wwPDB X-ray Structure Validation Summary Report (i)

Oct 19, 2026 – 03:28 PM JST

PDB ID	:	9X6U / pdb_00009x6u
Title	:	The apo structure of ScYmI
Authors	:	Wu, L.; Tang, G.L.
Deposited on	:	2025-10-15
Resolution	:	2.01 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 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:

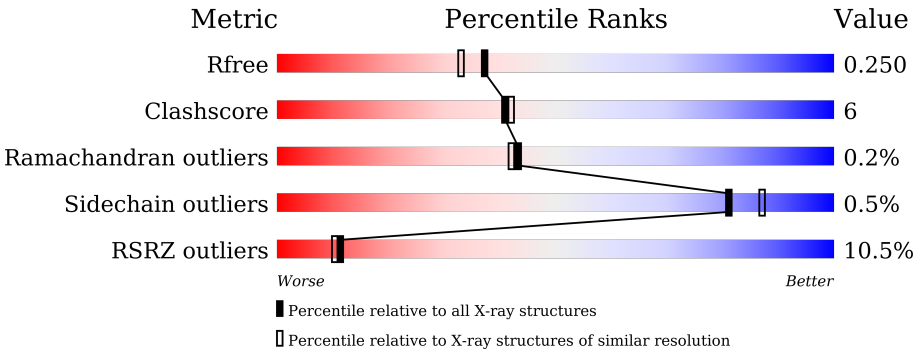
MolProbity	:	4-5-2 with Phenix2.2
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	2.2
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

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 2.01 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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	332	9% 77% 12% 11%
1	B	332	11% 75% 14% 11%
1	C	332	6% 83% 7% 10%
1	D	332	12% 79% 10% 11%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 9496 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 JmjC domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	297	Total	C	N	O	S	0	1	0
			2281	1433	427	416	5			
1	B	297	Total	C	N	O	S	0	0	0
			2273	1428	424	416	5			
1	C	298	Total	C	N	O	S	0	0	0
			2277	1430	425	417	5			
1	D	297	Total	C	N	O	S	0	0	0
			2273	1428	424	416	5			

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	323	LEU	-	expression tag	UNP A0A124H2G9
A	324	GLU	-	expression tag	UNP A0A124H2G9
A	325	HIS	-	expression tag	UNP A0A124H2G9
A	326	HIS	-	expression tag	UNP A0A124H2G9
A	327	HIS	-	expression tag	UNP A0A124H2G9
A	328	HIS	-	expression tag	UNP A0A124H2G9
A	329	HIS	-	expression tag	UNP A0A124H2G9
A	330	HIS	-	expression tag	UNP A0A124H2G9
A	331	HIS	-	expression tag	UNP A0A124H2G9
A	332	HIS	-	expression tag	UNP A0A124H2G9
B	323	LEU	-	expression tag	UNP A0A124H2G9
B	324	GLU	-	expression tag	UNP A0A124H2G9
B	325	HIS	-	expression tag	UNP A0A124H2G9
B	326	HIS	-	expression tag	UNP A0A124H2G9
B	327	HIS	-	expression tag	UNP A0A124H2G9
B	328	HIS	-	expression tag	UNP A0A124H2G9
B	329	HIS	-	expression tag	UNP A0A124H2G9
B	330	HIS	-	expression tag	UNP A0A124H2G9
B	331	HIS	-	expression tag	UNP A0A124H2G9
B	332	HIS	-	expression tag	UNP A0A124H2G9
C	323	LEU	-	expression tag	UNP A0A124H2G9

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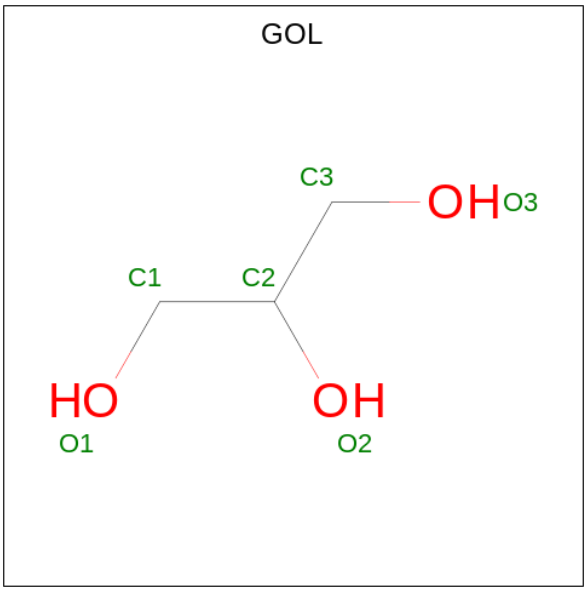
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Chain	Residue	Modelled	Actual	Comment	Reference
C	324	GLU	-	expression tag	UNP A0A124H2G9
C	325	HIS	-	expression tag	UNP A0A124H2G9
C	326	HIS	-	expression tag	UNP A0A124H2G9
C	327	HIS	-	expression tag	UNP A0A124H2G9
C	328	HIS	-	expression tag	UNP A0A124H2G9
C	329	HIS	-	expression tag	UNP A0A124H2G9
C	330	HIS	-	expression tag	UNP A0A124H2G9
C	331	HIS	-	expression tag	UNP A0A124H2G9
C	332	HIS	-	expression tag	UNP A0A124H2G9
D	323	LEU	-	expression tag	UNP A0A124H2G9
D	324	GLU	-	expression tag	UNP A0A124H2G9
D	325	HIS	-	expression tag	UNP A0A124H2G9
D	326	HIS	-	expression tag	UNP A0A124H2G9
D	327	HIS	-	expression tag	UNP A0A124H2G9
D	328	HIS	-	expression tag	UNP A0A124H2G9
D	329	HIS	-	expression tag	UNP A0A124H2G9
D	330	HIS	-	expression tag	UNP A0A124H2G9
D	331	HIS	-	expression tag	UNP A0A124H2G9
D	332	HIS	-	expression tag	UNP A0A124H2G9

- Molecule 2 is FE (II) ION (CCD ID: FE2) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Fe 1 1	0	0
2	B	1	Total Fe 1 1	0	0
2	C	1	Total Fe 1 1	0	0
2	D	1	Total Fe 1 1	0	0

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$) (labeled as "Ligand of Interest" by depositor).



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

- Molecule 4 is water.

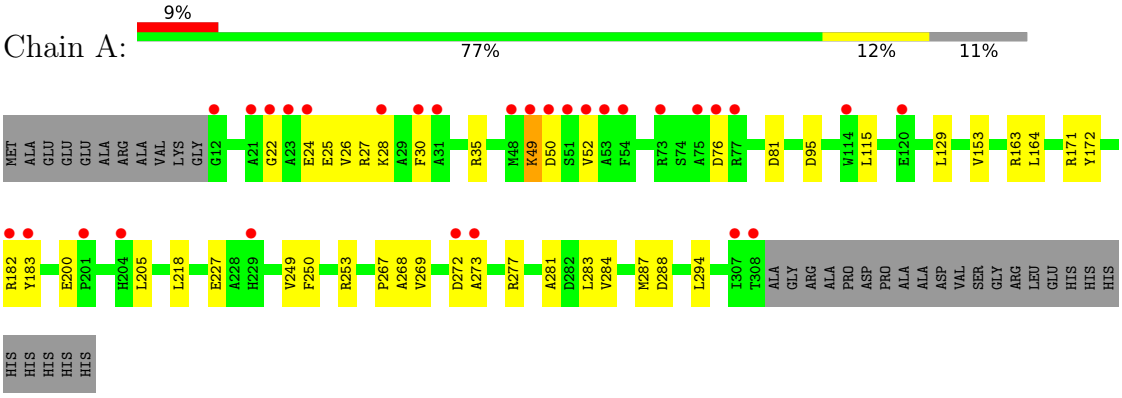
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	116	Total O 116 116	0	0
4	B	92	Total O 92 92	0	0
4	C	101	Total O 101 101	0	0
4	D	67	Total O 67 67	0	0

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.

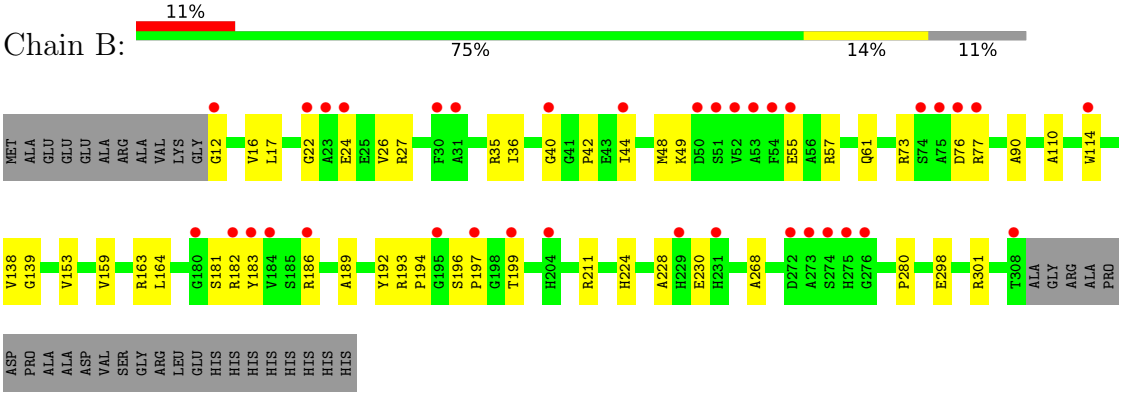
• Molecule 1: JmjC domain-containing protein

Chain A:



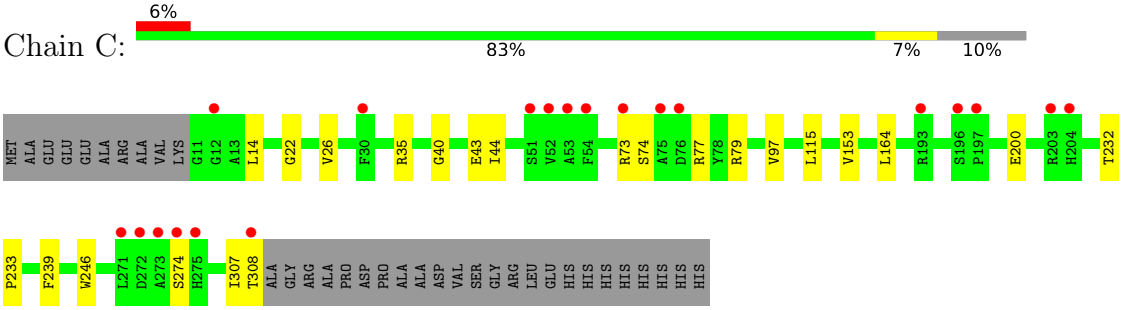
• Molecule 1: JmjC domain-containing protein

Chain B:



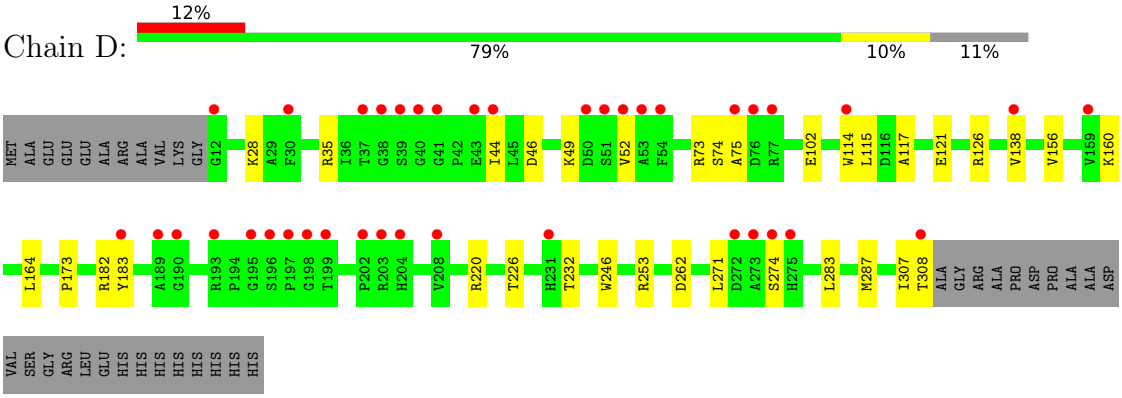
• Molecule 1: JmjC domain-containing protein

Chain C:



• Molecule 1: JmjC domain-containing protein

Chain D:


12%
79%
10%
11%
MET ALA GLU GLU GLU ALA ARG ALA VAL LYS GLY G12 K28 A29 F30 R35 I36 T37 G38 S39 G40 G41 P42 E43 I44 L45 D46 K49 D50 S51 V52 A53 F54 R73 S74 A75 D76 R77 E102 W114 L115 D116 A117 E121 R126 V138 V156 V159 K160
L164 P173 R182 Y183 A189 G190 R193 P194 G195 S196 P197 G198 T199 P202 R203 H204 V208 R220 T226 H231 T232 W246 R253 D262 L271 D272 A273 S274 H275 L283 M287 I307 T308 ALA GLY ARG ALA PRO ASP PRO ALA ALA ASP
VAL SER GLY ARG LEU GLU HIS HIS HIS HIS HIS HIS HIS HIS

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	75.06Å 81.03Å 225.57Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	62.48 – 2.01 62.48 – 2.01	Depositor EDS
% Data completeness (in resolution range)	78.0 (62.48-2.01) 78.0 (62.48-2.01)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.49 (at 2.02Å)	Xtriage
Refinement program	BUSTER, PHENIX 1.11.1_2575	Depositor
R, R_{free}	0.202 , 0.242 0.212 , 0.250	Depositor DCC
R_{free} test set	3479 reflections (3.75%)	wwPDB-VP
Wilson B-factor (Å^2)	34.1	Xtriage
Anisotropy	0.048	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 35.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	9496	wwPDB-VP
Average B, all atoms (Å^2)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.83% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical 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.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, FE2

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	0.41	1/2341 (0.0%)	0.61	0/3179
1	B	0.37	0/2330	0.62	2/3165 (0.1%)
1	C	0.40	0/2334	0.60	0/3170
1	D	0.37	0/2330	0.56	0/3165
All	All	0.39	1/9335 (0.0%)	0.60	2/12679 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	172	TYR	C-O	5.22	1.26	1.23

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	181	SER	CA-C-N	8.01	131.52	120.63
1	B	181	SER	C-N-CA	8.01	131.52	120.63

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	2281	0	2232	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	2273	0	2219	39	0
1	C	2277	0	2222	16	0
1	D	2273	0	2219	44	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	6	0	8	0	0
3	D	6	0	8	1	0
4	A	116	0	0	0	0
4	B	92	0	0	3	0
4	C	101	0	0	0	0
4	D	67	0	0	1	0
All	All	9496	0	8908	117	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.

The worst 5 of 117 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:D:115:LEU:HD23	1:D:126:ARG:NH2	1.72	1.05
1:B:194:PRO:HA	1:B:199:THR:HG21	1.46	0.97
1:B:298:GLU:OE2	1:B:301:ARG:HD2	1.72	0.90
1:A:35:ARG:HD2	1:A:164:LEU:HD13	1.72	0.72
1:A:28:LYS:HD3	1:D:271:LEU:HD21	1.70	0.72

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	Percentiles
1	A	296/332 (89%)	286 (97%)	9 (3%)	1 (0%)	36 35
1	B	295/332 (89%)	283 (96%)	12 (4%)	0	100 100
1	C	296/332 (89%)	288 (97%)	7 (2%)	1 (0%)	36 35
1	D	295/332 (89%)	280 (95%)	15 (5%)	0	100 100
All	All	1182/1328 (89%)	1137 (96%)	43 (4%)	2 (0%)	43 42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	49	LYS
1	C	200	GLU

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	231/255 (91%)	230 (100%)	1 (0%)	84 89
1	B	230/255 (90%)	228 (99%)	2 (1%)	70 78
1	C	230/255 (90%)	228 (99%)	2 (1%)	70 78
1	D	230/255 (90%)	230 (100%)	0	100 100
All	All	921/1020 (90%)	916 (100%)	5 (0%)	81 87

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	153	VAL
1	B	138	VAL
1	B	153	VAL
1	C	79	ARG
1	C	153	VAL

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	224	HIS
1	A	275	HIS
1	B	224	HIS
1	C	231	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 6 ligands modelled in this entry, 4 are monoatomic - leaving 2 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	D	402	-	5,5,5	0.49	0	5,5,5	1.19	0
3	GOL	A	402	-	5,5,5	0.47	0	5,5,5	1.07	1 (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
3	GOL	D	402	-	-	3/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	A	402	-	-	2/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	402	GOL	C3-C2-C1	-2.11	103.49	111.70

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	402	GOL	O1-C1-C2-C3
3	A	402	GOL	O1-C1-C2-C3
3	D	402	GOL	C1-C2-C3-O3
3	D	402	GOL	O1-C1-C2-O2
3	A	402	GOL	O1-C1-C2-O2

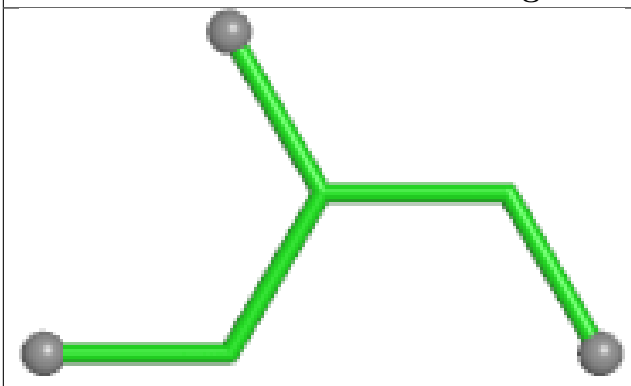
There are no ring outliers.

1 monomer is involved in 1 short contact:

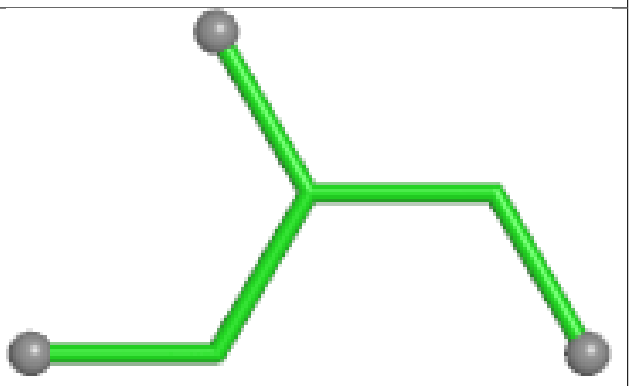
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	402	GOL	1	0

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.

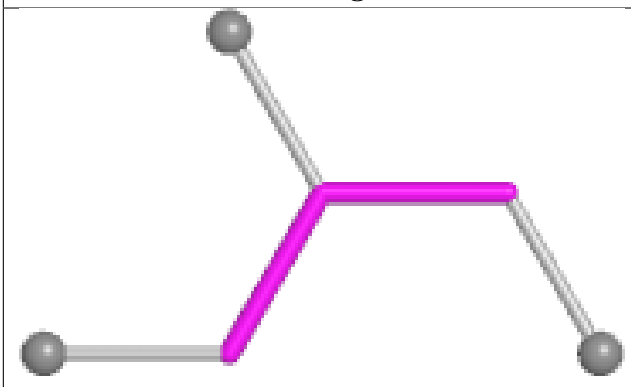
Ligand GOL D 402



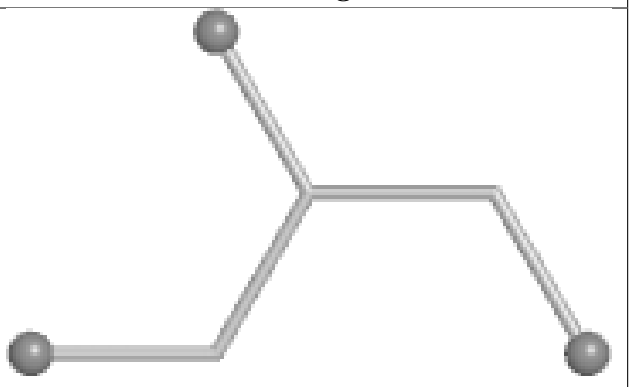
Bond lengths



Bond angles

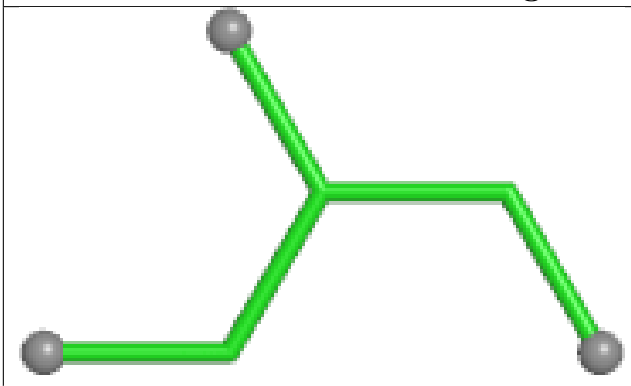


Torsions

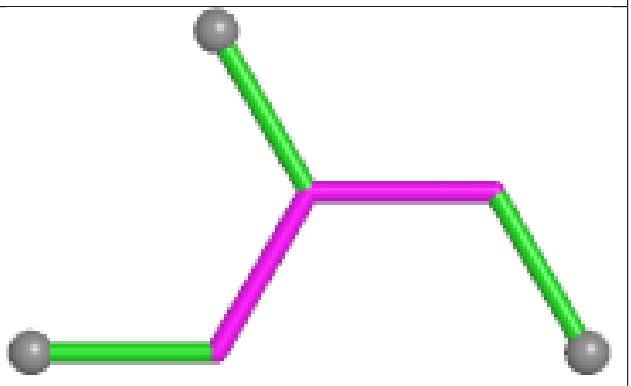


Rings

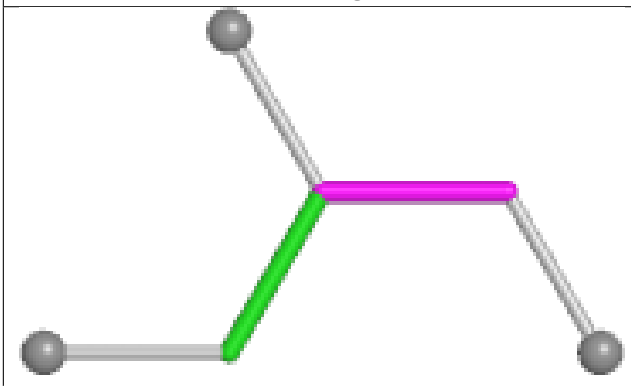
Ligand GOL A 402



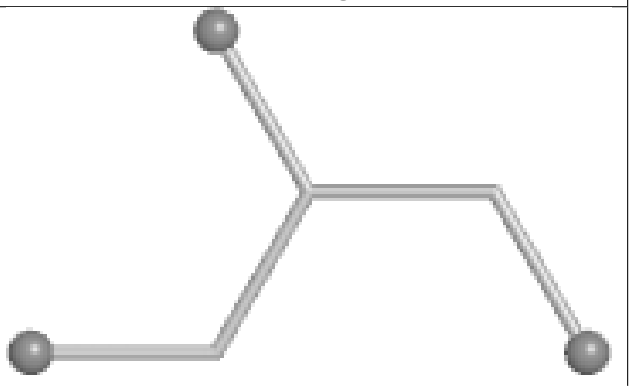
Bond lengths



Bond angles



Torsions



Rings

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, 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	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	297/332 (89%)	0.20	30 (10%) 12 11	16, 32, 72, 117	1 (0%)
1	B	297/332 (89%)	0.42	36 (12%) 8 8	19, 33, 83, 123	0
1	C	298/332 (89%)	0.17	20 (6%) 24 22	19, 32, 70, 91	0
1	D	297/332 (89%)	0.67	39 (13%) 7 6	23, 43, 81, 100	0
All	All	1189/1328 (89%)	0.36	125 (10%) 11 10	16, 35, 76, 123	1 (0%)

The worst 5 of 125 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	275	HIS	6.5
1	B	229	HIS	5.6
1	B	75	ALA	5.5
1	A	52	VAL	5.1
1	B	30	PHE	5.1

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 oligosaccharides in this entry.

6.4 Ligands

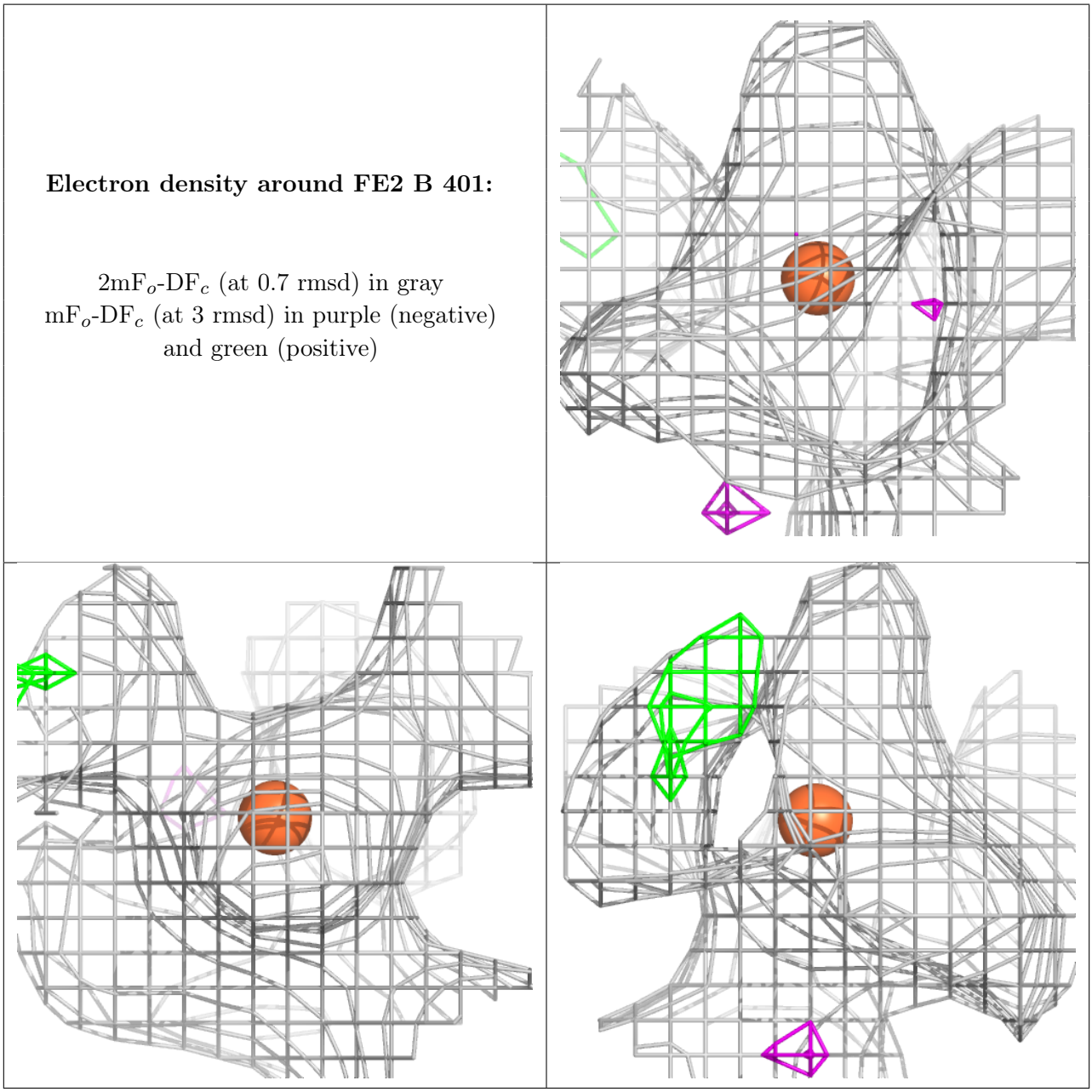
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	FE2	B	401	1/1	0.82	0.13	106,106,106,106	0
3	GOL	D	402	6/6	0.87	0.12	43,44,51,59	0
2	FE2	D	401	1/1	0.91	0.10	92,92,92,92	0
2	FE2	A	401	1/1	0.91	0.12	97,97,97,97	0
3	GOL	A	402	6/6	0.94	0.09	40,45,48,49	0
2	FE2	C	401	1/1	0.96	0.09	56,56,56,56	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.

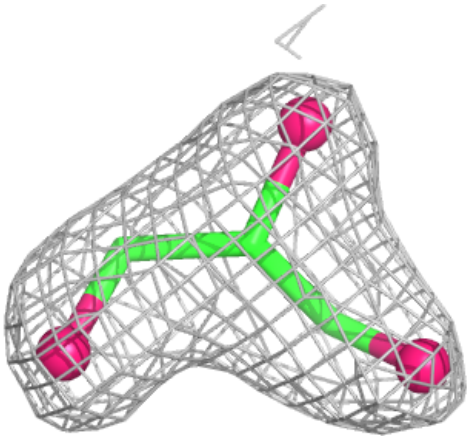
Electron density around FE2 B 401:

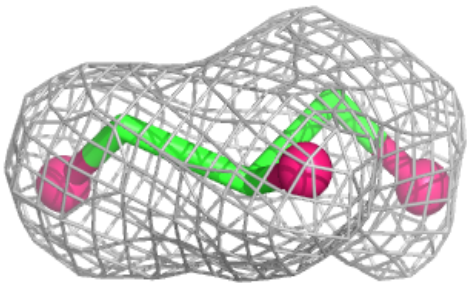
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

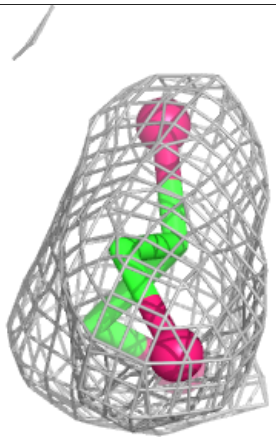


Electron density around GOL D 402:

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

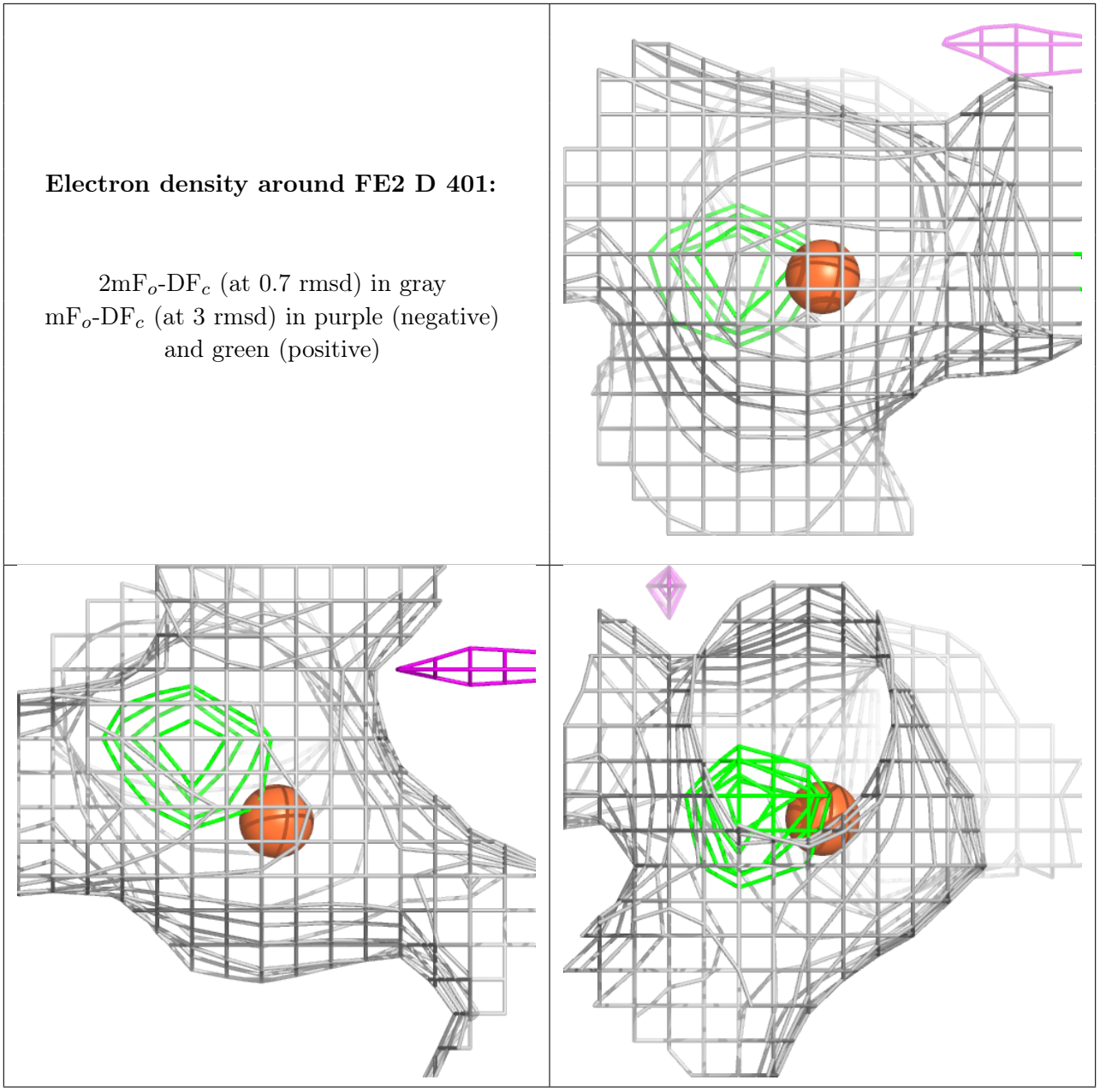






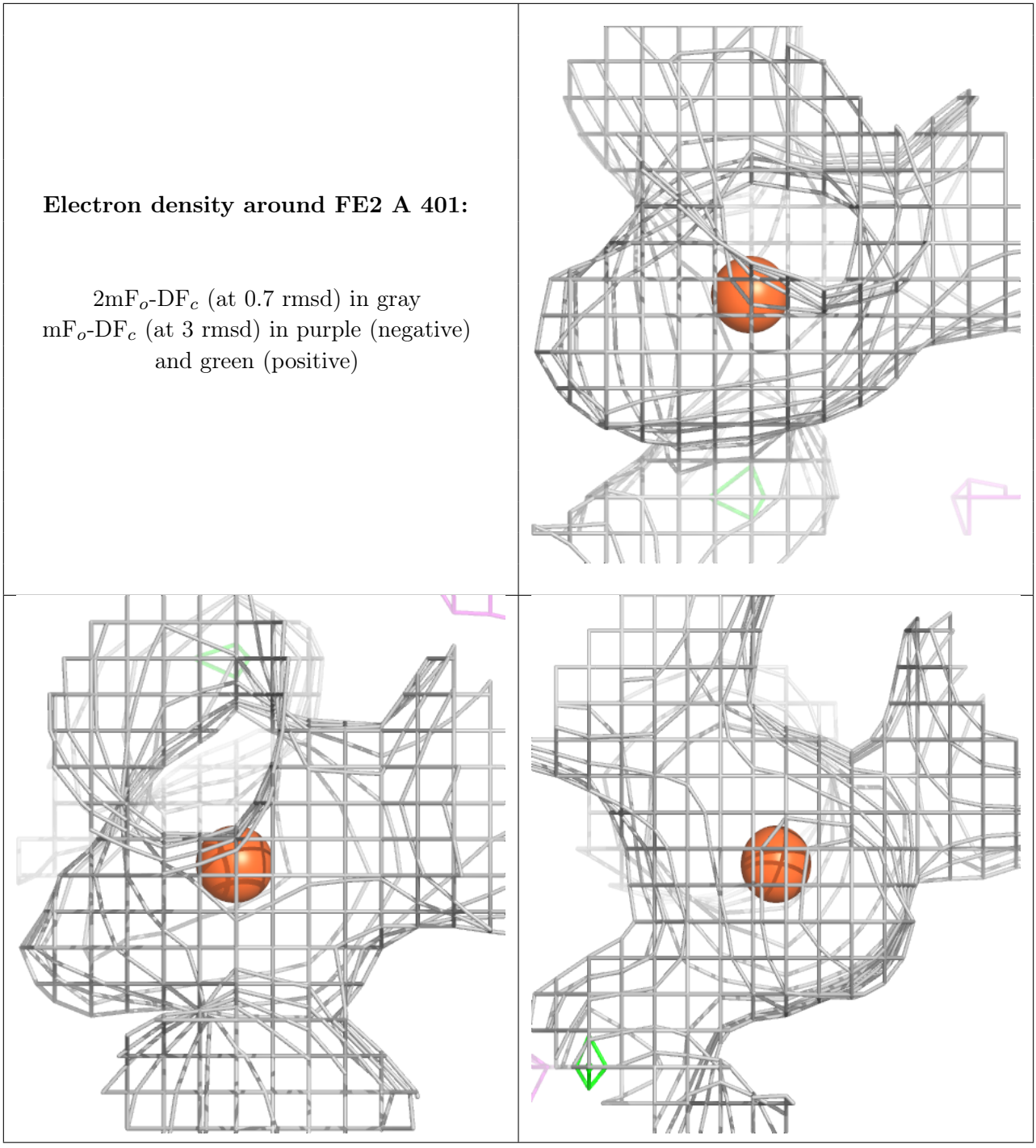
Electron density around FE2 D 401:

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



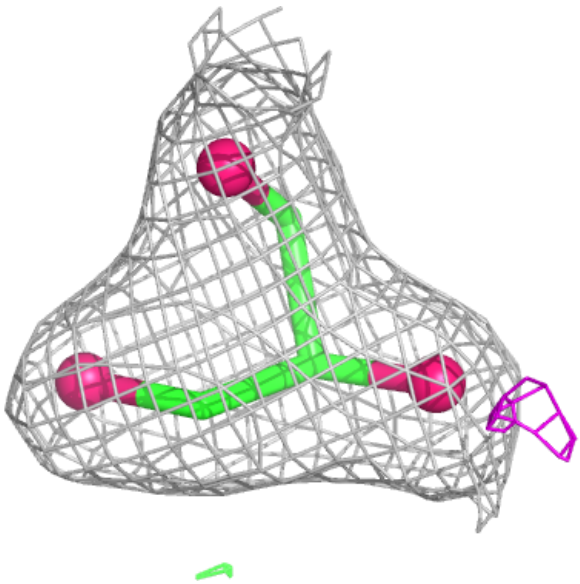
Electron density around FE2 A 401:

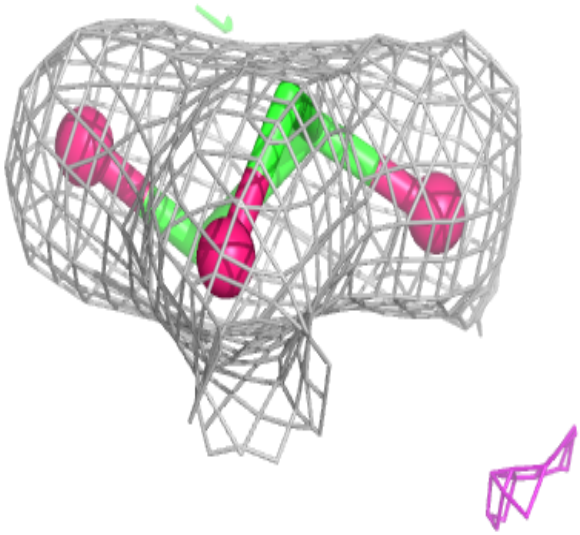
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

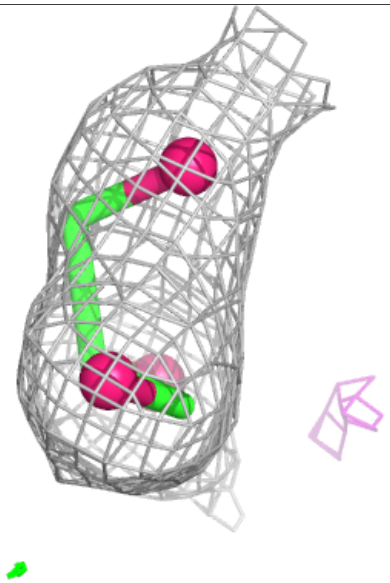


Electron density around GOL A 402:

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

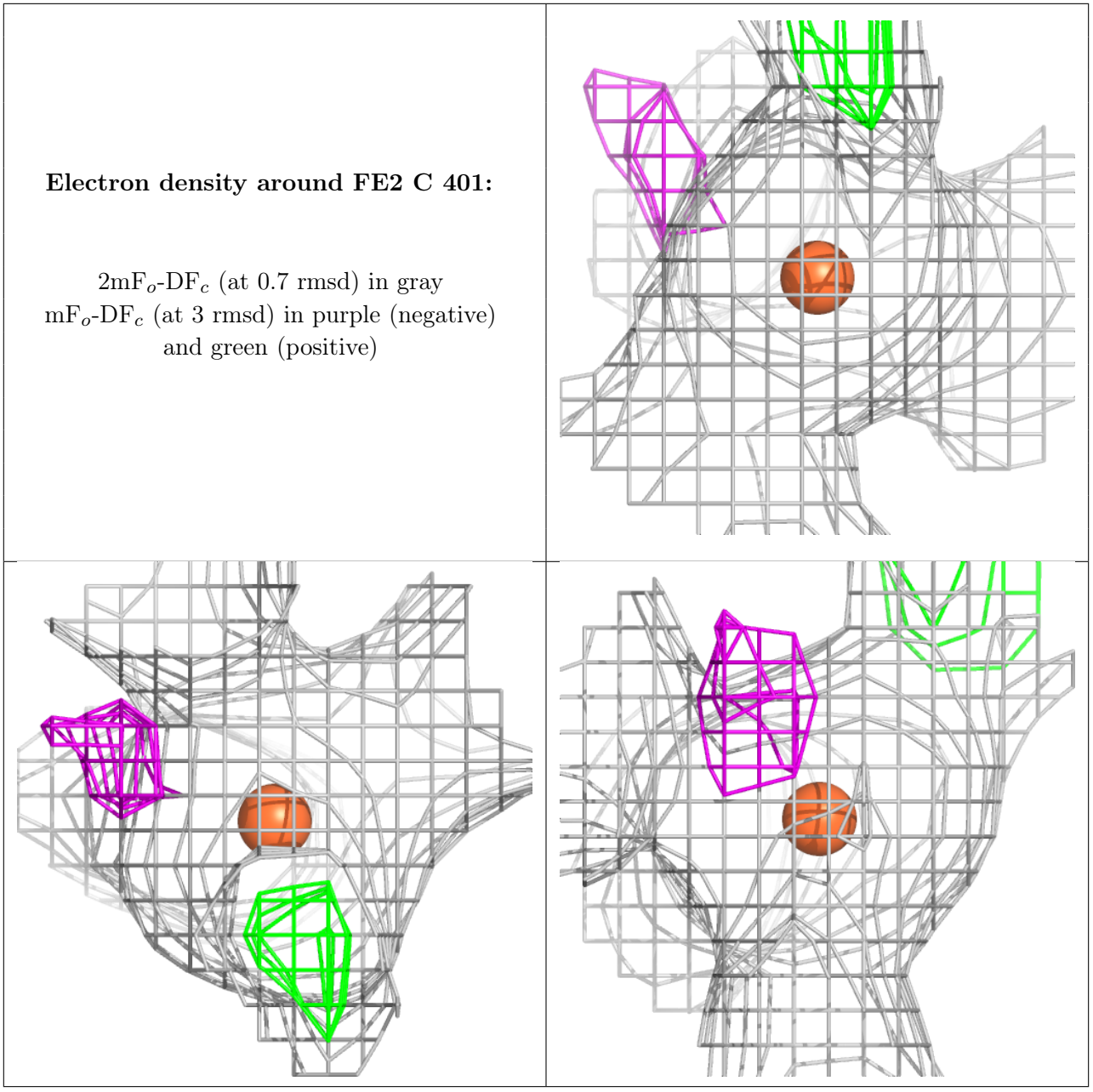






Electron density around FE2 C 401:

$2mF_o$-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

There are no such residues in this entry.