



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 22, 2023 – 06:09 PM JST

PDB ID : 7WCL
Title : Crystal structure of FGFR1 kinase domain with Pemigatinib
Authors : Chen, X.J.; Lin, Q.M.; Jiang, L.Y.; Qu, L.Z.; Chen, Y.H.
Deposited on : 2021-12-20
Resolution : 2.50 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

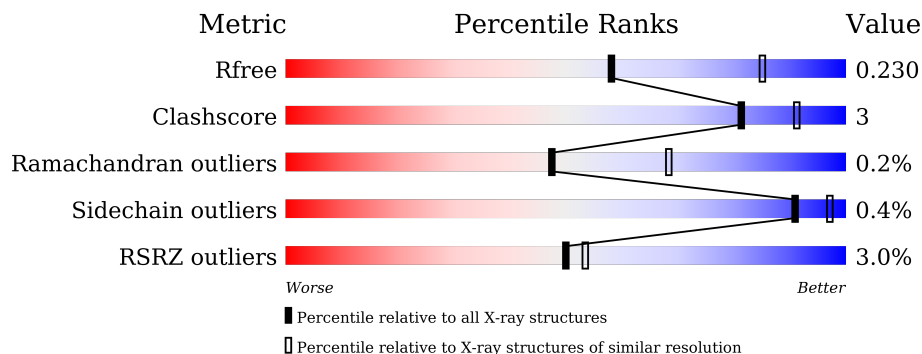
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

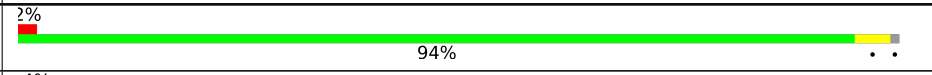

The reported resolution of this entry is 2.50 Å.

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}	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	310	 2% 94% 5% • 1%
1	B	310	 4% 87% 5% • 7%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4795 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.

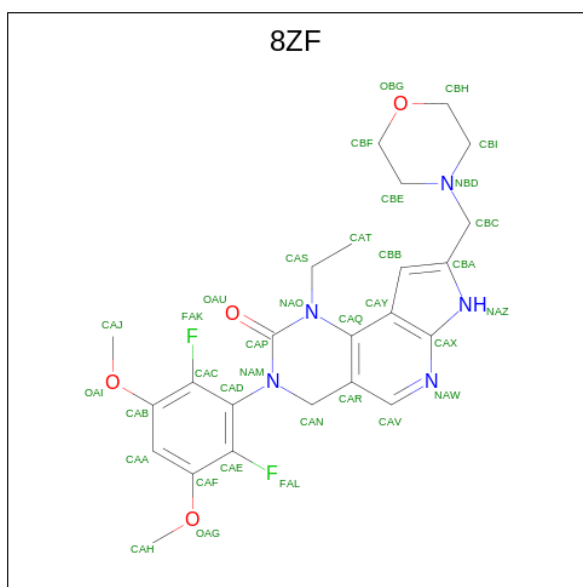
- Molecule 1 is a protein called Fibroblast growth factor receptor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	306	2389	1517	409	445	18	0	0	0
1	B	287	2216	1411	374	413	18	0	1	0

There are 6 discrepancies between the modelled and reference sequences:

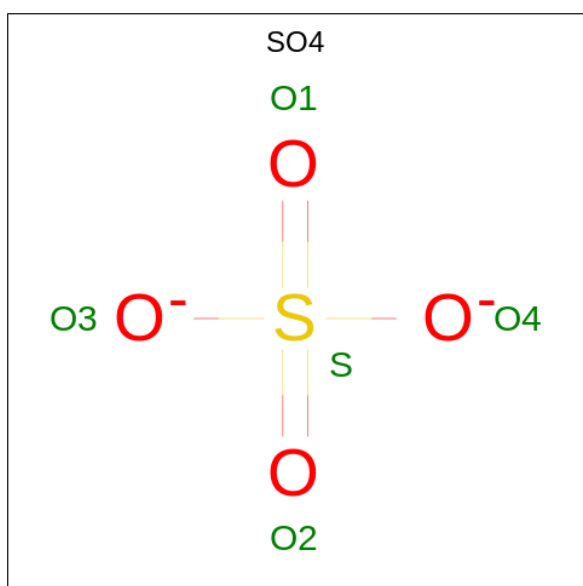
Chain	Residue	Modelled	Actual	Comment	Reference
A	456	GLY	-	expression tag	UNP P11362
A	457	PRO	-	expression tag	UNP P11362
A	584	SER	CYS	engineered mutation	UNP P11362
B	456	GLY	-	expression tag	UNP P11362
B	457	PRO	-	expression tag	UNP P11362
B	584	SER	CYS	engineered mutation	UNP P11362

- Molecule 2 is 11-[2,6-bis(fluoranyl)-3,5-dimethoxy-phenyl]-13-ethyl-4-(morpholin-4-ylmethyl)-5,7,11,13-tetraazatricyclo[7.4.0.0^{2,6}]trideca-1(9),2(6),3,7-tetraen-12-one (three-letter code: 8ZF) (formula: C₂₄H₂₇F₂N₅O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	A	1	Total	C	F	N	O	0	0
			35	24	2	5	4		
2	B	1	Total	C	F	N	O	0	0
			35	24	2	5	4		

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	54	Total	O	0	0
			54	54		
4	B	36	Total	O	0	0
			36	36		

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.

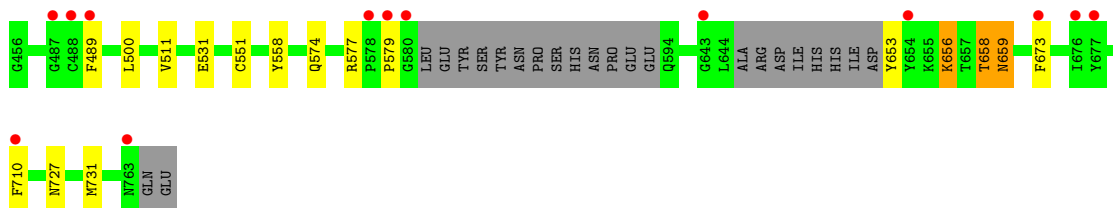
- Molecule 1: Fibroblast growth factor receptor 1

Chain A: 



- Molecule 1: Fibroblast growth factor receptor 1

Chain B: 



4 Data and refinement statistics i

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	210.83Å 49.59Å 66.80Å 90.00° 107.50° 90.00°	Depositor
Resolution (Å)	39.87 – 2.50 39.87 – 2.50	Depositor EDS
% Data completeness (in resolution range)	93.3 (39.87-2.50) 93.3 (39.87-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.27 (at 2.48Å)	Xtrriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.193 , 0.230 0.196 , 0.230	Depositor DCC
R_{free} test set	1089 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	39.3	Xtrriage
Anisotropy	0.675	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 37.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.020 for -h-2*1,-k,l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4795	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.08% 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: 8ZF, SO4

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	0.23	0/2444	0.39	0/3319
1	B	0.25	0/2267	0.45	2/3077 (0.1%)
All	All	0.24	0/4711	0.42	2/6396 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	659	ASN	CB-CA-C	6.33	123.06	110.40
1	B	658	THR	N-CA-C	-5.88	95.11	111.00

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	2389	0	2326	7	0
1	B	2216	0	2154	17	0
2	A	35	0	0	0	0
2	B	35	0	0	0	0
3	A	20	0	0	0	0
3	B	10	0	0	0	0
4	A	54	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	36	0	0	0	0
All	All	4795	0	4480	24	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 (24) 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:653:TYR:C	1:B:656:LYS:HD2	2.04	0.78
1:B:653:TYR:O	1:B:656:LYS:HD2	1.88	0.74
1:B:653:TYR:N	1:B:656:LYS:HD3	2.01	0.74
1:B:653:TYR:O	1:B:656:LYS:HB2	1.90	0.72
1:B:653:TYR:CA	1:B:656:LYS:HD3	2.27	0.65
1:B:489:PHE:HE2	1:B:531:GLU:HB2	1.62	0.63
1:B:653:TYR:CA	1:B:656:LYS:CD	2.78	0.61
1:A:551:CYS:HB2	1:A:558:TYR:HB2	1.84	0.60
1:B:653:TYR:N	1:B:656:LYS:CD	2.66	0.58
1:A:488:CYS:SG	1:A:489:PHE:N	2.83	0.52
1:A:523:LYS:NZ	1:A:527:ASP:OD1	2.43	0.52
1:A:467:GLU:OE1	1:A:553:GLN:NE2	2.43	0.50
1:B:653:TYR:HA	1:B:656:LYS:HD3	1.95	0.49
1:B:653:TYR:CA	1:B:656:LYS:HD2	2.42	0.49
1:B:551:CYS:HB2	1:B:558:TYR:HB2	1.95	0.48
1:B:500:LEU:HD11	1:B:511:VAL:HG11	1.98	0.45
1:B:727:ASN:O	1:B:731:MET:HG3	2.17	0.45
1:A:482:LYS:HE2	1:A:494:LEU:HD22	1.99	0.44
1:A:694:PHE:CZ	1:A:729:LEU:HD13	2.53	0.43
1:A:486:GLU:HB3	1:A:487:GLY:H	1.68	0.43
1:B:489:PHE:CE2	1:B:531:GLU:HB2	2.49	0.42
1:B:574:GLN:HA	1:B:577:ARG:HG3	2.01	0.41
1:B:673:PHE:HE1	1:B:710:PHE:HD1	1.68	0.41
1:B:658:THR:OG1	1:B:659:ASN:N	2.55	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	304/310 (98%)	298 (98%)	6 (2%)	0	100	100
1	B	282/310 (91%)	277 (98%)	4 (1%)	1 (0%)	34	54
All	All	586/620 (94%)	575 (98%)	10 (2%)	1 (0%)	47	68

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	579	PRO

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	255/271 (94%)	254 (100%)	1 (0%)	91	97
1	B	234/271 (86%)	233 (100%)	1 (0%)	91	97
All	All	489/542 (90%)	487 (100%)	2 (0%)	91	97

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

Mol	Chain	Res	Type
1	A	488	CYS
1	B	656	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 ligands are 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
3	SO4	A	805	-	4,4,4	0.13	0	6,6,6	0.21	0
3	SO4	B	802	-	4,4,4	0.14	0	6,6,6	0.06	0
3	SO4	A	803	-	4,4,4	0.14	0	6,6,6	0.05	0
3	SO4	A	802	-	4,4,4	0.15	0	6,6,6	0.09	0
3	SO4	B	803	-	4,4,4	0.14	0	6,6,6	0.06	0
2	8ZF	A	801	-	36,39,39	2.35	11 (30%)	41,57,57	2.00	16 (39%)
2	8ZF	B	801	-	36,39,39	2.20	9 (25%)	41,57,57	1.93	16 (39%)
3	SO4	A	804	-	4,4,4	0.15	0	6,6,6	0.06	0

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	8ZF	B	801	-	-	4/14/38/38	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	8ZF	A	801	-	-	5/14/38/38	0/5/5/5

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	801	8ZF	CAD-NAM	-6.60	1.34	1.44
2	B	801	8ZF	CAD-NAM	-6.56	1.34	1.44
2	A	801	8ZF	CAN-CAR	-5.81	1.38	1.51
2	B	801	8ZF	CAN-CAR	-5.57	1.38	1.51
2	B	801	8ZF	CBB-CBA	-5.23	1.32	1.39
2	A	801	8ZF	CBB-CBA	-5.18	1.32	1.39
2	A	801	8ZF	CAQ-CAY	-4.53	1.36	1.44
2	B	801	8ZF	CAQ-CAY	-4.52	1.36	1.44
2	A	801	8ZF	FAK-CAC	4.27	1.41	1.35
2	B	801	8ZF	CAV-NAW	4.07	1.38	1.31
2	A	801	8ZF	CAV-NAW	3.93	1.38	1.31
2	B	801	8ZF	CAP-NAM	-3.01	1.34	1.37
2	B	801	8ZF	CAY-CAX	-2.74	1.35	1.43
2	A	801	8ZF	CAY-CAX	-2.74	1.35	1.43
2	A	801	8ZF	CAP-NAM	-2.71	1.34	1.37
2	A	801	8ZF	FAL-CAE	2.54	1.39	1.35
2	A	801	8ZF	CAX-NAW	-2.40	1.33	1.37
2	B	801	8ZF	CAX-NAW	-2.31	1.33	1.37
2	B	801	8ZF	CAP-NAO	-2.30	1.35	1.37
2	A	801	8ZF	CAP-NAO	-2.05	1.35	1.37

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	801	8ZF	CAH-OAG-CAF	-4.30	111.04	117.53
2	B	801	8ZF	CAJ-OAI-CAB	-3.99	111.51	117.53
2	B	801	8ZF	CAS-NAO-CAQ	3.97	125.43	120.10
2	A	801	8ZF	CAR-CAQ-CAY	-3.95	116.80	120.82
2	A	801	8ZF	CAS-NAO-CAQ	3.86	125.29	120.10
2	A	801	8ZF	CAJ-OAI-CAB	-3.69	111.96	117.53
2	A	801	8ZF	CAN-CAR-CAQ	3.63	123.77	121.37
2	B	801	8ZF	CAR-CAQ-CAY	-3.61	117.14	120.82
2	B	801	8ZF	CAH-OAG-CAF	-3.46	112.31	117.53
2	B	801	8ZF	CAN-CAR-CAQ	3.35	123.59	121.37
2	A	801	8ZF	CBC-CBA-CBB	-3.19	124.86	129.51
2	B	801	8ZF	CBC-CBA-CBB	-3.09	125.02	129.51
2	B	801	8ZF	CAR-CAV-NAW	-3.03	118.79	123.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	801	8ZF	CAV-NAW-CAX	3.01	119.71	116.69
2	A	801	8ZF	CAR-CAV-NAW	-2.86	119.06	123.87
2	A	801	8ZF	CAD-NAM-CAP	2.79	122.20	117.65
2	A	801	8ZF	CAR-CAN-NAM	2.73	113.98	109.76
2	B	801	8ZF	CAR-CAN-NAM	2.71	113.94	109.76
2	A	801	8ZF	CAV-NAW-CAX	2.61	119.32	116.69
2	A	801	8ZF	OAU-CAP-NAM	-2.59	118.73	122.22
2	A	801	8ZF	CAD-CAC-CAB	-2.57	118.81	122.20
2	B	801	8ZF	CAD-NAM-CAP	2.49	121.72	117.65
2	B	801	8ZF	CAS-NAO-CAP	-2.49	113.19	116.75
2	A	801	8ZF	CAN-CAR-CAV	-2.43	115.08	120.05
2	B	801	8ZF	OAU-CAP-NAM	-2.42	118.95	122.22
2	B	801	8ZF	OAU-CAP-NAO	-2.37	119.02	122.22
2	A	801	8ZF	CAC-CAD-CAE	2.37	119.93	115.84
2	B	801	8ZF	CAC-CAD-CAE	2.28	119.78	115.84
2	B	801	8ZF	CAD-CAC-CAB	-2.28	119.19	122.20
2	B	801	8ZF	CAN-CAR-CAV	-2.26	115.44	120.05
2	A	801	8ZF	OAU-CAP-NAO	-2.19	119.26	122.22
2	A	801	8ZF	CAS-NAO-CAP	-2.07	113.80	116.75

There are no chirality outliers.

All (9) torsion outliers are listed below:

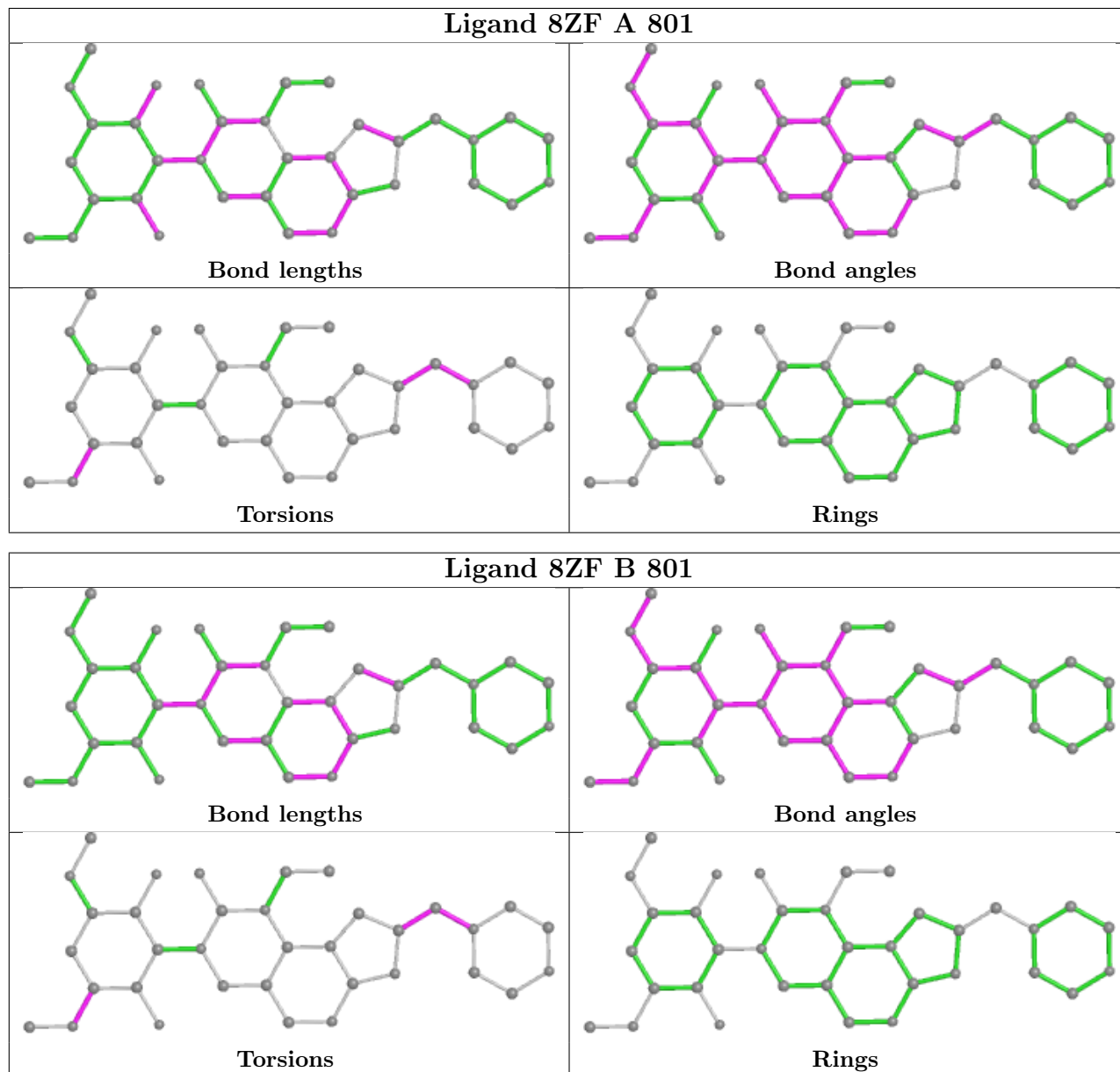
Mol	Chain	Res	Type	Atoms
2	A	801	8ZF	CBA-CBC-NBD-CBE
2	A	801	8ZF	CBA-CBC-NBD-CBI
2	A	801	8ZF	CBB-CBA-CBC-NBD
2	A	801	8ZF	CAE-CAF-OAG-CAH
2	B	801	8ZF	CBB-CBA-CBC-NBD
2	A	801	8ZF	CAA-CAF-OAG-CAH
2	B	801	8ZF	NAZ-CBA-CBC-NBD
2	B	801	8ZF	CBA-CBC-NBD-CBI
2	B	801	8ZF	CAE-CAF-OAG-CAH

There are no ring outliers.

No monomer is involved in short contacts.

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

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	306/310 (98%)	-0.13	5 (1%) 72 74	27, 39, 62, 93	0
1	B	287/310 (92%)	0.08	13 (4%) 33 36	32, 45, 73, 89	0
All	All	593/620 (95%)	-0.03	18 (3%) 50 53	27, 42, 66, 93	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	488	CYS	6.3
1	A	488	CYS	4.6
1	B	710	PHE	3.7
1	A	489	PHE	3.6
1	B	579	PRO	3.5
1	B	654	TYR	3.4
1	B	673	PHE	3.4
1	B	487	GLY	3.3
1	B	763	ASN	3.1
1	B	489	PHE	3.1
1	B	676	ILE	3.0
1	B	580	GLY	2.7
1	A	581	LEU	2.6
1	A	580	GLY	2.3
1	B	578	PRO	2.3
1	A	460	VAL	2.3
1	B	677	TYR	2.2
1	B	643	GLY	2.1

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 monosaccharides in this entry.

6.4 Ligands [i](#)

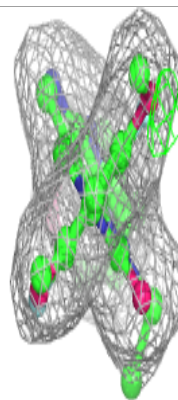
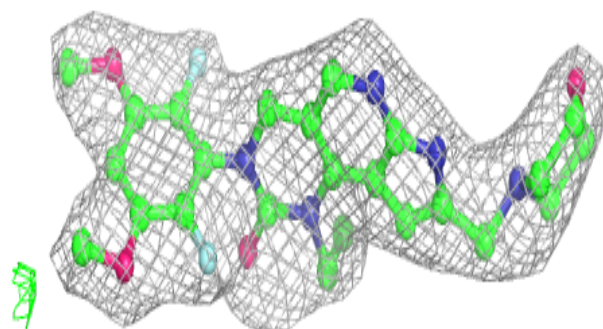
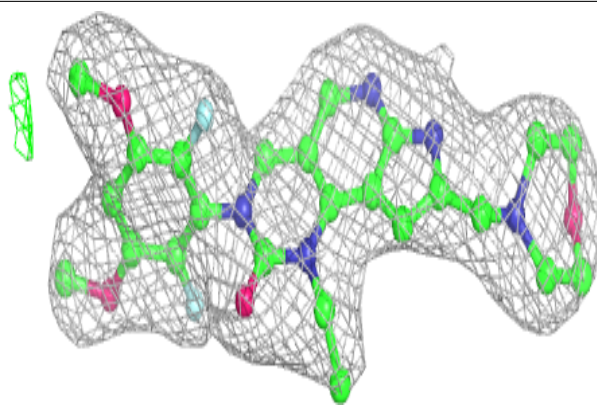
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	SO4	A	805	5/5	0.90	0.23	71,75,90,93	0
2	8ZF	B	801	35/35	0.94	0.18	38,48,52,54	0
3	SO4	B	803	5/5	0.94	0.15	62,67,81,83	0
3	SO4	B	802	5/5	0.95	0.22	58,71,74,76	0
3	SO4	A	804	5/5	0.95	0.12	55,61,68,76	0
2	8ZF	A	801	35/35	0.96	0.16	29,33,39,48	0
3	SO4	A	802	5/5	0.98	0.11	41,46,49,51	0
3	SO4	A	803	5/5	0.99	0.11	47,48,51,54	0

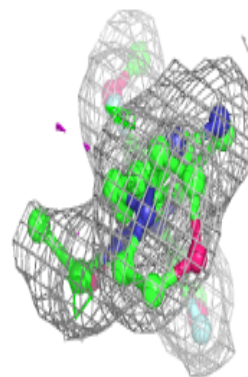
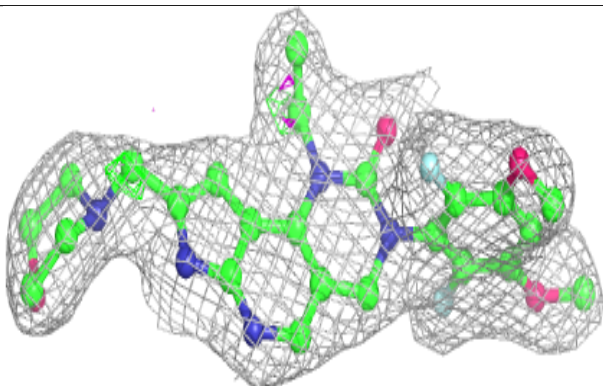
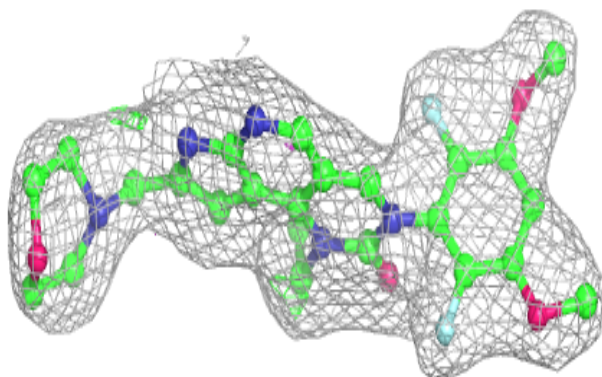
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around 8ZF B 801:

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

**Electron density around 8ZF A 801:**

$2mF_o-DF_c$ (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.