



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 01:05 AM UTC

PDB ID : 9L5M / pdb_00009l5m
Title : X-ray structure of sarcoplasmic Ca-binding protein (SCP), a calcium ion-binding protein from Pinctada fucata
Authors : Namikawa, Y.; Zhu, L.; Wang, L.; Lu, P.; Zhang, M.; Nagata, K.; Suzuki, M.
Deposited on : 2024-12-23
Resolution : 2.00 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	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

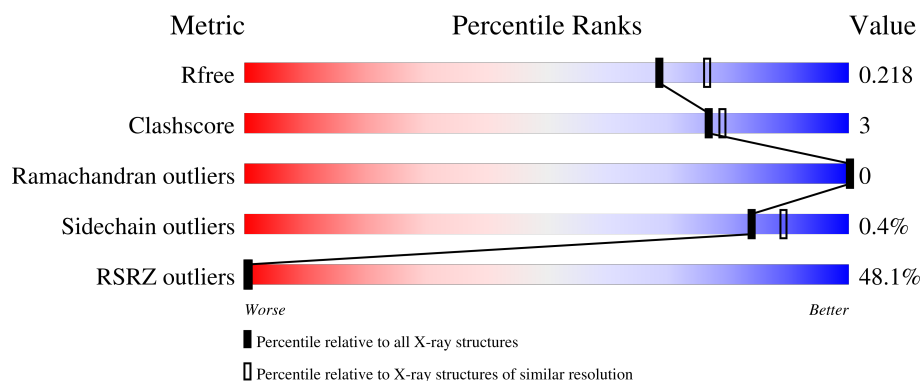
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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 $\leq 5\%$. 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	180	52% 92% 8%
1	B	180	49% 91% 9%
1	C	180	43% 91% 9%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 4718 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 Sarcoplasmic Ca-binding protein (SCP).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	180	Total	C	N	O	S	0	0	0
			1474	947	237	285	5			
1	B	180	Total	C	N	O	S	0	0	0
			1474	947	237	285	5			
1	C	180	Total	C	N	O	S	0	0	0
			1474	947	237	285	5			

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Ca	0	0
			2	2		
2	B	2	Total	Ca	0	0
			2	2		
2	C	2	Total	Ca	0	0
			2	2		

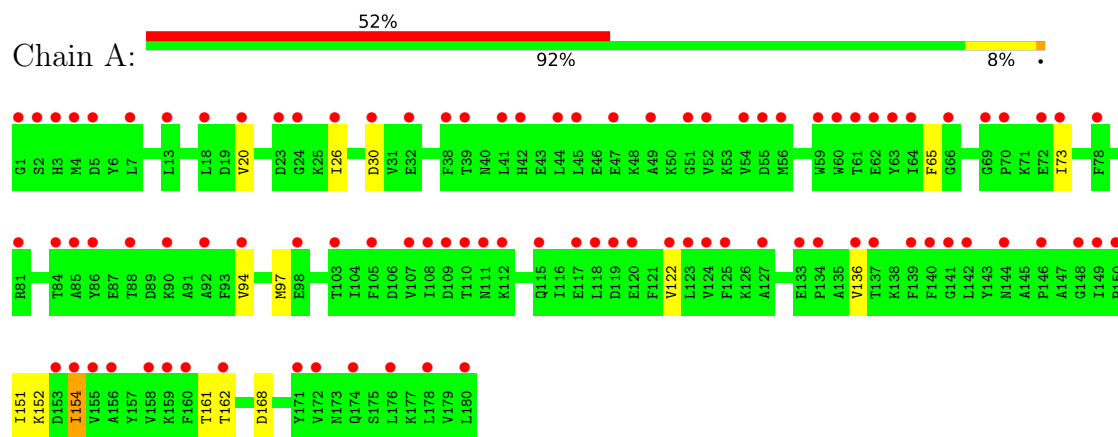
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	93	Total	O	0	0
			93	93		
3	B	106	Total	O	0	0
			106	106		
3	C	91	Total	O	0	0
			91	91		

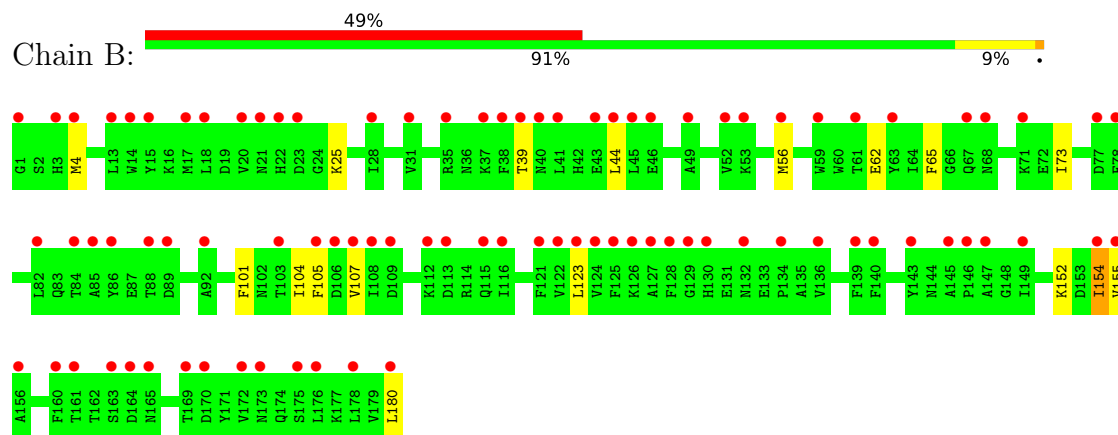
3 Residue-property plots [i](#)

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.

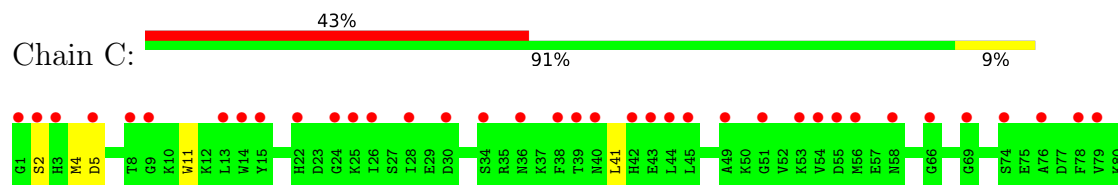
- Molecule 1: Sarcoplasmic Ca-binding protein (SCP)

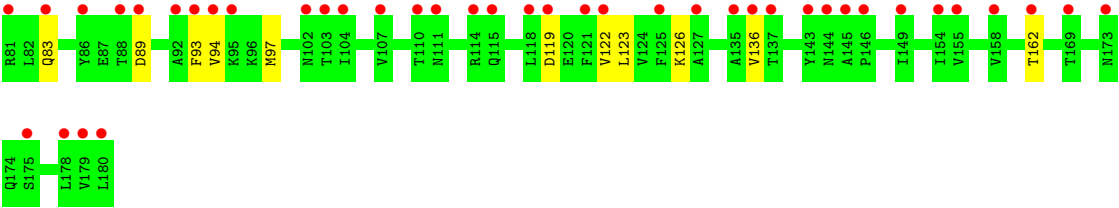


- Molecule 1: Sarcoplasmic Ca-binding protein (SCP)



- Molecule 1: Sarcoplasmic Ca-binding protein (SCP)





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	96.82Å 55.92Å 102.16Å 90.00° 90.01° 90.00°	Depositor
Resolution (Å)	35.14 – 2.00 35.14 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.3 (35.14-2.00) 97.4 (35.14-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	29.42 (at 2.00Å)	Xtriage
Refinement program	PHENIX (1.21.2_5419: ???)	Depositor
R, R_{free}	0.212 , 0.218 0.212 , 0.218	Depositor DCC
R_{free} test set	1967 reflections (5.29%)	wwPDB-VP
Wilson B-factor (Å ²)	31.1	Xtriage
Anisotropy	0.974	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 78.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.004 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.004 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.085 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.095 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.036 for -h,-k,l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	4718	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.61% 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

5.1 Standard geometry

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

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	0.65	1/1508 (0.1%)	0.94	1/2036 (0.0%)
1	B	0.69	1/1508 (0.1%)	0.98	2/2036 (0.1%)
1	C	0.63	0/1508	0.94	1/2036 (0.0%)
All	All	0.66	2/4524 (0.0%)	0.95	4/6108 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1
1	C	0	1
All	All	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	4	MET	SD-CE	-6.68	1.62	1.79
1	A	154	ILE	CG1-CD1	-5.80	1.29	1.51

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	154	ILE	CG1-CB-CG2	-6.20	92.11	110.70
1	B	4	MET	CG-SD-CE	5.50	113.00	100.90
1	C	119	ASP	CB-CG-OD1	5.21	130.39	118.40
1	A	168	ASP	CB-CA-C	-5.02	101.61	109.70

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	152	LYS	Peptide
1	C	89	ASP	Sidechain

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	1474	0	1430	8	0
1	B	1474	0	1430	10	0
1	C	1474	0	1430	8	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
3	A	93	0	0	0	0
3	B	106	0	0	2	0
3	C	91	0	0	1	0
All	All	4718	0	4290	25	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 3.

All (25) 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:65:PHE:HA	1:B:73:ILE:HD11	1.85	0.59
1:B:105:PHE:HD2	1:B:154:ILE:HG22	1.68	0.58
1:C:4:MET:HE2	1:C:83:GLN:HG3	1.84	0.58
1:B:56:MET:HG3	1:B:107:VAL:HG11	1.88	0.55
1:A:152:LYS:HD2	1:B:25:LYS:HB2	1.92	0.52
1:A:122:VAL:HA	1:A:136:VAL:HG11	1.94	0.49
1:A:97:MET:HE3	1:A:161:THR:HB	1.95	0.49
1:C:41:LEU:HB3	1:C:123:LEU:HD22	1.97	0.46
1:B:39:THR:HA	1:B:44:LEU:HD12	1.99	0.45
1:C:93:PHE:O	1:C:97:MET:HG2	2.16	0.45
1:B:101:PHE:HA	1:B:104:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:126:LYS:HG3	3:C:306:HOH:O	2.16	0.44
1:A:26:ILE:HB	1:A:73:ILE:HB	2.00	0.44
1:A:65:PHE:HA	1:A:73:ILE:HD11	2.00	0.43
1:A:151:ILE:O	1:A:154:ILE:HG23	2.20	0.42
1:A:94:VAL:HA	1:A:162:THR:HG21	2.01	0.42
1:C:2:SER:H	1:C:5:ASP:HB2	1.85	0.42
1:B:62:GLU:HB2	3:B:323:HOH:O	2.20	0.41
1:A:20:VAL:HG22	1:A:30:ASP:HA	2.02	0.41
1:C:4:MET:HE1	1:C:11:TRP:CZ3	2.56	0.41
1:B:105:PHE:CD2	1:B:154:ILE:HG22	2.52	0.41
1:B:155:VAL:HG11	3:B:380:HOH:O	2.21	0.41
1:C:122:VAL:HA	1:C:136:VAL:HG11	2.03	0.41
1:C:94:VAL:HA	1:C:162:THR:HG21	2.02	0.40
1:B:154:ILE:HD13	1:B:154:ILE:HG21	1.85	0.40

There are no symmetry-related clashes.

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	178/180 (99%)	174 (98%)	4 (2%)	0	100	100
1	B	178/180 (99%)	174 (98%)	4 (2%)	0	100	100
1	C	178/180 (99%)	171 (96%)	7 (4%)	0	100	100
All	All	534/540 (99%)	519 (97%)	15 (3%)	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	Outliers	Percentiles	
1	A	161/161 (100%)	161 (100%)	0	100	100
1	B	161/161 (100%)	159 (99%)	2 (1%)	63	70
1	C	161/161 (100%)	161 (100%)	0	100	100
All	All	483/483 (100%)	481 (100%)	2 (0%)	84	89

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	123	LEU
1	B	180	LEU

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

Mol	Chain	Res	Type
1	B	115	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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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

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	180/180 (100%)	2.19	93 (51%) 0 0	33, 48, 69, 101	0
1	B	180/180 (100%)	2.09	89 (49%) 0 1	30, 46, 60, 114	0
1	C	180/180 (100%)	2.11	78 (43%) 0 1	25, 46, 65, 120	0
All	All	540/540 (100%)	2.13	260 (48%) 0 1	25, 47, 64, 120	0

All (260) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	155	VAL	7.5
1	C	136	VAL	7.3
1	A	124	VAL	6.6
1	C	154	ILE	6.6
1	B	45	LEU	6.5
1	A	108	ILE	6.3
1	A	127	ALA	6.2
1	B	13	LEU	6.1
1	B	108	ILE	6.1
1	C	104	ILE	5.8
1	C	135	ALA	5.8
1	B	89	ASP	5.7
1	C	137	THR	5.7
1	A	107	VAL	5.5
1	B	35	ARG	5.5
1	A	123	LEU	5.5
1	B	145	ALA	5.3
1	A	86	TYR	5.3
1	B	106	ASP	5.2
1	A	2	SER	5.1
1	B	44	LEU	5.1
1	A	142	LEU	5.1
1	C	119	ASP	5.1

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Mol	Chain	Res	Type	RSRZ
1	B	4	MET	5.0
1	C	95	LYS	5.0
1	C	178	LEU	5.0
1	B	134	PRO	4.9
1	B	126	LYS	4.8
1	B	41	LEU	4.7
1	B	123	LEU	4.7
1	C	8	THR	4.7
1	C	93	PHE	4.6
1	A	140	PHE	4.6
1	C	44	LEU	4.5
1	A	49	ALA	4.4
1	B	175	SER	4.4
1	C	127	ALA	4.4
1	C	92	ALA	4.2
1	C	145	ALA	4.2
1	A	111	ASN	4.2
1	C	121	PHE	4.2
1	C	118	LEU	4.1
1	A	125	PHE	4.1
1	B	22	HIS	4.1
1	B	49	ALA	4.0
1	A	180	LEU	4.0
1	C	34	SER	3.9
1	A	69	GLY	3.9
1	A	70	PRO	3.8
1	B	53	LYS	3.7
1	C	111	ASN	3.7
1	C	3	HIS	3.7
1	B	156	ALA	3.7
1	A	178	LEU	3.7
1	A	51	GLY	3.7
1	C	54	VAL	3.6
1	C	125	PHE	3.6
1	A	55	ASP	3.6
1	B	139	PHE	3.6
1	B	21	ASN	3.6
1	B	143	TYR	3.6
1	B	107	VAL	3.5
1	A	47	GLU	3.5
1	A	85	ALA	3.5
1	B	127	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	60	TRP	3.5
1	A	63	TYR	3.5
1	B	14	TRP	3.5
1	C	38	PHE	3.5
1	A	141	GLY	3.5
1	B	39	THR	3.5
1	B	165	ASN	3.5
1	C	51	GLY	3.4
1	B	130	HIS	3.4
1	B	132	ASN	3.4
1	A	154	ILE	3.4
1	A	62	GLU	3.4
1	C	56	MET	3.4
1	C	53	LYS	3.4
1	A	94	VAL	3.3
1	B	172	VAL	3.3
1	B	176	LEU	3.3
1	C	49	ALA	3.3
1	A	78	PHE	3.3
1	B	169	THR	3.3
1	C	102	ASN	3.2
1	B	78	PHE	3.2
1	B	3	HIS	3.2
1	A	20	VAL	3.2
1	A	41	LEU	3.2
1	C	115	GLN	3.2
1	B	155	VAL	3.2
1	A	1	GLY	3.2
1	B	1	GLY	3.2
1	C	9	GLY	3.2
1	C	180	LEU	3.1
1	A	139	PHE	3.1
1	A	148	GLY	3.1
1	A	146	PRO	3.1
1	B	85	ALA	3.1
1	C	122	VAL	3.1
1	B	56	MET	3.1
1	A	103	THR	3.1
1	B	84	THR	3.1
1	A	144	ASN	3.1
1	C	22	HIS	3.1
1	A	66	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
1	C	162	THR	3.1
1	A	81	ARG	3.1
1	C	81	ARG	3.1
1	B	109	ASP	3.1
1	B	147	ALA	3.1
1	B	20	VAL	3.1
1	C	179	VAL	3.1
1	C	13	LEU	3.1
1	B	129	GLY	3.0
1	A	118	LEU	3.0
1	B	124	VAL	3.0
1	B	180	LEU	3.0
1	A	73	ILE	3.0
1	B	125	PHE	3.0
1	A	24	GLY	3.0
1	C	43	GLU	3.0
1	C	79	VAL	3.0
1	C	158	VAL	3.0
1	A	42	HIS	3.0
1	A	13	LEU	2.9
1	A	38	PHE	2.9
1	B	59	TRP	2.9
1	A	3	HIS	2.9
1	C	55	ASP	2.9
1	B	160	PHE	2.9
1	C	76	ALA	2.9
1	B	122	VAL	2.9
1	B	116	ILE	2.9
1	B	140	PHE	2.9
1	C	42	HIS	2.9
1	C	25	LYS	2.8
1	A	174	GLN	2.8
1	A	109	ASP	2.8
1	B	161	THR	2.8
1	A	133	GLU	2.8
1	C	45	LEU	2.8
1	B	154	ILE	2.8
1	C	40	ASN	2.8
1	A	98	GLU	2.8
1	C	86	TYR	2.8
1	C	144	ASN	2.7
1	A	64	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	90	LYS	2.7
1	A	4	MET	2.7
1	A	26	ILE	2.7
1	A	59	TRP	2.7
1	C	1	GLY	2.7
1	A	160	PHE	2.7
1	B	67	GLN	2.7
1	A	39	THR	2.7
1	A	137	THR	2.7
1	C	110	THR	2.7
1	B	164	ASP	2.7
1	C	5	ASP	2.7
1	A	120	GLU	2.6
1	A	84	THR	2.6
1	A	110	THR	2.6
1	B	86	TYR	2.6
1	B	170	ASP	2.6
1	C	36	ASN	2.6
1	C	103	THR	2.6
1	B	178	LEU	2.6
1	B	31	VAL	2.6
1	A	92	ALA	2.6
1	A	52	VAL	2.6
1	B	92	ALA	2.6
1	C	15	TYR	2.5
1	C	69	GLY	2.5
1	C	173	ASN	2.5
1	C	78	PHE	2.5
1	A	159	LYS	2.5
1	B	113	ASP	2.5
1	A	115	GLN	2.5
1	A	162	THR	2.5
1	A	18	LEU	2.5
1	B	37	LYS	2.5
1	C	28	ILE	2.5
1	B	103	THR	2.5
1	C	2	SER	2.5
1	A	134	PRO	2.5
1	A	176	LEU	2.5
1	B	112	LYS	2.5
1	C	94	VAL	2.4
1	A	56	MET	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	105	PHE	2.4
1	A	153	ASP	2.4
1	C	89	ASP	2.4
1	B	15	TYR	2.4
1	C	74	SER	2.4
1	C	175	SER	2.4
1	C	39	THR	2.4
1	C	88	THR	2.4
1	B	121	PHE	2.4
1	A	150	PRO	2.4
1	B	82	LEU	2.4
1	C	24	GLY	2.4
1	B	28	ILE	2.4
1	A	112	LYS	2.4
1	B	61	THR	2.4
1	B	68	ASN	2.3
1	A	119	ASP	2.3
1	A	32	GLU	2.3
1	B	77	ASP	2.3
1	B	163	SER	2.3
1	B	149	ILE	2.3
1	A	158	VAL	2.3
1	A	44	LEU	2.3
1	A	72	GLU	2.3
1	B	43	GLU	2.3
1	C	83	GLN	2.3
1	A	155	VAL	2.3
1	A	30	ASP	2.3
1	B	173	ASN	2.2
1	C	58	ASN	2.2
1	A	5	ASP	2.2
1	B	105	PHE	2.2
1	B	128	PHE	2.2
1	C	26	ILE	2.2
1	C	66	GLY	2.2
1	C	169	THR	2.2
1	B	23	ASP	2.2
1	A	54	VAL	2.2
1	C	143	TYR	2.2
1	C	14	TRP	2.2
1	A	61	THR	2.2
1	B	146	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	71	LYS	2.1
1	B	46	GLU	2.1
1	C	30	ASP	2.1
1	B	136	VAL	2.1
1	B	40	ASN	2.1
1	A	88	THR	2.1
1	B	52	VAL	2.1
1	C	107	VAL	2.1
1	A	45	LEU	2.1
1	B	17	MET	2.1
1	A	23	ASP	2.1
1	B	63	TYR	2.1
1	C	149	ILE	2.1
1	A	122	VAL	2.1
1	A	136	VAL	2.1
1	A	172	VAL	2.1
1	B	38	PHE	2.1
1	B	115	GLN	2.0
1	A	149	ILE	2.0
1	A	117	GLU	2.0
1	A	156	ALA	2.0
1	A	7	LEU	2.0
1	B	18	LEU	2.0
1	C	114	ARG	2.0
1	B	88	THR	2.0
1	C	146	PRO	2.0
1	A	171	TYR	2.0

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 oligosaccharides 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,

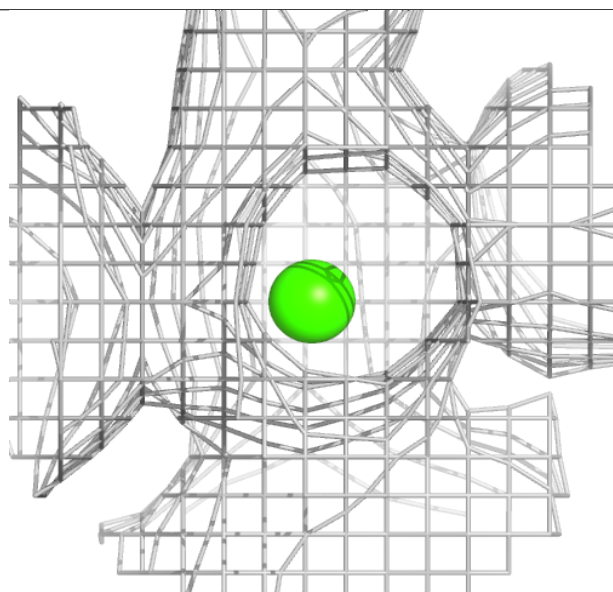
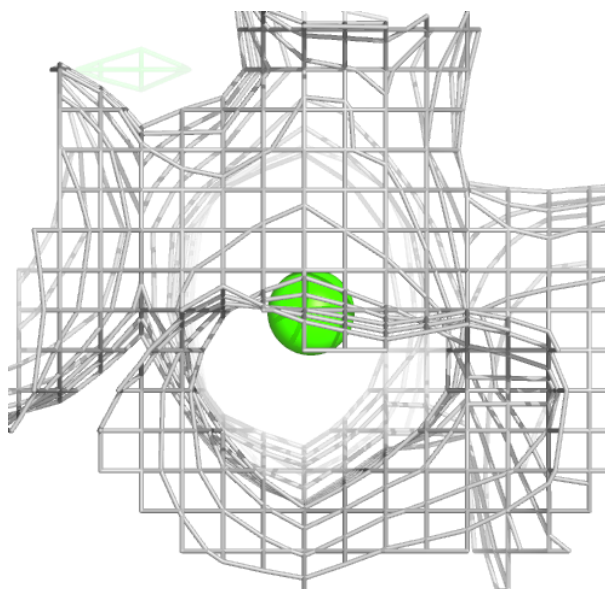
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	CA	A	201	1/1	0.97	0.06	43,43,43,43	0
2	CA	C	201	1/1	0.97	0.09	41,41,41,41	0
2	CA	C	202	1/1	0.97	0.05	46,46,46,46	0
2	CA	A	202	1/1	0.98	0.07	50,50,50,50	0
2	CA	B	202	1/1	0.98	0.06	48,48,48,48	0
2	CA	B	201	1/1	0.99	0.06	43,43,43,43	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.

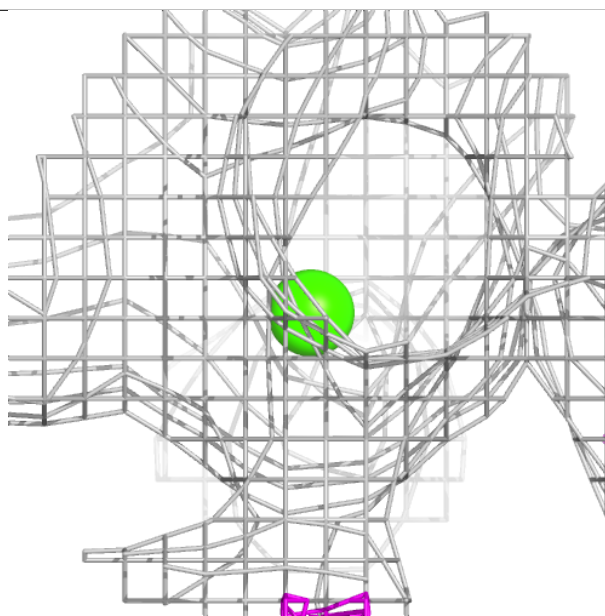
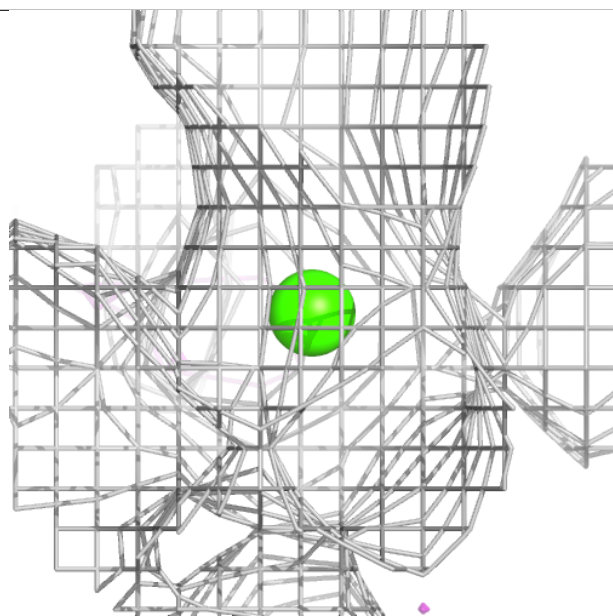
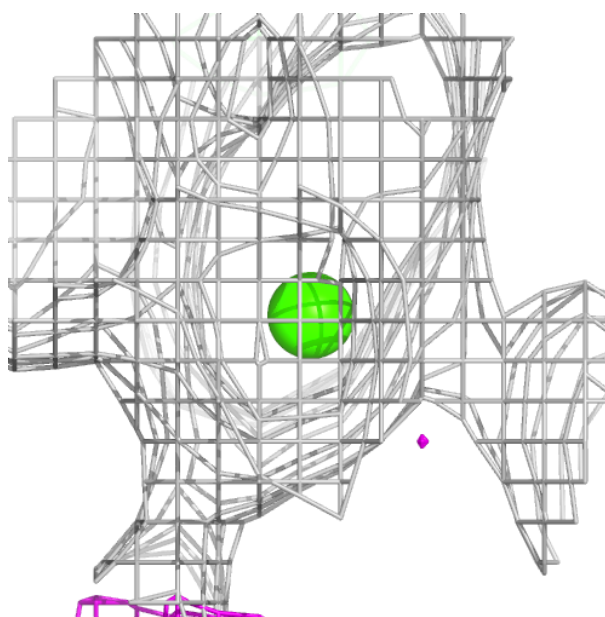
Electron density around CA A 201:

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



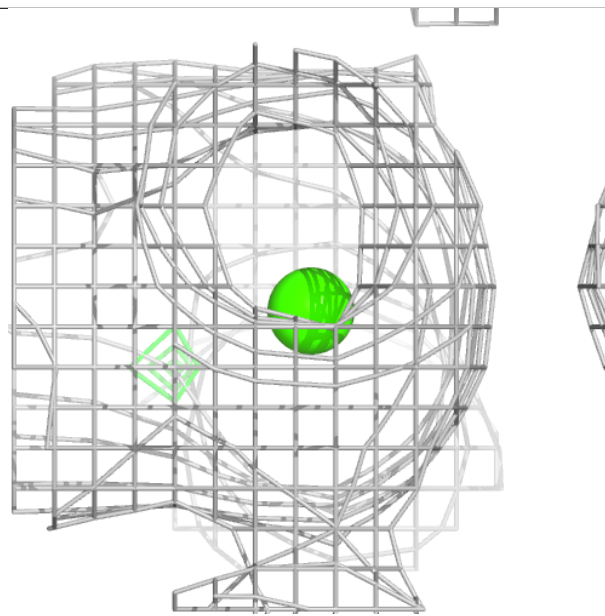
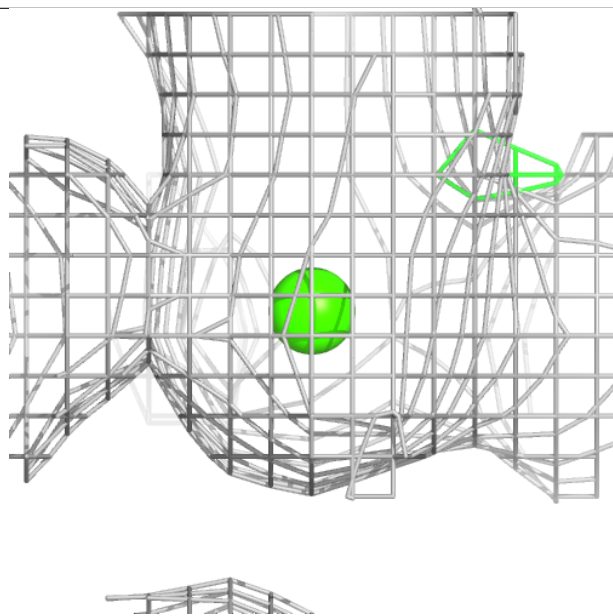
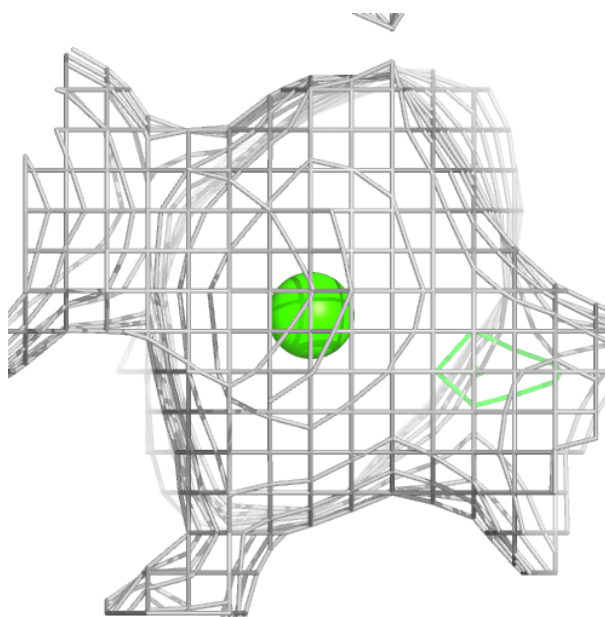
Electron density around CA C 201:

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



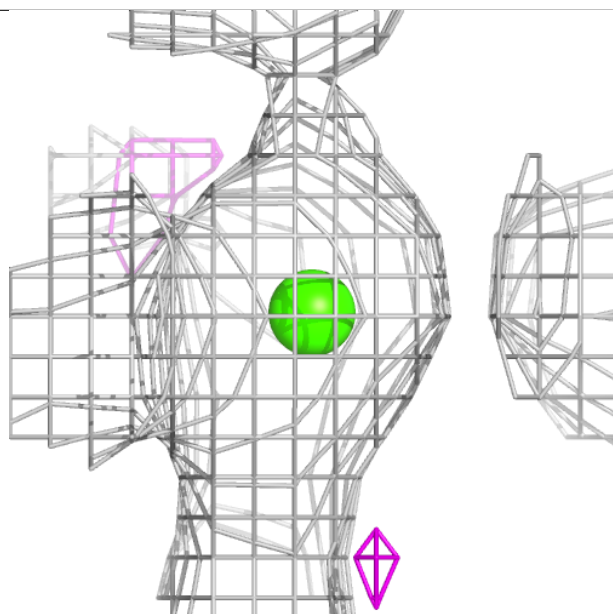
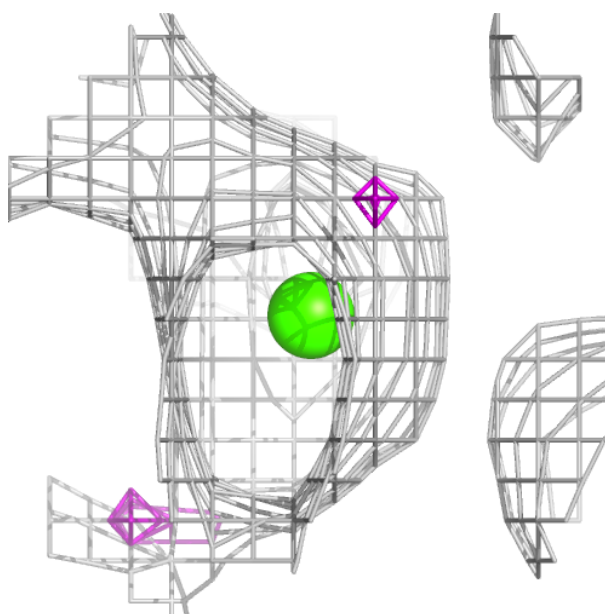
Electron density around CA C 202:

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



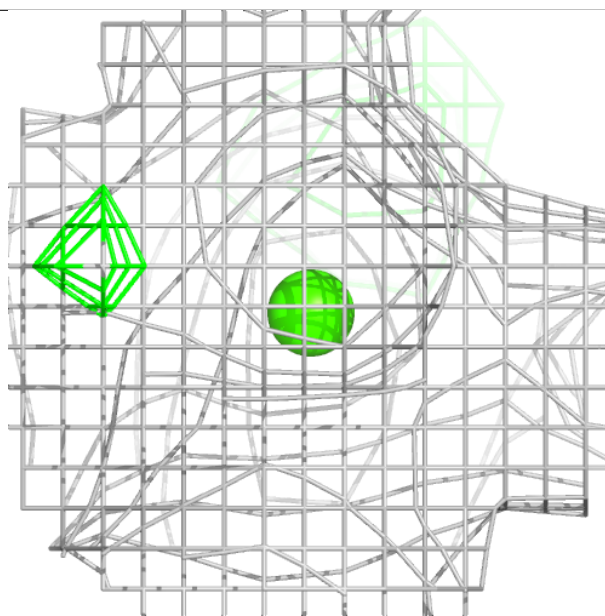
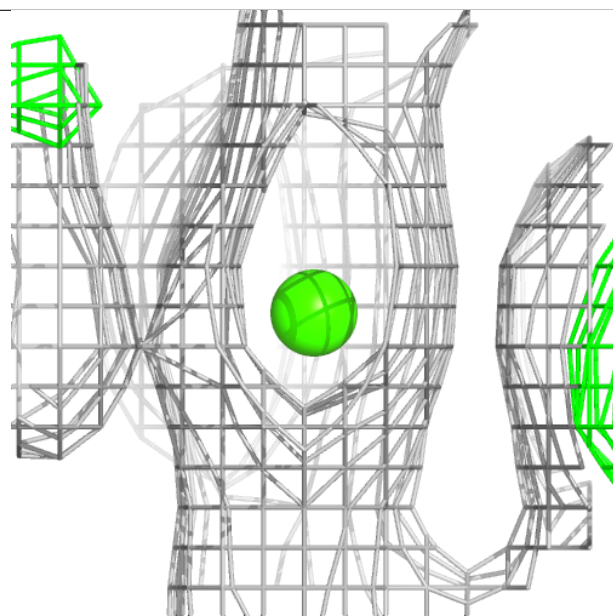
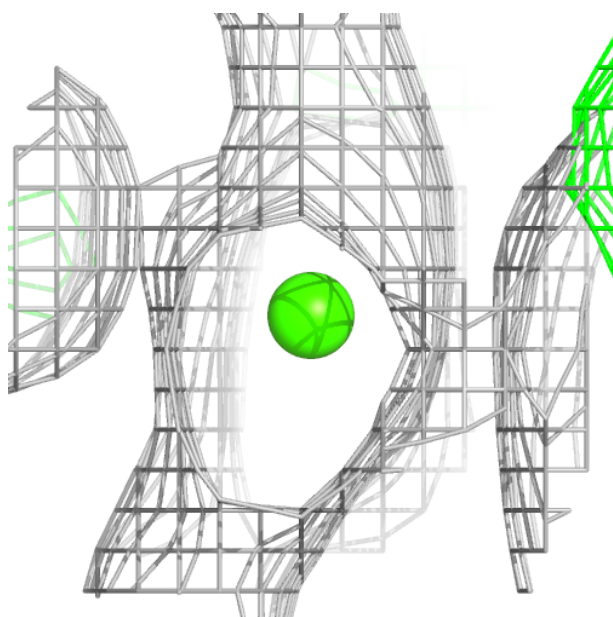
Electron density around CA A 202:

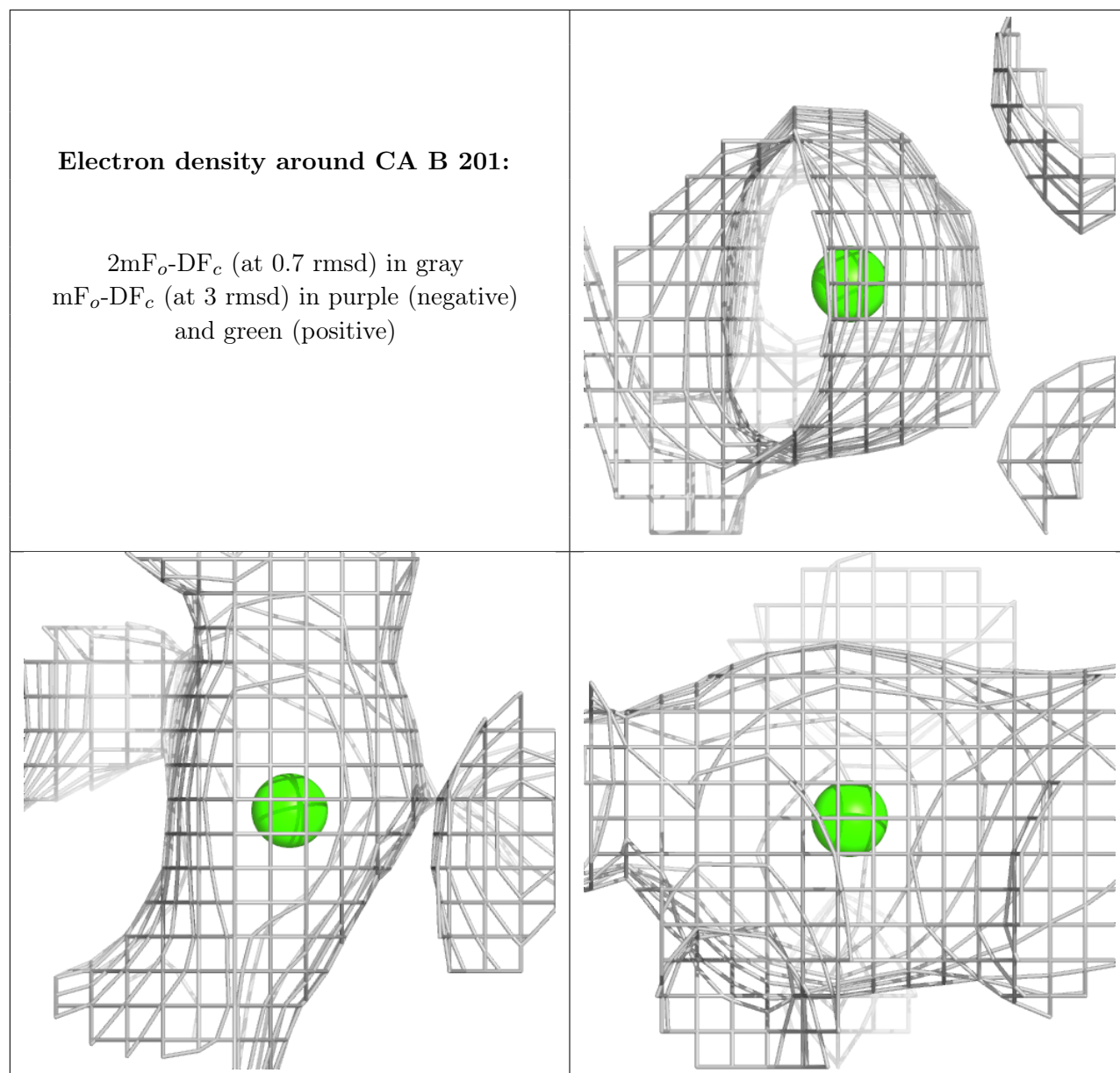
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CA B 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.