

wwPDB X-ray Structure Validation Summary Report (i)

May 16, 2020 – 08:38 am BST

PDB ID : 3W4K

Title : Crystal Structure of human DAAO in complex with coumpound 13

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Deposited on : 2013-01-09

Resolution : 2.86 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

Mogul: 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

CCP4 : 7.0.044 (Gargrove)
oteins) : Engh & Huber (2001)

Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

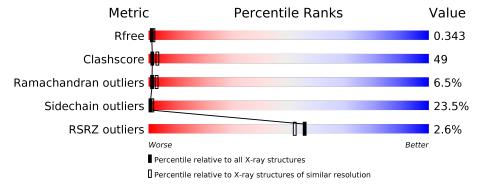
Validation Pipeline (wwPDB-VP) : 2.11

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 2.86 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	3168 (2.90-2.82)
Clashscore	141614	3438 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)

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	A	347	28%	48%	18%	5% •
1	В	347	30%	50%	13%	5% •
1	С	347	26%	47%	21%	. .
1	D	347	29%	43%	22%	. .



2 Entry composition (i)

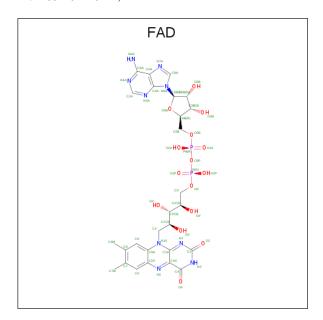
There are 3 unique types of molecules in this entry. The entry contains 11208 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 D-amino-acid oxidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	340	Total	С	N	О	S	0	0	0
1	A	340	2733	1751	479	494	9	0	U	0
1	В	340	Total	С	N	О	S	0	0	0
1	Б	340	2733	1751	479	494	9	U		
1	С	340	Total	С	N	О	S	0	0	0
1		340	2733	1751	479	494	9	0	U	0
1	D	240	Total	С	N	О	S	0	0	0
1		340	2733	1751	479	494	9	U		0

• Molecule 2 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula: $C_{27}H_{33}N_9O_{15}P_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
9	Λ	1	Total	С	N	О	Р	0	0
2	$Z \mid A$	1	53	27	9	15	2	U	0
9	D	1	Total	С	N	О	Р	0	0
	Б	1	53	27	9	15	2	U	

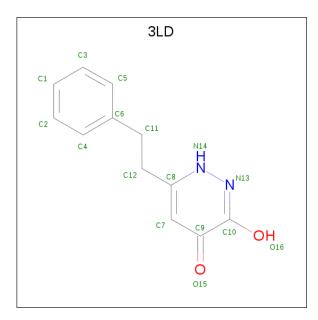
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
9	С	1	Total	С	N	О	Р	0	0
	2 C	1	53	27	9	15	2	U	
9	D	1	Total	С	N	О	Р	0	0
	D	1	53	27	9	15	2	U	0

• Molecule 3 is 3-hydroxy-6-(2-phenylethyl)pyridazin-4(1H)-one (three-letter code: 3LD) (formula: $C_{12}H_{12}N_2O_2$).



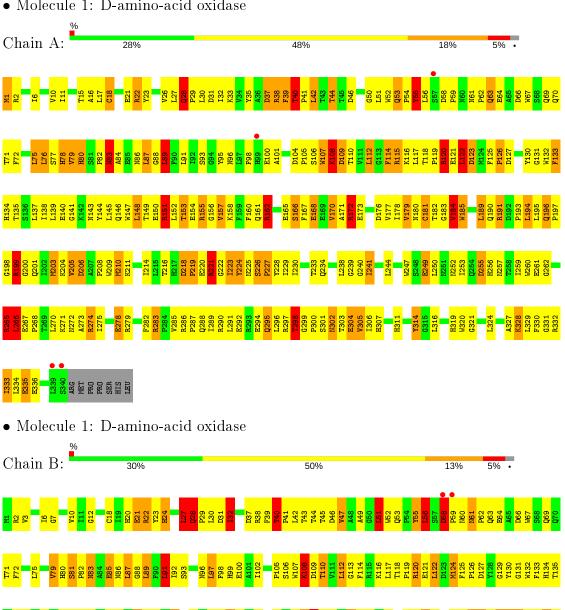
Mol	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
3	Δ	1	Total C N O	0	0
	Λ	1	16 12 2 2	U	U
3	В	1	Total C N O	0	0
	ט	1	16 12 2 2	U	
3	С	1	Total C N O	0	0
	O	1	16 12 2 2	U	U
3	D	1	Total C N O	0	0
	D	1	16 12 2 2	0	U



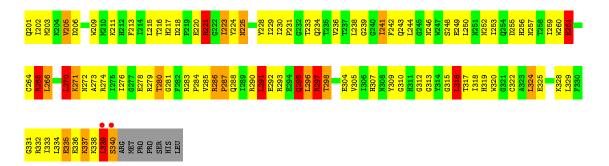
Residue-property plots (i) 3

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.

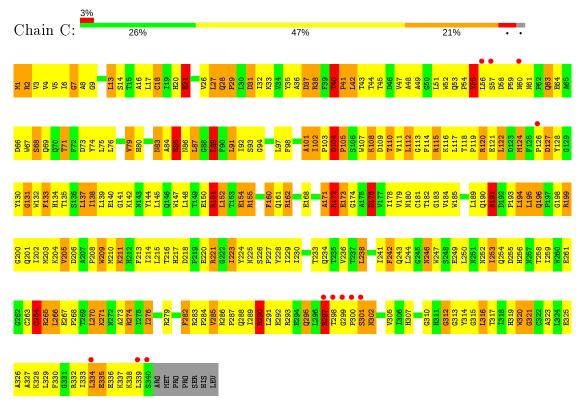
• Molecule 1: D-amino-acid oxidase



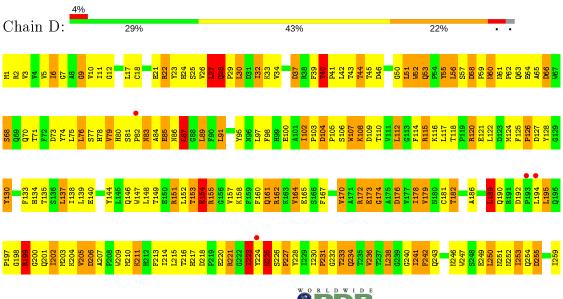




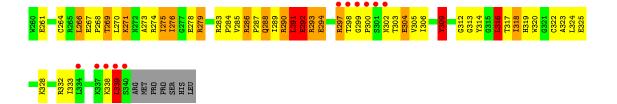
• Molecule 1: D-amino-acid oxidase



• Molecule 1: D-amino-acid oxidase









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	149.66Å 182.46Å 50.84Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.95 - 2.86	Depositor
Resolution (A)	38.95 - 2.86	EDS
% Data completeness	92.9 (38.95-2.86)	Depositor
(in resolution range)	92.9 (38.95-2.86)	EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.70 \; ({\rm at} \; 2.86 {\rm \AA})$	Xtriage
Refinement program	REFMAC 5.5.0066	Depositor
R, R_{free}	0.233 , 0.344	Depositor
it, it free	0.235 , 0.343	DCC
R_{free} test set	1566 reflections (5.08%)	wwPDB-VP
Wilson B-factor (\mathring{A}^2)	56.0	Xtriage
Anisotropy	0.064	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36 , 60.0	EDS
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	11208	wwPDB-VP
Average B, all atoms $(Å^2)$	46.0	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 32.55 % 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 9.2218e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

²Theoretical 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.



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: 3LD, FAD

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	ond lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z >5	RMSZ	# Z >5	
1	A	1.51	$18/2810 \ (0.6\%)$	1.47	$36/3824 \ (0.9\%)$	
1	В	1.49	$10/2810 \; (0.4\%)$	1.48	$36/3824 \; (0.9\%)$	
1	С	1.44	$17/2810 \ (0.6\%)$	1.45	$36/3824 \ (0.9\%)$	
1	D	1.42	$15/2810 \; (0.5\%)$	1.45	31/3824 (0.8%)	
All	All	1.46	$60/11240 \; (0.5\%)$	1.46	$139/15296 \ (0.9\%)$	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a maintain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	# Chirality outliers	#Planarity outliers
1	A	0	1
1	В	0	1
1	С	0	3
1	D	0	1
All	All	0	6

The worst 5 of 60 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
1	D	223	ILE	C-N	15.27	1.69	1.34
1	С	18	CYS	CB-SG	-12.32	1.61	1.82
1	A	18	CYS	CB-SG	-11.36	1.62	1.82
1	В	21	GLU	CG-CD	9.77	1.66	1.51
1	A	260	TRP	CB-CG	-8.28	1.35	1.50

The worst 5 of 139 bond angle outliers are listed below:



Mol	Chain	${f Res}$	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}(^{o})$
1	D	199	ARG	NE-CZ-NH1	-13.38	113.61	120.30
1	D	199	ARG	NE-CZ-NH2	11.48	126.04	120.30
1	A	122	LEU	CA-CB-CG	-10.86	90.33	115.30
1	В	265	ARG	NE-CZ-NH2	10.00	125.30	120.30
1	D	291	LEU	CA-CB-CG	9.99	138.28	115.30

There are no chirality outliers.

5 of 6 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	58	ASP	Peptide
1	В	58	ASP	Peptide
1	С	301	SER	Peptide
1	С	41	PRO	Peptide
1	С	60	ASN	Peptide

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)	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	A	2733	0	2680	263	0
1	В	2733	0	2680	265	0
1	С	2733	0	2680	308	0
1	D	2733	0	2680	261	0
2	A	53	0	31	4	0
2	В	53	0	31	4	0
2	С	53	0	31	17	0
2	D	53	0	31	5	0
3	A	16	0	11	2	0
3	В	16	0	11	5	0
3	С	16	0	11	4	0
3	D	16	0	11	5	0
All	All	11208	0	10888	1080	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 49.

The worst 5 of 1080 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	$egin{aligned} ext{Interatomic} \ ext{distance} \ (ext{Å}) \end{aligned}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$
1:D:223:ILE:C	1:D:224:TYR:N	1.69	1.42
1:B:221:ARG:HH21	1:B:221:ARG:CB	1.43	1.31
1:C:264:CYS:SG	1:C:271:LYS:HD3	1.72	1.28
1:C:38:ARG:NH2	2:C:401:FAD:H2B	1.49	1.25
1:B:221:ARG:NH2	1:B:221:ARG:HB2	1.55	1.22

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	Percentiles		
1	A	338/347 (97%)	279 (82%)	38 (11%)	21 (6%)	1	3		
1	В	338/347 (97%)	257 (76%)	63 (19%)	18 (5%)	2	5		
1	С	338/347 (97%)	269 (80%)	44 (13%)	25 (7%)	1	2		
1	D	338/347 (97%)	259 (77%)	55 (16%)	24 (7%)	1	2		
All	All	1352/1388 (97%)	1064 (79%)	200 (15%)	88 (6%)	1	3		

5 of 88 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	40	THR
1	A	55	TYR
1	A	299	GLY
1	В	28	GLN
1	В	40	THR

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 show	s the	${\bf number}$	of	residues	for	which	the	${\rm sidechain}$	conformation	was
analysed, and the total num	oer of	residues	i.							

Mol	Chain	Analysed	Rotameric	Outliers	Perc	Percentiles		
1	A	292/299 (98%)	229 (78%)	63 (22%)	1	2		
1	В	292/299 (98%)	237 (81%)	55 (19%)	1	3		
1	С	292/299 (98%)	221 (76%)	71 (24%)	0	1		
1	D	292/299 (98%)	207 (71%)	85 (29%)	0	1		
All	All	1168/1196 (98%)	894 (76%)	274 (24%)	1	1		

5 of 274 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	28	GLN
1	С	173	GLU
1	D	253	ILE
1	С	63	GLN
1	С	115	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 60 such sidechains are listed below:

Mol	Chain	Res	Type
1	В	319	HIS
1	С	96	ASN
1	D	243	GLN
1	С	63	GLN
1	С	190	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 carbohydrates in this entry.



5.6 Ligand geometry (i)

8 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).

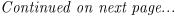
Mol	Type	Chain	Res	Link	В	ond leng	gths	Bond angles		
MIOI	Type Chain I	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
3	3LD	В	402	-	17,17,17	2.49	5 (29%)	16,22,22	4.67	4 (25%)
3	3LD	С	402	-	17,17,17	2.24	4 (23%)	16,22,22	4.79	8 (50%)
3	3LD	A	402	-	17,17,17	2.25	4 (23%)	16,22,22	4.79	8 (50%)
2	FAD	В	401	-	51,58,58	1.66	10 (19%)	60,89,89	3.29	19 (31%)
2	FAD	A	401	-	51,58,58	1.45	8 (15%)	60,89,89	3.83	25 (41%)
2	FAD	D	401	-	51,58,58	2.05	7 (13%)	60,89,89	2.75	21 (35%)
2	FAD	С	401	-	51,58,58	1.37	6 (11%)	60,89,89	3.14	29 (48%)
3	3LD	D	402	-	17,17,17	2.27	4 (23%)	16,22,22	4.79	8 (50%)

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	\mathbf{Type}	Chain	\mathbf{Res}	Link	Chirals	Torsions	Rings
3	3LD	В	402	-	-	2/5/5/5	0/2/2/2
3	3LD	С	402	-	-	2/5/5/5	0/2/2/2
3	3LD	A	402	-	-	2/5/5/5	0/2/2/2
2	FAD	В	401	-	-	8/30/50/50	0/6/6/6
2	FAD	A	401	-	-	10/30/50/50	0/6/6/6
2	FAD	D	401	-	-	10/30/50/50	0/6/6/6
2	FAD	С	401	-	-	9/30/50/50	0/6/6/6
3	3LD	D	402	-	-	2/5/5/5	0/2/2/2

The worst 5 of 48 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\mathbf{Ideal}(\mathbf{\mathring{A}})$
2	D	401	FAD	C4-C4X	7.93	1.55	1.41





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Mol	Chain	Res	Type	${f Atoms}$	\mathbf{Z}	${f Observed(\AA)}$	$\operatorname{Ideal}(ext{\AA})$
3	В	402	3LD	C8-N14	6.89	1.38	1.33
2	D	401	FAD	C10-N1	6.62	1.41	1.33
3	D	402	3LD	C8-N14	5.96	1.38	1.33
3	A	402	3LD	C8-N14	5.83	1.37	1.33

The worst 5 of 122 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	${f Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	401	FAD	C4-N3-C2	16.87	129.39	115.14
3	В	402	3LD	C8-N14-N13	16.38	127.95	119.77
2	A	401	FAD	C4-N3-C2	15.95	128.61	115.14
2	A	401	FAD	C1'-N10-C9A	14.71	129.87	118.29
3	D	402	3LD	C8-N14-N13	13.73	126.63	119.77

There are no chirality outliers.

5 of 45 torsion outliers are listed below:

Mol	Chain	${f Res}$	Type	Atoms
2	В	401	FAD	C5B-O5B-PA-O2A
2	A	401	FAD	C5B-O5B-PA-O1A
2	A	401	FAD	C5B-O5B-PA-O2A
2	A	401	FAD	P-O3P-PA-O5B
2	A	401	FAD	O4B-C4B-C5B-O5B

There are no ring outliers.

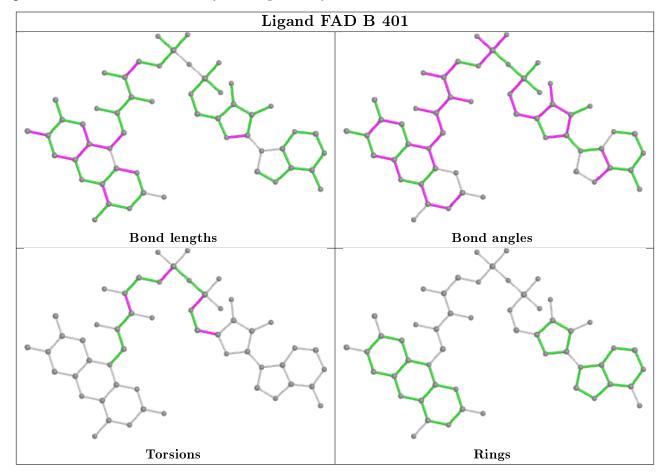
8 monomers are involved in 42 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	402	3LD	5	0
3	С	402	3LD	4	0
3	A	402	3LD	2	0
2	В	401	FAD	4	0
2	A	401	FAD	4	0
2	D	401	FAD	5	0
2	С	401	FAD	17	0
3	D	402	3LD	5	0

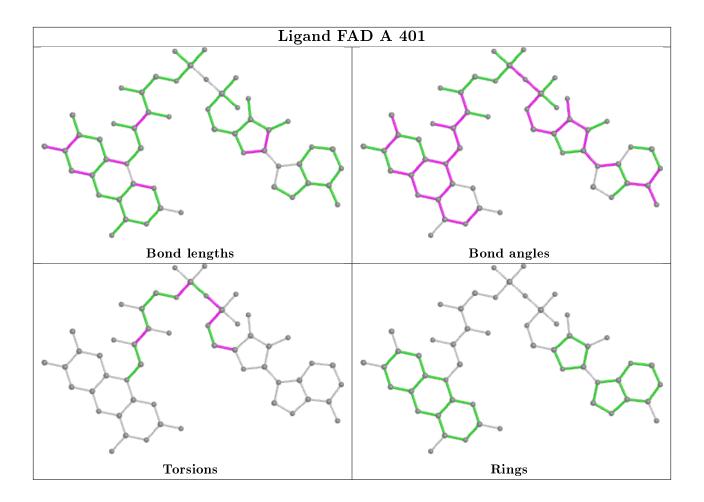
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is



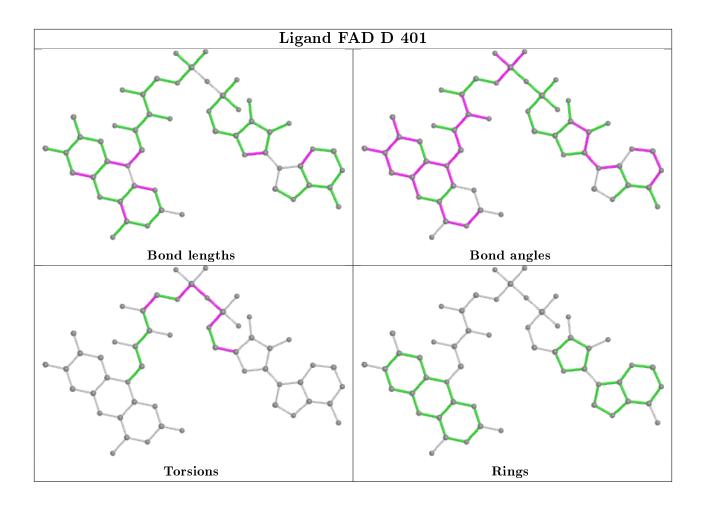
within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question 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.



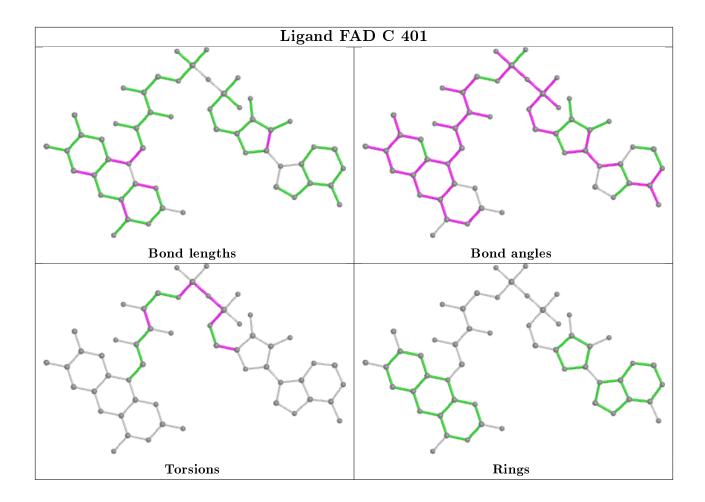












5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	D	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	223:ILE	С	224:TYR	N	1.69



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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	340/347 (97%)	-0.22	4 (1%) 79 78	18, 41, 65, 75	0
1	В	340/347 (97%)	-0.16	4 (1%) 79 78	20, 40, 64, 77	0
1	С	340/347 (97%)	0.07	12 (3%) 44 38	27, 48, 74, 93	0
1	D	340/347 (97%)	0.04	15 (4%) 34 29	27, 49, 75, 90	0
All	All	$1360/1388 \; (97\%)$	-0.07	35 (2%) 56 52	18, 45, 69, 93	0

The worst 5 of 35 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	340	SER	5.8
1	С	339	LEU	5.0
1	С	300	PRO	4.7
1	A	340	SER	4.3
1	D	300	PRO	4.2

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.

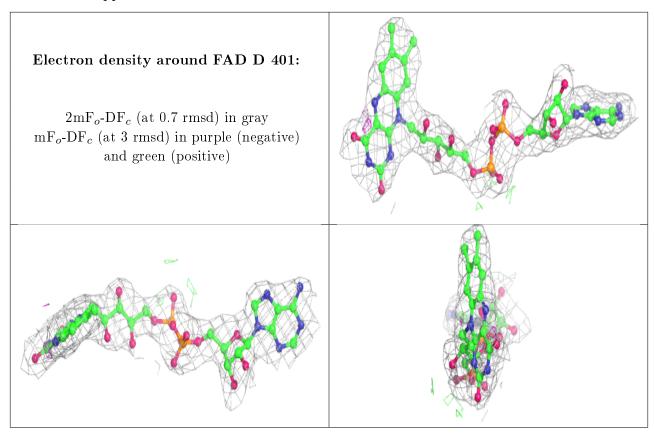
6.4 Ligands (i)

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	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	3LD	С	402	16/16	0.91	0.19	27,32,47,49	0
3	3LD	D	402	16/16	0.91	0.24	27,32,47,49	0
3	3LD	В	402	16/16	0.92	0.19	32,41,44,44	0
3	3LD	A	402	16/16	0.95	0.19	27,32,47,49	0
2	FAD	D	401	53/53	0.96	0.15	20,36,44,47	0
2	FAD	С	401	53/53	0.96	0.17	22,30,37,44	0
2	FAD	A	401	53/53	0.96	0.16	19,29,38,41	0
2	FAD	В	401	53/53	0.97	0.17	10,30,36,37	0

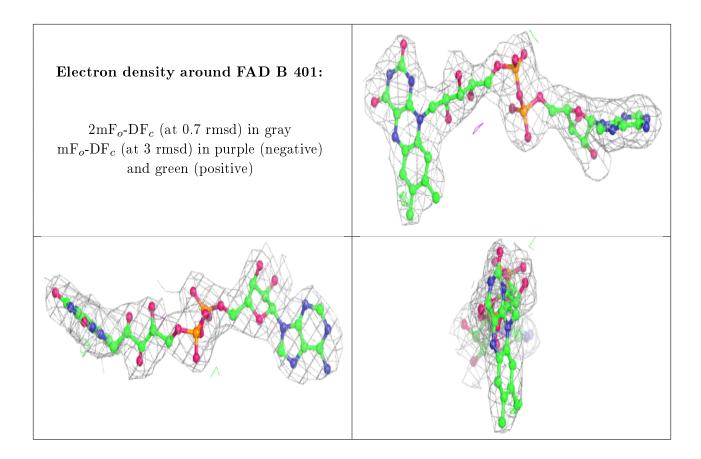
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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





Electron density around FAD C 401: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray mF_o -DF_c (at 3 rmsd) in purple (negative) and green (positive) Electron density around FAD A 401: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray





6.5 Other polymers (i)

There are no such residues in this entry.

