



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:36 PM UTC

PDB ID : 7DYA / pdb_00007dya
Title : Crystal structure of TmFtn with calcium ions
Authors : Zhang, X.; Zhao, G.
Deposited on : 2021-01-20
Resolution : 2.20 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:

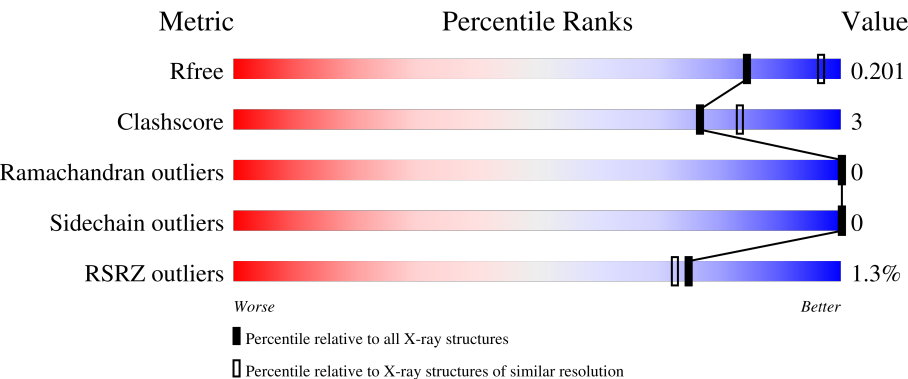
MolProbity : 4-5-2 with Phenix2.0
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	164	2% 90% 10%
1	B	164	% 96% .
1	C	164	3% 96% .
1	D	164	% 94% 6%
1	E	164	% 95% 5% .

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Mol	Chain	Length	Quality of chain
1	F	164	2% 92% 8%
1	G	164	% 96% •
1	H	164	93% 7%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 11989 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 Ferritin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			
1	A	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			
1	B	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			
1	C	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			
1	D	164	Total	C	N	O	S	0	1	0
			1376	880	225	265	6			
1	E	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			
1	F	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			
1	G	164	Total	C	N	O	S	0	0	0
			1367	874	223	264	6			

- Molecule 2 is FE (III) ION (CCD ID: FE) (formula: Fe).

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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	F	2	Total 2	Fe 2	0	0
2	G	2	Total 2	Fe 2	0	0

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	H	1	Total 1	Ca 1	0	0
3	A	1	Total 1	Ca 1	0	0
3	B	2	Total 2	Ca 2	0	0
3	C	1	Total 1	Ca 1	0	0
3	D	1	Total 1	Ca 1	0	0
3	E	1	Total 1	Ca 1	0	0
3	F	1	Total 1	Ca 1	0	0
3	G	1	Total 1	Ca 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	H	147	Total 147	O 147	0	0
4	A	159	Total 159	O 159	0	0
4	B	134	Total 134	O 134	0	0
4	C	136	Total 136	O 136	0	0
4	D	117	Total 117	O 117	0	0
4	E	115	Total 115	O 115	0	0
4	F	122	Total 122	O 122	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	G	89	Total	O	0	0
			89	89		

3 Residue-property plots [i](#)

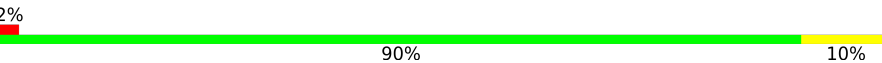
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

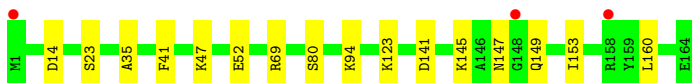
- Molecule 1: Ferritin

Chain H:  93% 7%

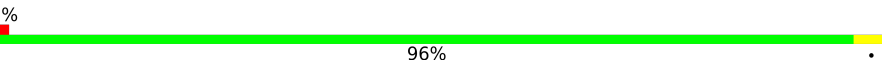


- Molecule 1: Ferritin

Chain A:  2% 90% 10%

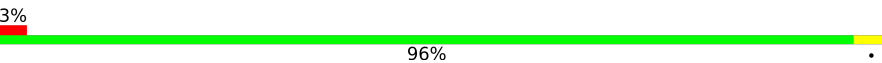


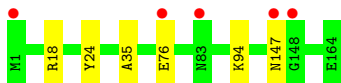
- Molecule 1: Ferritin

Chain B:  0% 96% 4%

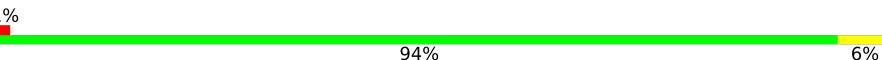


- Molecule 1: Ferritin

Chain C:  3% 96% 1%

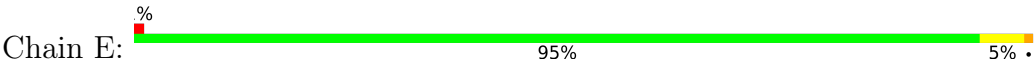


- Molecule 1: Ferritin

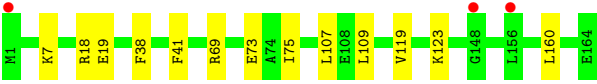
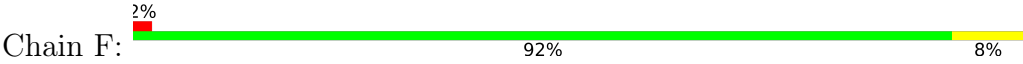
Chain D:  0% 94% 6%



- Molecule 1: Ferritin



● Molecule 1: Ferritin



● Molecule 1: Ferritin



4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	175.43Å 175.43Å 357.42Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	38.58 – 2.20 38.58 – 2.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (38.58-2.20) 99.9 (38.58-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.75 (at 2.20Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.175 , 0.200 0.176 , 0.201	Depositor DCC
R_{free} test set	2000 reflections (1.86%)	wwPDB-VP
Wilson B-factor (Å ²)	35.1	Xtriage
Anisotropy	0.209	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 35.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	11989	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.86% 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: FE, 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	0.31	0/1396	0.45	0/1876
1	B	0.34	0/1396	0.48	0/1876
1	C	0.31	0/1396	0.42	0/1876
1	D	0.30	0/1405	0.43	0/1887
1	E	0.30	0/1396	0.45	1/1876 (0.1%)
1	F	0.30	0/1396	0.43	0/1876
1	G	0.24	0/1396	0.39	0/1876
1	H	0.34	0/1396	0.45	0/1876
All	All	0.31	0/11177	0.44	1/15019 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	158	ARG	NE-CZ-NH2	5.47	124.12	119.20

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1367	0	1319	12	0
1	B	1367	0	1319	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	1367	0	1319	6	0
1	D	1376	0	1330	9	0
1	E	1367	0	1319	7	0
1	F	1367	0	1319	11	0
1	G	1367	0	1319	7	0
1	H	1367	0	1319	7	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
3	G	1	0	0	0	0
3	H	1	0	0	0	0
4	A	159	0	0	3	0
4	B	134	0	0	7	1
4	C	136	0	0	4	2
4	D	117	0	0	2	1
4	E	115	0	0	1	0
4	F	122	0	0	3	1
4	G	89	0	0	1	0
4	H	147	0	0	2	1
All	All	11989	0	10563	62	3

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 (62) 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:F:73:GLU:OE2	4:F:301:HOH:O	1.91	0.87
1:B:97:GLU:OE1	4:B:301:HOH:O	1.97	0.81
1:A:47:LYS:NZ	4:A:303:HOH:O	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:ASN:O	4:A:302:HOH:O	2.04	0.76
1:C:18:ARG:NH2	4:C:303:HOH:O	2.19	0.75
1:D:141:ASP:OD1	4:D:301:HOH:O	2.04	0.75
1:A:14:ASP:OD1	4:A:301:HOH:O	2.03	0.74
1:B:94:LYS:NZ	4:B:302:HOH:O	2.16	0.74
1:C:147:ASN:O	4:C:301:HOH:O	2.05	0.74
1:B:94:LYS:CE	4:B:302:HOH:O	2.38	0.72
1:E:158:ARG:HH21	1:E:158:ARG:HG2	1.53	0.72
1:D:69:ARG:NH1	1:D:70:VAL:O	2.26	0.69
1:F:19:GLU:OE2	4:F:302:HOH:O	2.11	0.68
1:E:147:ASN:O	4:E:302:HOH:O	2.11	0.68
1:E:86:LYS:HE3	1:E:90:GLU:OE2	1.94	0.67
1:B:94:LYS:CD	4:B:302:HOH:O	2.42	0.66
1:C:94:LYS:HE2	4:C:371:HOH:O	1.98	0.64
1:G:18:ARG:NH2	4:G:302:HOH:O	2.31	0.63
1:B:94:LYS:HD3	4:B:302:HOH:O	1.99	0.62
1:B:141:ASP:HB2	4:B:407:HOH:O	2.01	0.61
1:B:94:LYS:N	1:B:94:LYS:HD2	2.14	0.60
1:C:76:GLU:OE1	4:C:302:HOH:O	2.17	0.58
1:C:35:ALA:HB2	1:F:69:ARG:HG3	1.89	0.55
1:H:86:LYS:NZ	4:H:304:HOH:O	2.41	0.54
1:D:99:VAL:HG21	4:D:331:HOH:O	2.08	0.53
1:B:18:ARG:NH2	4:B:306:HOH:O	2.36	0.53
1:A:80:SER:O	1:D:69:ARG:NH2	2.42	0.52
1:H:18:ARG:NH2	4:H:303:HOH:O	2.32	0.51
1:H:47:LYS:NZ	1:H:164:GLU:OXT	2.31	0.51
1:E:35:ALA:HB2	1:G:69:ARG:HG3	1.93	0.51
1:C:24:TYR:CZ	1:F:75:ILE:HD11	2.48	0.49
1:E:15:GLN:HB2	1:E:106:ILE:HD11	1.95	0.49
1:F:18:ARG:NH2	4:F:304:HOH:O	2.39	0.49
1:H:7:LYS:HD2	1:H:109:LEU:HD11	1.95	0.48
1:A:23:SER:HB2	1:A:52:GLU:HB2	1.95	0.48
1:B:103:ILE:HD13	1:B:125:PHE:HB3	1.96	0.47
1:A:35:ALA:HB2	1:D:69:ARG:HG3	1.97	0.47
1:E:7:LYS:HD2	1:E:109:LEU:HD11	1.95	0.46
1:F:107:LEU:HD11	1:F:119:VAL:HG13	1.97	0.46
1:D:108:GLU:O	1:D:112:GLU:HG3	2.15	0.46
1:G:1:MET:HG2	1:G:2:MET:N	2.30	0.46
1:A:69:ARG:HG3	1:D:35:ALA:HB2	1.98	0.45
1:G:41:PHE:CE1	1:G:160:LEU:HD12	2.51	0.45
1:A:94:LYS:HD3	1:A:94:LYS:HA	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:15:GLN:NE2	1:H:19:GLU:OE2	2.46	0.43
1:G:158:ARG:HA	1:G:158:ARG:HD2	1.71	0.43
1:A:149:GLN:O	1:A:153:ILE:HG12	2.18	0.43
1:G:1:MET:HG2	1:G:2:MET:H	1.84	0.43
1:F:41:PHE:CD1	1:F:160:LEU:HD12	2.54	0.43
1:H:15:GLN:HB2	1:H:106:ILE:HD11	2.00	0.42
1:D:15:GLN:HB2	1:D:106:ILE:HD11	2.01	0.42
1:F:38:PHE:HB3	1:F:41:PHE:HD2	1.85	0.42
1:H:38:PHE:HB3	1:H:41:PHE:HD2	1.85	0.41
1:F:7:LYS:HE2	1:F:109:LEU:HD11	2.02	0.41
1:D:15:GLN:O	1:D:19:GLU:HG2	2.20	0.41
1:F:41:PHE:CE1	1:F:160:LEU:HD12	2.55	0.41
1:A:41:PHE:CD1	1:A:160:LEU:HD12	2.56	0.41
1:G:1:MET:HE2	1:G:1:MET:HB3	1.70	0.41
1:A:123:LYS:HE3	1:F:123:LYS:HD2	2.02	0.41
1:E:158:ARG:HG2	1:E:158:ARG:NH2	2.26	0.41
1:A:141:ASP:CG	1:A:145:LYS:HZ3	2.28	0.40
1:B:154:PHE:HD2	1:B:154:PHE:HA	1.78	0.40

All (3) 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:H:440:HOH:O	4:C:432:HOH:O[5_555]	2.02	0.18
4:D:412:HOH:O	4:F:419:HOH:O[2_655]	2.03	0.17
4:B:427:HOH:O	4:C:398:HOH:O[6_655]	2.12	0.08

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	162/164 (99%)	160 (99%)	2 (1%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	162/164 (99%)	161 (99%)	1 (1%)	0	100	100
1	C	162/164 (99%)	161 (99%)	1 (1%)	0	100	100
1	D	163/164 (99%)	162 (99%)	1 (1%)	0	100	100
1	E	162/164 (99%)	161 (99%)	1 (1%)	0	100	100
1	F	162/164 (99%)	160 (99%)	2 (1%)	0	100	100
1	G	162/164 (99%)	160 (99%)	2 (1%)	0	100	100
1	H	162/164 (99%)	160 (99%)	2 (1%)	0	100	100
All	All	1297/1312 (99%)	1285 (99%)	12 (1%)	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	144/144 (100%)	144 (100%)	0	100	100
1	B	144/144 (100%)	144 (100%)	0	100	100
1	C	144/144 (100%)	144 (100%)	0	100	100
1	D	145/144 (101%)	145 (100%)	0	100	100
1	E	144/144 (100%)	144 (100%)	0	100	100
1	F	144/144 (100%)	144 (100%)	0	100	100
1	G	144/144 (100%)	144 (100%)	0	100	100
1	H	144/144 (100%)	144 (100%)	0	100	100
All	All	1153/1152 (100%)	1153 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	81	ASN
1	A	15	GLN
1	B	50	GLN
1	B	101	GLN
1	B	105	ASN
1	C	50	GLN
1	D	129	GLN
1	D	149	GLN
1	E	81	ASN
1	E	129	GLN
1	E	155	GLN
1	F	129	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 [i](#)

Of 25 ligands modelled in this entry, 25 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 [i](#)

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	164/164 (100%)	-0.36	3 (1%) 67 64	27, 34, 46, 62	0
1	B	164/164 (100%)	-0.31	2 (1%) 76 74	26, 33, 46, 59	0
1	C	164/164 (100%)	-0.28	5 (3%) 52 49	27, 35, 49, 64	0
1	D	164/164 (100%)	-0.17	2 (1%) 76 74	18, 36, 51, 69	1 (0%)
1	E	164/164 (100%)	-0.22	1 (0%) 85 83	32, 39, 53, 62	0
1	F	164/164 (100%)	-0.26	3 (1%) 67 64	28, 36, 50, 60	0
1	G	164/164 (100%)	-0.14	1 (0%) 85 83	34, 42, 59, 68	0
1	H	164/164 (100%)	-0.44	0 100 100	26, 32, 47, 60	0
All	All	1312/1312 (100%)	-0.27	17 (1%) 75 73	18, 36, 52, 69	1 (0%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	1	MET	4.6
1	D	123[A]	LYS	4.2
1	G	1	MET	3.3
1	F	1	MET	2.9
1	C	1	MET	2.9
1	A	148	GLY	2.7
1	A	158	ARG	2.7
1	A	1	MET	2.7
1	E	1	MET	2.7
1	B	1	MET	2.6
1	C	148	GLY	2.5
1	B	148	GLY	2.4
1	F	156	LEU	2.2
1	C	147	ASN	2.1
1	F	148	GLY	2.1
1	C	83	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
1	C	76	GLU	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
3	CA	B	204	1/1	0.94	0.07	73,73,73,73	0
2	FE	D	202	1/1	0.97	0.04	33,33,33,33	1
2	FE	F	201	1/1	0.98	0.03	26,26,26,26	1
2	FE	E	201	1/1	0.98	0.03	35,35,35,35	1
2	FE	C	201	1/1	0.99	0.02	33,33,33,33	1
2	FE	H	202	1/1	0.99	0.03	35,35,35,35	0
2	FE	A	201	1/1	0.99	0.04	38,38,38,38	0
2	FE	E	202	1/1	0.99	0.02	35,35,35,35	1
2	FE	B	201	1/1	0.99	0.05	39,39,39,39	0
2	FE	F	202	1/1	0.99	0.02	32,32,32,32	1
2	FE	G	201	1/1	0.99	0.04	47,47,47,47	0
2	FE	G	202	1/1	0.99	0.02	43,43,43,43	1
3	CA	B	203	1/1	0.99	0.09	41,41,41,41	0
2	FE	B	202	1/1	0.99	0.02	31,31,31,31	1
3	CA	C	203	1/1	0.99	0.07	38,38,38,38	0
3	CA	D	203	1/1	0.99	0.03	30,30,30,30	1
3	CA	E	203	1/1	0.99	0.06	43,43,43,43	0
3	CA	F	203	1/1	0.99	0.05	35,35,35,35	0
3	CA	G	203	1/1	0.99	0.06	48,48,48,48	0
2	FE	A	202	1/1	1.00	0.01	31,31,31,31	1
2	FE	H	201	1/1	1.00	0.01	28,28,28,28	1
2	FE	C	202	1/1	1.00	0.04	36,36,36,36	0

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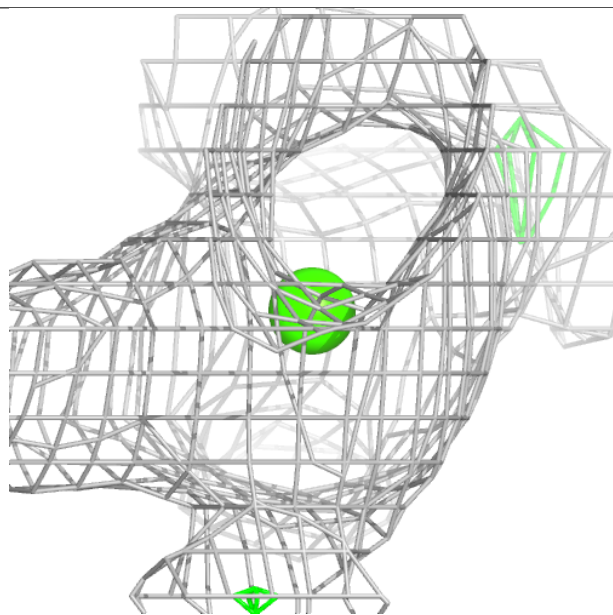
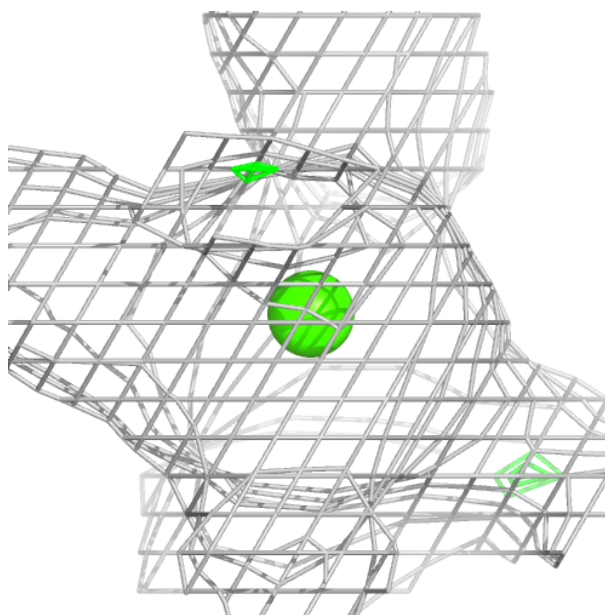
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	CA	H	203	1/1	1.00	0.01	37,37,37,37	0
3	CA	A	203	1/1	1.00	0.02	36,36,36,36	0
2	FE	D	201	1/1	1.00	0.04	40,40,40,40	0

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.

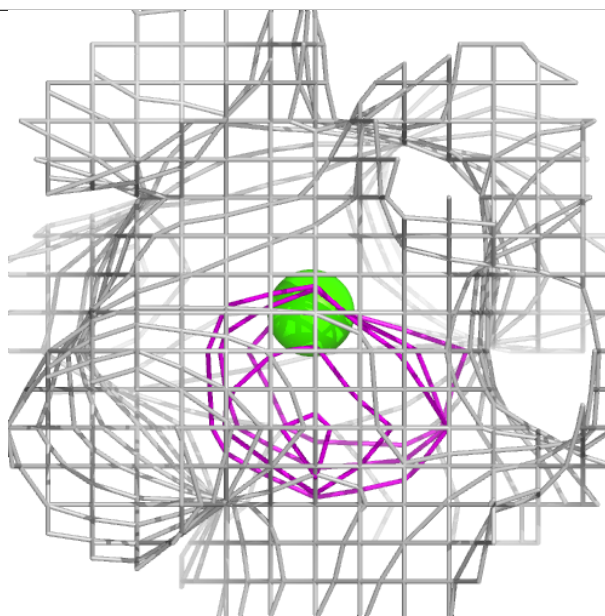
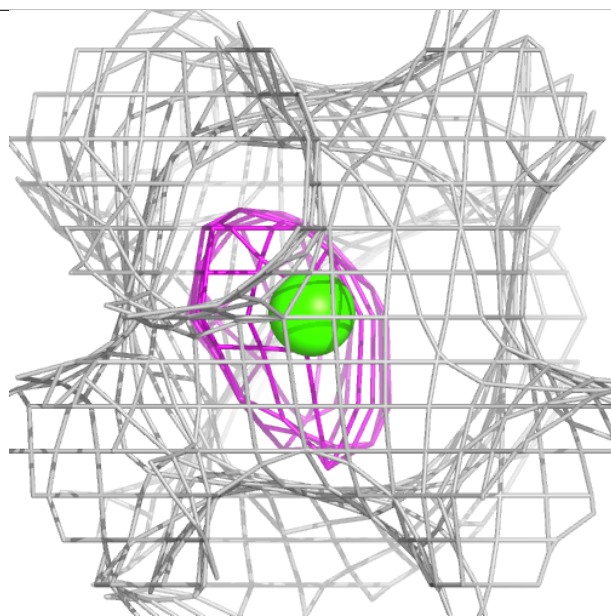
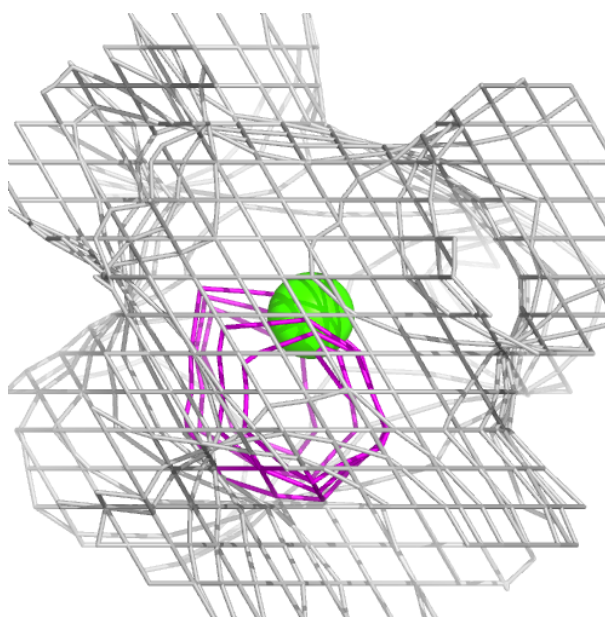
Electron density around CA B 204:

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



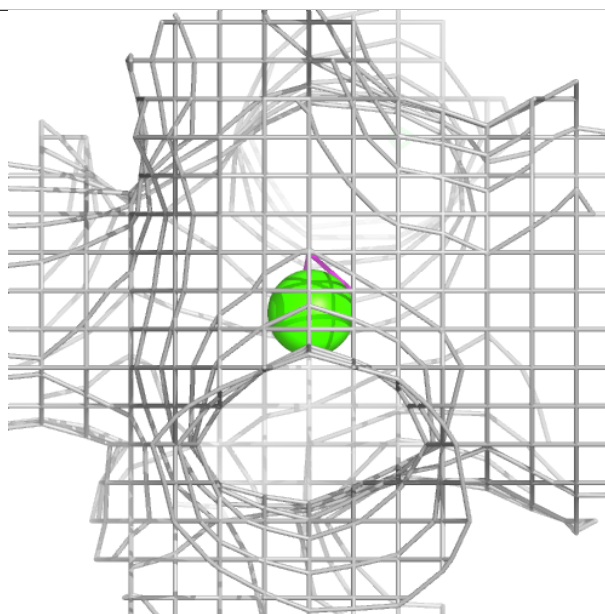
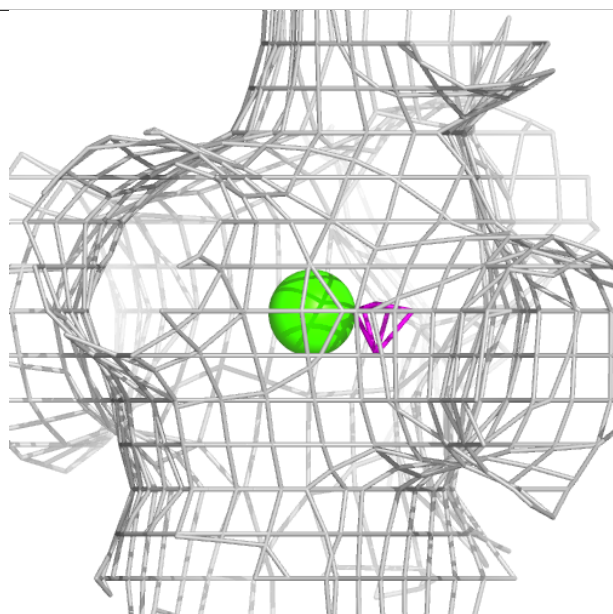
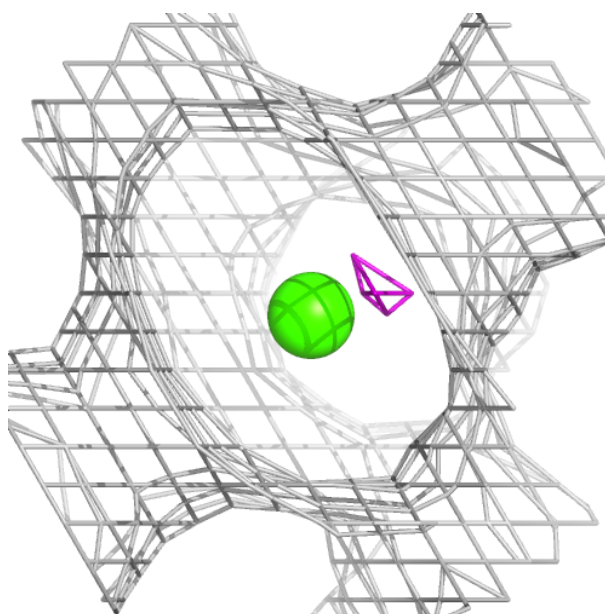
Electron density around CA B 203:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



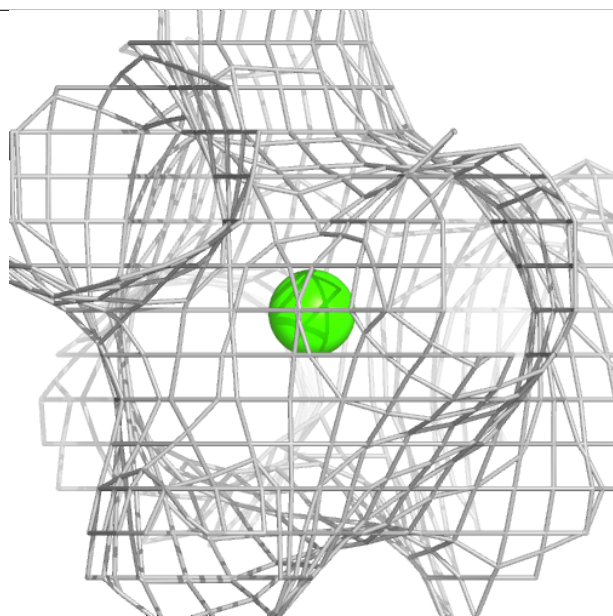
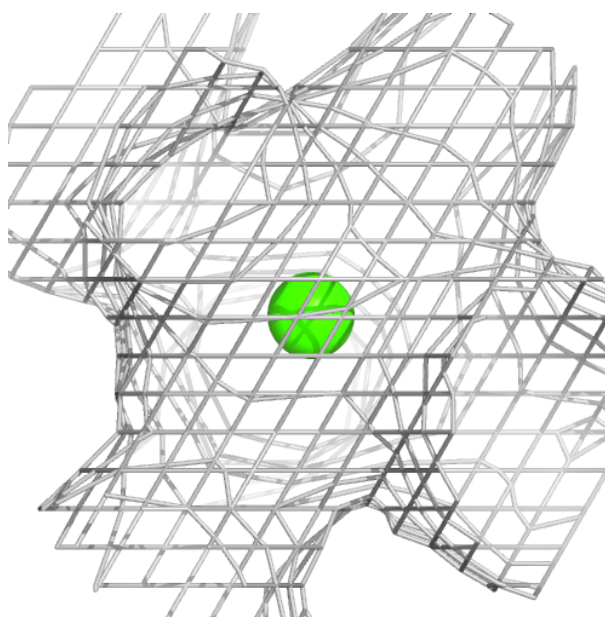
Electron density around CA C 203:

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and green (positive)



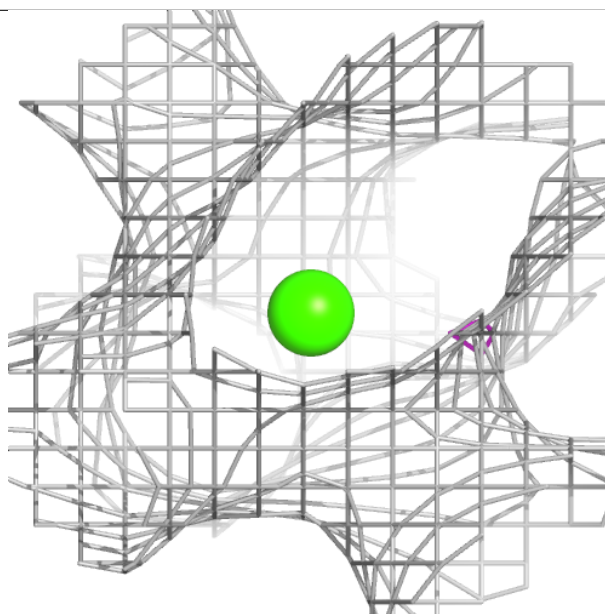
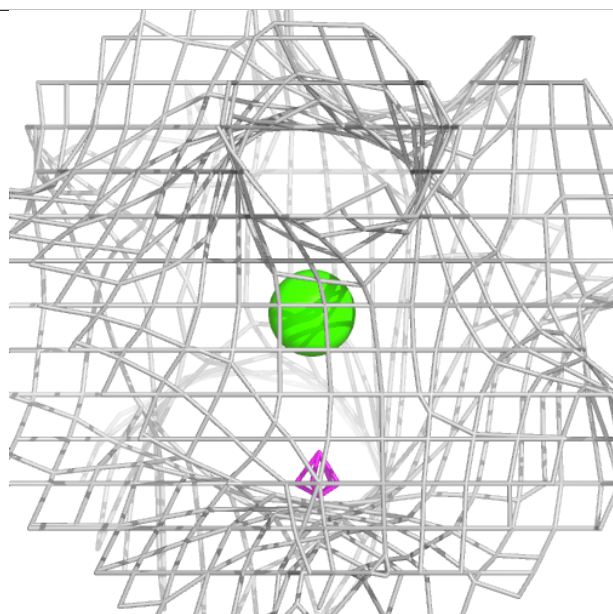
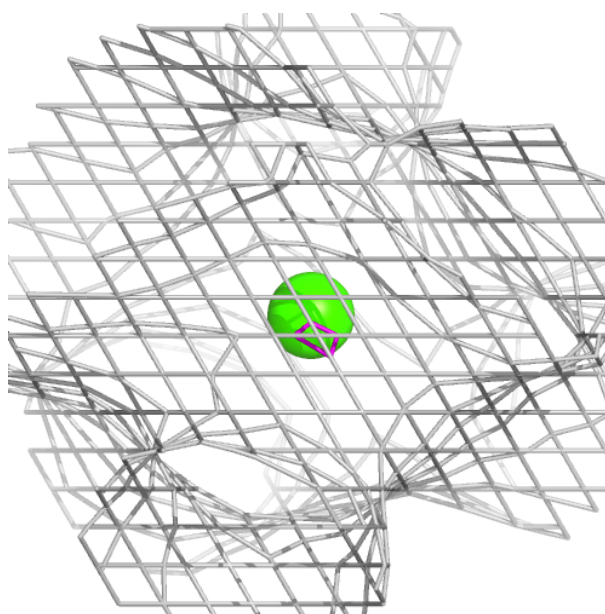
Electron density around CA D 203:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



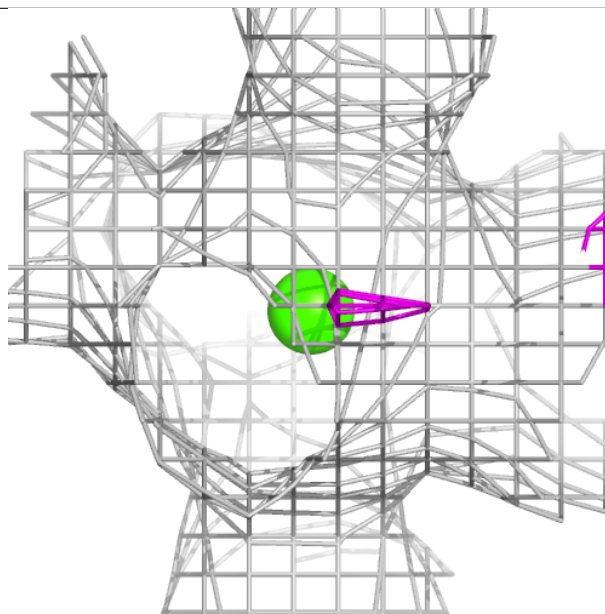
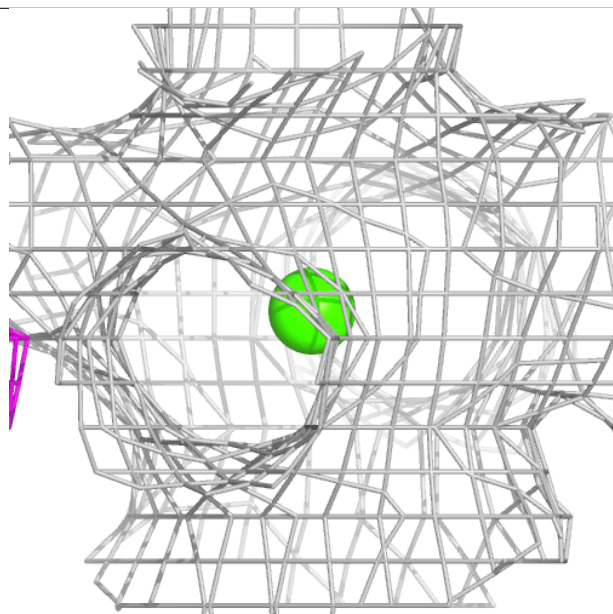
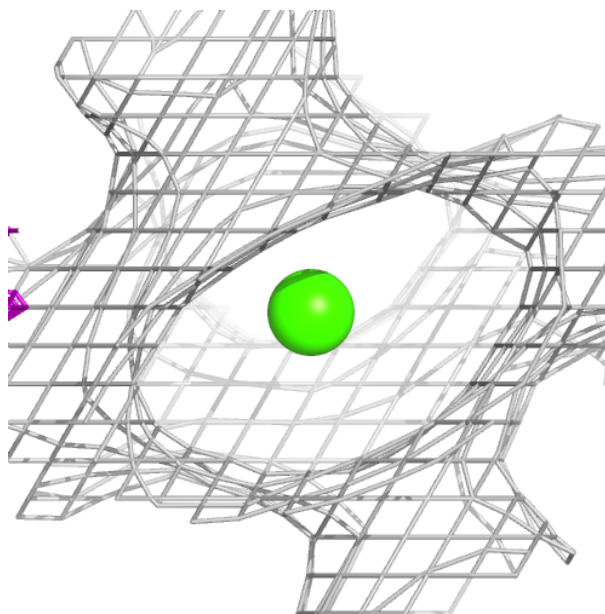
Electron density around CA E 203:

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and green (positive)



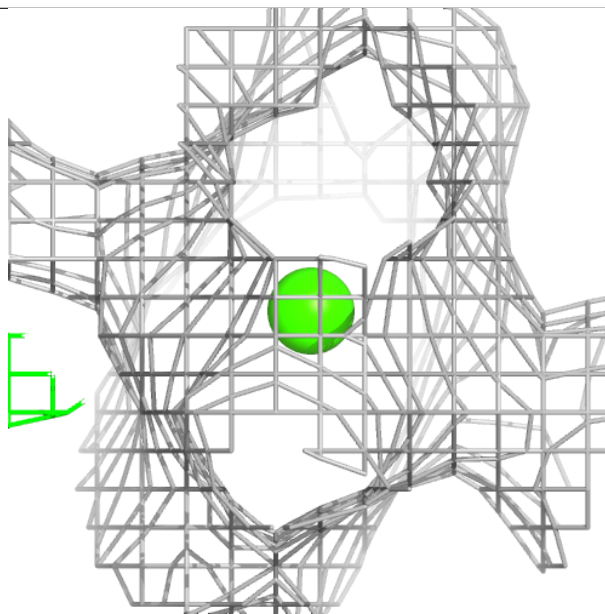
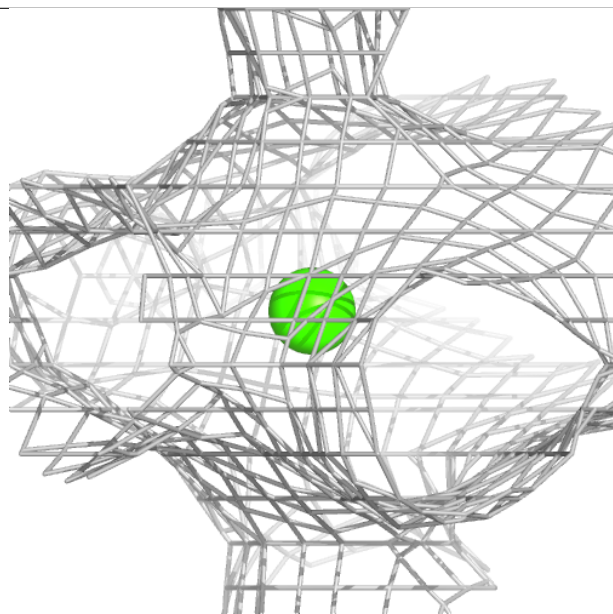
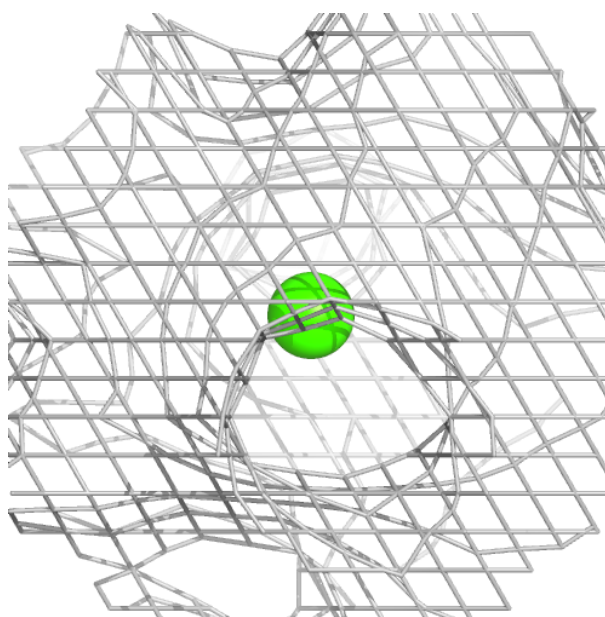
Electron density around CA F 203:

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



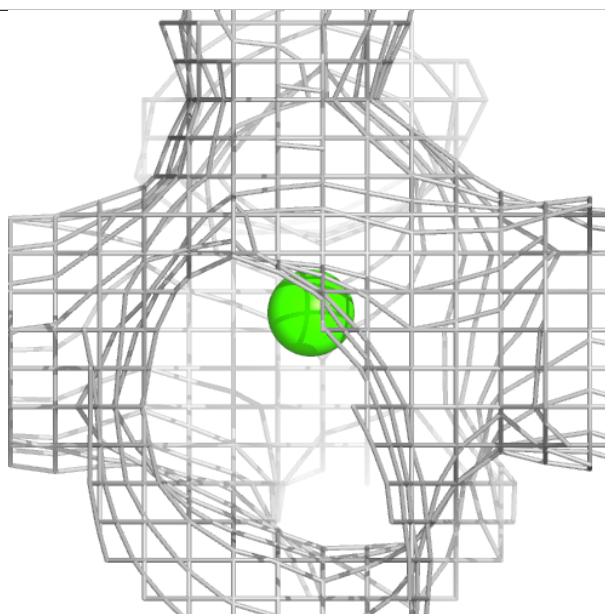
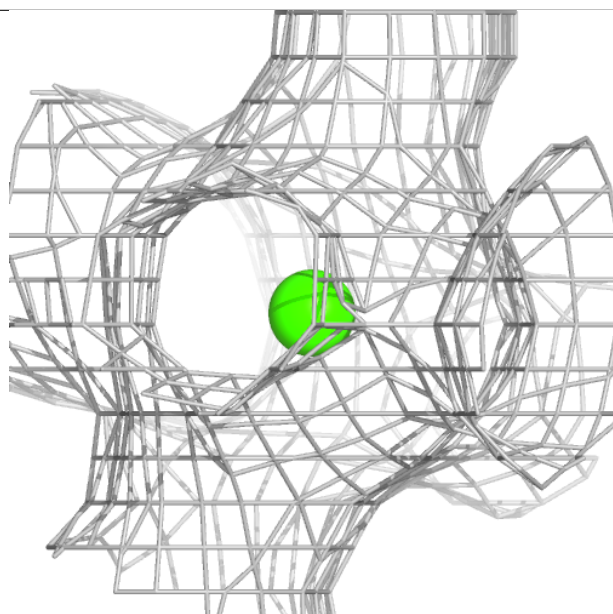
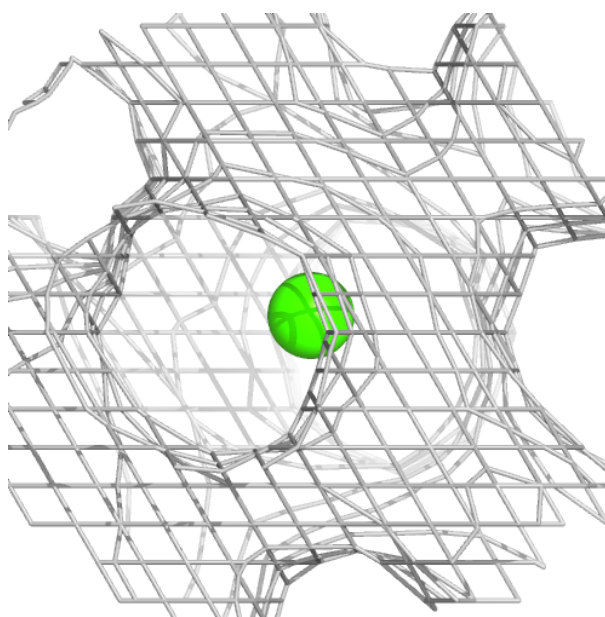
Electron density around CA G 203:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



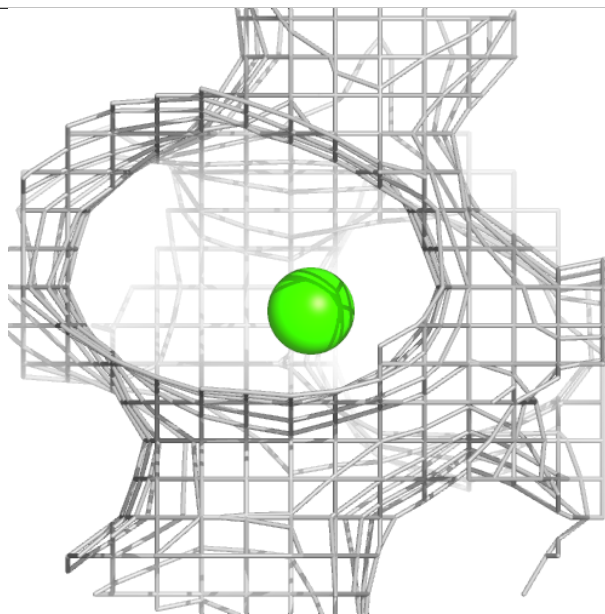
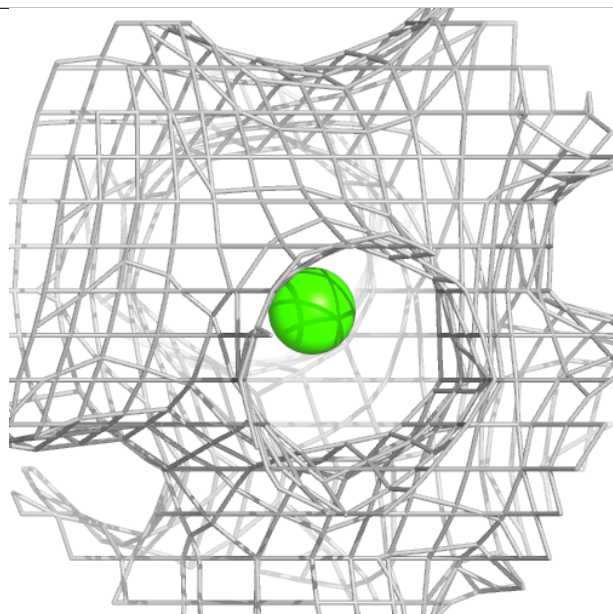
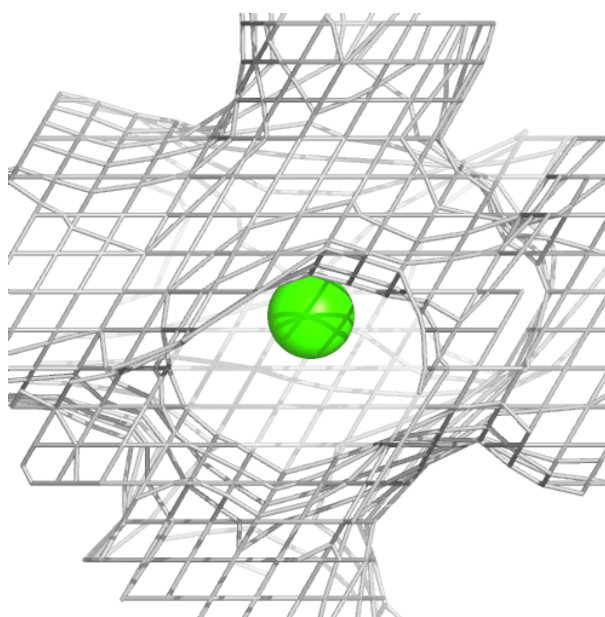
Electron density around CA H 203:

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



Electron density around CA A 203:

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



6.5 Other polymers [i](#)

There are no such residues in this entry.