

Full wwPDB X-ray Structure Validation Report (i)

Jun 16, 2024 – 06:48 PM EDT

PDB ID 3MGD

> Title Crystal Structure of predicted acetyltransferase with acetyl-CoA from Clostrid-

> > ium acetobutylicum at the resolution 1.9A, Northeast Structural Genomics

Consortium Target CaR165

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2010-04-05 Deposited on

Resolution 1.90 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 (i)) were used in the production of this report:

MolProbity 4.02b-467

> Mogul 2022.3.0, CSD as543be (2022)

Xtriage (Phenix) 1.20.1

EDS 2.37.1buster-report 1.1.7 (2018)

20191225.v01 (using entries in the PDB archive December 25th 2019) Percentile statistics

> Refmac 5.8.0158

CCP4 7.0.044 (Gargrove)

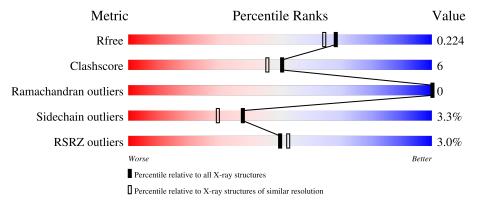
Engh & Huber (2001) Ideal geometry (proteins)

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 1.90 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	Similar resolution
Metric	(# Entries)	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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	A	157	86%	11%	• • •
1	В	157	80%	18%	

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

Validation Pipeline (wwPDB-VP) : 2.37.1



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 2942 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 Predicted acetyltransferase.

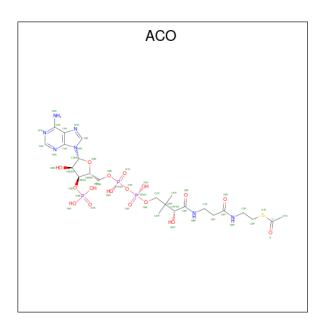
\mathbf{Mol}	Chain	Residues		Atoms			ZeroOcc	AltConf	Trace			
1	A	153	Total 1279	C 808		O 236			0	4	0	
1	В	154	Total 1268		N 222	O 238	S 1	Se 5	0	2	0	

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	-	EXPRESSION TAG	UNP Q97MN4
A	2	MSE	-	EXPRESSION TAG	UNP Q97MN4
A	150	LEU	-	EXPRESSION TAG	UNP Q97MN4
A	151	GLU	-	EXPRESSION TAG	UNP Q97MN4
A	152	HIS	-	EXPRESSION TAG	UNP Q97MN4
A	153	HIS	-	EXPRESSION TAG	UNP Q97MN4
A	154	HIS	-	EXPRESSION TAG	UNP Q97MN4
A	155	HIS	-	EXPRESSION TAG	UNP Q97MN4
A	156	HIS	-	EXPRESSION TAG	UNP Q97MN4
A	157	HIS	-	EXPRESSION TAG	UNP Q97MN4
В	1	MSE	-	EXPRESSION TAG	UNP Q97MN4
В	2	MSE	-	EXPRESSION TAG	UNP Q97MN4
В	150	LEU	-	EXPRESSION TAG	UNP Q97MN4
В	151	GLU	-	EXPRESSION TAG	UNP Q97MN4
В	152	HIS	-	EXPRESSION TAG	UNP Q97MN4
В	153	HIS	-	EXPRESSION TAG	UNP Q97MN4
В	154	HIS	-	EXPRESSION TAG	UNP Q97MN4
В	155	HIS	-	EXPRESSION TAG	UNP Q97MN4
В	156	HIS	-	EXPRESSION TAG	UNP Q97MN4
В	157	HIS	_	EXPRESSION TAG	UNP Q97MN4

• Molecule 2 is ACETYL COENZYME *A (three-letter code: ACO) (formula: $C_{23}H_{38}N_7O_{17}P_3S$).





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf		
9	Λ	1	Total	С	N	О	Р	S	0	0	
2	A	1	51	23	7	17	3	1	U		
9	D	1	Total	С	N	О	Р	S	0	0	
2	Б	1	51	23	7	17	3	1	U	U	

• Molecule 3 is water.

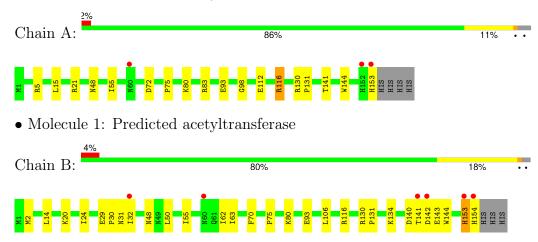
-	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	3	A	187	Total O 187 187	0	0
	3	В	106	Total O 106 106	0	0



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: Predicted acetyltransferase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	57.93Å 56.34Å 99.72Å	Donositor
a, b, c, α , β , γ	90.00° 98.86° 90.00°	Depositor
Resolution (Å)	28.69 - 1.90	Depositor
Resolution (A)	28.69 - 1.90	EDS
% Data completeness	99.2 (28.69-1.90)	Depositor
(in resolution range)	99.2 (28.69-1.90)	EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	3.88 (at 1.89Å)	Xtriage
Refinement program	PHENIX 1.5_2, REFMAC	Depositor
D D.	0.180 , 0.228	Depositor
R, R_{free}	0.178 , 0.224	DCC
R_{free} test set	1274 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	24.7	Xtriage
Anisotropy	0.324	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.32, 54.1	EDS
L-test for twinning ²	$ < L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2942	wwPDB-VP
Average B, all atoms (Å ²)	32.0	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 37.28 % 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 4.3935e-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: ACO

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.38	0/1303	0.57	0/1750	
1	В	0.38	0/1290	0.51	0/1735	
All	All	0.38	0/2593	0.54	0/3485	

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	A	1279	0	1298	11	0
1	В	1268	0	1273	19	0
2	A	51	0	33	1	0
2	В	51	0	33	0	0
3	A	187	0	0	2	0
3	В	106	0	0	3	0
All	All	2942	0	2637	30	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 6.

All (30) close contacts within the same asymmetric unit are listed below, sorted by their clash



magnitude.

Atom-1	Atom-2	Interatomic	Clash
1 D 1 (1 FILE HOL)	1 D 1 / / MD D 11D 1	distance (Å)	overlap (Å)
1:B:141:THR:HG21	1:B:144:TRP:HD1	1.47	0.79
1:B:24:ILE:HG12	1:B:30:PRO:HG3	1.71	0.72
1:B:141:THR:HG22	1:B:143:GLU:H	1.60	0.65
1:B:130:ARG:O	1:B:134:LYS:HG2	1.97	0.65
1:B:141:THR:CG2	1:B:143:GLU:HB2	2.29	0.62
1:B:141:THR:HG21	1:B:144:TRP:CD1	2.33	0.61
1:A:21[A]:ARG:NH2	1:A:93:GLU:OE1	2.37	0.58
1:B:63:ILE:HD12	1:B:93:GLU:OE2	2.03	0.58
1:B:48:ASN:O	1:B:50:LEU:HD22	2.07	0.54
1:A:98:GLY:HA2	2:A:200:ACO:O4B	2.07	0.53
1:A:72:ASP:OD1	1:A:83[B]:ARG:HG2	2.10	0.52
1:A:141:THR:HG21	1:A:144:TRP:HD1	1.75	0.51
1:A:5:ARG:CZ	1:A:55:ILE:HD11	2.40	0.51
1:B:55:ILE:HG23	1:B:62:ILE:HG13	1.94	0.50
1:B:31:ASN:O	1:B:32:ILE:HG23	2.13	0.49
1:B:31:ASN:HB2	3:B:189:HOH:O	2.15	0.47
1:B:63:ILE:HD11	3:B:188:HOH:O	2.16	0.46
1:B:70:PHE:CZ	1:B:116:ARG:HD2	2.52	0.45
1:A:48[A]:ASN:ND2	3:A:320:HOH:O	2.49	0.45
1:B:29:GLU:HA	1:B:30:PRO:HD3	1.69	0.44
1:B:116:ARG:HD3	3:B:284:HOH:O	2.17	0.43
1:A:75:PRO:HB3	1:A:80:LYS:O	2.17	0.43
1:B:130:ARG:HB3	1:B:131:PRO:HD3	2.00	0.42
1:A:112:GLU:OE1	1:A:116[A]:ARG:NH2	2.53	0.42
1:A:141:THR:HG21	1:A:144:TRP:CD1	2.53	0.41
1:B:75:PRO:HB3	1:B:80:LYS:O	2.21	0.41
1:A:80:LYS:NZ	3:A:293:HOH:O	2.54	0.41
1:B:20:LYS:HB2	1:B:20:LYS:HE3	1.90	0.41
1:B:153:HIS:HB2	1:B:154:HIS:H	1.67	0.40
1:A:130:ARG:HB3	1:A:131:PRO:HD3	2.03	0.40

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	\mathbf{ntiles}
1	A	155/157~(99%)	151 (97%)	4 (3%)	0	100	100
1	В	154/157~(98%)	151 (98%)	3 (2%)	0	100	100
All	All	309/314 (98%)	302 (98%)	7 (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	Percentiles		
1	A	139/134 (104%)	135 (97%)	4 (3%)	42 35	
1	В	138/134 (103%)	132 (96%)	6 (4%)	29 19	
All	All	277/268 (103%)	267 (96%)	10 (4%)	38 26	

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	LEU
1	A	116[A]	ARG
1	A	116[B]	ARG
1	A	153	HIS
1	В	2	MSE
1	В	14	LEU
1	В	106	LEU
1	В	140	ASP
1	В	142	ASP
1	В	153	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:



Mol	Chain	Res	Type
1	A	79	ASN
1	A	152	HIS
1	В	79	ASN
1	В	119	HIS

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)

2 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	Mol Type Chain I		Res	Timle	Bond lengths			Bond angles		
IVIOI	Type	Chain	ries	Link	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	ACO	A	200	-	47,53,53	2.16	10 (21%)	60,79,79	2.09	6 (10%)
2	ACO	В	201	-	47,53,53	2.27	12 (25%)	60,79,79	2.48	11 (18%)

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.

\mathbf{Mol}	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ACO	A	200	-	-	6/47/67/67	0/3/3/3

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\mathbf{Mol}	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ACO	В	201	-	-	7/47/67/67	0/3/3/3

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
2	В	201	ACO	C4A-N3A	7.77	1.46	1.35
2	A	200	ACO	C4A-N3A	7.51	1.45	1.35
2	В	201	ACO	C2A-N3A	6.57	1.42	1.32
2	A	200	ACO	C2A-N3A	6.40	1.42	1.32
2	В	201	ACO	C9P-N8P	5.59	1.46	1.33
2	A	200	ACO	C9P-N8P	4.95	1.45	1.33
2	В	201	ACO	C5P-N4P	4.15	1.43	1.33
2	A	200	ACO	C5P-N4P	3.96	1.42	1.33
2	В	201	ACO	C2A-N1A	3.57	1.40	1.33
2	A	200	ACO	C2A-N1A	3.56	1.40	1.33
2	В	201	ACO	C6A-N6A	3.16	1.45	1.34
2	В	201	ACO	C6A-N1A	3.15	1.48	1.36
2	A	200	ACO	C6A-N6A	3.14	1.45	1.34
2	A	200	ACO	C6A-N1A	3.09	1.48	1.36
2	В	201	ACO	C8A-N7A	2.92	1.40	1.34
2	В	201	ACO	O4B-C1B	2.74	1.44	1.40
2	A	200	ACO	C8A-N7A	2.46	1.39	1.34
2	A	200	ACO	O4B-C1B	2.42	1.44	1.40
2	В	201	ACO	P3B-O7A	2.24	1.57	1.50
2	A	200	ACO	P3B-O7A	2.18	1.57	1.50
2	В	201	ACO	OAP-CAP	-2.06	1.38	1.42
2	В	201	ACO	P2A-O4A	2.04	1.57	1.50

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	201	ACO	O4B-C1B-N9A	14.80	128.38	108.75
2	A	200	ACO	O4B-C1B-N9A	12.42	125.22	108.75
2	В	201	ACO	N3A-C2A-N1A	-6.45	119.92	128.67
2	A	200	ACO	N3A-C2A-N1A	-6.23	120.21	128.67
2	В	201	ACO	O2B-C2B-C3B	3.63	121.35	111.19
2	В	201	ACO	O4B-C4B-C5B	3.22	119.64	109.33
2	A	200	ACO	O2B-C2B-C3B	3.11	119.88	111.19
2	В	201	ACO	O3B-C3B-C2B	3.01	122.46	111.68
2	В	201	ACO	C3B-C2B-C1B	2.98	106.44	99.89
2	A	200	ACO	C5B-C4B-C3B	2.87	123.93	114.38
2	В	201	ACO	O3B-C3B-C4B	2.86	120.10	110.03

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	201	ACO	C4B-O4B-C1B	-2.62	107.53	109.92
2	В	201	ACO	CDP-CBP-CCP	2.33	112.08	108.22
2	A	200	ACO	O4B-C4B-C5B	2.25	116.54	109.33
2	В	201	ACO	C2P-S1P-C	2.22	112.09	101.42
2	В	201	ACO	C2P-C3P-N4P	2.19	116.98	112.41
2	A	200	ACO	C2P-S1P-C	2.13	111.67	101.42

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	200	ACO	CCP-O6A-P2A-O4A
2	В	201	ACO	C5B-O5B-P1A-O1A
2	В	201	ACO	CCP-O6A-P2A-O4A
2	В	201	ACO	C4B-C3B-O3B-P3B
2	В	201	ACO	C5P-C6P-C7P-N8P
2	A	200	ACO	P2A-O3A-P1A-O1A
2	В	201	ACO	CEP-CBP-CCP-O6A
2	A	200	ACO	C3B-O3B-P3B-O8A
2	В	201	ACO	C6P-C7P-N8P-C9P
2	A	200	ACO	C3B-O3B-P3B-O7A
2	A	200	ACO	C3B-O3B-P3B-O9A
2	В	201	ACO	O5P-C5P-N4P-C3P
2	A	200	ACO	P2A-O3A-P1A-O2A

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	200	ACO	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 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.

Rings

5.7 Other polymers (i)

There are no such residues in this entry.

Torsions

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	$\langle { m RSRZ} \rangle$	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	148/157 (94%)	-0.26	3 (2%) 65 68	16, 23, 43, 97	0
1	В	149/157 (94%)	0.06	6 (4%) 38 41	19, 32, 54, 114	0
All	All	297/314 (94%)	-0.10	9 (3%) 50 53	16, 27, 51, 114	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	153	HIS	5.7
1	В	154	HIS	5.6
1	A	153	HIS	4.8
1	В	141	THR	3.8
1	В	142	ASP	2.8
1	В	60	ASN	2.3
1	В	32	ILE	2.2
1	A	60	ASN	2.1
1	A	152	HIS	2.1

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)

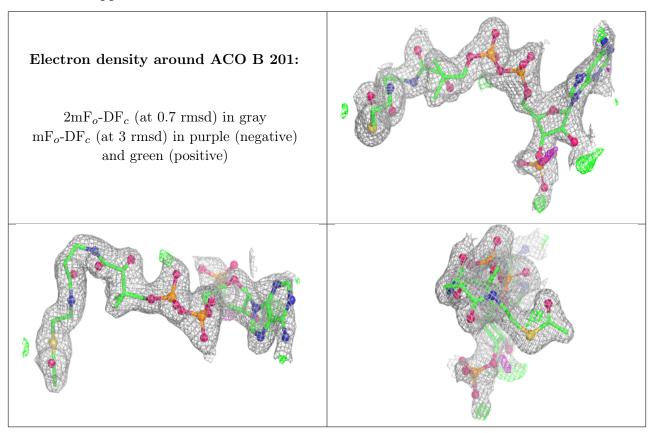
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,



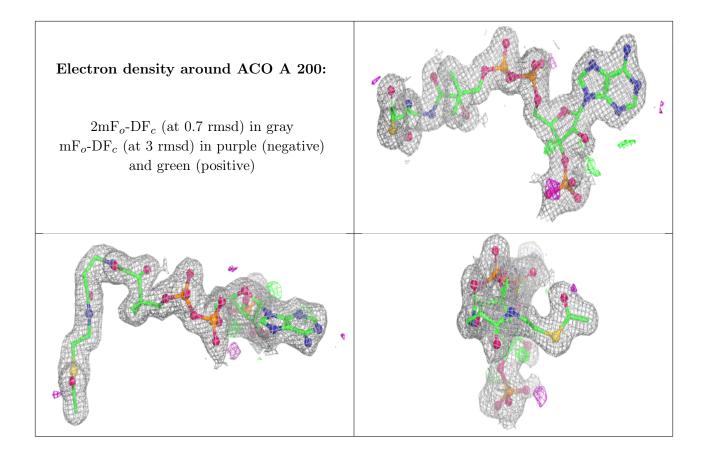
median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	ACO	В	201	51/51	0.95	0.11	22,35,136,153	0
2	ACO	A	200	51/51	0.97	0.09	15,23,52,73	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.

