3.4
1	D	41	PHE	3.4
1	В	2	THR	3.3



Mol	Chain	Res	Type	RSRZ
1	С	106	ASN	3.3
1	С	2	THR	3.2
1	В	101	THR	3.1
1	В	196	THR	3.1
1	С	213	ALA	2.9
1	D	201	ALA	2.8
1	С	100	GLN	2.7
1	В	102	GLY	2.6
1	В	104	GLY	2.4
1	В	6	ASP	2.4
1	А	196	THR	2.4
1	В	106	ASN	2.3
1	D	46	LEU	2.2
1	В	42	ASP	2.1
1	В	103	MET	2.1
1	В	199	MET	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.

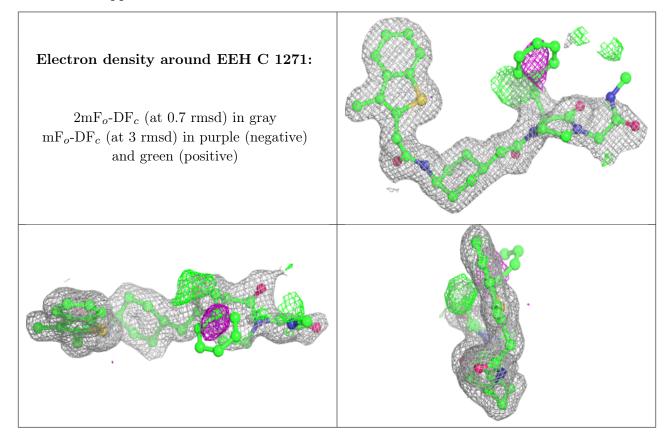
6.4 Ligands (i)

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.

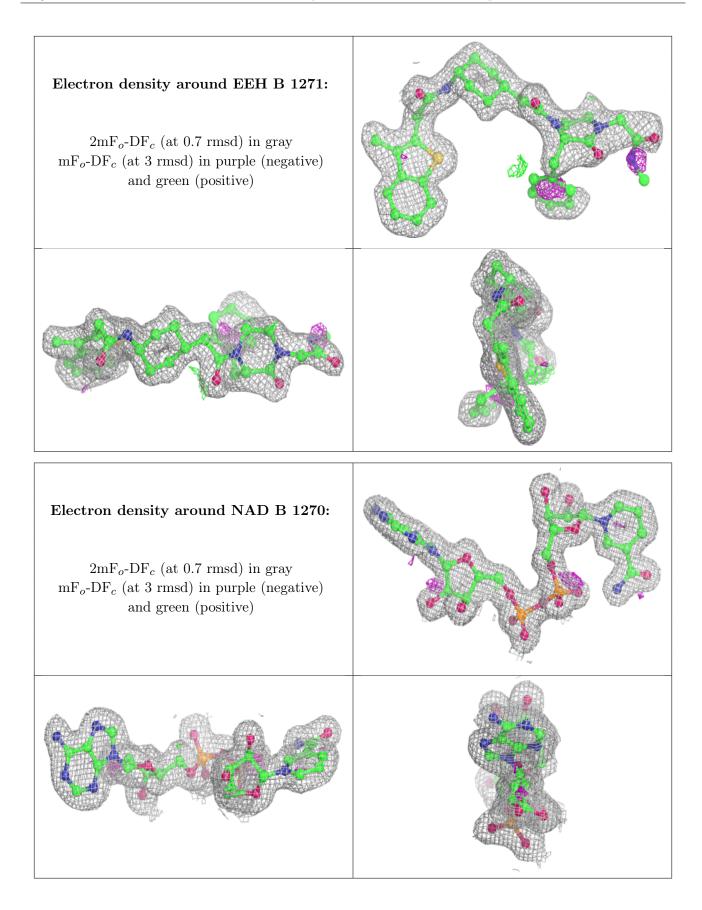
Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B} ext{-factors}({ m \AA}^2)$	Q<0.9
3	EEH	С	1271	42/42	0.88	0.17	$25,\!39,\!72,\!73$	0
3	EEH	В	1271	42/42	0.90	0.14	22,32,65,69	0
2	NAD	В	1270	44/44	0.96	0.08	17,21,25,27	0
2	NAD	С	1270	44/44	0.97	0.07	19,22,24,27	0
2	NAD	D	1270	44/44	0.97	0.08	18,22,25,26	0
2	NAD	А	1270	44/44	0.98	0.07	15,18,21,23	0



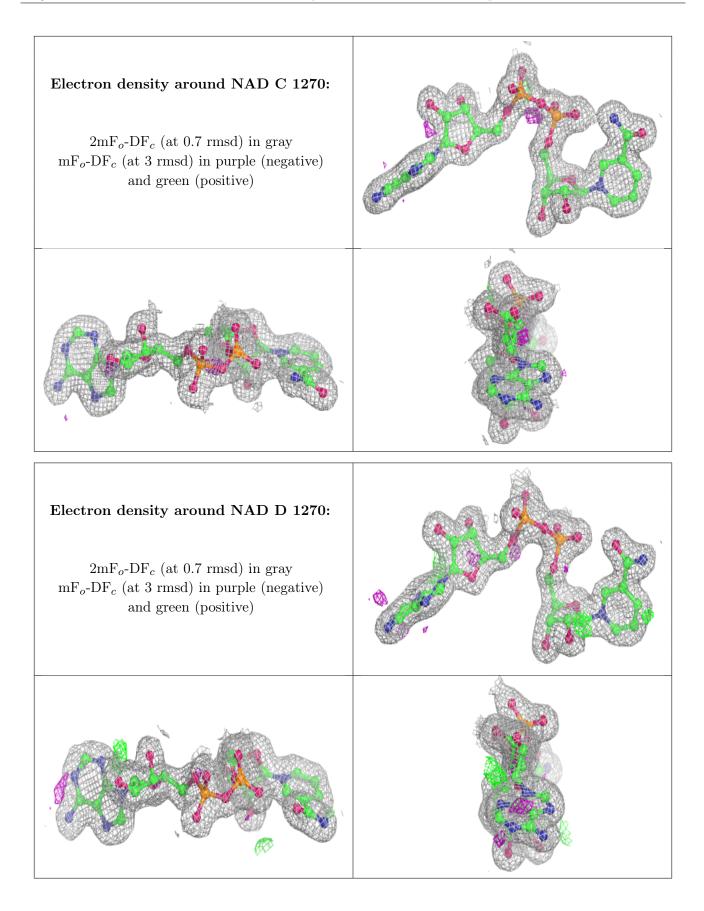
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



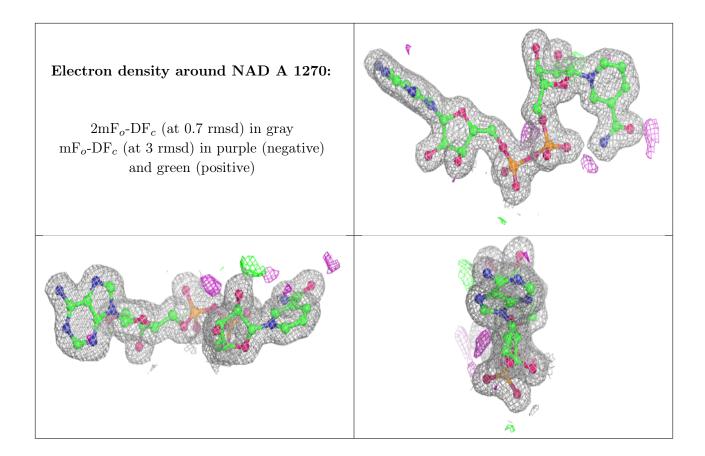












6.5 Other polymers (i)

There are no such residues in this entry.

