



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 14, 2020 – 07:45 am BST

PDB ID : 1S2Q
Title : Crystal structure of MAOB in complex with N-propargyl-1(R)-aminoindan (Rasagiline)
Authors : Binda, C.; Hubalek, F.; Li, M.; Herzig, Y.; Sterling, J.; Edmondson, D.E.; Mattevi, A.
Deposited on : 2004-01-09
Resolution : 2.07 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

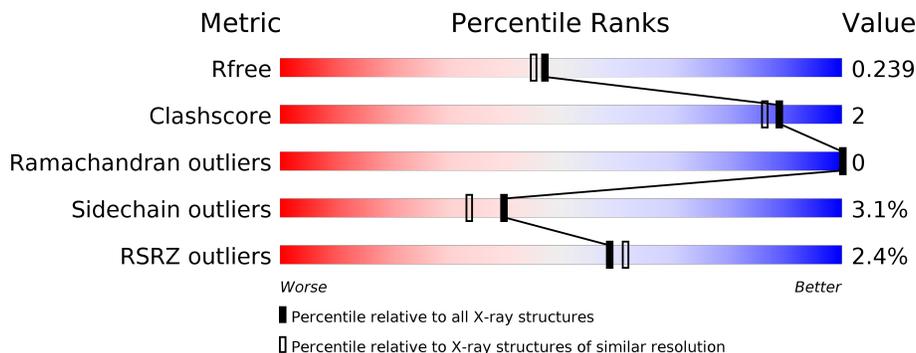
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.07 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2684 (2.08-2.04)
Clashscore	141614	2801 (2.08-2.04)
Ramachandran outliers	138981	2768 (2.08-2.04)
Sidechain outliers	138945	2768 (2.08-2.04)
RSRZ outliers	127900	2646 (2.08-2.04)

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 $\leq 5\%$. 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	520	 3% 88% 7%
1	B	520	 2% 89% 6% 5%

2 Entry composition i

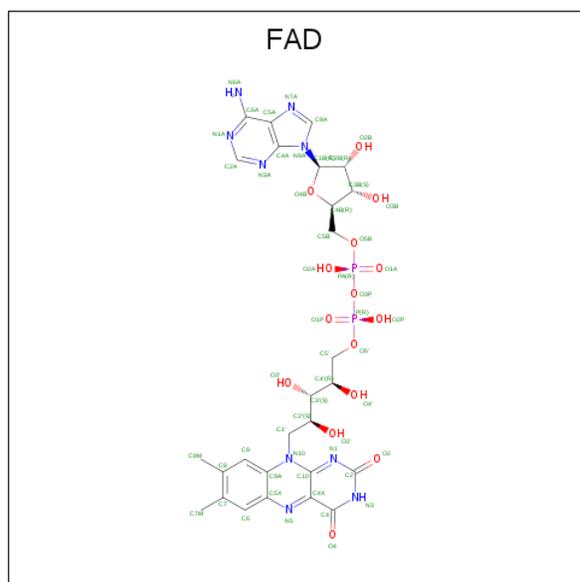
There are 4 unique types of molecules in this entry. The entry contains 8545 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Amine oxidase [flavin-containing] B.

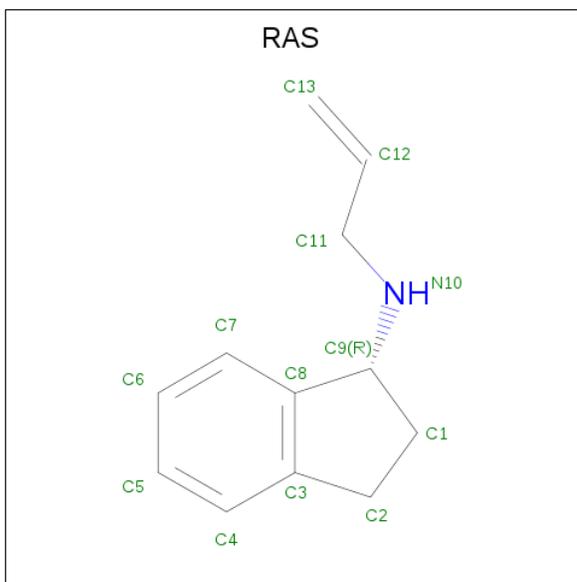
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	499	Total 3971	2538	681	728	24	0	0	0
1	B	494	Total 3940	2519	676	721	24	0	0	0

- 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
			Total	C	N	O	P		
2	A	1	Total 53	27	9	15	2	0	0
2	B	1	Total 53	27	9	15	2	0	0

- Molecule 3 is (1R)-N-(prop-2-en-1-yl)-2,3-dihydro-1H-inden-1-amine (three-letter code: RAS) (formula: $C_{12}H_{15}N$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			13	12	1		
3	B	1	Total	C	N	0	0
			13	12	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	228	Total	O	0	0
			228	228		
4	B	274	Total	O	0	0
			274	274		

4 Data and refinement statistics i

Property	Value	Source
Space group	C 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	132.92Å 224.33Å 86.69Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	15.00 – 2.07 30.69 – 2.07	Depositor EDS
% Data completeness (in resolution range)	97.2 (15.00-2.07) 97.2 (30.69-2.07)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.33 (at 2.06Å)	Xtriage
Refinement program	REFMAC 5.1.24	Depositor
R, R_{free}	0.207 , 0.236 0.209 , 0.239	Depositor DCC
R_{free} test set	1968 reflections (2.56%)	wwPDB-VP
Wilson B-factor (Å ²)	17.0	Xtriage
Anisotropy	0.059	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 52.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.016 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.024 for 1/2*h+1/2*k,3/2*h-1/2*k,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	8545	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.57% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: RAS, 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	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.37	0/4068	0.63	4/5522 (0.1%)
1	B	0.36	0/4037	0.63	1/5479 (0.0%)
All	All	0.36	0/8105	0.63	5/11001 (0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	123	ASP	CB-CG-OD2	5.29	123.06	118.30
1	A	471	ASP	CB-CG-OD2	5.18	122.96	118.30
1	B	6	ASP	CB-CG-OD2	5.13	122.92	118.30
1	A	318	ASP	CB-CG-OD2	5.13	122.91	118.30
1	A	330	ASP	CB-CG-OD2	5.04	122.84	118.30

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3971	0	3967	18	0
1	B	3940	0	3937	17	0
2	A	53	0	29	0	0
2	B	53	0	29	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	13	0	14	1	0
3	B	13	0	14	2	0
4	A	228	0	0	2	1
4	B	274	0	0	0	0
All	All	8545	0	7990	31	1

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.

All (31) 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:117:ASN:HD22	1:B:120:ARG:HH21	1.32	0.77
1:A:117:ASN:HD22	1:A:120:ARG:HH21	1.34	0.73
1:A:280:MET:HE1	1:B:353:ALA:HB1	1.77	0.66
1:A:353:ALA:HB1	1:B:280:MET:HE1	1.80	0.64
1:A:318:ASP:OD2	4:A:780:HOH:O	2.18	0.55
1:A:389:CYS:HB2	1:B:280:MET:HG3	1.92	0.52
1:B:117:ASN:HD22	1:B:120:ARG:NH2	2.06	0.50
1:A:117:ASN:HD22	1:A:120:ARG:NH2	2.08	0.48
1:B:55:ASP:O	1:B:296:LYS:HE2	2.14	0.48
1:A:237:TYR:HB3	1:A:248:GLU:HB3	1.98	0.46
1:A:55:ASP:O	1:A:296:LYS:HE2	2.16	0.45
1:B:237:TYR:HB3	1:B:248:GLU:HB3	1.98	0.45
1:A:451:LEU:HA	1:A:454:MET:HE2	1.99	0.45
1:A:350:ARG:HD3	1:B:410:TYR:OH	2.16	0.44
1:A:108:ASN:HA	1:A:109:PRO:HD3	1.88	0.44
1:A:353:ALA:HB1	1:B:280:MET:CE	2.47	0.44
1:A:251:ASN:H	1:A:251:ASN:ND2	2.16	0.43
1:B:171:LEU:HD21	3:B:601:RAS:H21	2.00	0.43
1:B:280:MET:HE2	1:B:280:MET:HB3	1.76	0.43
1:B:251:ASN:H	1:B:251:ASN:ND2	2.17	0.43
1:B:108:ASN:HA	1:B:109:PRO:HD3	1.87	0.42
1:B:451:LEU:HA	1:B:454:MET:HE2	2.01	0.42
1:A:445:ARG:HD2	1:A:463:TRP:CZ2	2.55	0.41
1:B:416:GLN:HA	1:B:417:PRO:HD3	1.94	0.41
1:A:91:HIS:HE1	4:A:694:HOH:O	2.03	0.41
1:B:60:TYR:CE2	1:B:209:LYS:HD3	2.56	0.41
1:A:489:VAL:N	1:A:490:PRO:HD2	2.35	0.41
1:A:171:LEU:HD21	3:A:601:RAS:H21	2.01	0.41
1:B:489:VAL:N	1:B:490:PRO:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:600:FAD:C4	3:B:601:RAS:H24	2.51	0.40
1:A:103:PHE:HA	1:A:104:PRO:HD3	1.97	0.40

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)
4:A:788:HOH:O	4:A:788:HOH:O[3_655]	1.80	0.40

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	A	497/520 (96%)	485 (98%)	12 (2%)	0	100	100
1	B	492/520 (95%)	481 (98%)	11 (2%)	0	100	100
All	All	989/1040 (95%)	966 (98%)	23 (2%)	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	Percentiles	
1	A	427/444 (96%)	412 (96%)	15 (4%)	36	29

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	424/444 (96%)	413 (97%)	11 (3%)	46	40
All	All	851/888 (96%)	825 (97%)	26 (3%)	40	34

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	154	LYS
1	A	190	LYS
1	A	227	ASP
1	A	242	ARG
1	A	280	MET
1	A	318	ASP
1	A	321	GLU
1	A	397	CYS
1	A	413	VAL
1	A	445	ARG
1	A	459	GLU
1	A	494	ARG
1	A	495	LEU
1	A	498	LEU
1	A	500	THR
1	B	154	LYS
1	B	190	LYS
1	B	242	ARG
1	B	280	MET
1	B	318	ASP
1	B	321	GLU
1	B	413	VAL
1	B	445	ARG
1	B	459	GLU
1	B	494	ARG
1	B	495	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	116	ASN
1	A	117	ASN
1	A	251	ASN
1	A	452	HIS
1	B	116	ASN

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Mol	Chain	Res	Type
1	B	117	ASN
1	B	251	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 carbohydrates 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	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	FAD	A	600	1,3	51,58,58	1.37	7 (13%)	60,89,89	1.60	8 (13%)
3	RAS	A	601	2	13,14,14	0.72	0	15,18,18	1.48	3 (20%)
2	FAD	B	600	1,3	51,58,58	1.43	7 (13%)	60,89,89	1.61	9 (15%)
3	RAS	B	601	2	13,14,14	0.75	0	15,18,18	1.55	3 (20%)

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	FAD	A	600	1,3	-	2/30/50/50	0/6/6/6
3	RAS	A	601	2	-	3/4/13/13	0/2/2/2
2	FAD	B	600	1,3	-	1/30/50/50	0/6/6/6
3	RAS	B	601	2	-	3/4/13/13	0/2/2/2

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	600	FAD	C10-N1	4.75	1.39	1.33
2	A	600	FAD	C10-N1	4.56	1.39	1.33
2	B	600	FAD	C4X-N5	4.24	1.39	1.33
2	A	600	FAD	C4X-N5	3.78	1.38	1.33
2	B	600	FAD	C2A-N3A	3.71	1.38	1.32
2	A	600	FAD	C2A-N3A	3.68	1.38	1.32
2	A	600	FAD	C4-N3	3.14	1.38	1.33
2	B	600	FAD	C4-N3	3.00	1.38	1.33
2	B	600	FAD	C1'-N10	2.91	1.51	1.48
2	A	600	FAD	C1'-N10	2.49	1.50	1.48
2	A	600	FAD	C2A-N1A	2.40	1.38	1.33
2	B	600	FAD	C2A-N1A	2.33	1.38	1.33
2	B	600	FAD	C5X-N5	2.10	1.38	1.35
2	A	600	FAD	C5X-N5	2.02	1.38	1.35

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	600	FAD	C4-N3-C2	6.18	120.36	115.14
2	B	600	FAD	N3A-C2A-N1A	-6.05	119.22	128.68
2	A	600	FAD	N3A-C2A-N1A	-5.83	119.57	128.68
2	A	600	FAD	C4-N3-C2	5.73	119.98	115.14
2	A	600	FAD	C9A-N10-C10	-3.84	116.88	121.91
2	B	600	FAD	C9A-N10-C10	-3.56	117.24	121.91
2	B	600	FAD	C4X-N5-C5X	2.86	119.63	116.77
3	A	601	RAS	C11-N10-C9	2.74	119.72	113.93
3	B	601	RAS	C6-C7-C8	-2.62	117.67	121.01
2	A	600	FAD	C4X-N5-C5X	2.62	119.39	116.77
3	B	601	RAS	C11-N10-C9	2.54	119.31	113.93
2	B	600	FAD	C9A-C5X-N5	-2.52	118.41	122.36
2	A	600	FAD	C4X-C4-N3	-2.45	120.08	123.43
2	A	600	FAD	C9A-C5X-N5	-2.44	118.54	122.36
2	B	600	FAD	P-O3P-PA	-2.39	124.64	132.83
3	A	601	RAS	C6-C7-C8	-2.37	118.00	121.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	600	FAD	C10-C4X-N5	-2.31	119.66	121.26
3	B	601	RAS	C5-C4-C3	-2.23	117.56	120.89
2	A	600	FAD	P-O3P-PA	-2.21	125.24	132.83
2	B	600	FAD	C4X-C4-N3	-2.18	120.46	123.43
3	A	601	RAS	C5-C4-C3	-2.08	117.79	120.89
2	B	600	FAD	C5'-C4'-C3'	-2.06	108.23	112.20
2	B	600	FAD	C10-C4X-N5	-2.04	119.85	121.26

There are no chirality outliers.

All (9) torsion outliers are listed below:

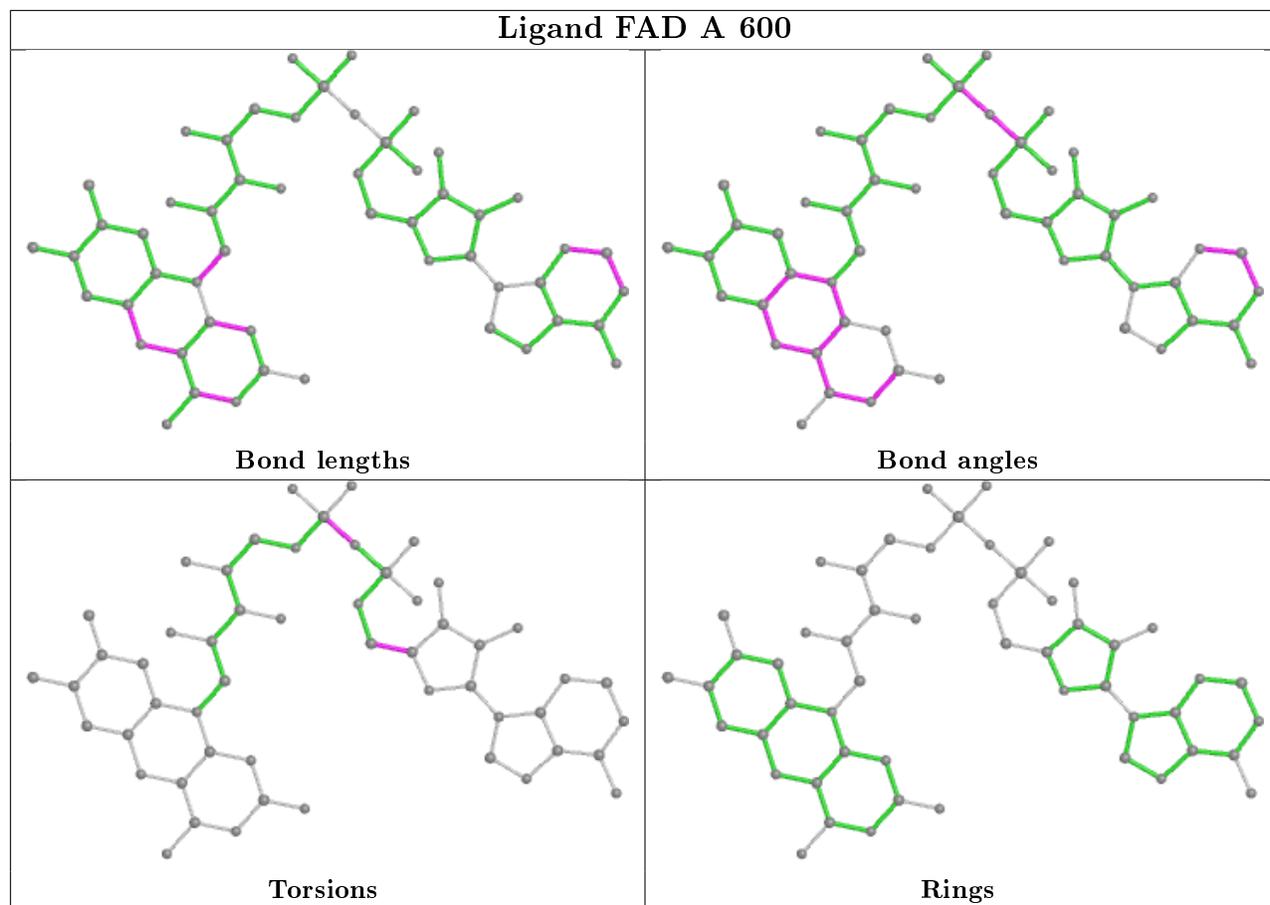
Mol	Chain	Res	Type	Atoms
3	A	601	RAS	C1-C9-N10-C11
3	A	601	RAS	C8-C9-N10-C11
3	B	601	RAS	C1-C9-N10-C11
3	B	601	RAS	C8-C9-N10-C11
3	A	601	RAS	N10-C11-C12-C13
3	B	601	RAS	N10-C11-C12-C13
2	A	600	FAD	PA-O3P-P-O5'
2	B	600	FAD	O4B-C4B-C5B-O5B
2	A	600	FAD	O4B-C4B-C5B-O5B

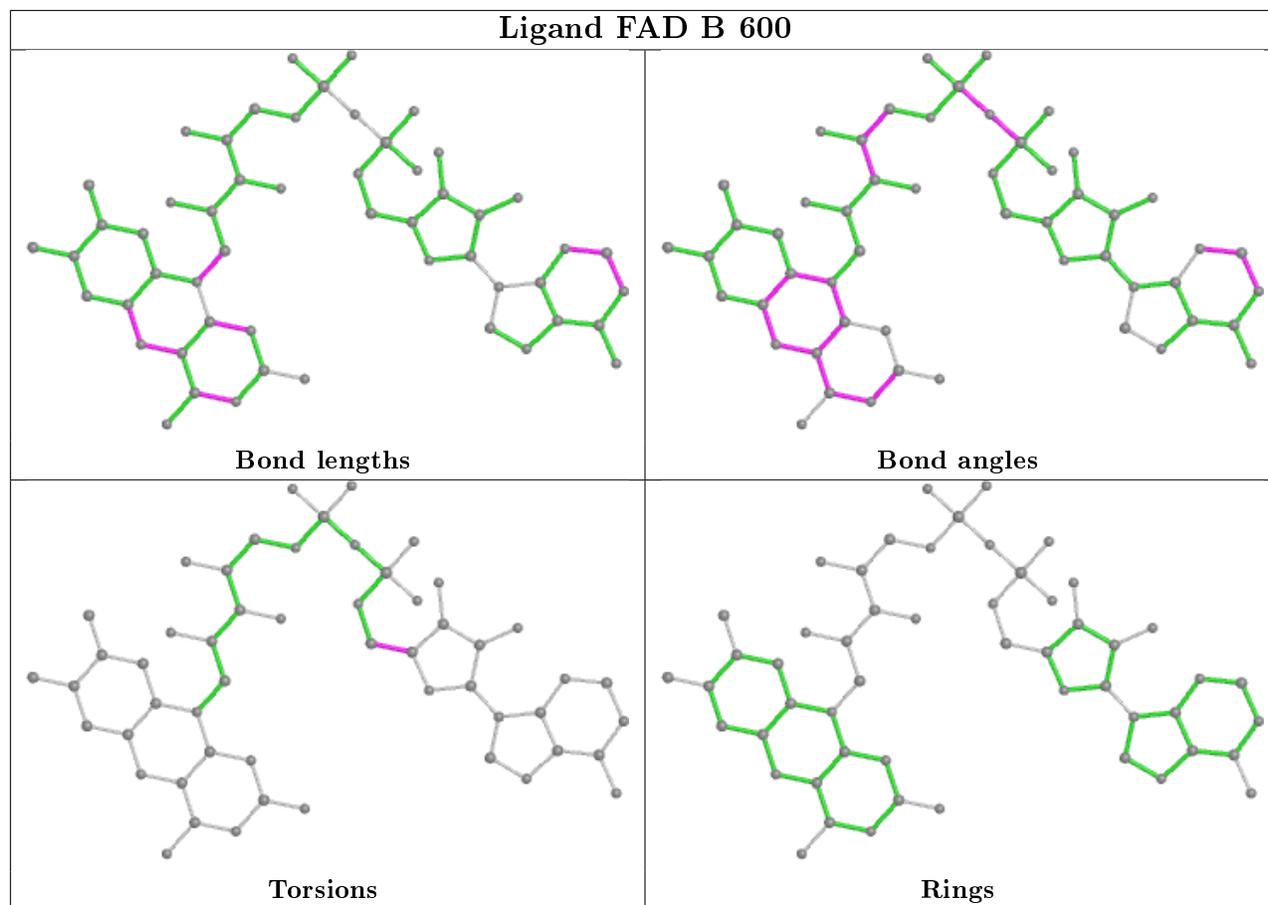
There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	601	RAS	1	0
2	B	600	FAD	1	0
3	B	601	RAS	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 than 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](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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, 95th 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	OWAB(Å ²)	Q<0.9
1	A	499/520 (95%)	-0.11	15 (3%) 50 53	8, 16, 35, 61	0
1	B	494/520 (95%)	-0.06	9 (1%) 68 70	8, 16, 34, 53	0
All	All	993/1040 (95%)	-0.08	24 (2%) 59 61	8, 16, 35, 61	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	495	LEU	7.2
1	A	500	THR	5.0
1	B	496	ILE	4.2
1	A	103	PHE	3.9
1	B	494	ARG	3.6
1	A	498	LEU	3.4
1	B	107	TRP	3.3
1	A	107	TRP	3.1
1	A	499	THR	3.0
1	A	252	HIS	3.0
1	B	242	ARG	3.0
1	A	482	LEU	2.9
1	A	480	THR	2.8
1	B	354	ARG	2.7
1	A	3	ASN	2.7
1	A	478	THR	2.5
1	B	103	PHE	2.5
1	A	501	ILE	2.5
1	A	481	PHE	2.4
1	B	318	ASP	2.2
1	A	354	ARG	2.2
1	B	93	LYS	2.2
1	A	242	ARG	2.1
1	A	302	LYS	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](#)

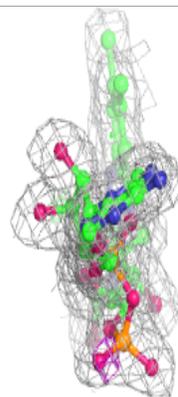
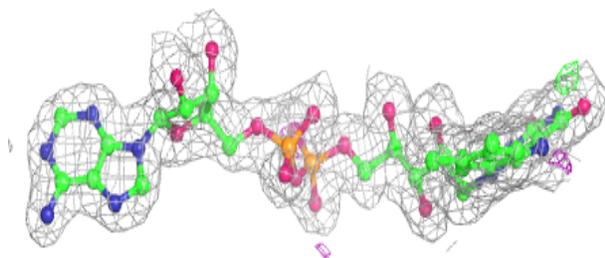
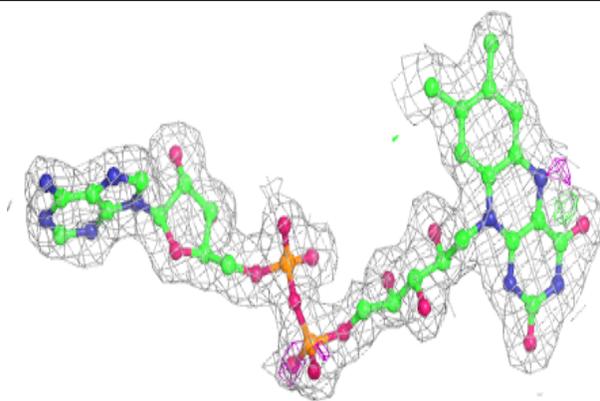
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	RAS	B	601	13/13	0.89	0.14	18,20,20,21	0
3	RAS	A	601	13/13	0.91	0.14	18,20,20,21	0
2	FAD	A	600	53/53	0.96	0.12	6,9,11,12	0
2	FAD	B	600	53/53	0.97	0.11	6,9,11,12	0

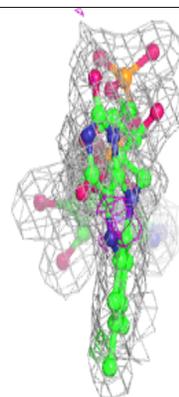
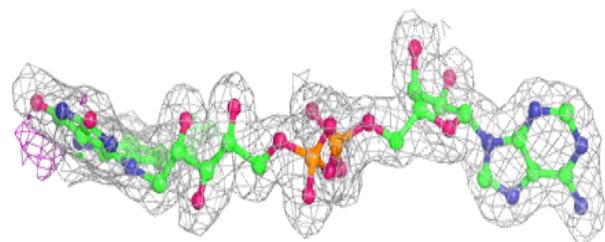
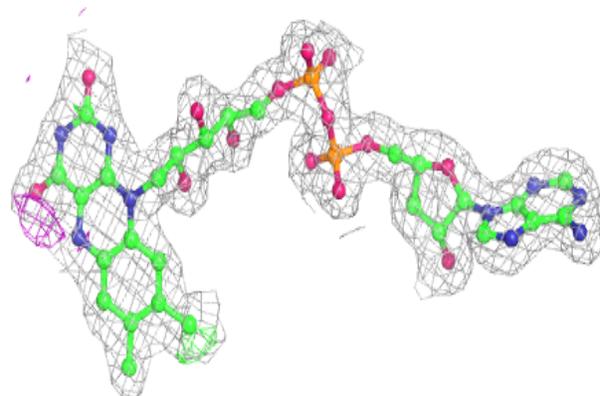
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around FAD A 600:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around FAD B 600:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.