



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:23 PM UTC

PDB ID : 9EBZ / pdb_00009ebz
Title : Escherichia coli Carbonic Anhydrase 2 in Space Group C222(1)
Authors : Rankin, M.R.; Smith, J.L.
Deposited on : 2024-11-13
Resolution : 2.66 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

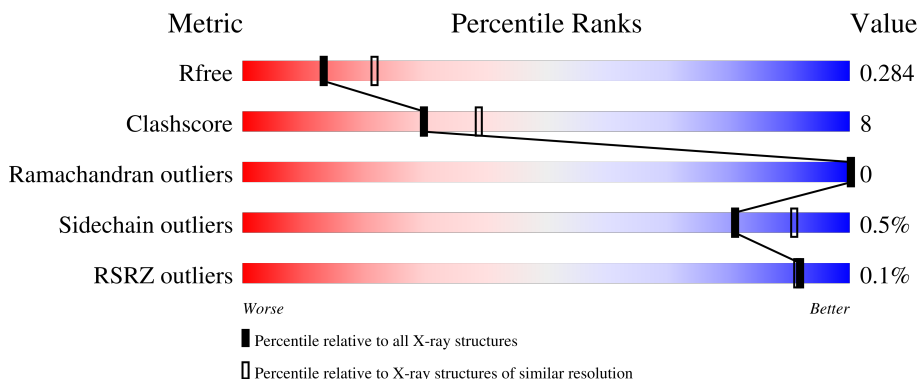
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.66 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	1110 (2.66-2.66)
Clashscore	190562	1141 (2.66-2.66)
Ramachandran outliers	187476	1126 (2.66-2.66)
Sidechain outliers	187428	1126 (2.66-2.66)
RSRZ outliers	180081	1110 (2.66-2.66)

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	220	 77% 19% .
1	B	220	 80% 17% .
1	C	220	 73% 24% .
1	D	220	 77% 19% .

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6831 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 Carbonic anhydrase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	213	Total	C	N	O	S	0	0	0
			1706	1081	304	312	9			
1	B	213	Total	C	N	O	S	0	0	0
			1706	1081	304	312	9			
1	C	213	Total	C	N	O	S	0	0	0
			1706	1080	304	312	10			
1	D	213	Total	C	N	O	S	0	0	0
			1706	1081	304	312	9			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

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

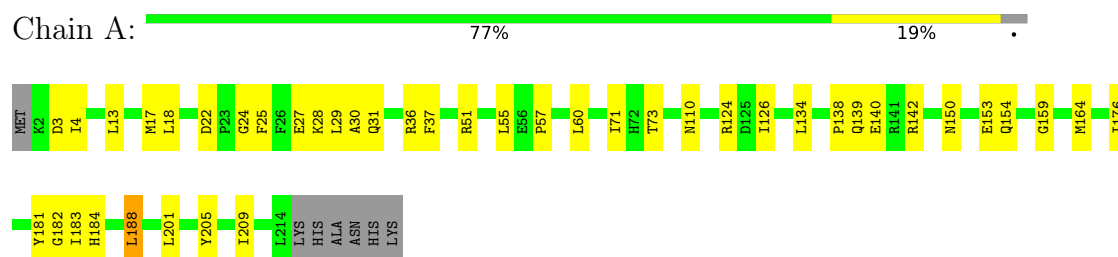
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	O	0	0
			1	1		
3	C	2	Total	O	0	0
			2	2		

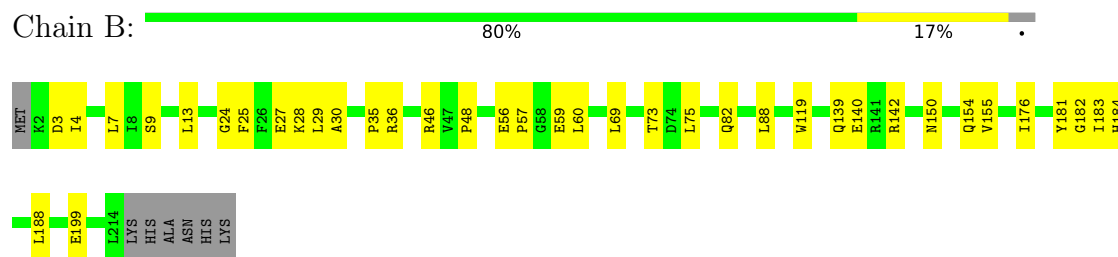
3 Residue-property plots

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.

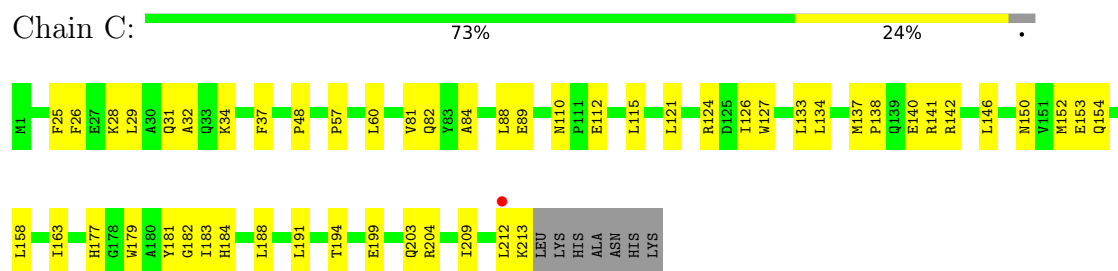
• Molecule 1: Carbonic anhydrase



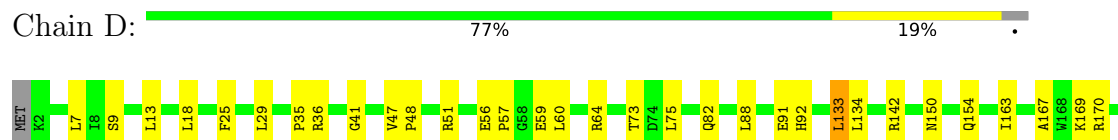
• Molecule 1: Carbonic anhydrase



• Molecule 1: Carbonic anhydrase



• Molecule 1: Carbonic anhydrase



H177	G178	W179	A180	Y181	G182	I183	L188	E199	T200	R204	H207	G208	K213	L214	LYS	HIS	ALA	ASN	HIS	LYS
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	113.23Å 119.14Å 161.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.89 – 2.66 47.89 – 2.66	Depositor EDS
% Data completeness (in resolution range)	99.6 (47.89-2.66) 86.3 (47.89-2.66)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.49 (at 2.65Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.261 , 0.287 0.260 , 0.284	Depositor DCC
R_{free} test set	2003 reflections (4.69%)	wwPDB-VP
Wilson B-factor (Å ²)	63.7	Xtriage
Anisotropy	0.604	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 43.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.078 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6831	wwPDB-VP
Average B, all atoms (Å ²)	82.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.54% 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: ZN

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	0.18	0/1743	0.38	0/2365
1	B	0.29	0/1743	0.41	0/2365
1	C	0.25	0/1743	0.39	0/2364
1	D	0.18	0/1743	0.38	0/2365
All	All	0.23	0/6972	0.39	0/9459

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 [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	1706	0	1686	34	0
1	B	1706	0	1686	33	0
1	C	1706	0	1687	38	0
1	D	1706	0	1686	34	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	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	2	0	0	0	0
All	All	6831	0	6745	115	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 8.

All (115) 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:C:25:PHE:HA	1:C:28:LYS:HD2	1.62	0.81
1:C:181:TYR:HB3	1:C:188:LEU:HD23	1.65	0.78
1:A:183:ILE:HG23	1:D:29:LEU:HB3	1.64	0.77
1:B:25:PHE:HA	1:B:28:LYS:HD2	1.67	0.76
1:B:48:PRO:HD3	1:C:57:PRO:HB3	1.67	0.75
1:C:133:LEU:HD12	1:C:213:LYS:HD2	1.69	0.73
1:B:30:ALA:HA	1:C:183:ILE:HD12	1.73	0.70
1:A:139:GLN:HA	1:A:142:ARG:HD3	1.77	0.67
1:B:155:VAL:HG13	1:B:176:ILE:HG21	1.75	0.67
1:B:35:PRO:HG2	1:B:88:LEU:HD13	1.77	0.67
1:B:7:LEU:HD11	1:C:37:PHE:CZ	2.30	0.66
1:B:155:VAL:HG13	1:B:176:ILE:CG2	2.26	0.66
1:C:26:PHE:HA	1:C:29:LEU:HD12	1.77	0.66
1:D:181:TYR:HB3	1:D:188:LEU:HD23	1.80	0.63
1:A:29:LEU:HD23	1:D:47:VAL:HG22	1.81	0.61
1:A:126:ILE:HD12	1:A:153:GLU:HG3	1.83	0.60
1:A:183:ILE:CG2	1:D:29:LEU:HB3	2.31	0.60
1:A:181:TYR:HB3	1:A:188:LEU:HD13	1.84	0.59
1:A:24:GLY:C	1:A:28:LYS:HZ3	2.09	0.59
1:C:152:MET:HE1	1:C:212:LEU:HD11	1.85	0.58
1:C:126:ILE:HD12	1:C:153:GLU:HG3	1.85	0.58
1:A:25:PHE:HA	1:A:28:LYS:HD2	1.85	0.58
1:B:182:GLY:HA3	1:B:184:HIS:CE1	2.38	0.58
1:C:152:MET:HE2	1:C:191:LEU:HB3	1.85	0.57
1:D:134:LEU:O	1:D:142:ARG:NE	2.37	0.57
1:C:127:TRP:CE3	1:C:146:LEU:HD22	2.40	0.56
1:B:181:TYR:HB3	1:B:188:LEU:HD23	1.87	0.56
1:A:164:MET:HE2	1:A:176:ILE:HD11	1.89	0.55
1:A:57:PRO:HG3	1:D:51:ARG:NH1	2.21	0.55
1:C:209:ILE:O	1:C:213:LYS:HG2	2.08	0.54
1:D:199:GLU:OE1	1:D:199:GLU:N	2.38	0.54
1:C:150:ASN:O	1:C:154:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:139:GLN:HA	1:B:142:ARG:HD2	1.89	0.53
1:A:150:ASN:O	1:A:154:GLN:HG2	2.10	0.51
1:C:134:LEU:HA	1:C:137:MET:HE2	1.93	0.51
1:A:51:ARG:HH12	1:D:57:PRO:HD3	1.74	0.51
1:A:134:LEU:O	1:A:142:ARG:NE	2.44	0.51
1:B:4:ILE:HG13	1:C:177:HIS:CE1	2.46	0.50
1:C:37:PHE:HB2	1:C:60:LEU:HD23	1.93	0.50
1:D:150:ASN:O	1:D:154:GLN:HG2	2.12	0.50
1:C:127:TRP:HE3	1:C:146:LEU:HD22	1.75	0.50
1:B:4:ILE:HG23	1:C:179:TRP:HZ2	1.76	0.49
1:B:82:GLN:HG3	1:C:115:LEU:HB3	1.94	0.49
1:A:110:ASN:HB2	1:A:124:ARG:NH1	2.28	0.49
1:B:183:ILE:O	1:C:26:PHE:HB3	2.12	0.49
1:C:182:GLY:HA3	1:C:184:HIS:CE1	2.47	0.49
1:A:4:ILE:HG23	1:D:179:TRP:HZ2	1.78	0.49
1:A:57:PRO:HG3	1:D:51:ARG:HH11	1.77	0.48
1:A:138:PRO:HB2	1:A:140:GLU:CD	2.38	0.48
1:C:140:GLU:CD	1:C:140:GLU:H	2.21	0.48
1:A:18:LEU:HD13	1:A:25:PHE:CD2	2.47	0.48
1:C:194:THR:O	1:C:204:ARG:HG3	2.13	0.48
1:C:121:LEU:HD23	1:C:124:ARG:HD3	1.95	0.48
1:C:34:LYS:HD3	1:C:88:LEU:HA	1.93	0.48
1:A:4:ILE:HG13	1:D:177:HIS:CE1	2.49	0.48
1:B:75:LEU:HD23	1:D:73:THR:HA	1.95	0.48
1:B:56:GLU:HG2	1:B:59:GLU:CD	2.39	0.48
1:C:84:ALA:O	1:C:89:GLU:N	2.47	0.47
1:A:182:GLY:HA3	1:A:184:HIS:CE1	2.49	0.47
1:C:82:GLN:HB2	1:C:163:ILE:HD13	1.96	0.47
1:D:36:ARG:HG3	1:D:91:GLU:HG3	1.95	0.47
1:B:29:LEU:O	1:B:30:ALA:C	2.58	0.47
1:A:159:GLY:HA3	1:A:201:LEU:HD22	1.97	0.47
1:C:134:LEU:O	1:C:142:ARG:NE	2.42	0.47
1:D:133:LEU:HD12	1:D:213:LYS:HD2	1.97	0.47
1:D:56:GLU:HG2	1:D:59:GLU:OE2	2.15	0.47
1:A:27:GLU:O	1:A:31:GLN:HG3	2.15	0.47
1:A:30:ALA:HA	1:D:183:ILE:HD12	1.96	0.47
1:B:3:ASP:CG	1:B:4:ILE:H	2.23	0.46
1:D:35:PRO:HG2	1:D:88:LEU:HD13	1.96	0.46
1:B:199:GLU:OE1	1:B:199:GLU:N	2.42	0.46
1:D:48:PRO:HD2	1:D:51:ARG:HD2	1.97	0.46
1:C:31:GLN:O	1:C:32:ALA:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:28:LYS:O	1:C:29:LEU:C	2.58	0.46
1:D:200:THR:O	1:D:204:ARG:HG2	2.16	0.45
1:A:140:GLU:CD	1:A:140:GLU:H	2.14	0.45
1:B:60:LEU:HD23	1:B:60:LEU:HA	1.84	0.45
1:A:18:LEU:O	1:A:22:ASP:N	2.49	0.45
1:C:199:GLU:O	1:C:203:GLN:HG3	2.17	0.45
1:D:56:GLU:HG2	1:D:59:GLU:CD	2.43	0.44
1:A:3:ASP:H	1:D:36:ARG:HH22	1.66	0.43
1:A:71:ILE:HG22	1:A:73:THR:H	1.83	0.43
1:B:73:THR:HA	1:D:75:LEU:HD23	1.98	0.43
1:B:3:ASP:CG	1:B:4:ILE:N	2.76	0.43
1:D:36:ARG:NH1	1:D:92:HIS:CD2	2.86	0.43
1:C:138:PRO:HD2	1:C:141:ARG:HD3	2.01	0.43
1:A:55:LEU:HD21	1:D:7:LEU:HD21	2.01	0.43
1:C:110:ASN:HB2	1:C:124:ARG:NH1	2.34	0.43
1:B:140:GLU:H	1:B:140:GLU:CD	2.25	0.42
1:D:41:GLY:O	1:D:64:ARG:HA	2.19	0.42
1:D:60:LEU:HA	1:D:60:LEU:HD23	1.82	0.42
1:D:82:GLN:HB2	1:D:163:ILE:HD13	2.00	0.42
1:B:9:SER:O	1:B:13:LEU:HG	2.19	0.42
1:B:69:LEU:HD12	1:B:119:TRP:NE1	2.34	0.42
1:D:18:LEU:HD13	1:D:25:PHE:CD2	2.55	0.42
1:D:167:ALA:HA	1:D:170:ARG:HG2	2.02	0.42
1:B:155:VAL:HG13	1:B:176:ILE:HG22	2.00	0.42
1:A:205:TYR:O	1:A:209:ILE:HG12	2.19	0.42
1:A:51:ARG:NH1	1:D:57:PRO:HG3	2.35	0.42
1:C:112:GLU:OE1	1:D:169:LYS:HE2	2.20	0.42
1:A:13:LEU:O	1:A:17:MET:HG2	2.20	0.42
1:B:46:ARG:O	1:C:57:PRO:HB2	2.20	0.42
1:B:150:ASN:O	1:B:154:GLN:HG2	2.20	0.42
1:D:207:HIS:O	1:D:208:GLY:C	2.63	0.41
1:B:24:GLY:O	1:B:28:LYS:HG3	2.20	0.41
1:A:138:PRO:HB2	1:A:140:GLU:OE2	2.20	0.41
1:B:27:GLU:O	1:B:30:ALA:HB3	2.21	0.41
1:B:56:GLU:O	1:B:59:GLU:HG2	2.20	0.41
1:B:57:PRO:HB3	1:C:48:PRO:HD3	2.03	0.41
1:C:81:VAL:HG11	1:C:158:LEU:HD11	2.02	0.41
1:D:9:SER:O	1:D:13:LEU:HG	2.21	0.41
1:A:25:PHE:O	1:A:29:LEU:HD13	2.21	0.40
1:B:75:LEU:HD12	1:B:75:LEU:HA	1.89	0.40
1:A:37:PHE:HB2	1:A:60:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:60:LEU:HD23	1:C:60:LEU:HA	1.81	0.40

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	211/220 (96%)	207 (98%)	4 (2%)	0	100	100
1	B	211/220 (96%)	205 (97%)	6 (3%)	0	100	100
1	C	211/220 (96%)	205 (97%)	6 (3%)	0	100	100
1	D	211/220 (96%)	204 (97%)	7 (3%)	0	100	100
All	All	844/880 (96%)	821 (97%)	23 (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	186/192 (97%)	184 (99%)	2 (1%)	65	80
1	B	186/192 (97%)	185 (100%)	1 (0%)	81	91
1	C	186/192 (97%)	186 (100%)	0	100	100
1	D	186/192 (97%)	185 (100%)	1 (0%)	81	91

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	744/768 (97%)	740 (100%)	4 (0%)	81	91

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	ARG
1	A	188	LEU
1	B	36	ARG
1	D	133	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	72	HIS
1	B	117	ASN
1	B	203	GLN
1	C	117	ASN
1	C	139	GLN
1	C	211	ASN
1	D	68	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 4 ligands modelled in this entry, 4 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 [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	213/220 (96%)	-1.28	0 100 100	52, 69, 108, 121	0
1	B	213/220 (96%)	-1.28	0 100 100	48, 70, 109, 122	0
1	C	213/220 (96%)	-1.16	1 (0%) 87 85	60, 88, 117, 126	0
1	D	213/220 (96%)	-1.11	0 100 100	61, 88, 115, 127	0
All	All	852/880 (96%)	-1.21	1 (0%) 92 91	48, 79, 113, 127	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	212	LEU	2.7

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.

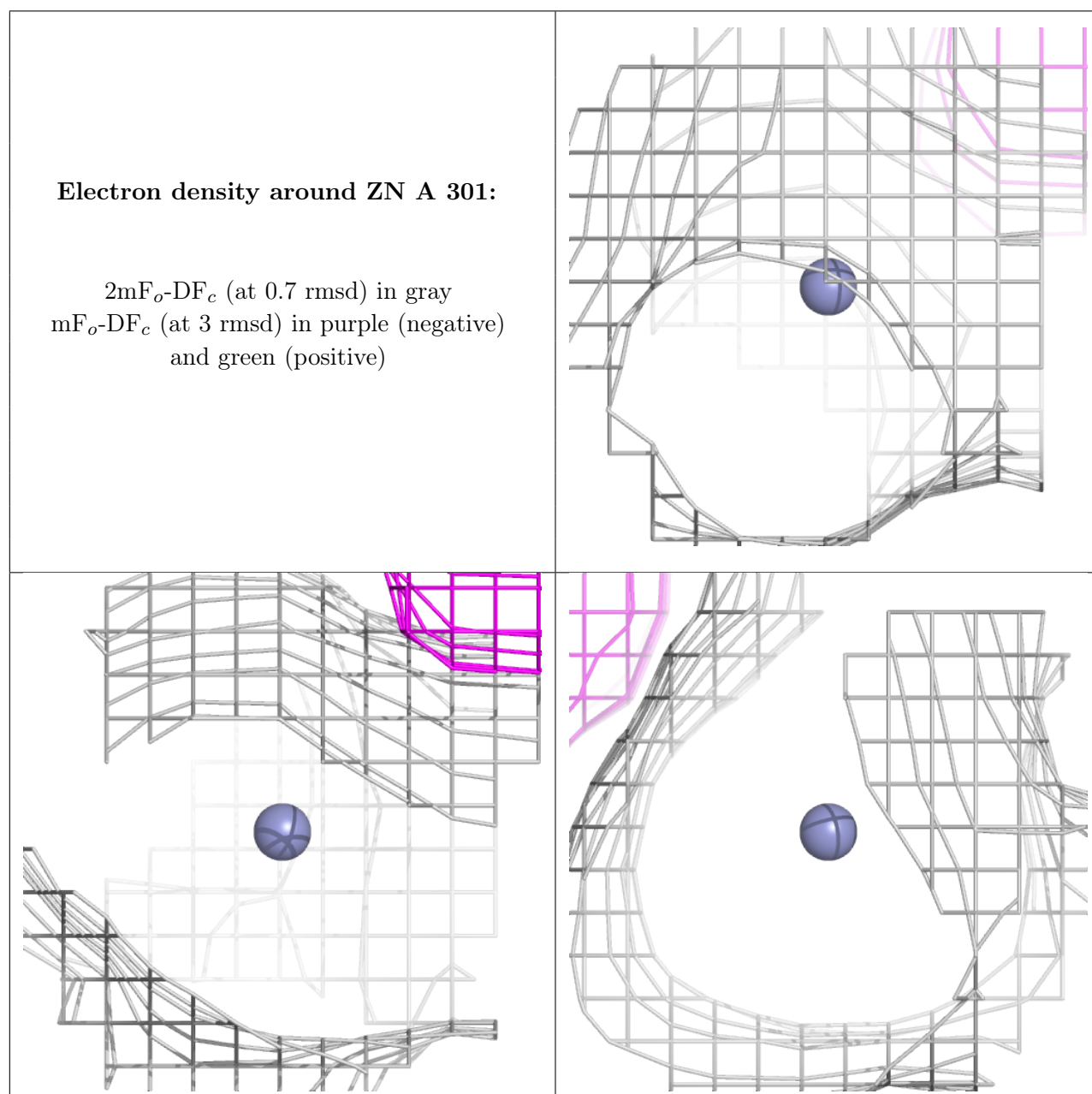
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	ZN	A	301	1/1	1.00	0.02	79,79,79,79	0

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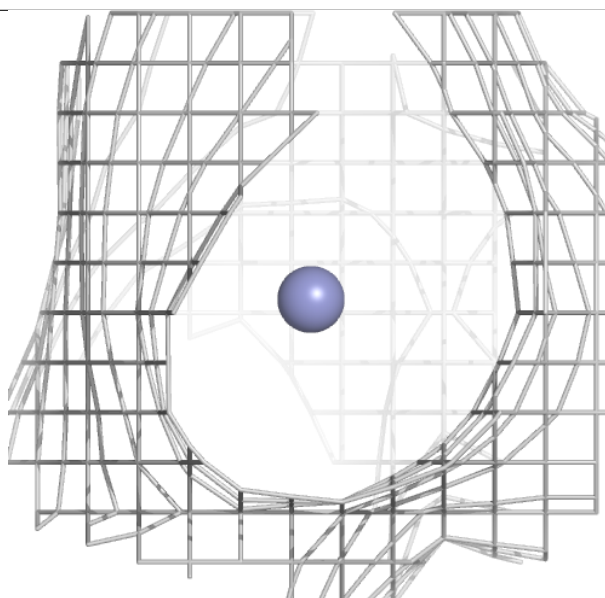
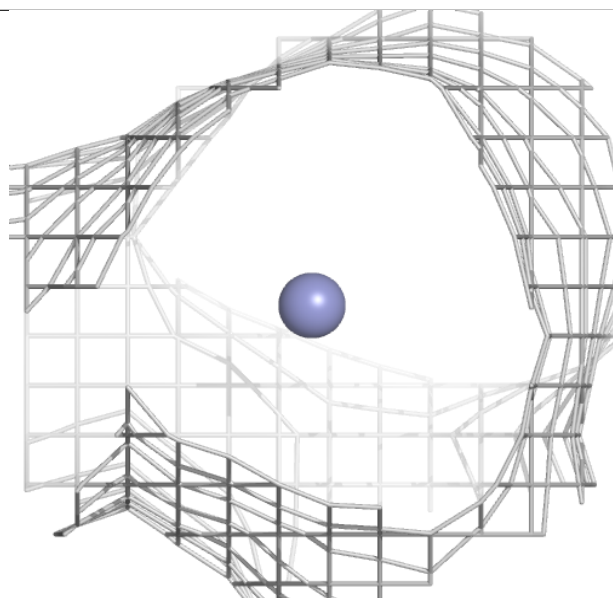
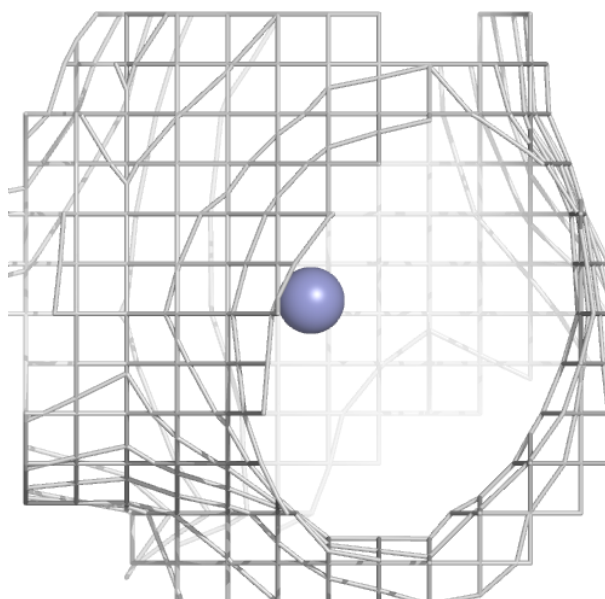
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	ZN	B	301	1/1	1.00	0.01	79,79,79,79	0
2	ZN	C	301	1/1	1.00	0.02	83,83,83,83	0
2	ZN	D	301	1/1	1.00	0.02	81,81,81,81	0

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.



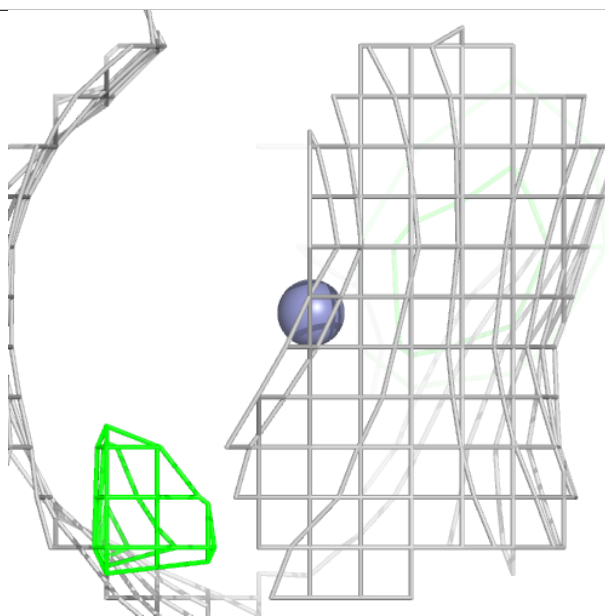
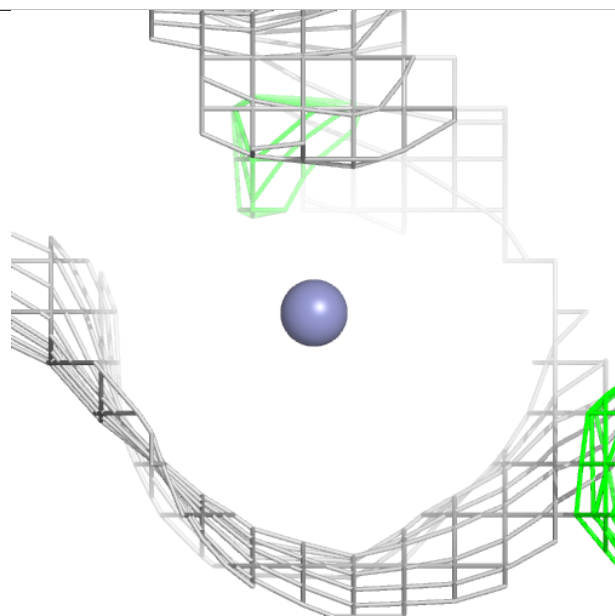
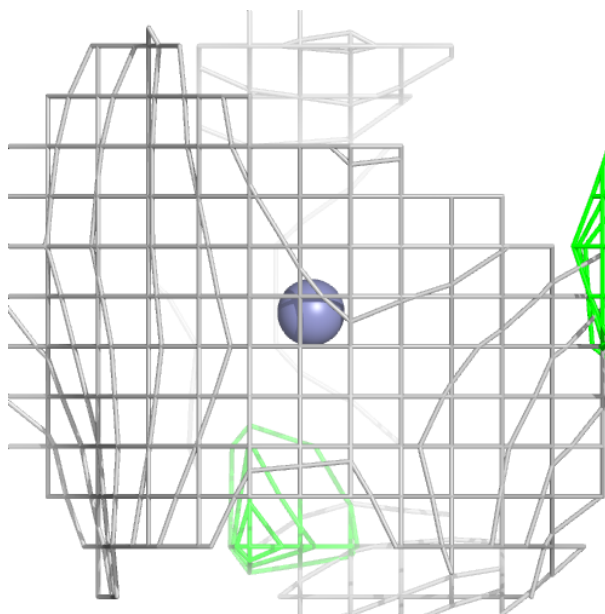
Electron density around ZN B 301:

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



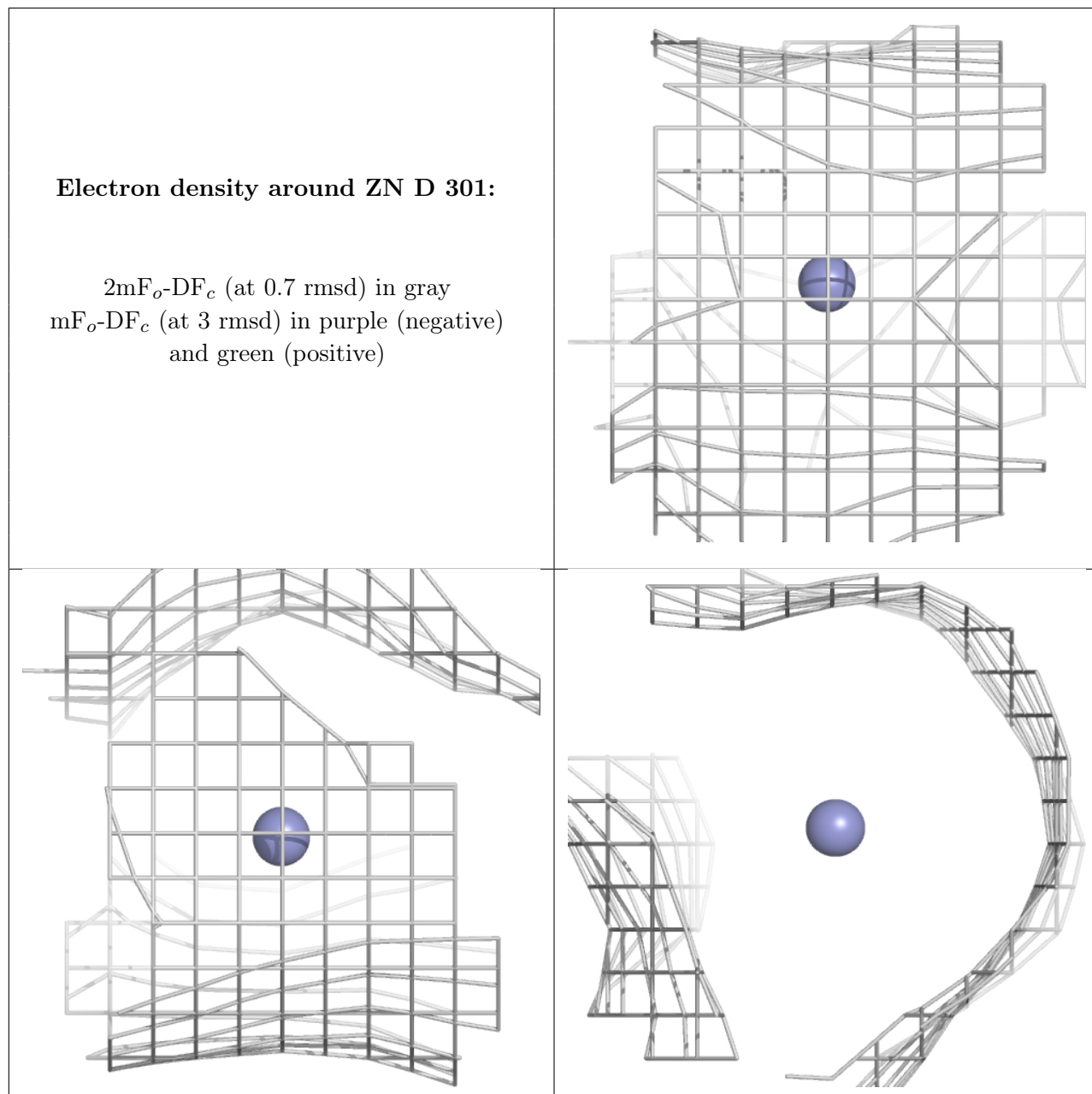
Electron density around ZN C 301:

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



Electron density around ZN D 301:

$2mF_o-DF_c$ (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.