



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 01:39 AM UTC

PDB ID : 8AVM / pdb_00008avm
Title : Mutant of Superoxide Dismutase sodfm2 from Bacteroides fragilis
Authors : Basle, A.; Barwinska-Sendra, A.; Sendra, K.M.; Waldron, K.
Deposited on : 2022-08-26
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

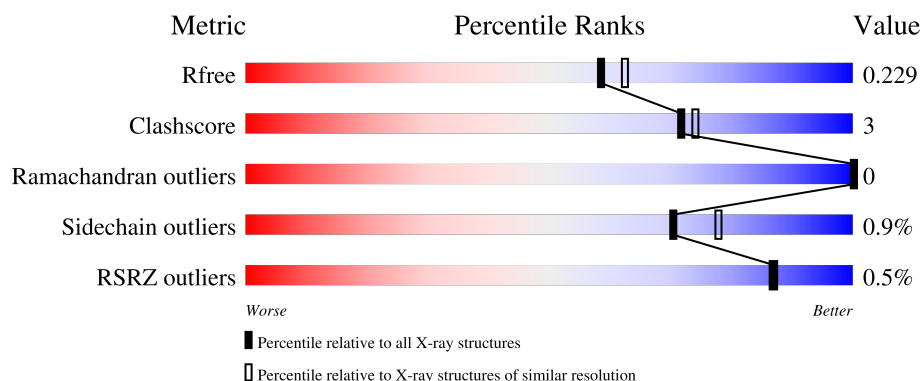
1 Overall quality at a glance

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.



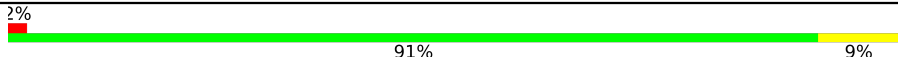
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	192	94% 6%
1	B	192	% 93% 7%
1	C	192	% 92% 8%
1	D	192	94% 6%
1	E	192	95% 5%

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Mol	Chain	Length	Quality of chain
1	F	192	 A horizontal bar chart showing the quality of chain F. The bar is divided into three segments: a small red segment at the beginning labeled '2%', a large green segment in the middle labeled '91%', and a small yellow segment at the end labeled '9%'.

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 18176 atoms, of which 8442 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 Superoxide dismutase [Fe].

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	192	Total	C	H	N	O	S	0	0	0
			2943	988	1407	260	285	3			
1	B	192	Total	C	H	N	O	S	0	0	0
			2943	988	1407	260	285	3			
1	C	192	Total	C	H	N	O	S	0	0	0
			2943	988	1407	260	285	3			
1	D	192	Total	C	H	N	O	S	0	0	0
			2943	988	1407	260	285	3			
1	E	192	Total	C	H	N	O	S	0	0	0
			2943	988	1407	260	285	3			
1	F	192	Total	C	H	N	O	S	0	0	0
			2943	988	1407	260	285	3			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP P53638
A	156	THR	GLY	engineered mutation	UNP P53638
A	157	CYS	PHE	engineered mutation	UNP P53638
B	1	MET	-	initiating methionine	UNP P53638
B	156	THR	GLY	engineered mutation	UNP P53638
B	157	CYS	PHE	engineered mutation	UNP P53638
C	1	MET	-	initiating methionine	UNP P53638
C	156	THR	GLY	engineered mutation	UNP P53638
C	157	CYS	PHE	engineered mutation	UNP P53638
D	1	MET	-	initiating methionine	UNP P53638
D	156	THR	GLY	engineered mutation	UNP P53638
D	157	CYS	PHE	engineered mutation	UNP P53638
E	1	MET	-	initiating methionine	UNP P53638
E	156	THR	GLY	engineered mutation	UNP P53638
E	157	CYS	PHE	engineered mutation	UNP P53638
F	1	MET	-	initiating methionine	UNP P53638
F	156	THR	GLY	engineered mutation	UNP P53638

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Chain	Residue	Modelled	Actual	Comment	Reference
F	157	CYS	PHE	engineered mutation	UNP P53638

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

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

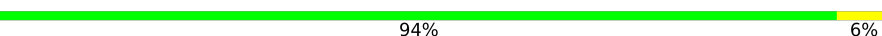
- Molecule 3 is water.

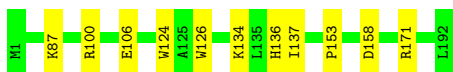
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	109	Total O 109 109	0	0
3	B	95	Total O 95 95	0	0
3	C	113	Total O 113 113	0	0
3	D	87	Total O 87 87	0	0
3	E	70	Total O 70 70	0	0
3	F	38	Total O 38 38	0	0

3 Residue-property plots [i](#)

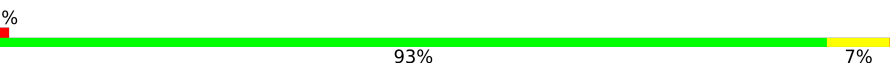
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

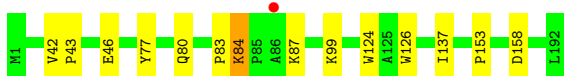
- Molecule 1: Superoxide dismutase [Fe]

Chain A: 

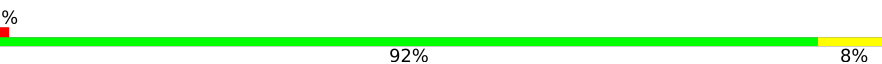


- Molecule 1: Superoxide dismutase [Fe]

Chain B: 

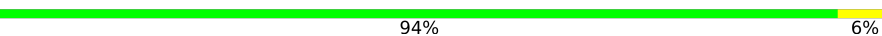


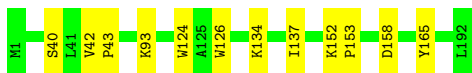
- Molecule 1: Superoxide dismutase [Fe]

Chain C: 

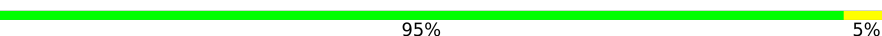


- Molecule 1: Superoxide dismutase [Fe]

Chain D: 

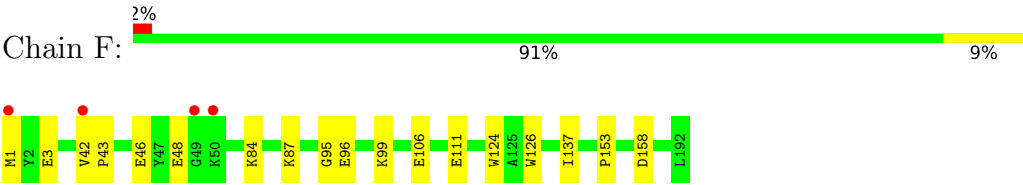


- Molecule 1: Superoxide dismutase [Fe]

Chain E: 



- Molecule 1: Superoxide dismutase [Fe]



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	79.43Å 117.11Å 139.33Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	69.00 – 2.00 69.00 – 2.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (69.00-2.00) 100.0 (69.00-2.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.66 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.8.0352	Depositor
R, R_{free}	0.193 , 0.229 0.193 , 0.229	Depositor DCC
R_{free} test set	4329 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	33.7	Xtriage
Anisotropy	0.165	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 16.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	18176	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 23.39 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.7062e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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

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	0.71	0/1580	0.97	0/2147
1	B	0.67	0/1580	0.98	1/2147 (0.0%)
1	C	0.72	0/1580	1.02	0/2147
1	D	0.70	0/1580	0.93	0/2147
1	E	0.71	0/1580	0.97	0/2147
1	F	0.66	0/1580	0.96	3/2147 (0.1%)
All	All	0.69	0/9480	0.97	4/12882 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	96	GLU	CB-CA-C	-6.39	99.99	110.85
1	F	96	GLU	N-CA-CB	5.40	118.16	110.16
1	F	3	GLU	CB-CG-CD	-5.06	103.99	112.60
1	B	46	GLU	CB-CG-CD	5.03	121.15	112.60

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	1536	1407	1491	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	1536	1407	1491	7	0
1	C	1536	1407	1491	18	0
1	D	1536	1407	1491	8	0
1	E	1536	1407	1491	6	0
1	F	1536	1407	1491	13	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
2	E	1	0	0	0	0
2	F	1	0	0	0	0
3	A	109	0	0	3	0
3	B	95	0	0	0	0
3	C	113	0	0	4	0
3	D	87	0	0	3	0
3	E	70	0	0	2	0
3	F	38	0	0	7	0
All	All	9734	8442	8946	59	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 (59) 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:152:LYS:HD3	3:C:360:HOH:O	1.43	1.19
1:A:171:ARG:NH1	3:A:301:HOH:O	1.75	1.11
1:F:46:GLU:OE1	3:F:301:HOH:O	1.73	1.04
1:A:100:ARG:HH12	1:A:134:LYS:HD3	1.25	1.01
1:E:171:ARG:NH1	3:E:301:HOH:O	2.03	0.91
1:C:50:LYS:CE	3:C:379:HOH:O	2.21	0.88
1:A:100:ARG:NH1	1:A:134:LYS:HD3	1.94	0.82
1:D:152:LYS:HD3	3:D:360:HOH:O	1.80	0.80
1:C:50:LYS:HE3	3:C:379:HOH:O	1.81	0.79
1:C:50:LYS:HE2	3:C:379:HOH:O	1.81	0.76
1:F:111:GLU:HG2	3:F:329:HOH:O	1.97	0.65
1:D:134:LYS:NZ	3:D:301:HOH:O	2.32	0.63
1:A:136:HIS:ND1	3:A:304:HOH:O	2.31	0.61
1:F:48:GLU:CG	3:F:302:HOH:O	2.51	0.59
1:C:25:TYR:CE1	1:C:29:LYS:CE	2.86	0.58
1:F:48:GLU:OE1	3:F:302:HOH:O	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:25:TYR:CE1	1:C:29:LYS:HE3	2.42	0.55
1:F:111:GLU:CG	3:F:329:HOH:O	2.52	0.55
1:A:106:GLU:HG2	3:A:383:HOH:O	2.08	0.53
1:E:99:LYS:HD2	1:E:104:SER:HA	1.90	0.53
1:F:48:GLU:HG3	3:F:302:HOH:O	2.11	0.51
1:A:126:TRP:CZ3	1:A:153:PRO:HB2	2.46	0.51
1:D:126:TRP:CZ3	1:D:153:PRO:HB2	2.46	0.51
1:E:126:TRP:CZ3	1:E:153:PRO:HB2	2.46	0.50
1:B:126:TRP:CZ3	1:B:153:PRO:HB2	2.47	0.50
1:C:126:TRP:CZ3	1:C:153:PRO:HB2	2.46	0.49
1:F:126:TRP:CZ3	1:F:153:PRO:HB2	2.48	0.49
1:C:25:TYR:CE1	1:C:29:LYS:HE2	2.48	0.48
1:B:83:PRO:O	1:B:84:LYS:HE3	2.13	0.48
1:F:106:GLU:HG2	3:F:327:HOH:O	2.13	0.48
1:C:25:TYR:HD1	1:C:29:LYS:HD2	1.79	0.47
1:C:124:TRP:CZ3	1:C:158:ASP:HB2	2.50	0.47
1:F:95:GLY:O	1:F:99:LYS:HD2	2.16	0.46
1:C:167:ASP:HB2	1:C:168:TYR:CD1	2.51	0.45
1:F:124:TRP:CZ3	1:F:158:ASP:HB2	2.51	0.45
1:D:134:LYS:CE	3:D:301:HOH:O	2.65	0.45
1:E:124:TRP:CZ3	1:E:158:ASP:HB2	2.52	0.44
1:C:25:TYR:CD1	1:C:29:LYS:HE2	2.53	0.44
1:D:124:TRP:CZ3	1:D:158:ASP:HB2	2.52	0.44
1:C:25:TYR:CD1	1:C:29:LYS:CE	3.01	0.44
1:A:124:TRP:CZ3	1:A:158:ASP:HB2	2.53	0.43
1:A:126:TRP:O	1:A:137:ILE:HA	2.17	0.43
1:B:126:TRP:O	1:B:137:ILE:HA	2.18	0.43
1:F:126:TRP:O	1:F:137:ILE:HA	2.17	0.43
1:C:126:TRP:O	1:C:137:ILE:HA	2.18	0.43
1:D:126:TRP:O	1:D:137:ILE:HA	2.19	0.43
1:B:84:LYS:HD3	1:B:84:LYS:HA	1.81	0.43
1:F:84:LYS:HE3	1:F:84:LYS:HA	2.00	0.43
1:C:25:TYR:CD1	1:C:29:LYS:HD2	2.54	0.42
1:E:126:TRP:O	1:E:137:ILE:HA	2.19	0.42
1:B:77:TYR:O	1:B:80:GLN:HG2	2.19	0.42
1:B:124:TRP:CZ3	1:B:158:ASP:HB2	2.54	0.42
1:F:42:VAL:N	1:F:43:PRO:CD	2.83	0.42
1:C:30:HIS:NE2	1:D:165:TYR:OH	2.45	0.42
1:B:42:VAL:N	1:B:43:PRO:CD	2.83	0.41
1:C:42:VAL:N	1:C:43:PRO:CD	2.84	0.41
1:E:106:GLU:HG2	3:E:356:HOH:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:38:LEU:HD12	1:C:38:LEU:HA	1.95	0.41
1:D:42:VAL:N	1:D:43:PRO:CD	2.84	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	190/192 (99%)	184 (97%)	6 (3%)	0	100	100
1	B	190/192 (99%)	184 (97%)	6 (3%)	0	100	100
1	C	190/192 (99%)	185 (97%)	5 (3%)	0	100	100
1	D	190/192 (99%)	185 (97%)	5 (3%)	0	100	100
1	E	190/192 (99%)	184 (97%)	6 (3%)	0	100	100
1	F	190/192 (99%)	184 (97%)	6 (3%)	0	100	100
All	All	1140/1152 (99%)	1106 (97%)	34 (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%)	160 (99%)	1 (1%)	78	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	161/161 (100%)	158 (98%)	3 (2%)	50	56
1	C	161/161 (100%)	160 (99%)	1 (1%)	78	85
1	D	161/161 (100%)	159 (99%)	2 (1%)	63	70
1	E	161/161 (100%)	161 (100%)	0	100	100
1	F	161/161 (100%)	159 (99%)	2 (1%)	63	70
All	All	966/966 (100%)	957 (99%)	9 (1%)	70	78

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	87	LYS
1	B	84	LYS
1	B	87	LYS
1	B	99	LYS
1	C	46	GLU
1	D	40	SER
1	D	93	LYS
1	F	1	MET
1	F	87	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	GLN
1	E	32	GLN

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 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 [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	192/192 (100%)	-0.58	0 100 100	28, 36, 56, 70	0
1	B	192/192 (100%)	-0.49	1 (0%) 87 87	26, 38, 63, 85	0
1	C	192/192 (100%)	-0.65	1 (0%) 87 87	29, 35, 49, 66	0
1	D	192/192 (100%)	-0.53	0 100 100	30, 39, 58, 75	0
1	E	192/192 (100%)	-0.48	0 100 100	32, 41, 60, 86	0
1	F	192/192 (100%)	0.05	4 (2%) 63 63	34, 49, 78, 98	0
All	All	1152/1152 (100%)	-0.45	6 (0%) 87 87	26, 39, 63, 98	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	86	ALA	3.7
1	F	42	VAL	3.4
1	F	49	GLY	3.1
1	F	50	LYS	2.5
1	F	1	MET	2.4
1	C	178	LYS	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

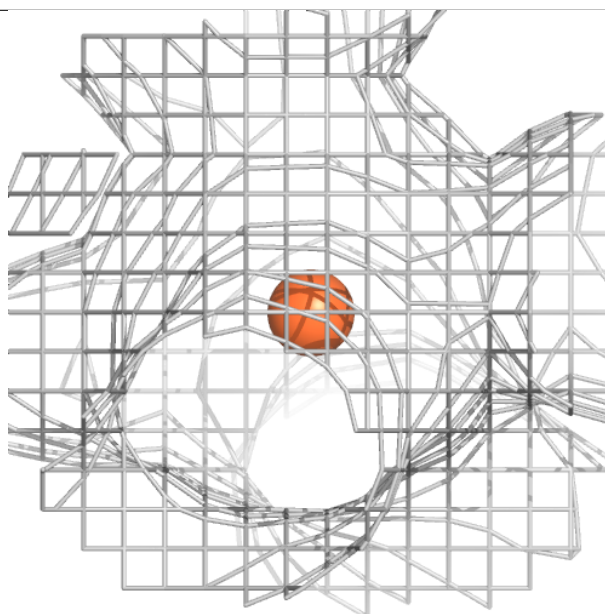
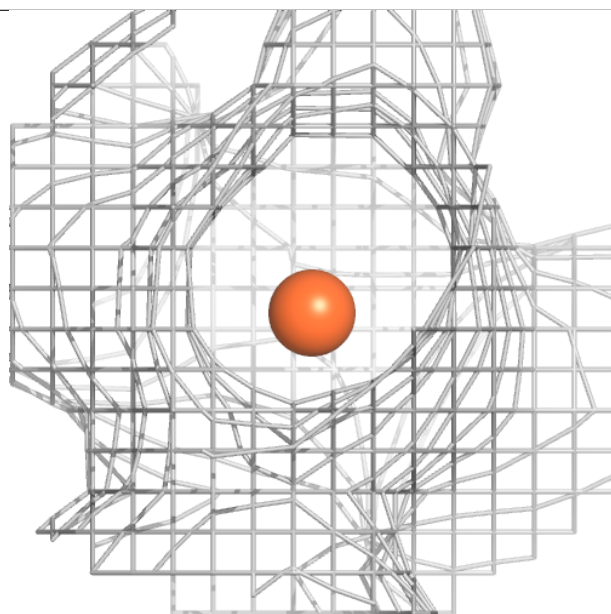
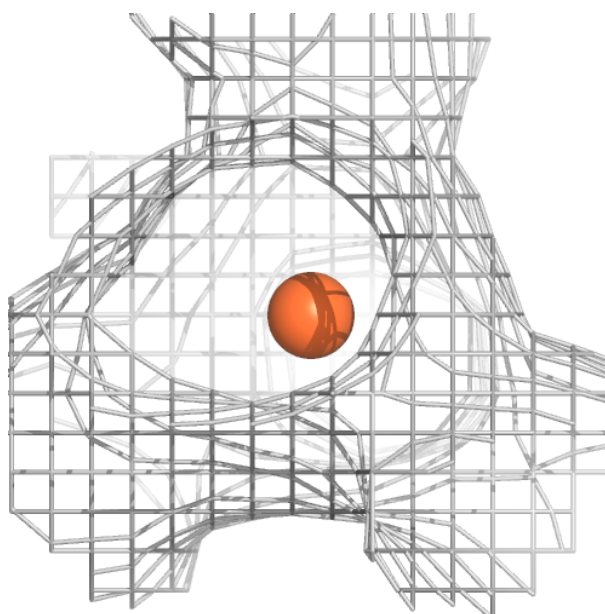
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	FE	A	201	1/1	1.00	0.01	29,29,29,29	0
2	FE	B	201	1/1	1.00	0.01	30,30,30,30	0
2	FE	C	201	1/1	1.00	0.02	30,30,30,30	0
2	FE	D	201	1/1	1.00	0.01	31,31,31,31	0
2	FE	E	201	1/1	1.00	0.02	33,33,33,33	0
2	FE	F	201	1/1	1.00	0.01	36,36,36,36	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.

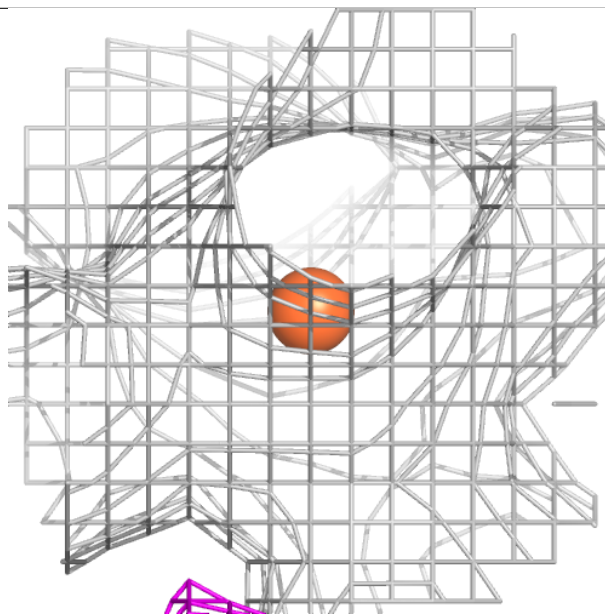
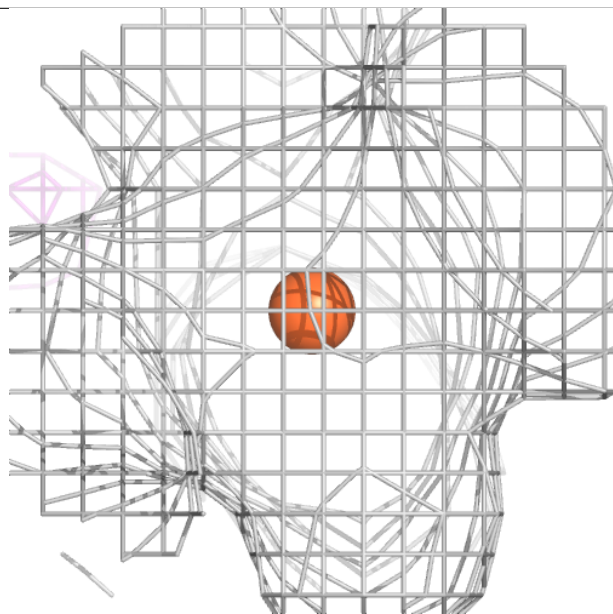
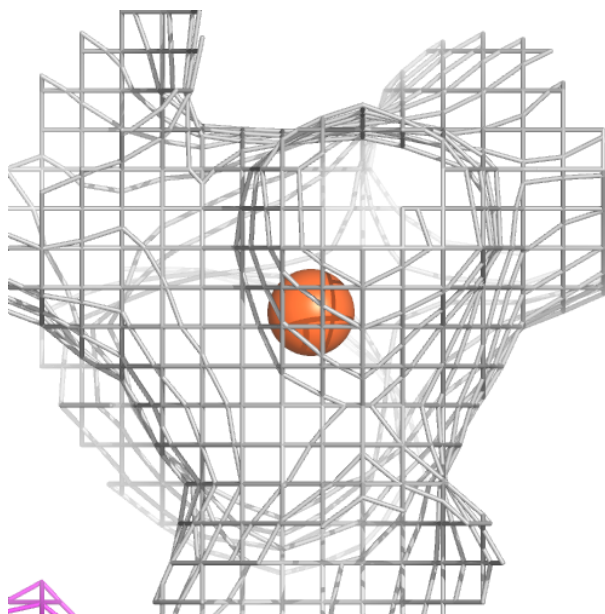
Electron density around FE A 201:

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



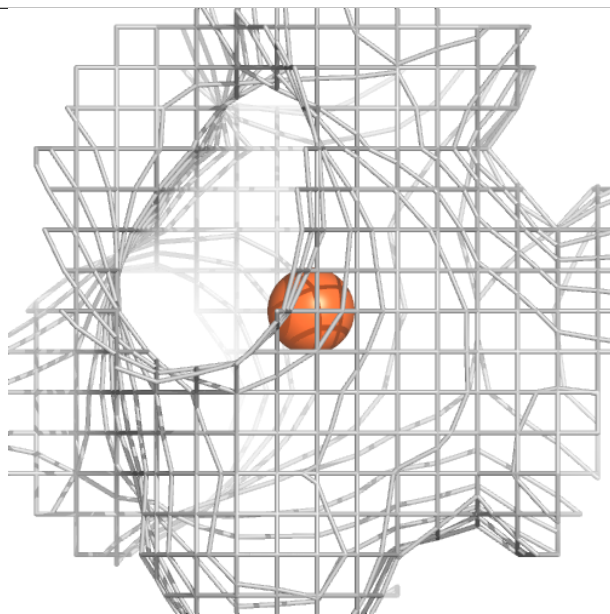
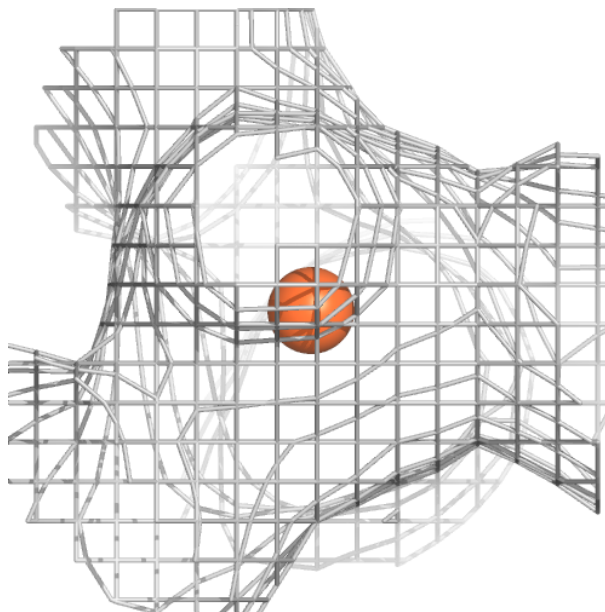
Electron density around FE B 201:

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



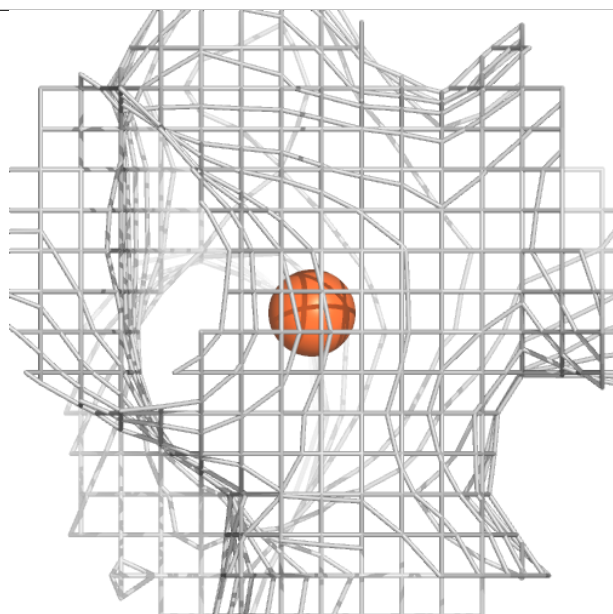
Electron density around FE C 201:

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



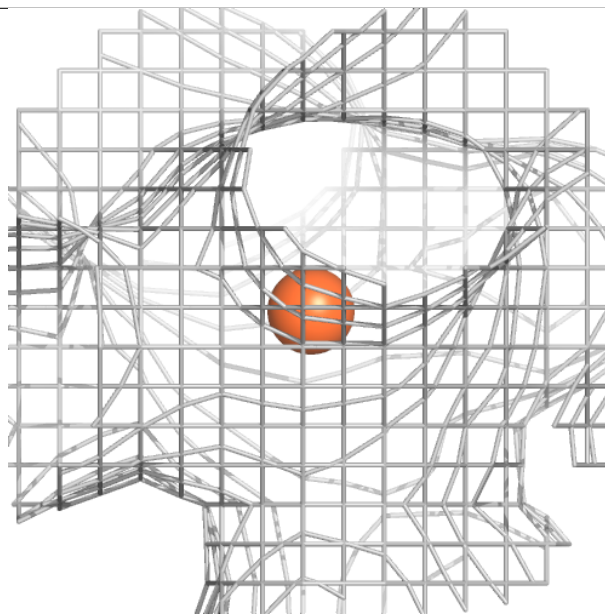
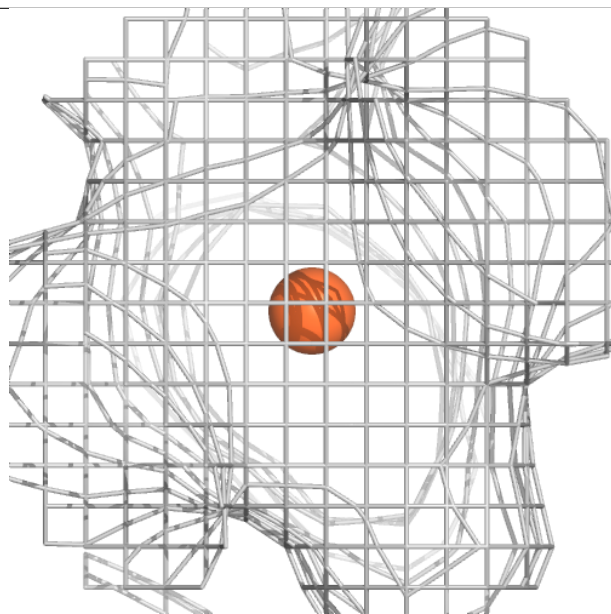
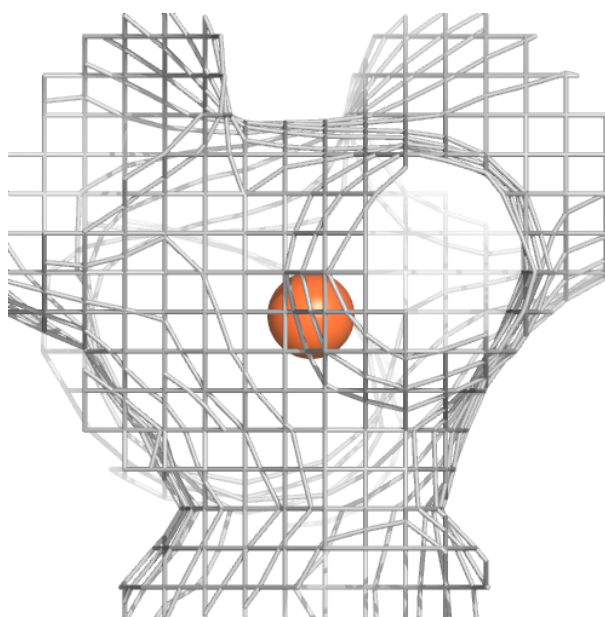
Electron density around FE D 201:

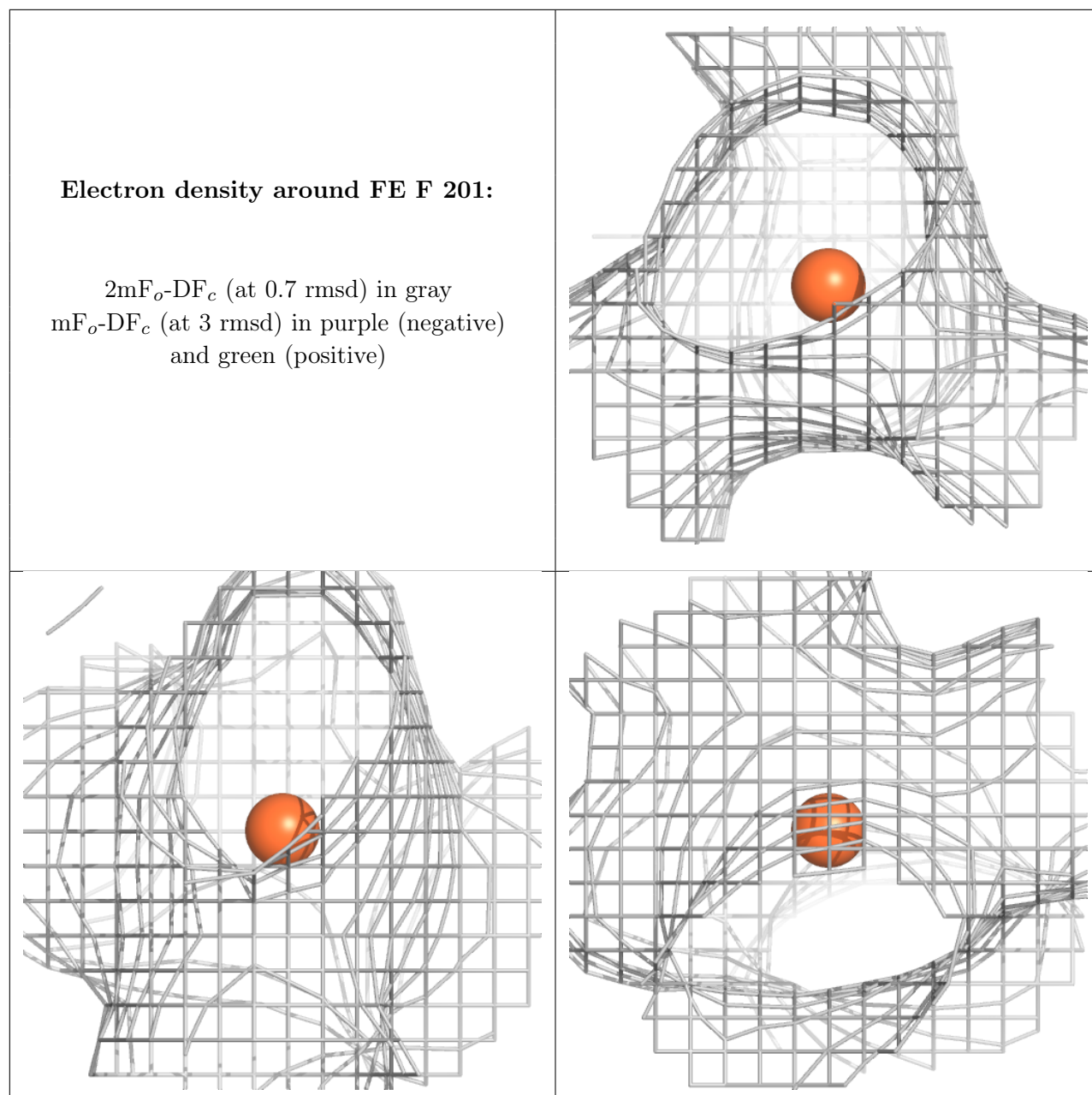
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around FE E 201:

$2mF_o-DF_c$ (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.