Full wwPDB X-ray Structure Validation Report ⓘ

Oct 10, 2023 – 12:32 AM EDT

PDB ID	:	7M2I
Title	:	Structural Snapshots of Intermediates in the Gating of a K+ Channel
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Deposited on	:	2021-03-16
Resolution	:	2.69 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 types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

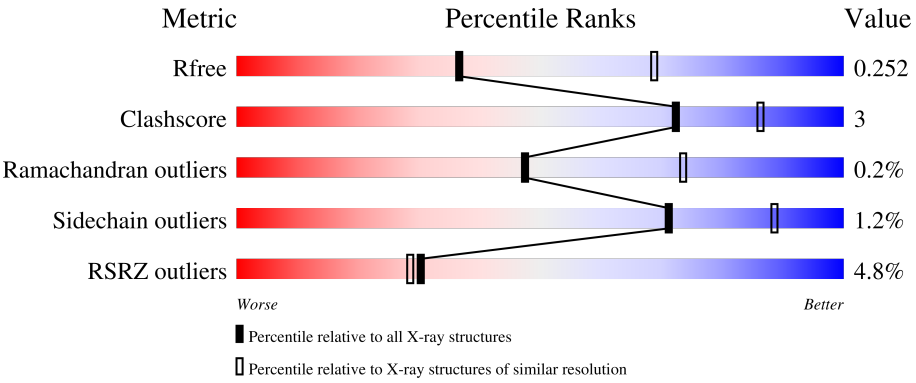
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 2.69 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	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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	219	4% 88% 12%
2	B	212	7% 91% 8%
3	C	96	% 94% 6%

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
5	1EM	C	201	-	-	-	X

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4009 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 Monoclonal antibody (IgG) against KcsA, Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	219	Total	C	N	O	S	0	0	0
			1622	1028	271	317	6			

- Molecule 2 is a protein called Monoclonal antibody (IgG) against KcsA, Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	211	Total	C	N	O	S	0	0	0
			1628	1012	280	331	5			

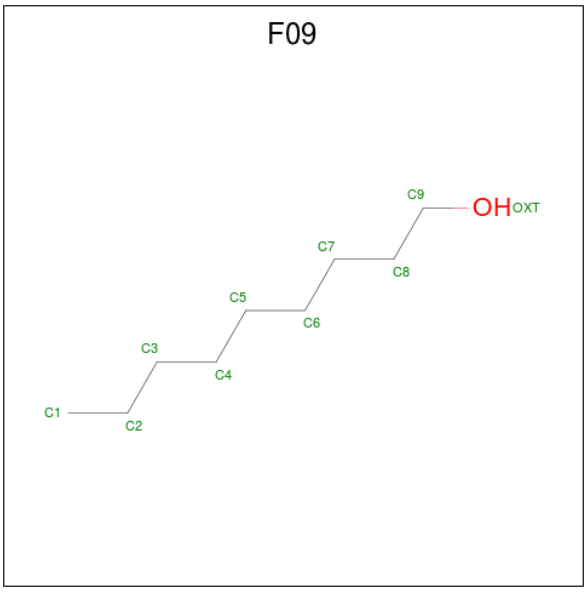
- Molecule 3 is a protein called pH-gated potassium channel KcsA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	96	Total	C	N	O	S	0	0	0
			688	455	110	120	3			

There are 7 discrepancies between the modelled and reference sequences:

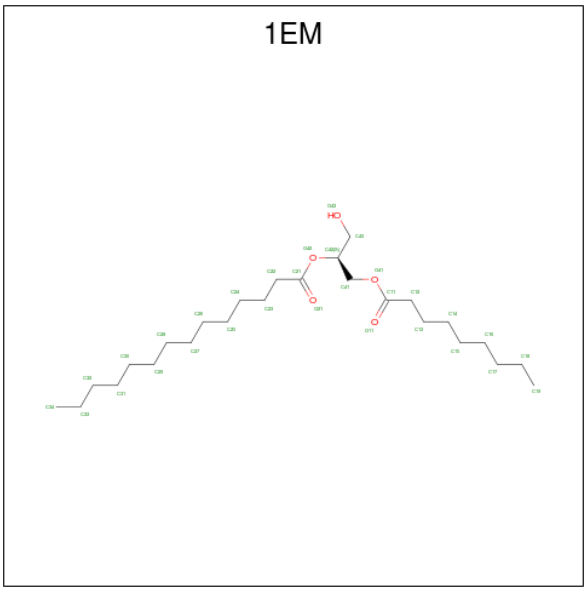
Chain	Residue	Modelled	Actual	Comment	Reference
C	28	CYS	ALA	conflict	UNP P0A334
C	67	PHE	TRP	conflict	UNP P0A334
C	117	GLN	-	expression tag	UNP P0A334
C	118	CYS	-	expression tag	UNP P0A334
C	119	GLN	-	expression tag	UNP P0A334
C	120	GLN	-	expression tag	UNP P0A334
C	121	GLN	-	expression tag	UNP P0A334

- Molecule 4 is NONAN-1-OL (three-letter code: F09) (formula: $C_9H_{20}O$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 10 9 1	0	0

- Molecule 5 is (1S)-2-HYDROXY-1-[(NONANOYLOXY)METHYL]ETHYL MYRISTATE (three-letter code: 1EM) (formula: $C_{26}H_{50}O_5$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	C	1	Total C O 31 26 5	0	0

- Molecule 6 is POTASSIUM ION (three-letter code: K) (formula: K) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	6	Total K 6 6	0	0

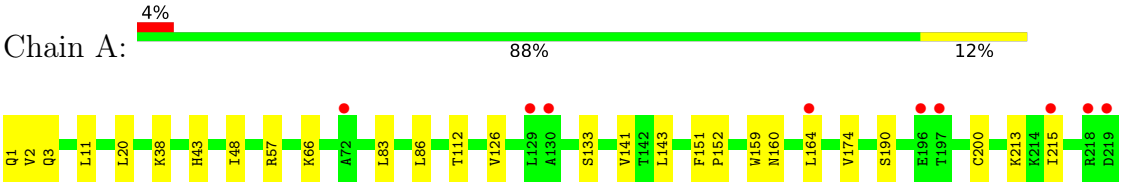
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	12	Total O 12 12	0	0
7	B	8	Total O 8 8	0	0
7	C	4	Total O 4 4	0	0

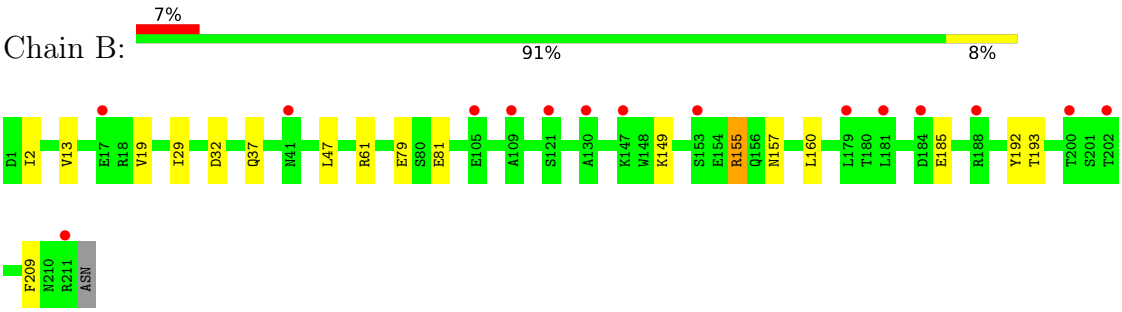
3 Residue-property plots (i)

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.

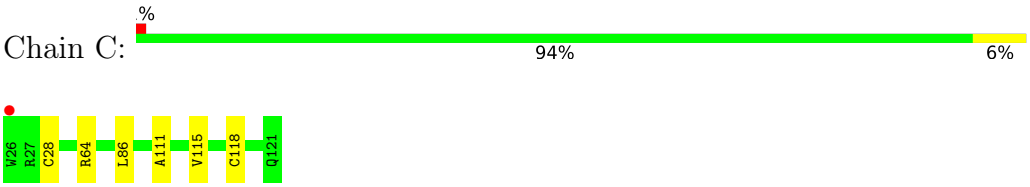
• Molecule 1: Monoclonal antibody (IgG) against KcsA, Fab heavy chain



• Molecule 2: Monoclonal antibody (IgG) against KcsA, Fab light chain



• Molecule 3: pH-gated potassium channel KcsA



4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, α, β, γ	155.25Å 155.25Å 74.42Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.81 – 2.69 38.81 – 2.70	Depositor EDS
% Data completeness (in resolution range)	98.8 (38.81-2.69) 98.9 (38.81-2.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.06 (at 2.69Å)	Xtriage
Refinement program	PHENIX 1.15.2_3472	Depositor
R, R_{free}	0.228 , 0.251 0.229 , 0.252	Depositor DCC
R_{free} test set	2456 reflections (10.09%)	wwPDB-VP
Wilson B-factor (Å^2)	64.8	Xtriage
Anisotropy	0.118	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 66.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.025 for -k,-h,-l	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	4009	wwPDB-VP
Average B, all atoms (Å^2)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.22% 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: K, F09, 1EM

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	0.26	0/1666	0.47	0/2284
2	B	0.24	0/1665	0.43	0/2262
3	C	0.34	0/703	0.40	0/969
All	All	0.27	0/4034	0.44	0/5515

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

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	1622	0	1565	15	0
2	B	1628	0	1551	11	0
3	C	688	0	698	3	1
4	A	10	0	20	2	0
5	C	31	0	50	1	0
6	C	6	0	0	0	0
7	A	12	0	0	0	0
7	B	8	0	0	0	0
7	C	4	0	0	0	0
All	All	4009	0	3884	27	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 (27) 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:A:57:ARG:HH21	4:A:2001:F09:H11	1.36	0.90
1:A:38:LYS:HB2	1:A:48:ILE:HD11	1.76	0.68
1:A:83:LEU:HB3	1:A:86:LEU:HD21	1.77	0.66
1:A:143:LEU:HD13	1:A:215:ILE:HG21	1.78	0.64
2:B:37:GLN:HB2	2:B:47:LEU:HD11	1.84	0.60
1:A:11:LEU:HD13	1:A:152:PRO:HG3	1.85	0.58
3:C:86:LEU:HA	5:C:201:1EM:H122	1.85	0.58
1:A:126:VAL:O	1:A:213:LYS:NZ	2.37	0.57
1:A:57:ARG:HE	4:A:2001:F09:H22	1.72	0.55
1:A:159:TRP:CZ3	1:A:200:CYS:HB3	2.43	0.53
1:A:141:VAL:HG23	1:A:190:SER:HA	1.92	0.52
2:B:61:ARG:NH2	2:B:81:GLU:OE2	2.43	0.50
1:A:160:ASN:HD22	1:A:164:LEU:HD13	1.79	0.48
2:B:13:VAL:HG11	2:B:19:VAL:HG21	1.96	0.47
1:A:174:VAL:HG21	2:B:160:LEU:HD22	1.96	0.47
2:B:192:TYR:HB2	2:B:209:PHE:CE2	2.51	0.46
1:A:20:LEU:HD22	1:A:112:THR:HG21	1.97	0.45
2:B:79:GLU:HG3	2:B:81:GLU:HG2	1.99	0.45
2:B:32:ASP:OD2	3:C:64:ARG:NH2	2.50	0.44
1:A:159:TRP:CH2	1:A:200:CYS:HB3	2.54	0.43
2:B:149:LYS:HB2	2:B:193:THR:HB	2.01	0.42
1:A:151:PHE:HA	1:A:152:PRO:HA	1.83	0.42
2:B:2:ILE:HD13	2:B:29:ILE:HG22	2.01	0.41
1:A:1:GLN:O	1:A:3:GLN:HG2	2.20	0.41
2:B:155:ARG:NE	2:B:157:ASN:O	2.54	0.41
3:C:111:ALA:O	3:C:115:VAL:HG23	2.21	0.41
2:B:13:VAL:HG21	2:B:19:VAL:HG22	2.04	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)
3:C:28:CYS:CB	3:C:118:CYS:SG[4_555]	1.34	0.86

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	217/219 (99%)	204 (94%)	12 (6%)	1 (0%)	29 54
2	B	209/212 (99%)	202 (97%)	7 (3%)	0	100 100
3	C	94/96 (98%)	89 (95%)	5 (5%)	0	100 100
All	All	520/527 (99%)	495 (95%)	24 (5%)	1 (0%)	47 73

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	2	VAL

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	177/185 (96%)	174 (98%)	3 (2%)	60 84
2	B	186/190 (98%)	184 (99%)	2 (1%)	73 90
3	C	66/71 (93%)	66 (100%)	0	100 100
All	All	429/446 (96%)	424 (99%)	5 (1%)	71 88

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

Mol	Chain	Res	Type
1	A	43	HIS
1	A	66	LYS

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Mol	Chain	Res	Type
1	A	133	SER
2	B	155	ARG
2	B	185	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	160	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 6 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	$\#\|Z\| > 2$
4	F09	A	2001	-	9,9,9	0.29	0	8,8,8	0.84	0
5	1EM	C	201	-	30,30,30	1.20	2 (6%)	32,32,32	1.35	3 (9%)

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
4	F09	A	2001	-	-	2/7/7/7	-
5	1EM	C	201	-	-	20/32/32/32	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	201	1EM	O42-C21	4.71	1.47	1.34
5	C	201	1EM	O41-C11	3.90	1.44	1.33

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	201	1EM	O41-C11-C12	4.36	125.60	111.91
5	C	201	1EM	O42-C21-C22	3.98	120.08	111.50
5	C	201	1EM	O41-C11-O11	-2.81	116.50	123.59

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	C	201	1EM	C22-C21-O42-C42
5	C	201	1EM	O21-C21-O42-C42
5	C	201	1EM	C11-C12-C13-C14
5	C	201	1EM	C21-C22-C23-C24
5	C	201	1EM	C13-C14-C15-C16
5	C	201	1EM	C30-C31-C32-C33
5	C	201	1EM	C14-C15-C16-C17
5	C	201	1EM	C22-C23-C24-C25
5	C	201	1EM	C12-C11-O41-C41
5	C	201	1EM	O11-C11-O41-C41
5	C	201	1EM	O41-C41-C42-C43
5	C	201	1EM	O41-C41-C42-O42
5	C	201	1EM	C23-C24-C25-C26
4	A	2001	F09	C1-C2-C3-C4
5	C	201	1EM	C24-C25-C26-C27
5	C	201	1EM	C15-C16-C17-C18
5	C	201	1EM	C25-C26-C27-C28
5	C	201	1EM	C26-C27-C28-C29

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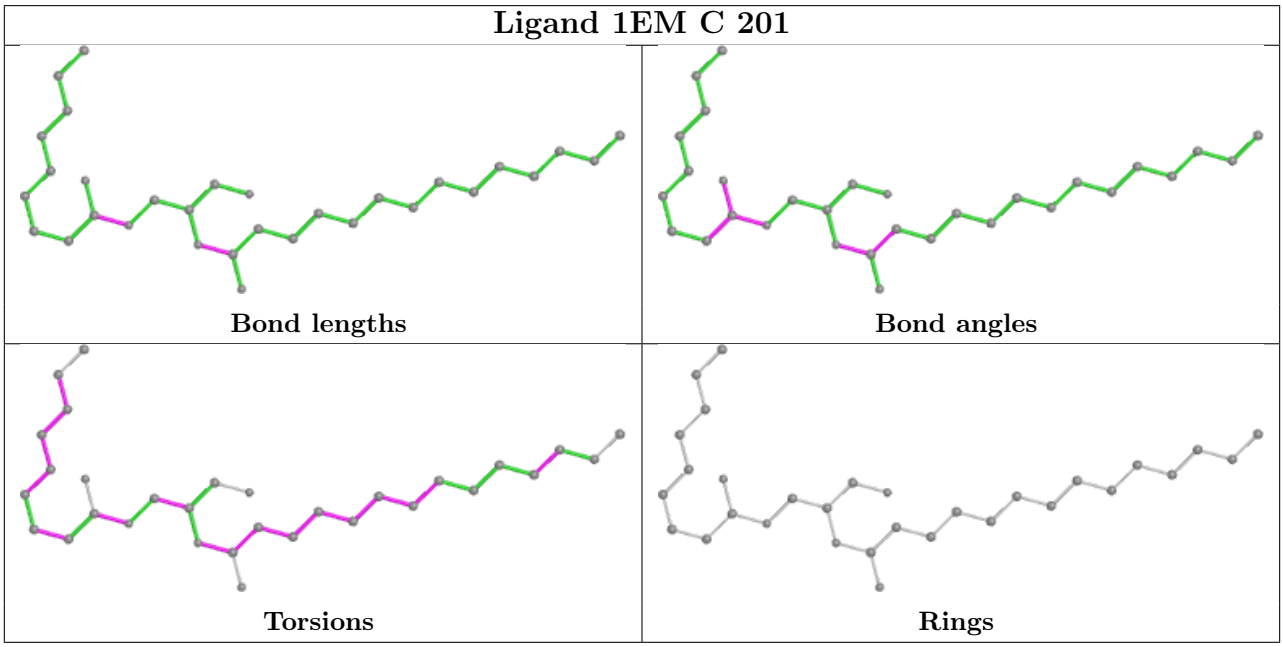
Mol	Chain	Res	Type	Atoms
5	C	201	1EM	C16-C17-C18-C19
4	A	2001	F09	C3-C4-C5-C6
5	C	201	1EM	O42-C21-C22-C23
5	C	201	1EM	O21-C21-C22-C23

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	2001	F09	2	0
5	C	201	1EM	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.



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	219/219 (100%)	0.35	9 (4%)	37	36	42, 80, 106, 119	0
2	B	211/212 (99%)	0.39	15 (7%)	16	14	34, 73, 120, 134	0
3	C	96/96 (100%)	0.15	1 (1%)	82	83	28, 49, 92, 126	0
All	All	526/527 (99%)	0.33	25 (4%)	30	28	28, 72, 115, 134	0

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	219	ASP	4.0
1	A	197	THR	3.9
1	A	196	GLU	3.9
2	B	109	ALA	3.6
1	A	218	ARG	3.4
3	C	26	TRP	3.4
1	A	215	ILE	3.0
2	B	121	SER	2.9
1	A	129	LEU	2.8
1	A	130	ALA	2.8
2	B	130	ALA	2.8
2	B	147	LYS	2.5
2	B	153	SER	2.5
1	A	72	ALA	2.3
2	B	179	LEU	2.3
2	B	184	ASP	2.2
2	B	41	ASN	2.2
2	B	202	THR	2.2
2	B	188	ARG	2.2
2	B	105	GLU	2.2
1	A	164	LEU	2.2
2	B	200	THR	2.2
2	B	211	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	17	GLU	2.1
2	B	181	LEU	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)

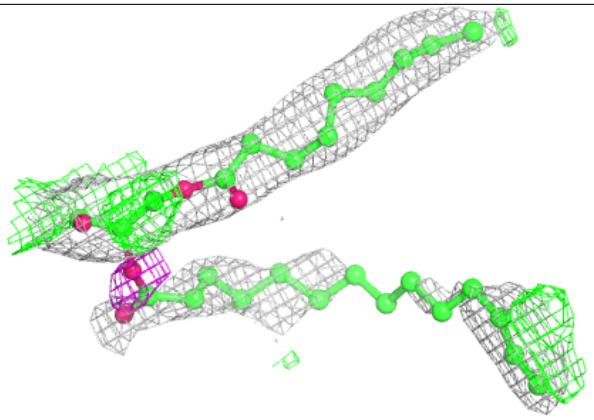
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

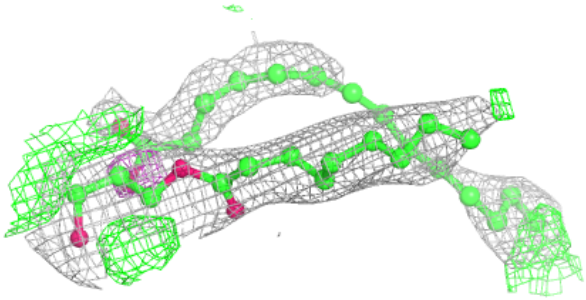
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	F09	A	2001	10/10	0.65	0.26	56,62,75,82	0
5	1EM	C	201	31/31	0.69	0.41	46,77,115,130	0
6	K	C	207	1/1	0.78	0.12	49,49,49,49	1
6	K	C	205	1/1	0.87	0.44	77,77,77,77	1
6	K	C	206	1/1	0.91	0.18	70,70,70,70	1
6	K	C	204	1/1	0.96	0.22	50,50,50,50	1
6	K	C	203	1/1	0.96	0.29	46,46,46,46	1
6	K	C	202	1/1	0.97	0.09	83,83,83,83	1

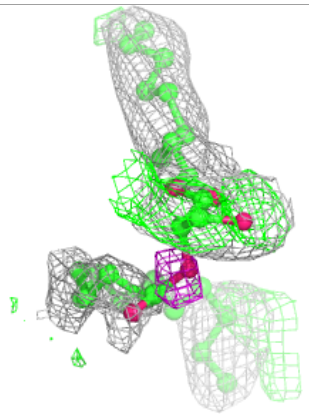
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around 1EM C 201:

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

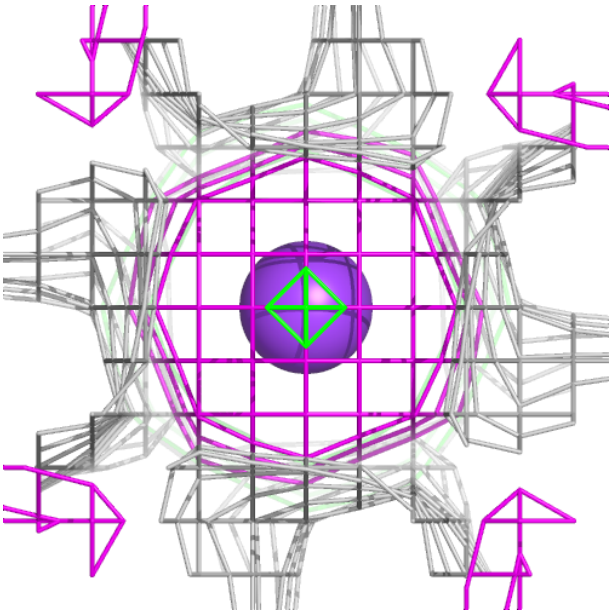


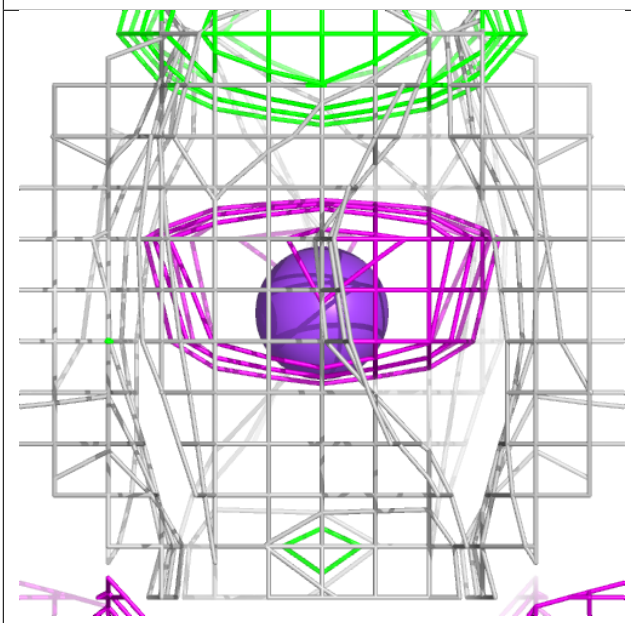


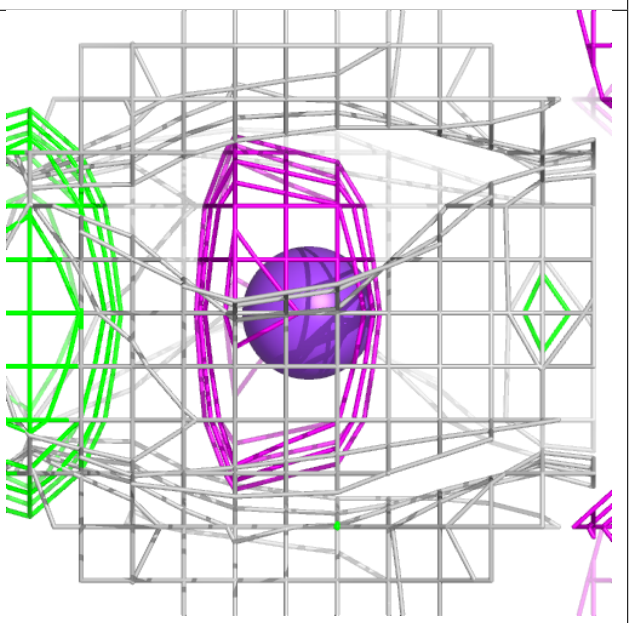


Electron density around K C 207:

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

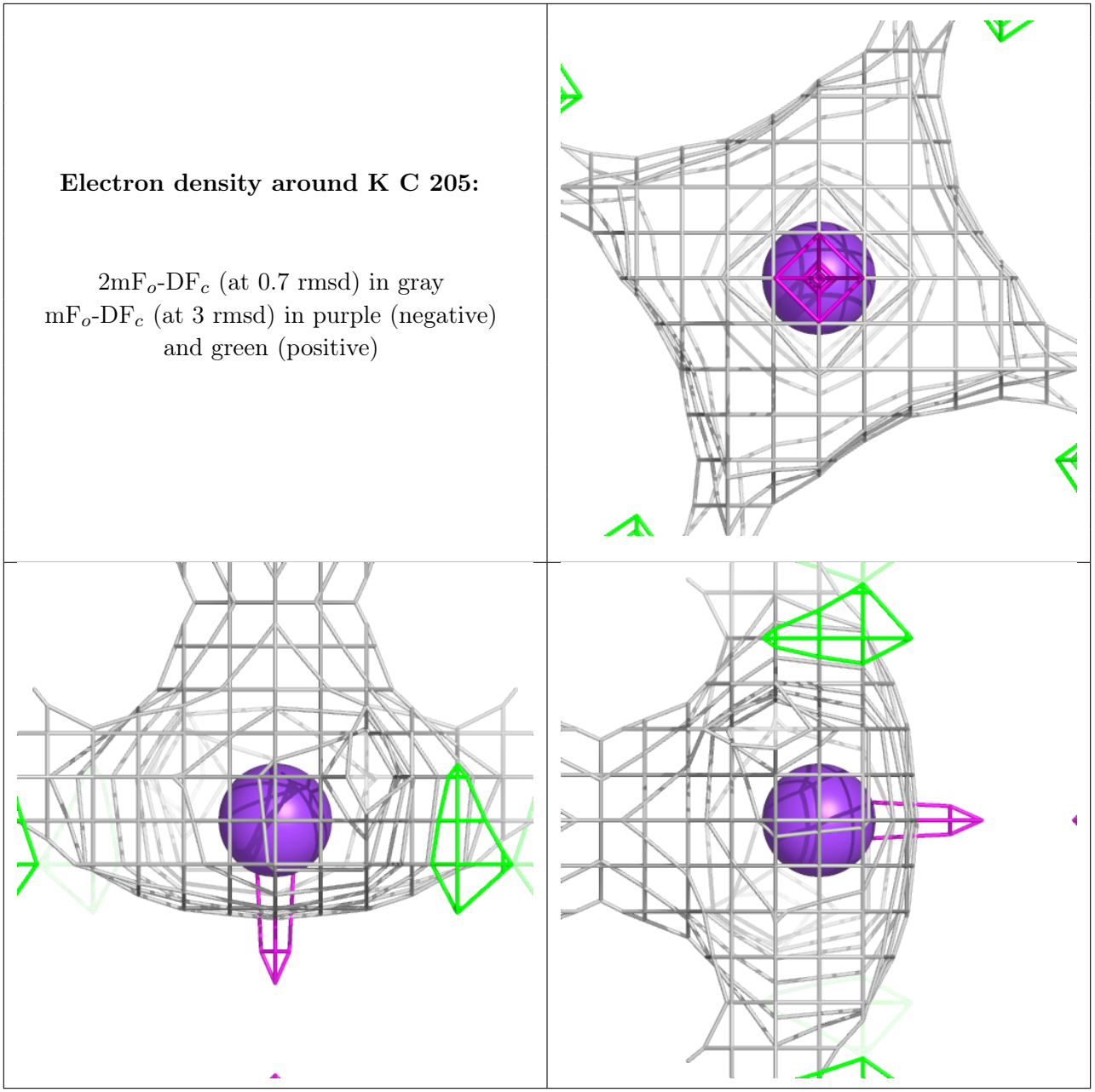






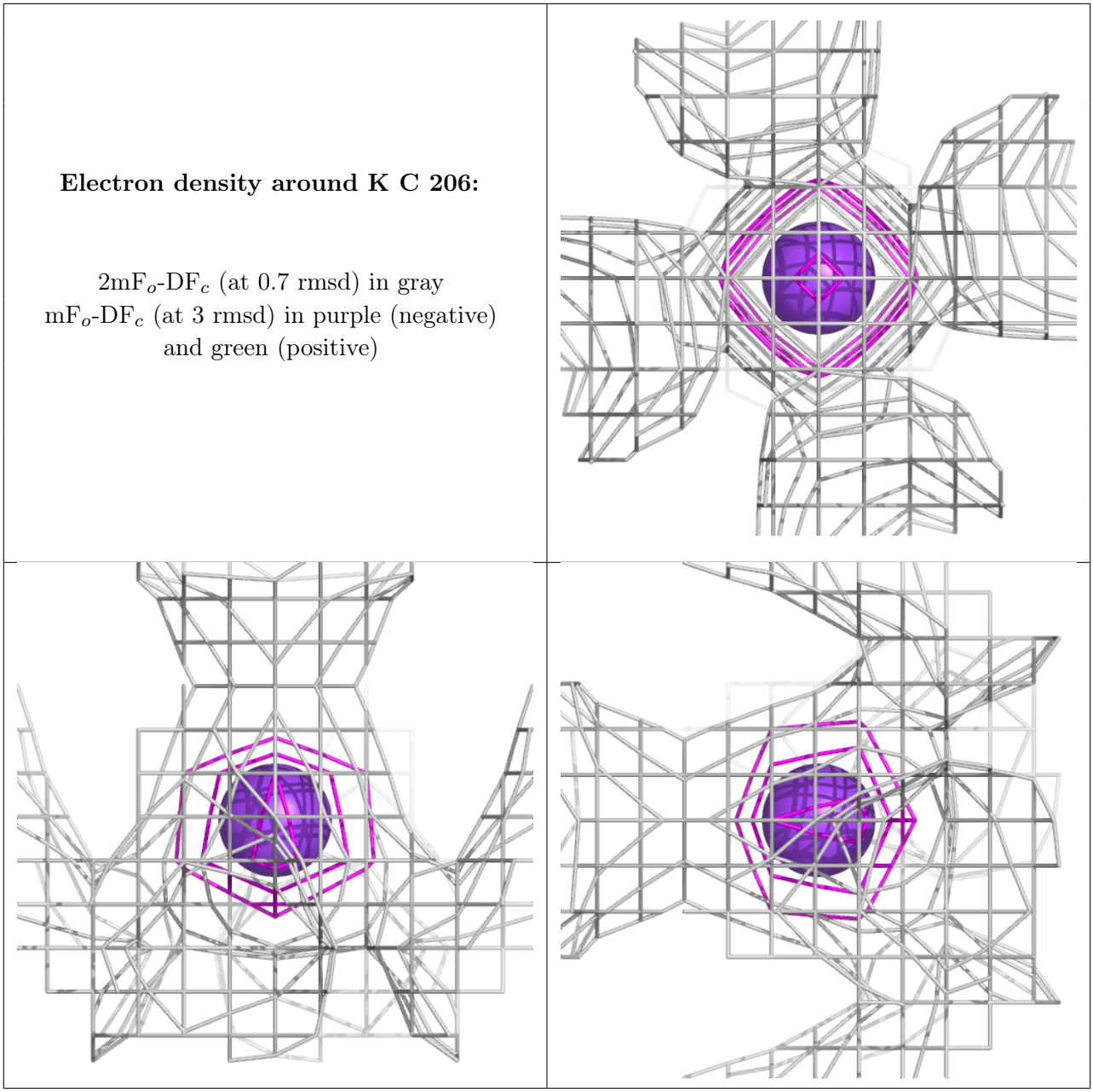
Electron density around K C 205:

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



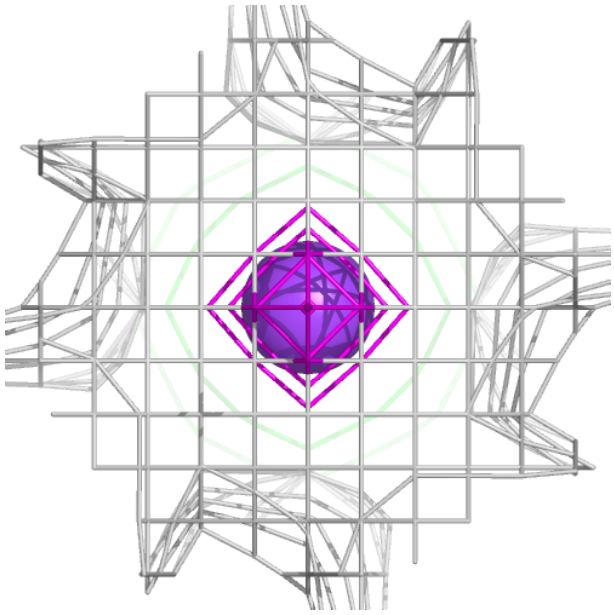
Electron density around K C 206:

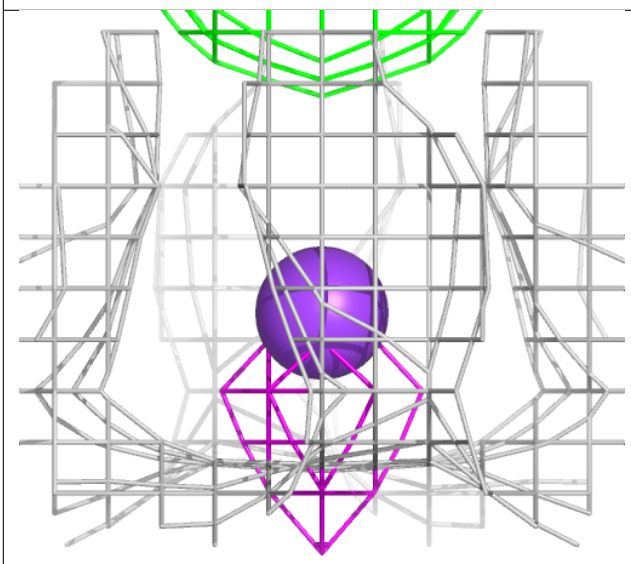
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

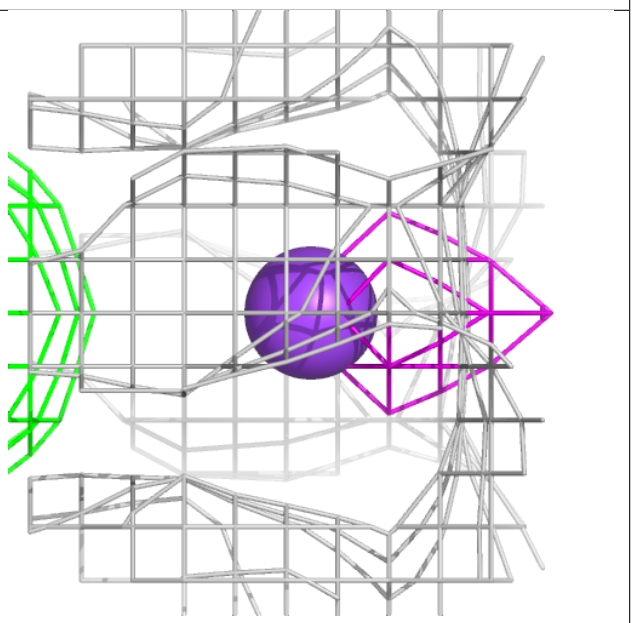


Electron density around K C 204:

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

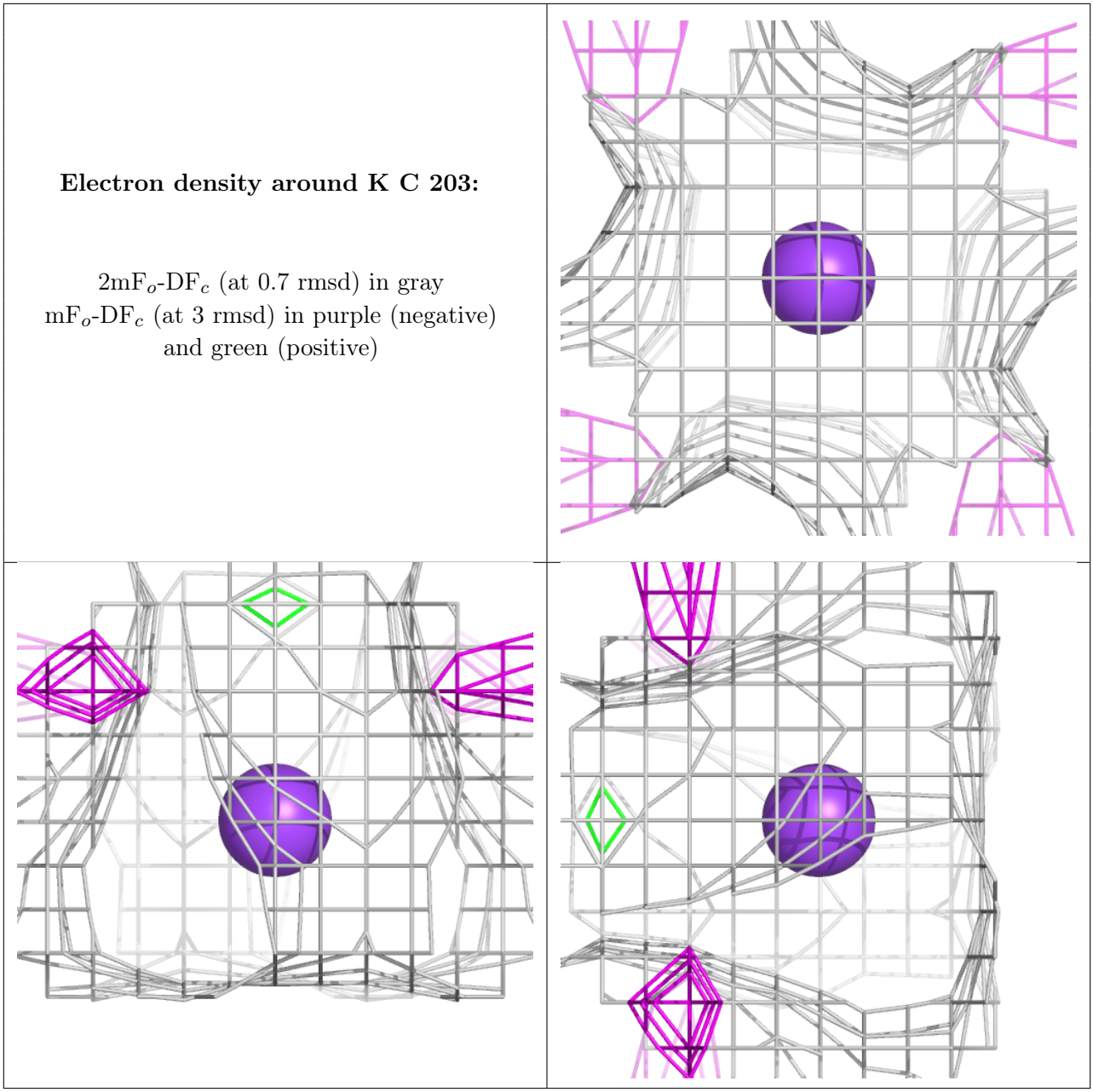






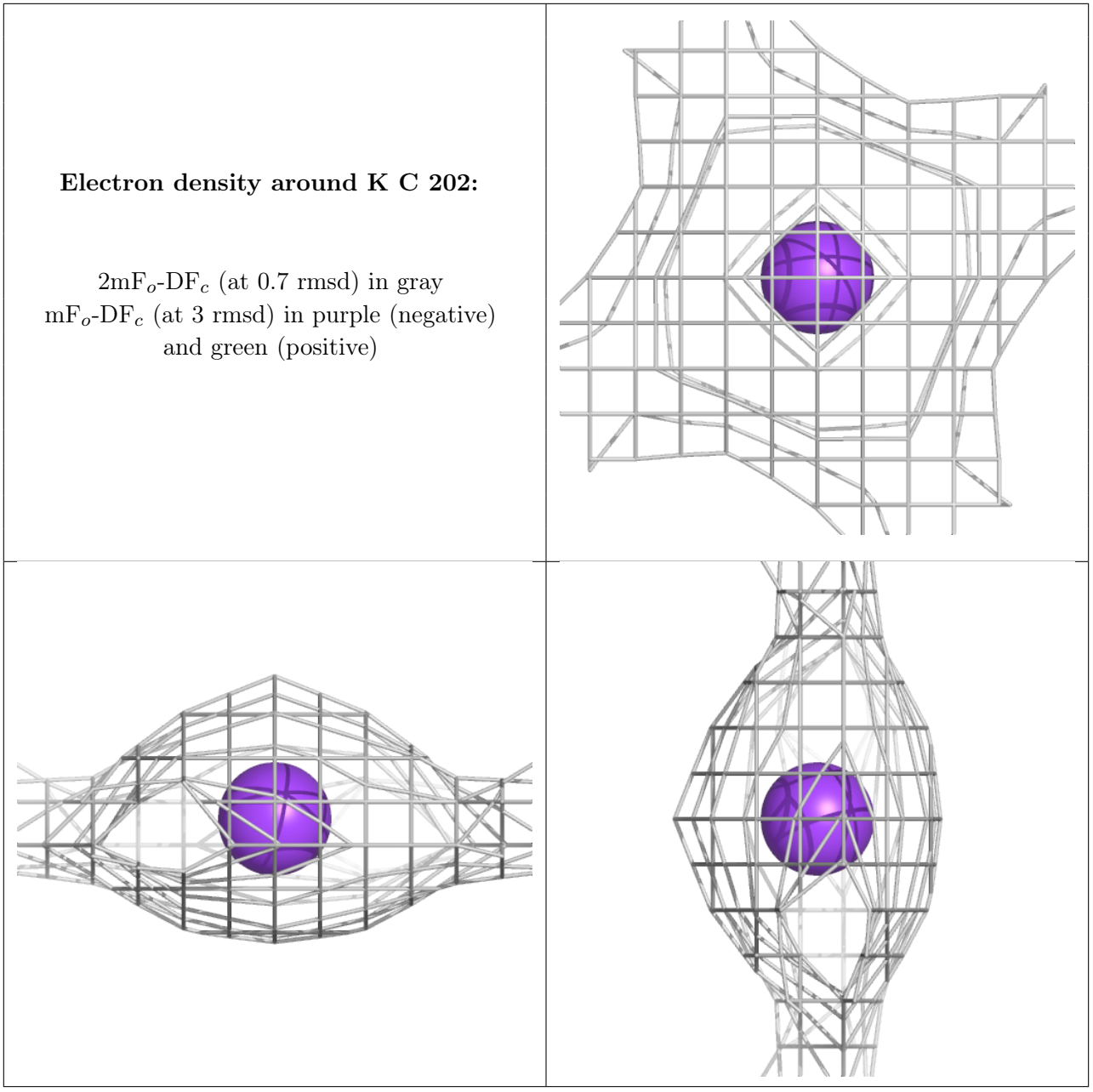
Electron density around K C 203:

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



Electron density around K C 202:

$2mF_o$-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.