



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 6M2F / pdb_00006m2f
Title : Sirohydrochlorin nickelochelatase CfbA in complex with nickel-sirohydrochlorin
Authors : Fujishiro, T.
Deposited on : 2020-02-27
Resolution : 2.40 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
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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

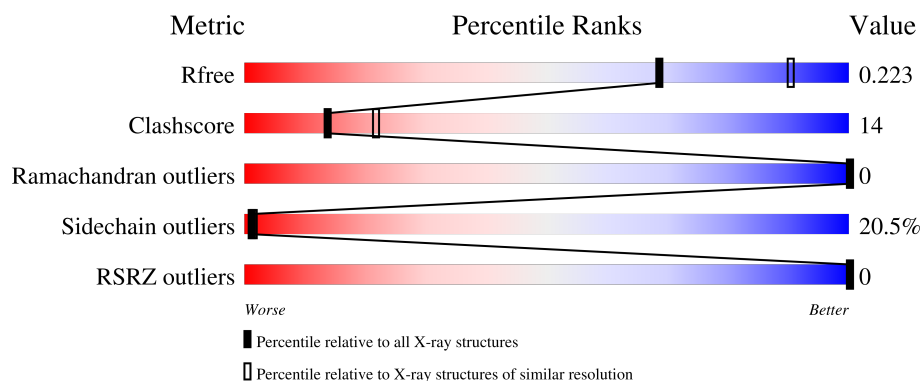
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	143	
1	B	143	

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	5	Total	O	0	0
			5	5		

4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	68.24Å 68.24Å 82.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.25 – 2.40 48.25 – 2.40	Depositor EDS
% Data completeness (in resolution range)	100.0 (48.25-2.40) 100.0 (48.25-2.40)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.10 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.190 , 0.222 0.190 , 0.223	Depositor DCC
R_{free} test set	739 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	72.1	Xtriage
Anisotropy	0.011	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 46.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.488 for h,-k,-l	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	1989	wwPDB-VP
Average B, all atoms (Å ²)	84.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.49% 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: FOL

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	0.93	2/975 (0.2%)	1.54	12/1316 (0.9%)
1	B	0.84	1/975 (0.1%)	1.55	12/1316 (0.9%)
All	All	0.89	3/1950 (0.2%)	1.55	24/2632 (0.9%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	131	ARG	NE-CZ	10.78	1.45	1.33
1	A	131	ARG	CD-NE	9.50	1.59	1.46
1	B	72	HIS	CE1-NE2	5.63	1.38	1.32

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	131	ARG	NE-CZ-NH1	14.96	136.46	121.50
1	A	131	ARG	CD-NE-CZ	9.94	138.31	124.40
1	B	131	ARG	CD-NE-CZ	9.84	138.18	124.40
1	A	131	ARG	NH1-CZ-NH2	-8.45	108.31	119.30
1	A	45	GLU	CB-CA-C	7.80	120.62	108.84
1	A	131	ARG	CG-CD-NE	-7.45	95.62	112.00
1	B	53	LYS	CB-CG-CD	7.32	128.13	111.30
1	B	131	ARG	CG-CD-NE	7.12	127.66	112.00
1	B	43	PHE	CA-CB-CG	6.46	120.26	113.80
1	A	115	PRO	CB-CA-C	-6.30	102.73	110.98
1	B	132	ILE	CA-CB-CG1	-6.03	100.15	110.40
1	B	57	GLU	CB-CG-CD	5.94	122.70	112.60
1	A	88	GLU	CB-CA-C	5.84	118.56	110.16
1	B	62	ARG	CB-CG-CD	5.74	124.49	111.30
1	A	42	GLU	CB-CG-CD	5.72	122.33	112.60
1	B	75	HIS	CB-CA-C	5.60	119.68	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	132	ILE	CA-CB-CG1	-5.47	101.11	110.40
1	B	117	ASP	CA-C-N	5.33	127.30	121.97
1	B	117	ASP	C-N-CA	5.33	127.30	121.97
1	A	75	HIS	CB-CA-C	5.27	119.16	110.88
1	A	57	GLU	CB-CG-CD	5.25	121.52	112.60
1	B	42	GLU	CA-C-N	5.25	130.79	122.61
1	B	42	GLU	C-N-CA	5.25	130.79	122.61
1	A	53	LYS	CB-CG-CD	5.22	123.30	111.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	960	0	1015	23	0
1	B	960	0	1015	38	0
2	B	63	0	0	5	0
3	A	1	0	0	0	0
3	B	5	0	0	0	0
All	All	1989	0	2030	58	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 14.

All (58) 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:9:HIS:HD2	2:B:201:F0L:C13	1.98	0.76
1:B:61:LYS:HA	1:B:118:VAL:HG22	1.68	0.76
1:B:61:LYS:HA	1:B:118:VAL:CG2	2.16	0.76
1:B:9:HIS:CD2	2:B:201:F0L:C13	2.75	0.68
1:A:126:ILE:HG21	1:A:132:ILE:HD11	1.77	0.67
1:B:29:GLU:OE1	1:B:29:GLU:HA	1.92	0.67
1:B:129:ASP:OD1	1:B:131:ARG:HG3	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:30:ARG:HG2	1:B:30:ARG:HH11	1.63	0.62
1:A:126:ILE:HG21	1:A:132:ILE:CD1	2.32	0.59
1:A:113:GLU:H	1:A:113:GLU:CD	2.11	0.58
1:B:126:ILE:HG21	1:B:132:ILE:HD11	1.86	0.58
1:B:116:GLU:HG3	1:B:117:ASP:H	1.68	0.58
1:B:126:ILE:HG21	1:B:132:ILE:CD1	2.35	0.57
1:B:30:ARG:HH11	1:B:30:ARG:CG	2.18	0.57
1:B:112:LEU:HD13	1:B:112:LEU:N	2.20	0.56
1:B:11:SER:HA	1:B:43:PHE:HE1	1.73	0.53
1:A:11:SER:HB3	2:B:201:F0L:C32	2.39	0.52
1:B:78:ARG:O	1:B:81:PRO:HD2	2.09	0.51
1:A:131:ARG:HG3	1:A:131:ARG:HH11	1.77	0.50
1:B:9:HIS:CD2	2:B:201:F0L:N14	2.80	0.50
1:B:2:GLU:O	1:B:34:PRO:HD2	2.13	0.49
1:B:114:ILE:HD12	1:B:114:ILE:O	2.13	0.49
1:A:131:ARG:HG3	1:A:131:ARG:NH1	2.28	0.49
1:B:11:SER:HA	1:B:43:PHE:CE1	2.49	0.48
1:B:61:LYS:O	1:B:118:VAL:HG22	2.14	0.47
1:A:2:GLU:O	1:A:34:PRO:HD2	2.14	0.47
1:B:126:ILE:CG2	1:B:132:ILE:HD12	2.45	0.47
1:A:114:ILE:HD13	1:A:114:ILE:O	2.15	0.46
1:B:53:LYS:CG	1:B:54:LYS:N	2.78	0.46
1:A:24:ALA:HB2	1:A:38:ILE:CG2	2.45	0.46
1:A:126:ILE:CG2	1:A:132:ILE:CD1	2.93	0.46
1:A:25:GLU:O	1:A:29:GLU:HG3	2.15	0.46
1:B:112:LEU:C	1:B:112:LEU:HD22	2.41	0.46
1:B:2:GLU:OE2	1:B:62:ARG:NH2	2.49	0.45
1:B:86:LEU:O	1:B:87:ILE:HD13	2.15	0.45
1:A:53:LYS:CG	1:A:54:LYS:N	2.79	0.45
1:B:112:LEU:N	1:B:112:LEU:CD1	2.80	0.45
1:A:78:ARG:O	1:A:81:PRO:HD2	2.16	0.45
1:A:45:GLU:HA	1:A:46:PRO:C	2.43	0.44
1:B:7:VAL:HG22	1:B:48:ILE:HG12	1.99	0.44
1:A:126:ILE:CG2	1:A:132:ILE:HD12	2.48	0.44
1:B:61:LYS:CA	1:B:118:VAL:HG22	2.45	0.43
1:A:123:ARG:HG3	1:B:139:ARG:O	2.18	0.43
1:A:135:ILE:HD11	1:B:131:ARG:HB2	2.00	0.43
1:A:70:LEU:HD23	1:A:70:LEU:HA	1.84	0.43
1:B:48:ILE:N	1:B:49:PRO:HD2	2.34	0.43
1:B:126:ILE:CG2	1:B:132:ILE:CD1	2.97	0.43
1:A:2:GLU:OE2	1:A:62:ARG:NH2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:ILE:N	1:A:81:PRO:CD	2.82	0.42
1:A:82:ARG:O	1:A:85:GLY:N	2.46	0.42
1:B:11:SER:HB3	2:B:201:F0L:C46	2.49	0.42
1:B:80:ILE:N	1:B:81:PRO:CD	2.81	0.42
1:B:86:LEU:HD12	1:B:86:LEU:HA	1.71	0.42
1:A:130:ASP:OD1	1:B:26:LYS:NZ	2.40	0.42
1:B:41:MET:HB3	1:B:41:MET:HE2	1.82	0.42
1:B:114:ILE:HD12	1:B:114:ILE:C	2.45	0.41
1:B:30:ARG:CG	1:B:30:ARG:NH1	2.79	0.41
1:A:114:ILE:HD13	1:A:114:ILE:C	2.47	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	117/143 (82%)	110 (94%)	7 (6%)	0	100	100
1	B	117/143 (82%)	107 (92%)	10 (8%)	0	100	100
All	All	234/286 (82%)	217 (93%)	17 (7%)	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	105/127 (83%)	84 (80%)	21 (20%)	1	2
1	B	105/127 (83%)	83 (79%)	22 (21%)	1	1
All	All	210/254 (83%)	167 (80%)	43 (20%)	1	1

All (43) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	7	VAL
1	A	13	LEU
1	A	19	LEU
1	A	22	LYS
1	A	27	VAL
1	A	57	GLU
1	A	74	ILE
1	A	82	ARG
1	A	86	LEU
1	A	87	ILE
1	A	88	GLU
1	A	89	ASP
1	A	112	LEU
1	A	113	GLU
1	A	114	ILE
1	A	116	GLU
1	A	131	ARG
1	A	132	ILE
1	A	133	VAL
1	A	143	ARG
1	B	1	MET
1	B	7	VAL
1	B	13	LEU
1	B	19	LEU
1	B	22	LYS
1	B	27	VAL
1	B	29	GLU
1	B	30	ARG
1	B	43	PHE
1	B	57	GLU
1	B	74	ILE
1	B	82	ARG
1	B	86	LEU
1	B	87	ILE

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Mol	Chain	Res	Type
1	B	88	GLU
1	B	112	LEU
1	B	113	GLU
1	B	118	VAL
1	B	131	ARG
1	B	132	ILE
1	B	133	VAL
1	B	143	ARG

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	58	GLN
1	B	58	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](#)

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	F0L	B	201	-	69,70,70	2.26	18 (26%)	83,112,112	2.40	22 (26%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	F0L	B	201	-	-	17/38/126/126	-

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	201	F0L	C31-C30	6.31	1.49	1.36
2	B	201	F0L	NI-N14	6.21	2.12	1.93
2	B	201	F0L	NI-N27	6.02	2.12	1.93
2	B	201	F0L	C29-C28	5.30	1.49	1.38
2	B	201	F0L	C25-C26	4.57	1.49	1.39
2	B	201	F0L	C9-C10	4.35	1.49	1.39
2	B	201	F0L	C29-C13	4.17	1.48	1.39
2	B	201	F0L	NI-N17	3.81	2.05	1.93
2	B	201	F0L	C3-N17	-3.58	1.28	1.37
2	B	201	F0L	NI-N16	3.47	2.04	1.93
2	B	201	F0L	C4-C3	3.28	1.48	1.37
2	B	201	F0L	C26-C31	3.07	1.50	1.45
2	B	201	F0L	C28-C30	2.93	1.50	1.45
2	B	201	F0L	C13-C12	2.87	1.50	1.44
2	B	201	F0L	C10-C11	2.62	1.49	1.44
2	B	201	F0L	O45-C43	2.39	1.29	1.22
2	B	201	F0L	C2-C3	-2.09	1.49	1.54
2	B	201	F0L	O39-C38	2.09	1.28	1.22

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	201	F0L	C5-C4-C3	-12.27	108.45	125.97
2	B	201	F0L	C71-C14-C19	-9.81	86.86	114.65
2	B	201	F0L	C1-C2-C60	4.15	117.79	110.74
2	B	201	F0L	C7-C8-C9	4.12	127.24	123.54
2	B	201	F0L	C6-C5-C4	3.55	130.90	123.33
2	B	201	F0L	C3-N17-C18	3.47	110.55	107.60
2	B	201	F0L	C19-C18-N17	-3.46	104.22	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	201	F0L	C41-C12-C13	3.23	131.24	124.94
2	B	201	F0L	O39-C38-C37	-3.09	113.29	123.09
2	B	201	F0L	C28-C30-C31	-3.05	103.77	106.84
2	B	201	F0L	O01-C72-C71	2.86	123.02	114.00
2	B	201	F0L	C41-C42-C43	-2.83	106.17	113.67
2	B	201	F0L	C28-N27-C26	2.77	110.48	105.25
2	B	201	F0L	C26-C31-C30	-2.72	104.09	106.84
2	B	201	F0L	C10-C11-C12	-2.71	103.97	106.81
2	B	201	F0L	O2-C72-C71	-2.65	114.68	123.09
2	B	201	F0L	C13-N14-C10	2.49	109.99	105.28
2	B	201	F0L	C36-C37-C38	-2.39	107.33	113.67
2	B	201	F0L	C13-C12-C11	-2.38	104.31	106.81
2	B	201	F0L	C33-C32-C31	-2.35	107.85	113.76
2	B	201	F0L	C4-C5-N16	-2.25	120.13	124.91
2	B	201	F0L	C36-C30-C28	2.02	128.22	124.70

There are no chirality outliers.

All (17) torsion outliers are listed below:

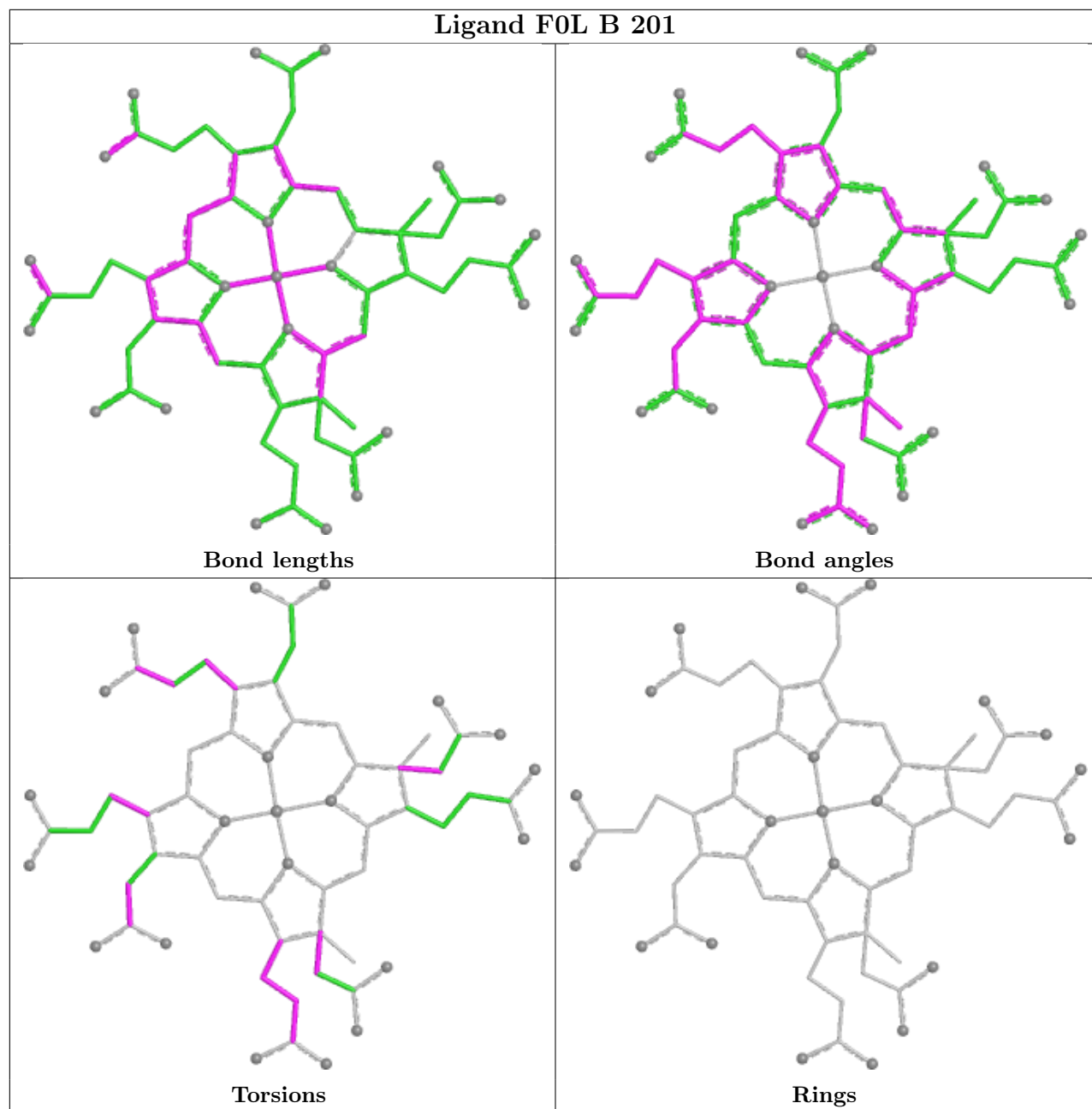
Mol	Chain	Res	Type	Atoms
2	B	201	F0L	C3-C2-C60-C61
2	B	201	F0L	C1-C2-C60-C61
2	B	201	F0L	C19-C2-C60-C61
2	B	201	F0L	C52-C51-C7-C50
2	B	201	F0L	C52-C51-C7-C8
2	B	201	F0L	C13-C12-C41-C42
2	B	201	F0L	C71-C14-C19-C18
2	B	201	F0L	C19-C14-C71-C72
2	B	201	F0L	C11-C12-C41-C42
2	B	201	F0L	C71-C14-C19-C2
2	B	201	F0L	C28-C30-C36-C37
2	B	201	F0L	C31-C30-C36-C37
2	B	201	F0L	C31-C32-C33-O35
2	B	201	F0L	C31-C32-C33-O34
2	B	201	F0L	C14-C71-C72-O01
2	B	201	F0L	C14-C71-C72-O2
2	B	201	F0L	C41-C42-C43-O44

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	201	F0L	5	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [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	121/143 (84%)	-1.35	0 100 100	49, 74, 131, 178	0
1	B	121/143 (84%)	-1.37	0 100 100	52, 74, 138, 155	0
All	All	242/286 (84%)	-1.36	0 100 100	49, 74, 143, 178	0

There are no RSRZ outliers to report.

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](#)

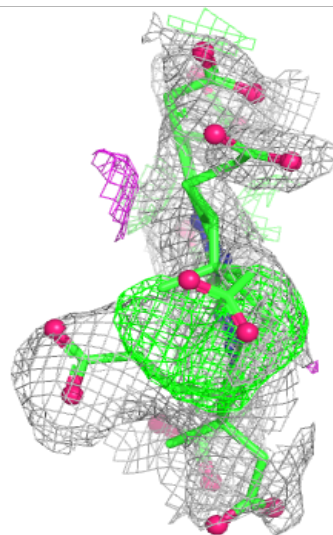
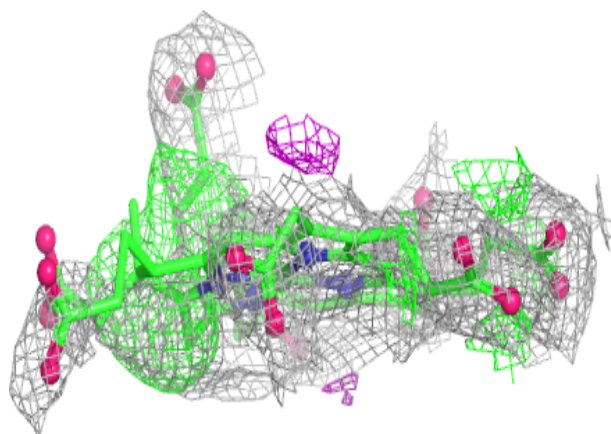
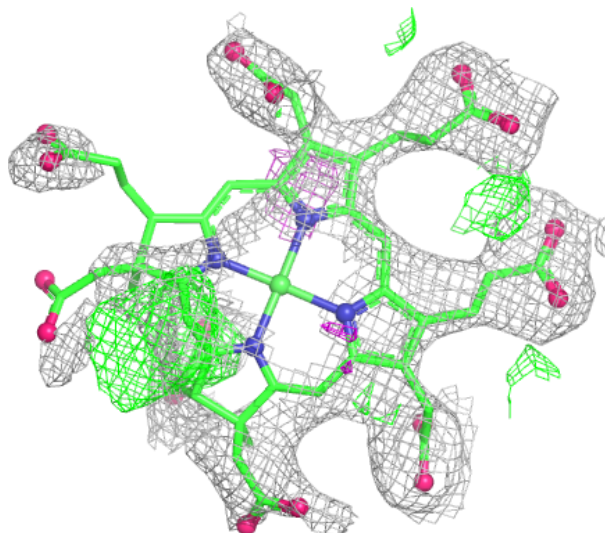
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists 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	F0L	B	201	63/63	0.98	0.07	67,160,214,225	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 F0L 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)



6.5 Other polymers [i](#)

There are no such residues in this entry.