



Full wwPDB X-ray Structure Validation Report ⓘ

May 16, 2020 – 12:17 am BST

PDB ID : 6COB
Title : AtHNL enantioselectivity mutant At-A9-H7 Apo, Y13C,Y121L,P126F,L128
W,C131T,F179L,A209I
Authors : Jones, B.J.; Kazlauskas, R.J.; Desrouleaux, R.
Deposited on : 2018-03-12
Resolution : 1.82 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

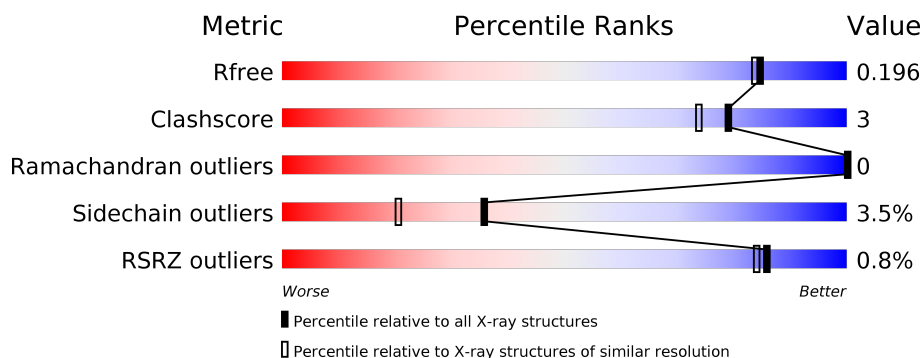
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.82 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	7484 (1.84-1.80)
Clashscore	141614	8401 (1.84-1.80)
Ramachandran outliers	138981	8290 (1.84-1.80)
Sidechain outliers	138945	8290 (1.84-1.80)
RSRZ outliers	127900	7371 (1.84-1.80)

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	260	<div> <div>%</div> <div> <div></div> <div>82%</div> <div>13%</div> <div>..</div> </div> </div>
1	B	260	<div> <div></div> <div>87%</div> <div>11%</div> <div>..</div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4499 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 Alpha-hydroxynitrile lyase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	O	S	0	6	0
			2105	1351	350	387	17			
1	B	258	Total	C	N	O	S	0	9	0
			2129	1364	353	395	17			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	CYS	TYR	engineered mutation	UNP Q9LFT6
A	122	LEU	TYR	engineered mutation	UNP Q9LFT6
A	126	PHE	PRO	engineered mutation	UNP Q9LFT6
A	129	TRP	LEU	engineered mutation	UNP Q9LFT6
A	132	THR	CYS	engineered mutation	UNP Q9LFT6
A	179	LEU	PHE	engineered mutation	UNP Q9LFT6
A	210	ILE	ALA	engineered mutation	UNP Q9LFT6
A	259	GLY	-	expression tag	UNP Q9LFT6
A	260	LEU	-	expression tag	UNP Q9LFT6
B	14	CYS	TYR	engineered mutation	UNP Q9LFT6
B	122	LEU	TYR	engineered mutation	UNP Q9LFT6
B	126	PHE	PRO	engineered mutation	UNP Q9LFT6
B	129	TRP	LEU	engineered mutation	UNP Q9LFT6
B	132	THR	CYS	engineered mutation	UNP Q9LFT6
B	179	LEU	PHE	engineered mutation	UNP Q9LFT6
B	210	ILE	ALA	engineered mutation	UNP Q9LFT6
B	259	GLY	-	expression tag	UNP Q9LFT6
B	260	LEU	-	expression tag	UNP Q9LFT6

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl) (labeled as "Ligand of Interest" by author).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	1	Total Cl 1 1	0	0
2	A	1	Total Cl 1 1	0	0

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0
3	B	1	Total C O 6 3 3	0	0


- Molecule 4 is water.

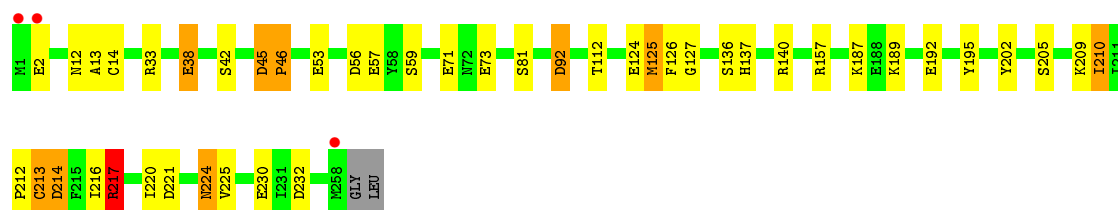
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	122	Total O 122 122	0	0
4	B	123	Total O 123 123	0	0

3 Residue-property plots [i](#)


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.

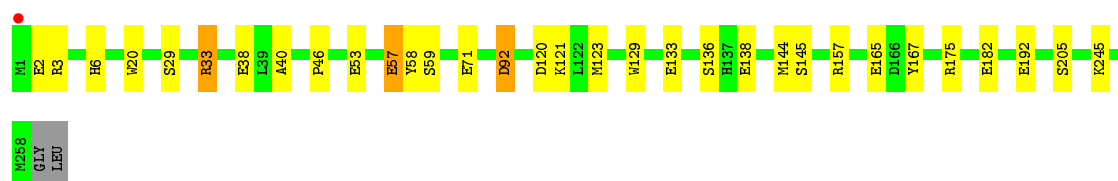
- Molecule 1: Alpha-hydroxynitrile lyase

Chain A: 



- Molecule 1: Alpha-hydroxynitrile lyase

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	49.98 Å 87.11 Å 123.36 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.82 43.35 – 1.82	Depositor EDS
% Data completeness (in resolution range)	99.7 (50.00-1.82) 99.7 (43.35-1.82)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.34 (at 1.82 Å)	Xtriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.152 , 0.187 0.164 , 0.196	Depositor DCC
R_{free} test set	2375 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	22.6	Xtriage
Anisotropy	0.058	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 40.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4499	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.55% 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: GOL, CL

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	1.46	15/2156 (0.7%)	1.27	15/2911 (0.5%)
1	B	1.49	20/2180 (0.9%)	1.28	14/2943 (0.5%)
All	All	1.48	35/4336 (0.8%)	1.27	29/5854 (0.5%)

All (35) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	38	GLU	CD-OE1	-9.97	1.14	1.25
1	B	205	SER	CB-OG	-9.78	1.29	1.42
1	A	192	GLU	CD-OE1	7.57	1.33	1.25
1	A	59	SER	CB-OG	-7.54	1.32	1.42
1	A	73	GLU	CD-OE1	7.31	1.33	1.25
1	B	29	SER	CB-OG	-7.19	1.32	1.42
1	A	136	SER	CB-OG	-7.02	1.33	1.42
1	B	192[A]	GLU	CD-OE1	6.99	1.33	1.25
1	B	192[B]	GLU	CD-OE1	6.99	1.33	1.25
1	B	167	TYR	CG-CD2	-6.47	1.30	1.39
1	A	45	ASP	CB-CG	6.42	1.65	1.51
1	B	192[A]	GLU	CG-CD	6.21	1.61	1.51
1	B	192[B]	GLU	CG-CD	6.21	1.61	1.51
1	B	59	SER	CB-OG	-6.15	1.34	1.42
1	B	182	GLU	CD-OE1	6.09	1.32	1.25
1	A	205	SER	CB-OG	-5.71	1.34	1.42
1	B	57[A]	GLU	CB-CG	5.60	1.62	1.52
1	B	57[B]	GLU	CB-CG	5.60	1.62	1.52
1	A	42	SER	CB-OG	5.53	1.49	1.42
1	A	127	GLY	N-CA	5.53	1.54	1.46
1	A	126	PHE	CG-CD1	5.48	1.47	1.38
1	A	124	GLU	CG-CD	5.46	1.60	1.51
1	B	53	GLU	CD-OE2	-5.41	1.19	1.25
1	A	46	PRO	CA-C	5.37	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	20	TRP	CG-CD1	-5.35	1.29	1.36
1	B	129	TRP	CE3-CZ3	-5.32	1.29	1.38
1	B	46	PRO	CA-C	5.28	1.63	1.52
1	A	195	TYR	CE2-CZ	-5.27	1.31	1.38
1	A	230	GLU	CD-OE1	-5.25	1.19	1.25
1	B	136	SER	CB-OG	-5.25	1.35	1.42
1	B	165	GLU	CD-OE2	5.18	1.31	1.25
1	B	138[A]	GLU	CD-OE2	5.18	1.31	1.25
1	B	138[B]	GLU	CD-OE2	5.18	1.31	1.25
1	B	133	GLU	CD-OE2	5.15	1.31	1.25
1	A	202	TYR	CG-CD2	-5.02	1.32	1.39

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	157	ARG	NE-CZ-NH1	11.54	126.07	120.30
1	B	33[A]	ARG	NE-CZ-NH1	8.74	124.67	120.30
1	B	33[B]	ARG	NE-CZ-NH1	8.74	124.67	120.30
1	B	175	ARG	NE-CZ-NH2	-7.72	116.44	120.30
1	A	157	ARG	CG-CD-NE	-7.61	95.83	111.80
1	B	144	MET	CG-SD-CE	-7.58	88.08	100.20
1	B	157	ARG	NE-CZ-NH2	-7.29	116.66	120.30
1	A	33[A]	ARG	NE-CZ-NH1	-6.96	116.82	120.30
1	A	33[B]	ARG	NE-CZ-NH1	-6.96	116.82	120.30
1	B	33[A]	ARG	NE-CZ-NH2	-6.88	116.86	120.30
1	B	33[B]	ARG	NE-CZ-NH2	-6.88	116.86	120.30
1	A	136	SER	CB-CA-C	-6.82	97.14	110.10
1	B	92	ASP	CB-CG-OD1	6.49	124.14	118.30
1	A	56	ASP	CB-CG-OD1	6.32	123.99	118.30
1	B	245	LYS	CD-CE-NZ	-6.28	97.26	111.70
1	A	125	MET	CA-CB-CG	5.95	123.42	113.30
1	B	120	ASP	CB-CG-OD2	5.77	123.49	118.30
1	B	136	SER	CB-CA-C	-5.71	99.26	110.10
1	A	232	ASP	CB-CG-OD1	5.68	123.41	118.30
1	A	140	ARG	NE-CZ-NH2	5.66	123.13	120.30
1	A	33[A]	ARG	NE-CZ-NH2	5.62	123.11	120.30
1	A	33[B]	ARG	NE-CZ-NH2	5.62	123.11	120.30
1	B	123	MET	CG-SD-CE	5.50	109.01	100.20
1	A	217	ARG	NE-CZ-NH1	5.49	123.05	120.30
1	B	92	ASP	CB-CG-OD2	-5.46	113.39	118.30
1	A	92	ASP	CB-CG-OD1	5.34	123.11	118.30
1	A	217	ARG	CG-CD-NE	5.11	122.54	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	213[A]	CYS	CB-CA-C	5.09	120.58	110.40
1	A	213[B]	CYS	CB-CA-C	5.09	120.58	110.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	2105	0	2088	16	0
1	B	2129	0	2102	8	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	6	0	8	0	0
3	B	12	0	16	0	0
4	A	122	0	0	3	1
4	B	123	0	0	2	0
All	All	4499	0	4214	24	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 3.

All (24) 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:33[B]:ARG:CG	1:B:33[B]:ARG:HH21	1.58	1.12
1:B:33[B]:ARG:NH2	1:B:33[B]:ARG:HG3	1.39	1.04
1:B:33[B]:ARG:HG3	1:B:33[B]:ARG:HH21	0.73	0.88
1:B:57[B]:GLU:OE1	4:B:401:HOH:O	2.02	0.75
1:A:137:HIS:HE1	4:A:506:HOH:O	1.70	0.73
1:A:209:LYS:NZ	4:A:401:HOH:O	2.23	0.70
1:B:33[B]:ARG:NH2	1:B:33[B]:ARG:CG	2.27	0.70
1:A:53:GLU:N	1:A:57[B]:GLU:OE1	2.32	0.62
1:A:137:HIS:CE1	4:A:506:HOH:O	2.50	0.62
1:A:213[B]:CYS:SG	1:A:214:ASP:N	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:THR:O	1:A:189:LYS:HE3	2.06	0.56
1:B:6:HIS:CD2	1:B:33[B]:ARG:HD2	2.42	0.55
1:A:210:ILE:O	1:A:212:PRO:HD3	2.11	0.51
1:B:145:SER:HB3	4:B:470:HOH:O	2.13	0.49
1:A:224:ASN:HD22	1:A:225:VAL:H	1.62	0.48
1:A:216:ILE:HG22	1:A:220:ILE:HD12	1.95	0.48
1:A:216:ILE:CG2	1:A:220:ILE:HD12	2.47	0.45
1:A:13:ALA:O	1:A:14:CYS:HB2	2.15	0.45
1:A:45:ASP:CG	1:A:46:PRO:HD2	2.38	0.44
1:A:12:ASN:HB3	1:A:81:SER:HB3	1.99	0.44
1:A:45:ASP:HA	1:A:46:PRO:HD3	1.86	0.42
1:A:187:LYS:HB2	1:A:187:LYS:HE2	1.91	0.41
1:A:217:ARG:HA	1:A:217:ARG:HD3	1.85	0.41
1:B:40:ALA:HB3	1:B:58:TYR:HA	2.02	0.41

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:506:HOH:O	4:A:514:HOH:O[4_555]	2.13	0.07

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	262/260 (101%)	256 (98%)	6 (2%)	0	100	100
1	B	265/260 (102%)	261 (98%)	4 (2%)	0	100	100
All	All	527/520 (101%)	517 (98%)	10 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	232/227 (102%)	222 (96%)	10 (4%)	29	14
1	B	235/227 (104%)	229 (97%)	6 (3%)	46	32
All	All	467/454 (103%)	451 (97%)	16 (3%)	36	22

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	GLU
1	A	38	GLU
1	A	71	GLU
1	A	92	ASP
1	A	125	MET
1	A	210	ILE
1	A	214	ASP
1	A	217	ARG
1	A	221	ASP
1	A	224	ASN
1	B	2	GLU
1	B	3	ARG
1	B	38	GLU
1	B	71	GLU
1	B	92	ASP
1	B	121	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	HIS
1	A	137	HIS
1	A	224	ASN
1	B	5	HIS
1	B	224	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 5 ligands modelled in this entry, 2 are monoatomic - leaving 3 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	$\# Z > 2$
3	GOL	B	302	-	5,5,5	0.50	0	5,5,5	0.71	0
3	GOL	A	302	-	5,5,5	0.80	0	5,5,5	1.33	0
3	GOL	B	303	-	5,5,5	0.84	0	5,5,5	0.88	0

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
3	GOL	B	302	-	-	0/4/4/4	-
3	GOL	A	302	-	-	2/4/4/4	-
3	GOL	B	303	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	303	GOL	O1-C1-C2-C3
3	B	303	GOL	C1-C2-C3-O3
3	A	302	GOL	O1-C1-C2-C3
3	B	303	GOL	O1-C1-C2-O2
3	A	302	GOL	O1-C1-C2-O2
3	B	303	GOL	O2-C2-C3-O3

There are no ring outliers.

No monomer is involved in short contacts.

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	258/260 (99%)	-0.35	3 (1%) 79 76	14, 26, 48, 77	0
1	B	258/260 (99%)	-0.37	1 (0%) 92 91	13, 23, 45, 86	0
All	All	516/520 (99%)	-0.36	4 (0%) 86 84	13, 24, 46, 86	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1	MET	4.4
1	B	1	MET	4.3
1	A	258	MET	2.3
1	A	2	GLU	2.3

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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.

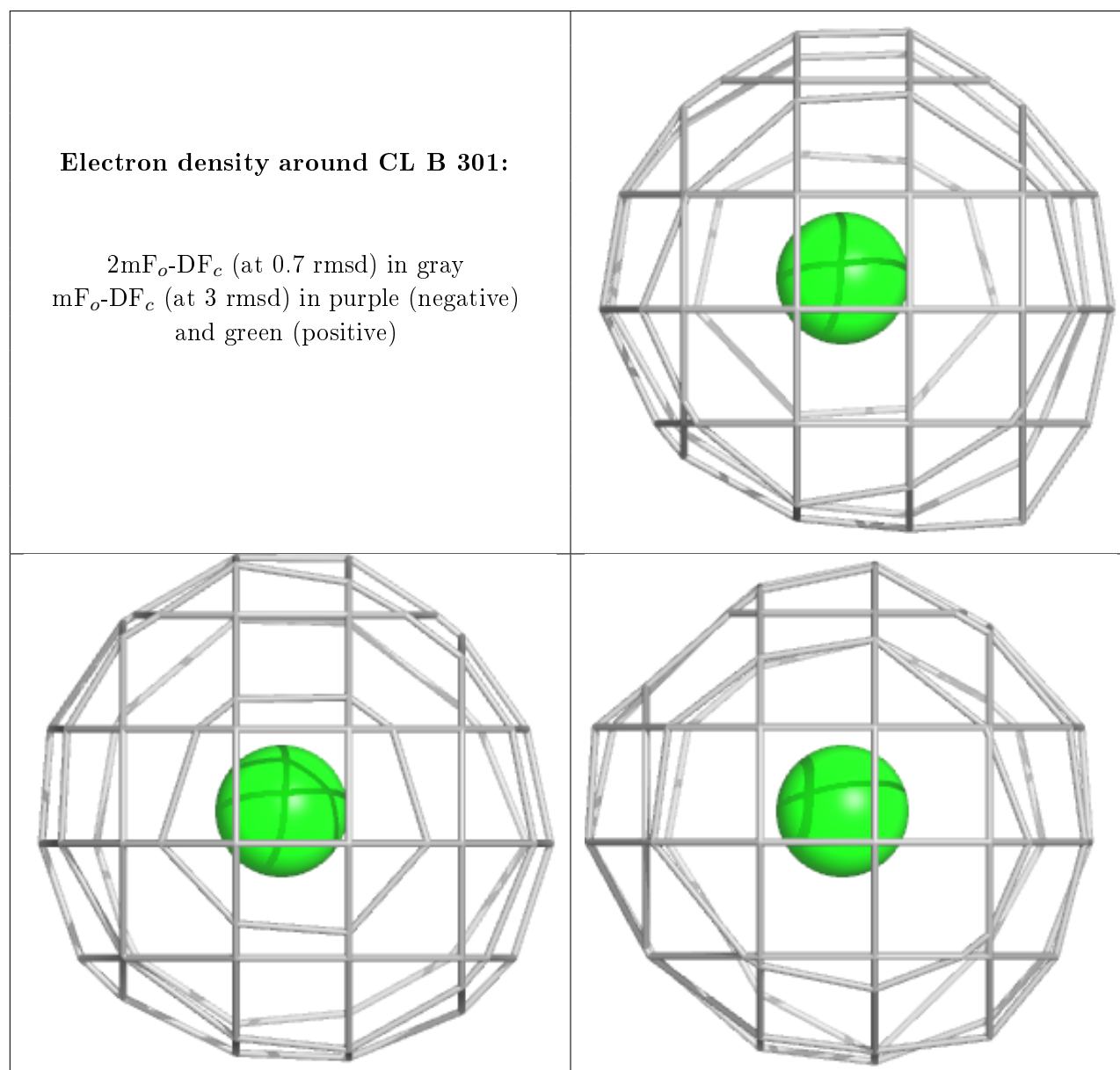
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	GOL	B	303	6/6	0.76	0.18	57,60,63,64	0

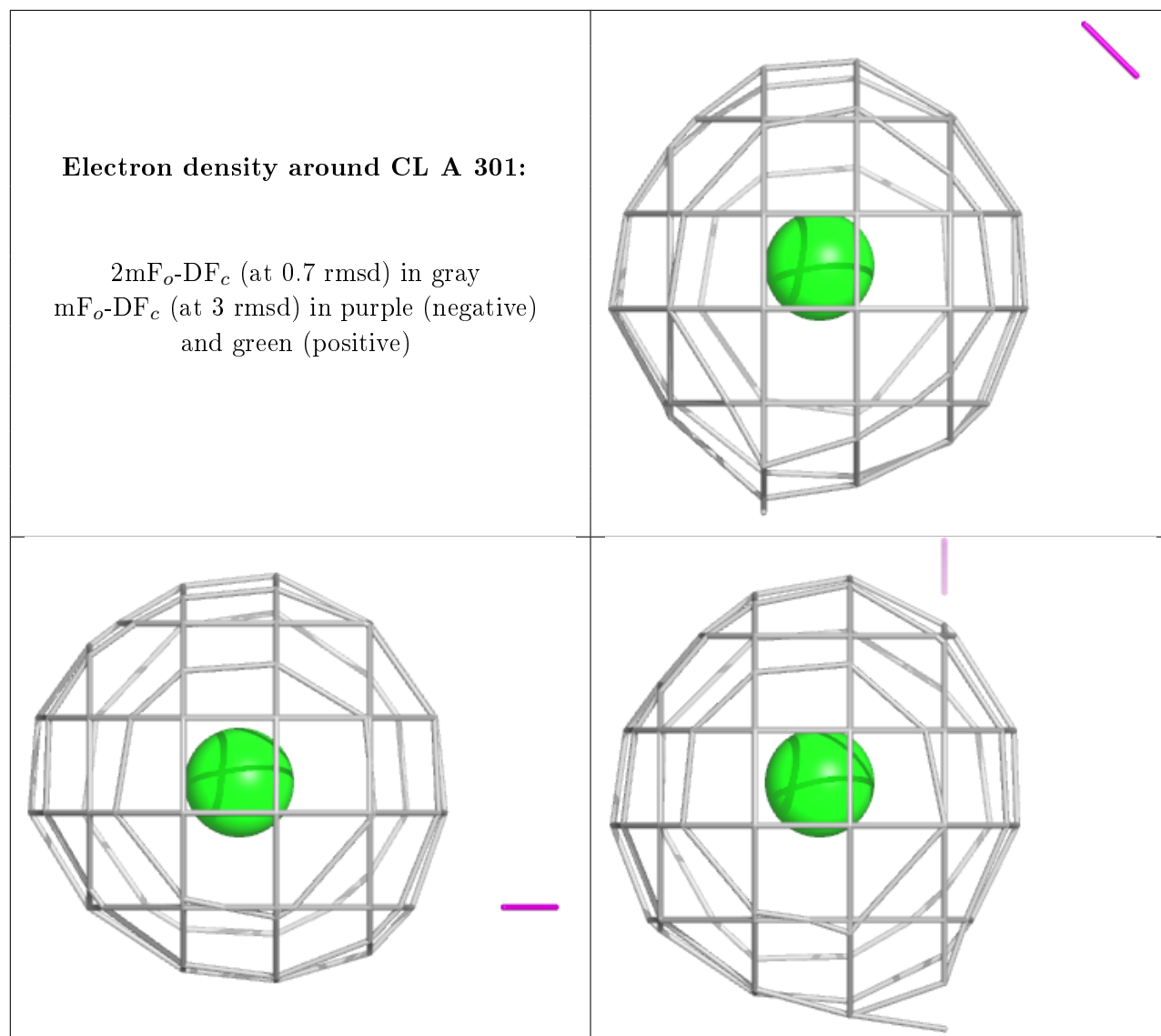
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	GOL	A	302	6/6	0.90	0.17	32,42,44,48	0
3	GOL	B	302	6/6	0.93	0.14	26,39,40,44	0
2	CL	B	301	1/1	0.99	0.05	24,24,24,24	0
2	CL	A	301	1/1	1.00	0.04	25,25,25,25	0

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.