



wwPDB X-ray Structure Validation Summary Report ⓘ

May 25, 2020 – 09:31 pm BST

PDB ID : 1G8G
Title : ATP SULFURYLASE FROM S. CEREVISIAE: THE BINARY PRODUCT
COMPLEX WITH APS
Authors : Ullrich, T.C.; Blaesse, M.; Huber, R.
Deposited on : 2000-11-17
Resolution : 2.60 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 ⓘ 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

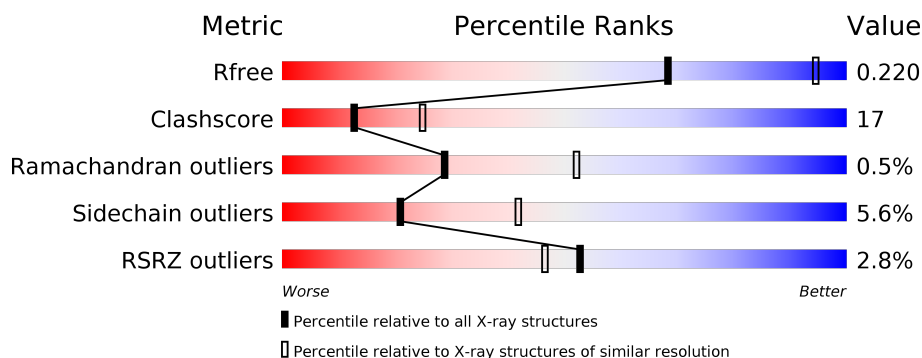
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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	511	<div> <div>2%</div> <div> <div></div> <div>72%</div> <div>25%</div> <div>.</div> </div> </div>
1	B	511	<div> <div>3%</div> <div> <div></div> <div>70%</div> <div>26%</div> <div>.</div> </div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
7	TRS	A	1415	-	-	-	X
7	TRS	B	1416	-	-	X	-

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 9078 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 SULFATE ADENYLYLTRANSFERASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	510	Total	C	N	O	S	28	0	0
			4077	2598	707	767	5			
1	B	510	Total	C	N	O	S	7	0	0
			4077	2598	707	767	5			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	131	ARG	LYS	CONFLICT	UNP P08536
A	457	ASP	ASN	CONFLICT	UNP P08536
B	131	ARG	LYS	CONFLICT	UNP P08536
B	457	ASP	ASN	CONFLICT	UNP P08536

- Molecule 2 is CADMIUM ION (three-letter code: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	5	Total	Cd	0	0
			5	5		
2	A	6	Total	Cd	0	0
			6	6		

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	3	Total	Ca	0	0
			3	3		
3	A	3	Total	Ca	0	0
			3	3		

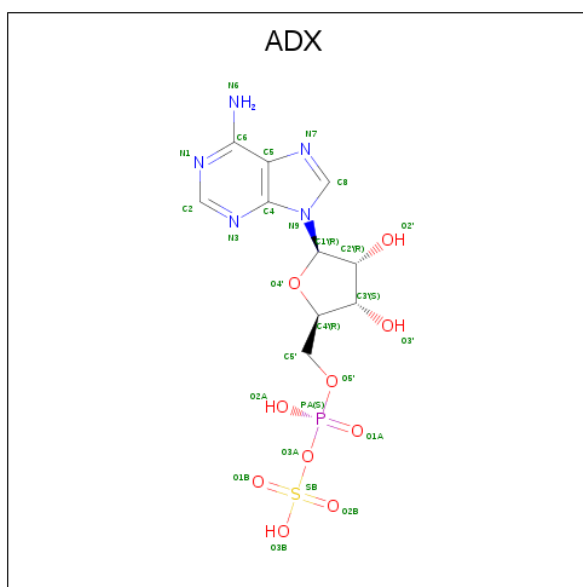
- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	6	Total	Na	0	0
			6	6		
4	A	6	Total	Na	0	0
			6	6		

- Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Mg	0	0
			1	1		
5	A	1	Total	Mg	0	0
			1	1		

- Molecule 6 is ADENOSINE-5'-PHOSPHOSULFATE (three-letter code: ADX) (formula: C₁₀H₁₄N₅O₁₀PS).



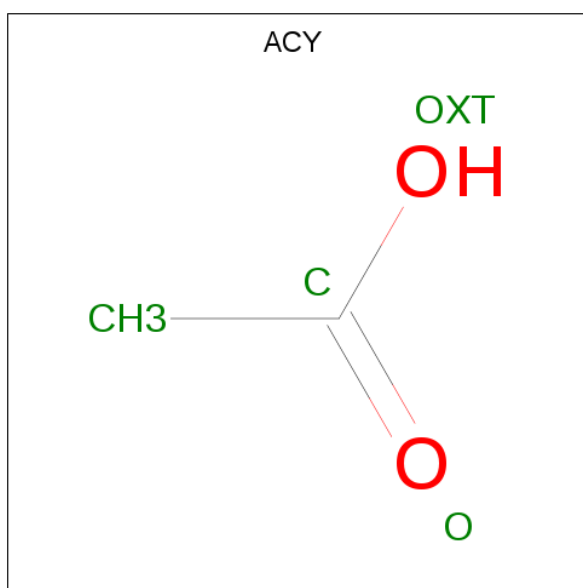
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
6	A	1	Total	C	N	O	P	S	0	0
			27	10	5	10	1	1		
6	B	1	Total	C	N	O	P	S	0	0
			27	10	5	10	1	1		

- Molecule 7 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: C₄H₁₂NO₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	A	1	Total	C	N	O	0	0
			8	4	1	3		
7	B	1	Total	C	N	O	0	0
			8	4	1	3		

- Molecule 8 is ACETIC ACID (three-letter code: ACY) (formula: C₂H₄O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total	C	O	0	0
			4	2	2		
8	A	1	Total	C	O	0	0
			4	2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0
8	A	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0
8	B	1	Total C O 4 2 2	0	0

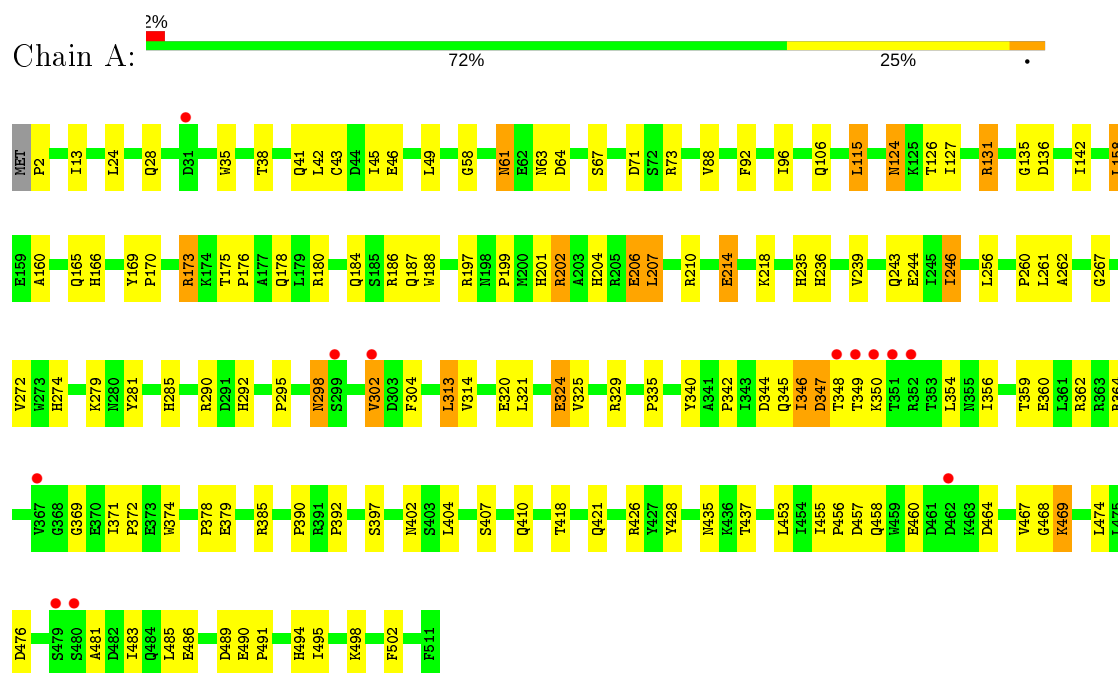
- Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	357	Total O 357 357	0	0
9	B	406	Total O 406 406	0	0

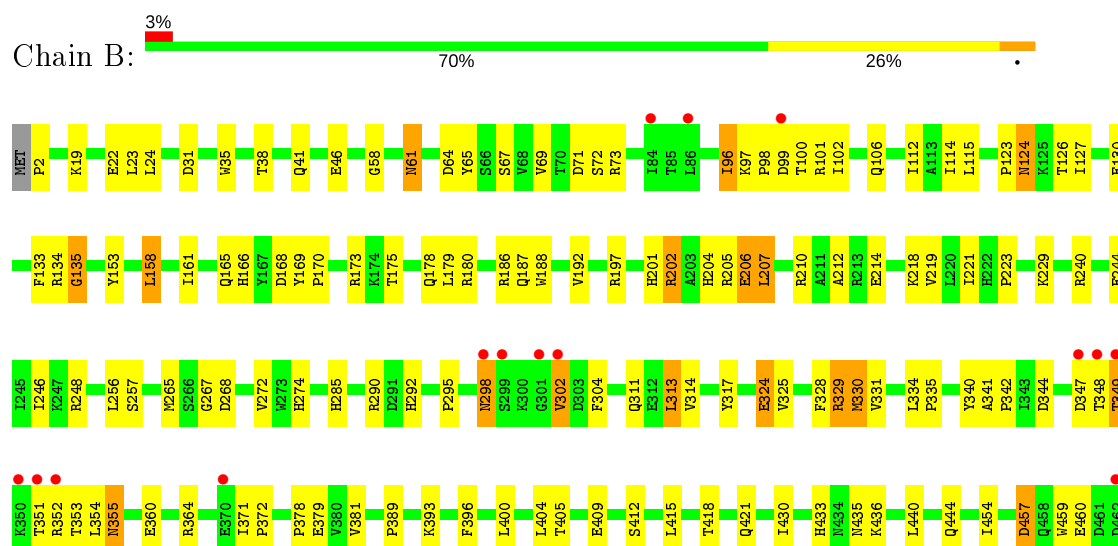
3 Residue-property plots

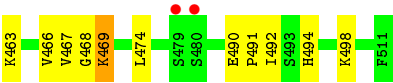
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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: SULFATE ADENYLYLTRANSFERASE



• Molecule 1: SULFATE ADENYLYLTRANSFERASE





4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	185.92Å 185.92Å 223.67Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	24.85 – 2.60 24.85 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.5 (24.85-2.60) 99.6 (24.85-2.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.11	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.86 (at 2.60Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.176 , 0.227 0.166 , 0.220	Depositor DCC
R_{free} test set	2337 reflections (5.14%)	wwPDB-VP
Wilson B-factor (Å ²)	37.5	Xtriage
Anisotropy	0.053	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 67.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.028 for -2/3*h-1/3*k+2/3*l,-1/3*h-2/3*k-2/3*l,2/3*h-2/3*k+1/3*l 0.019 for -h,1/3*h-1/3*k+2/3*l,2/3*h+4/3*k+1/3*l 0.011 for -1/3*h+1/3*k-2/3*l,-k,-4/3*h-2/3*k+1/3*l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9078	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.67% 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: MG, NA, CA, ADX, CD, TRS, ACY

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	0.49	0/4173	0.71	2/5670 (0.0%)
1	B	0.50	0/4173	0.71	1/5670 (0.0%)
All	All	0.49	0/8346	0.71	3/11340 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	135	GLY	N-CA-C	6.04	128.19	113.10
1	B	135	GLY	N-CA-C	5.80	127.61	113.10
1	A	115	LEU	CA-CB-CG	5.10	127.03	115.30

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	4077	0	4033	131	0
1	B	4077	0	4033	140	0
2	A	6	0	0	0	1
2	B	5	0	0	0	1
3	A	3	0	0	0	1
3	B	3	0	0	0	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	6	0	0	0	0
4	B	6	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	A	27	0	13	1	0
6	B	27	0	13	2	0
7	A	8	0	12	0	0
7	B	8	0	12	6	0
8	A	32	0	24	0	0
8	B	28	0	21	0	0
9	A	357	0	0	6	0
9	B	406	0	0	12	0
All	All	9078	0	8161	271	3

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 17.

The worst 5 of 271 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:329:ARG:H	1:B:329:ARG:HD2	0.98	1.09
1:A:348:THR:HB	1:A:350:LYS:HG2	1.38	1.01
1:B:329:ARG:CD	1:B:329:ARG:H	1.75	0.97
1:B:329:ARG:N	1:B:329:ARG:HD2	1.81	0.96
1:B:201:HIS:H	1:B:204:HIS:CD2	1.85	0.94

All (3) 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)
2:A:515:CD:CD	2:B:533:CD:CD[2_765]	1.06	1.14
3:A:520:CA:CA	3:A:520:CA:CA[10_456]	1.59	0.61
3:B:538:CA:CA	3:B:538:CA:CA[18_656]	1.66	0.54

5.3 Torsion angles

5.3.1 Protein backbone

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	508/511 (99%)	485 (96%)	20 (4%)	3 (1%)	25	47
1	B	508/511 (99%)	486 (96%)	20 (4%)	2 (0%)	34	57
All	All	1016/1022 (99%)	971 (96%)	40 (4%)	5 (0%)	29	52

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	346	ILE
1	A	267	GLY
1	A	347	ASP
1	B	267	GLY
1	B	349	THR

5.3.2 Protein sidechains

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	445/446 (100%)	423 (95%)	22 (5%)	25	48
1	B	445/446 (100%)	417 (94%)	28 (6%)	18	36
All	All	890/892 (100%)	840 (94%)	50 (6%)	21	42

5 of 50 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	24	LEU

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Mol	Chain	Res	Type
1	B	158	LEU
1	B	457	ASP
1	B	31	ASP
1	B	96	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 41 such sidechains are listed below:

Mol	Chain	Res	Type
1	A	298	ASN
1	A	506	ASN
1	B	345	GLN
1	A	355	ASN
1	A	421	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](#)

Of 50 ligands modelled in this entry, 31 are monoatomic - leaving 19 for Mogul analysis.

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
8	ACY	A	565	2	1,3,3	5.32	1 (100%)	0,3,3	0.00	-
8	ACY	A	557	2	1,3,3	5.46	1 (100%)	0,3,3	0.00	-
8	ACY	B	564	2	1,3,3	6.38	1 (100%)	0,3,3	0.00	-
6	ADX	B	636	-	25,29,29	1.35	3 (12%)	26,45,45	1.51	2 (7%)
8	ACY	A	553	-	1,3,3	5.50	1 (100%)	0,3,3	0.00	-
8	ACY	A	554	-	1,3,3	7.00	1 (100%)	0,3,3	0.00	-
8	ACY	B	559	2	1,3,3	5.47	1 (100%)	0,3,3	0.00	-
6	ADX	A	635	-	25,29,29	1.33	3 (12%)	26,45,45	1.54	2 (7%)
8	ACY	A	555	2	1,3,3	5.45	1 (100%)	0,3,3	0.00	-
7	TRS	A	1415	-	7,7,7	1.04	0	9,9,9	1.62	2 (22%)
8	ACY	A	551	2	1,3,3	5.19	1 (100%)	0,3,3	0.00	-
8	ACY	B	562	2	1,3,3	4.07	1 (100%)	0,3,3	0.00	-
8	ACY	B	558	2	1,3,3	5.33	1 (100%)	0,3,3	0.00	-
8	ACY	A	556	2	1,3,3	5.21	1 (100%)	0,3,3	0.00	-
8	ACY	B	563	2	1,3,3	5.54	1 (100%)	0,3,3	0.00	-
7	TRS	B	1416	-	7,7,7	0.93	0	9,9,9	1.51	1 (11%)
8	ACY	A	552	2	1,3,3	6.07	1 (100%)	0,3,3	0.00	-
8	ACY	B	560	-	1,3,3	6.02	1 (100%)	0,3,3	0.00	-
8	ACY	B	561	-	1,3,3	6.88	1 (100%)	0,3,3	0.00	-

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
7	TRS	B	1416	-	-	3/9/9/9	-
7	TRS	A	1415	-	-	6/9/9/9	-
6	ADX	B	636	-	-	2/6/32/32	0/3/3/3
6	ADX	A	635	-	-	2/6/32/32	0/3/3/3

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	A	554	ACY	CH3-C	7.00	1.57	1.48
8	B	561	ACY	CH3-C	6.88	1.57	1.48
8	B	564	ACY	CH3-C	6.38	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	A	552	ACY	CH3-C	6.07	1.56	1.48
8	B	560	ACY	CH3-C	6.02	1.56	1.48

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	635	ADX	N3-C2-N1	-6.39	118.69	128.68
6	B	636	ADX	N3-C2-N1	-6.35	118.75	128.68
7	A	1415	TRS	C2-C-N	3.73	119.12	107.98
7	B	1416	TRS	C2-C-N	3.51	118.45	107.98
6	B	636	ADX	C4-C5-N7	-2.17	107.14	109.40

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

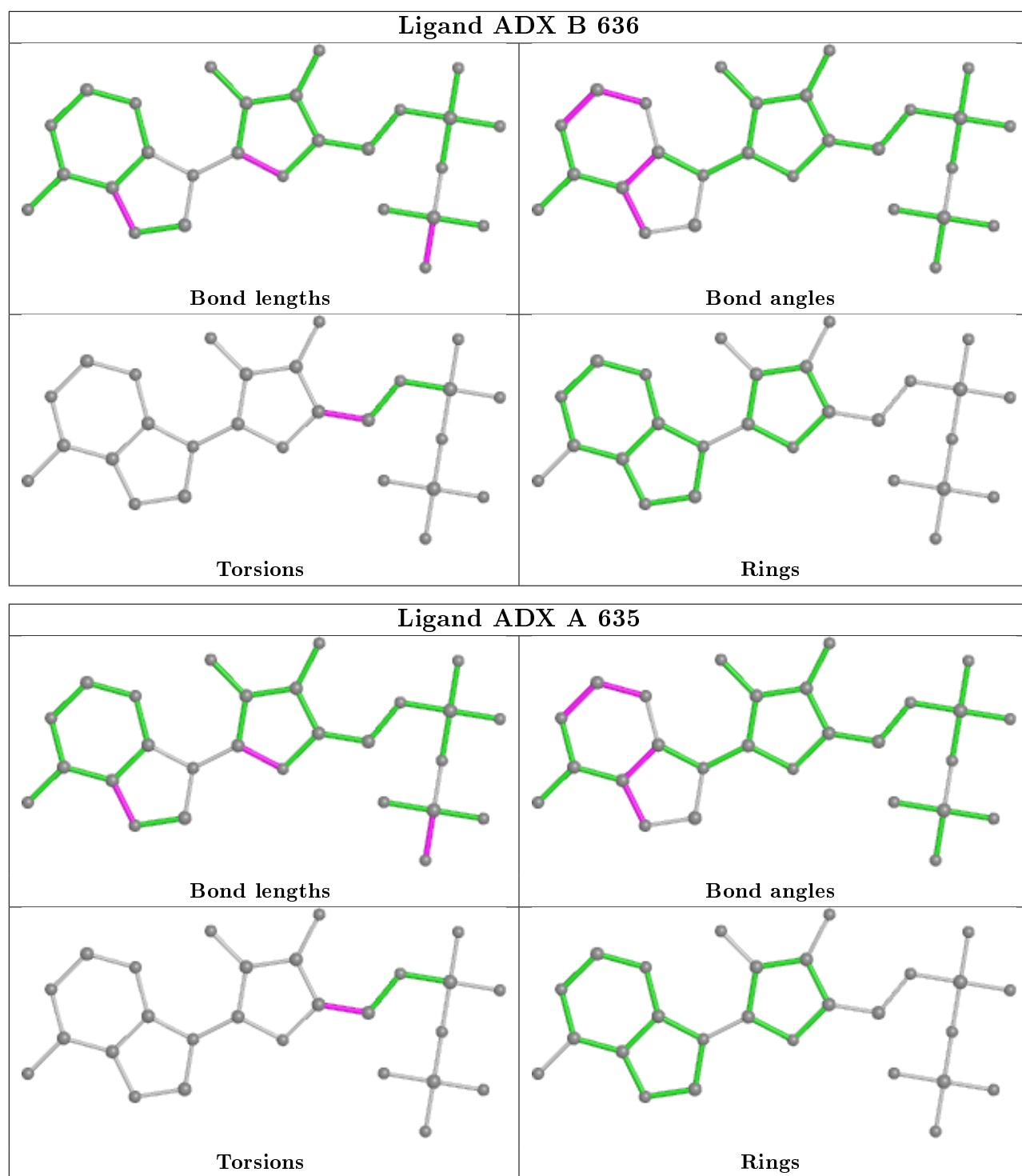
Mol	Chain	Res	Type	Atoms
7	A	1415	TRS	C1-C-C2-O2
7	A	1415	TRS	C3-C-C2-O2
7	A	1415	TRS	N-C-C2-O2
6	B	636	ADX	O4'-C4'-C5'-O5'
7	A	1415	TRS	C3-C-C1-O1

There are no ring outliers.

3 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	636	ADX	2	0
6	A	635	ADX	1	0
7	B	1416	TRS	6	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 ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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, 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	510/511 (99%)	-0.28	12 (2%) 59 53	21, 32, 55, 83	9 (1%)
1	B	510/511 (99%)	-0.27	17 (3%) 46 39	18, 32, 55, 90	5 (0%)
All	All	1020/1022 (99%)	-0.28	29 (2%) 53 46	18, 32, 55, 90	14 (1%)

The worst 5 of 29 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	348	THR	4.3
1	B	349	THR	3.8
1	A	480	SER	3.7
1	A	349	THR	3.6
1	B	479	SER	3.6

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.

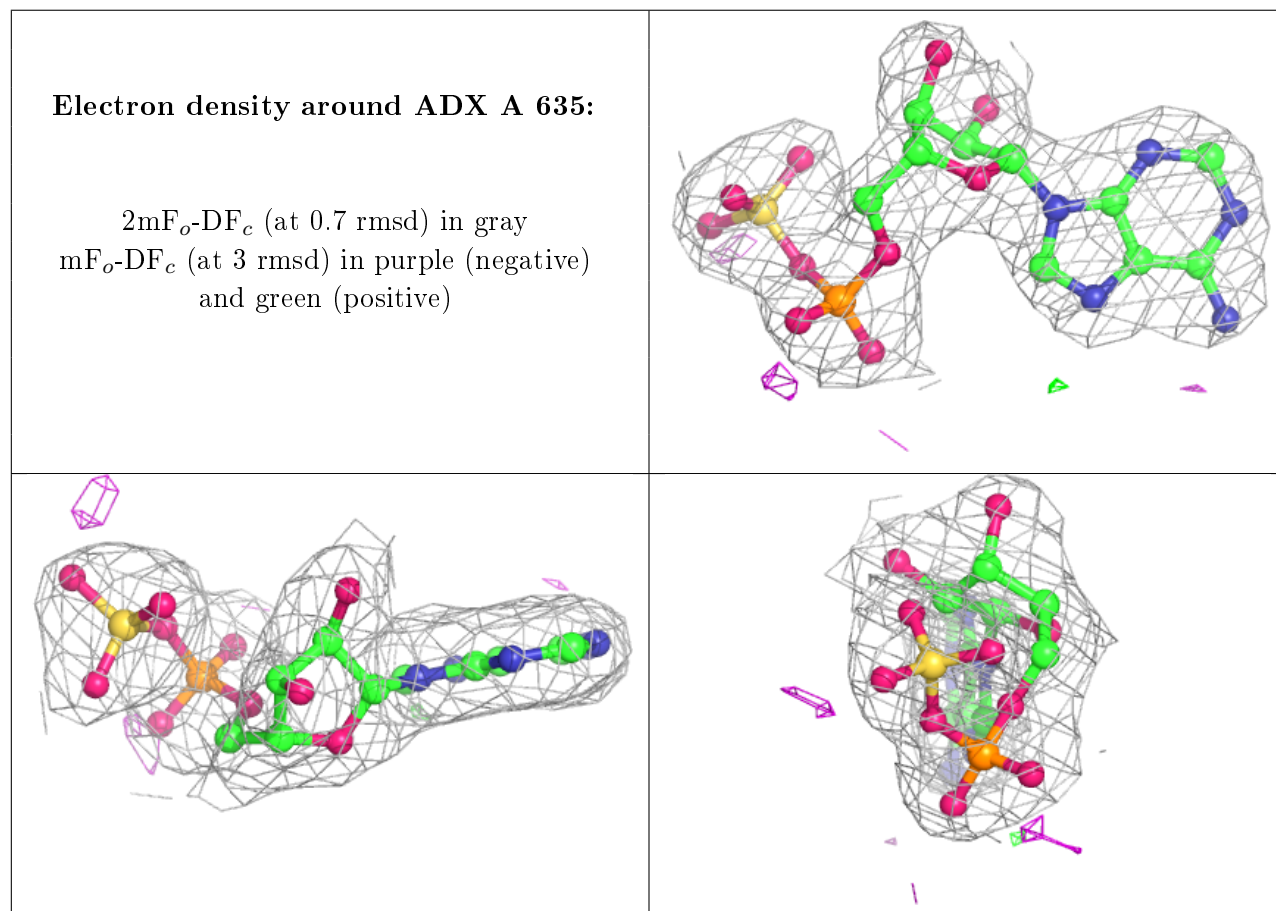
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
7	TRS	A	1415	8/8	0.66	0.43	83,85,87,89	0
7	TRS	B	1416	8/8	0.76	0.36	64,67,68,68	0
8	ACY	A	553	4/4	0.81	0.29	57,60,60,61	0
4	NA	A	518	1/1	0.81	0.08	48,48,48,48	0
8	ACY	B	560	4/4	0.85	0.27	54,57,58,58	0
5	MG	A	521	1/1	0.89	0.09	37,37,37,37	0
8	ACY	B	561	4/4	0.90	0.18	32,36,36,37	0
4	NA	B	541	1/1	0.90	0.09	39,39,39,39	0
3	CA	B	535	1/1	0.92	0.11	42,42,42,42	0
4	NA	B	543	1/1	0.93	0.11	38,38,38,38	0
3	CA	A	519	1/1	0.93	0.10	68,68,68,68	0
4	NA	B	536	1/1	0.94	0.06	36,36,36,36	0
4	NA	A	526	1/1	0.94	0.13	36,36,36,36	0
4	NA	B	540	1/1	0.95	0.07	43,43,43,43	0
4	NA	A	525	1/1	0.95	0.10	16,16,16,16	0
4	NA	A	527	1/1	0.95	0.07	41,41,41,41	0
4	NA	A	523	1/1	0.96	0.05	56,56,56,56	0
8	ACY	B	558	4/4	0.96	0.34	35,36,37,37	0
8	ACY	A	554	4/4	0.96	0.14	22,26,27,29	0
4	NA	A	522	1/1	0.96	0.04	35,35,35,35	0
8	ACY	A	555	4/4	0.96	0.12	21,21,22,24	0
8	ACY	B	562	4/4	0.97	0.13	25,28,28,29	0
3	CA	A	517	1/1	0.97	0.11	40,40,40,40	0
3	CA	B	537	1/1	0.97	0.13	70,70,70,70	0
8	ACY	A	565	4/4	0.98	0.23	47,49,49,50	0
6	ADX	A	635	27/27	0.98	0.13	26,31,34,35	0
3	CA	A	520	1/1	0.98	0.03	48,48,48,48	0
4	NA	B	542	1/1	0.98	0.12	55,55,55,55	0
5	MG	B	539	1/1	0.98	0.07	40,40,40,40	0
6	ADX	B	636	27/27	0.98	0.12	22,28,33,34	0
8	ACY	A	551	4/4	0.98	0.32	33,35,35,36	0
4	NA	B	544	1/1	0.99	0.14	34,34,34,34	0
2	CD	B	532	1/1	0.99	0.05	42,42,42,42	0
8	ACY	A	557	4/4	0.99	0.12	11,17,19,22	0
2	CD	B	531	1/1	0.99	0.05	57,57,57,57	1
8	ACY	B	559	4/4	0.99	0.13	22,24,25,27	0
8	ACY	A	556	4/4	0.99	0.20	42,43,43,44	0
2	CD	A	524	1/1	0.99	0.02	46,46,46,46	0
2	CD	B	530	1/1	0.99	0.11	6,6,6,6	1
3	CA	B	538	1/1	0.99	0.05	34,34,34,34	0
2	CD	A	513	1/1	0.99	0.04	46,46,46,46	1
8	ACY	B	564	4/4	0.99	0.11	13,16,19,19	0
8	ACY	A	552	4/4	0.99	0.11	21,24,25,25	0

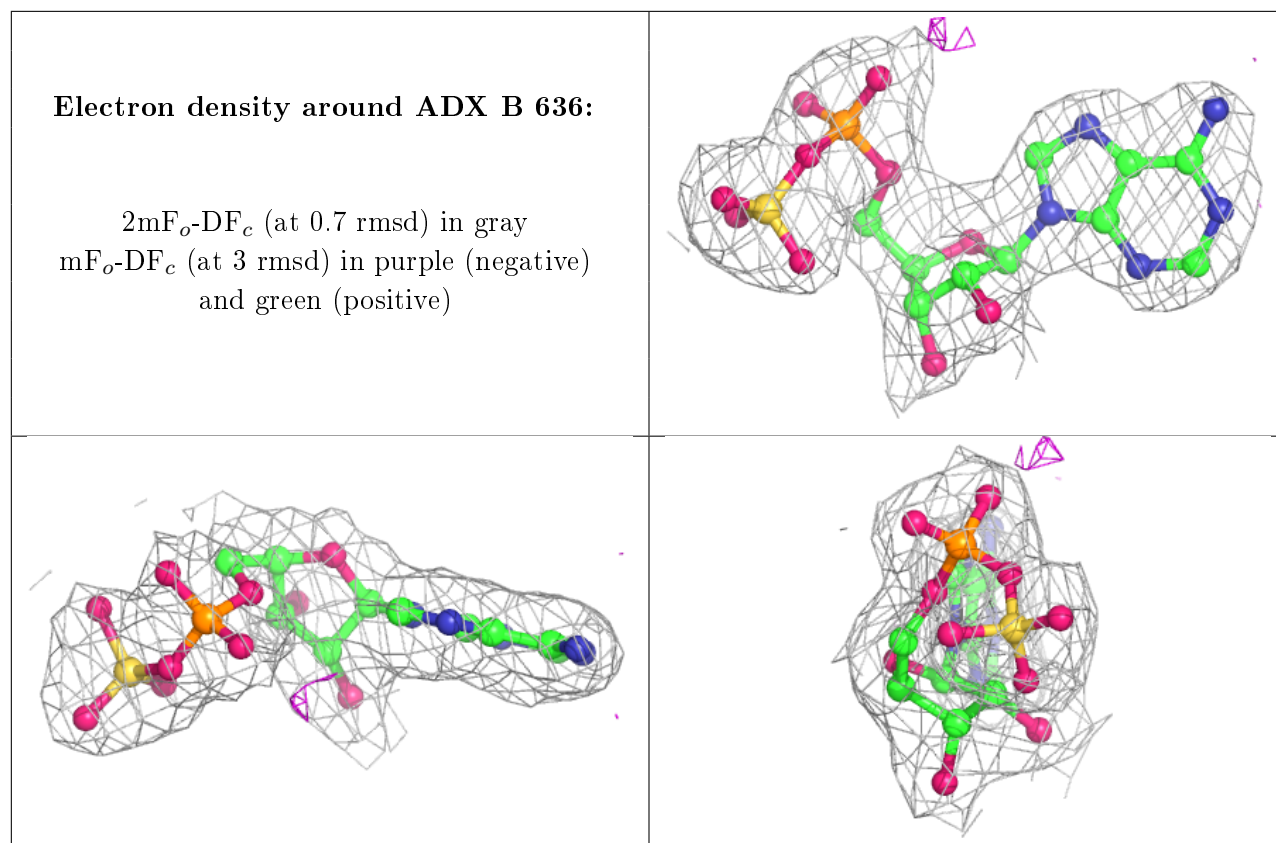
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	CD	A	516	1/1	1.00	0.04	20,20,20,20	1
2	CD	B	534	1/1	1.00	0.05	18,18,18,18	1
2	CD	A	514	1/1	1.00	0.06	37,37,37,37	0
2	CD	A	512	1/1	1.00	0.12	6,6,6,6	1
2	CD	B	533	1/1	1.00	0.05	70,70,70,70	1
2	CD	A	515	1/1	1.00	0.05	31,31,31,31	0
8	ACY	B	563	4/4	1.00	0.19	43,44,44,44	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 ⓘ

There are no such residues in this entry.