Full wwPDB X-ray Structure Validation Report (i)

Dec 17, 2023 – 09:44 am GMT

PDB ID	:	2WZ6
Title	:	G93A SOD1 mutant complexed with Quinazoline.
Authors	:	Antonyuk, S.V.; Strange, R.W.; Hasnain, S.S.
Deposited on	:	2009-11-23
Resolution	:	1.55 Å(reported)

The following versions of software and data (see references (i)) were used in the production of this report:

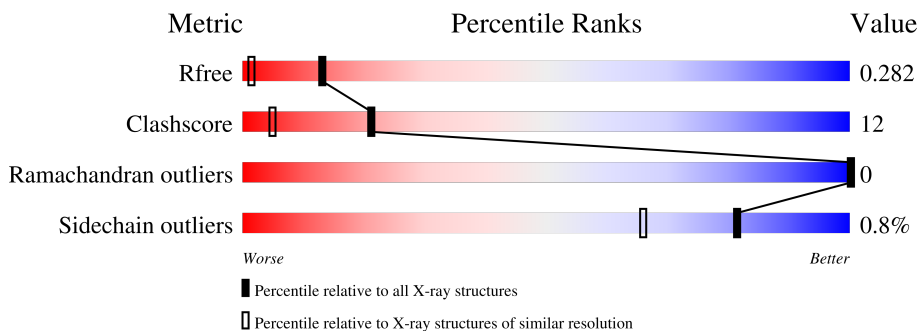|		
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (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 1.55 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	Percentile Ranks	Value
Rfree		0.282
Clashscore		12
Ramachandran outliers		0
Sidechain outliers		0.8%

Worse — *Better*

▌ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1483 (1.56-1.56)
Clashscore	141614	1529 (1.56-1.56)
Ramachandran outliers	138981	1498 (1.56-1.56)
Sidechain outliers	138945	1495 (1.56-1.56)

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	153	90% 10%
1	F	153	86% 14%

2 Entry composition ⓘ

There are 6 unique types of molecules in this entry. The entry contains 2775 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 SUPEROXIDE DISMUTASE [CU-ZN].

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	153	Total	C	N	O	S	0	7	0
			1149	705	208	232	4			
1	F	153	Total	C	N	O	S	0	7	0
			1135	698	205	228	4			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	93	ALA	GLY	engineered mutation	UNP P00441
F	93	ALA	GLY	engineered mutation	UNP P00441

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Zn	0	1
			2	2		
2	F	2	Total	Zn	0	1
			2	2		

- Molecule 3 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cu	0	1
			1	1		
3	F	1	Total	Cu	0	1
			1	1		

- Molecule 4 is 4-(4-METHYL-1,4-DIAZEPAN-1-YL)-2-(TRIFLUOROMETHYL)QUINAZOLINE (three-letter code: ZO0) (formula: $C_{15}H_{17}F_3N_4$).
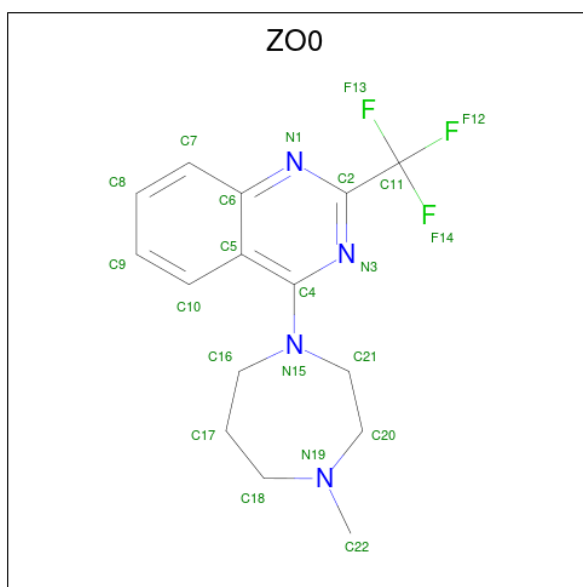
ZO0

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total 22	C 15	F 3	N 4	0	0
4	F	1	Total 22	C 15	F 3	N 4	0	0

• Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O_4S).

SO4

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

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

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	212	Total 212	O 212	0	2
6	F	214	Total 214	O 214	0	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. 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. 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 [CU-ZN]

Chain A:

90%   10%

A1 P28 H43 D52 N53 T54 R69 D109 H110 C111 G114 K122 K128 E132 T137 S142 R143 L144 Q153

• Molecule 1: SUPEROXIDE DISMUTASE [CU-ZN]

Chain F:

86%   14%

A1 Q15 G16 I17 K36 E40 H43 D52 N53 T54 G73 P74 A89 D90 C111 I112 I113 G114 K128 E132 E133 T137 S142 R143 L144 I151 A152 Q153

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	39.00Å 68.03Å 50.63Å 90.00° 105.88° 90.00°	Depositor
Resolution (Å)	24.85 – 1.55 26.43 – 1.54	Depositor EDS
% Data completeness (in resolution range)	95.4 (24.85-1.55) 94.3 (26.43-1.54)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.78 (at 1.54Å)	Xtriage
Refinement program	REFMAC 5.5.0106	Depositor
R, R_{free}	0.195 , 0.248 0.243 , 0.282	Depositor DCC
R_{free} test set	1780 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	13.2	Xtriage
Anisotropy	0.506	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 46.2	EDS
L-test for twinning[2]	$< |L| > = 0.51, < L^2 > = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	2775	wwPDB-VP
Average B, all atoms (Å^2)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.30% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: CU, ZN, ZO0, 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	0.71	0/1185	0.80	0/1598
1	F	0.71	0/1175	0.76	0/1582
All	All	0.71	0/2360	0.78	0/3180

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 ⓘ

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	1149	0	1128	23	0
1	F	1135	0	1120	26	1
2	A	2	0	0	0	0
2	F	2	0	0	0	0
3	A	1	0	0	0	0
3	F	1	0	0	0	0
4	A	22	0	17	3	0
4	F	22	0	17	1	0
5	A	5	0	0	1	0
5	F	10	0	0	2	0
6	A	212	0	0	20	2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	F	214	0	0	28	1
All	All	2775	0	2282	56	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 12.

All (56) 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:74:PRO:HD2	6:F:315:HOH:O	1.10	1.22
5:A:205:SO4:O2	6:A:302:HOH:O	1.67	1.09
1:A:43:HIS:CE1	6:A:304:HOH:O	2.12	1.02
1:F:43:HIS:CE1	6:F:306:HOH:O	2.15	0.98
1:A:144:LEU:HD11	6:A:304:HOH:O	1.63	0.98
5:F:201:SO4:O3	6:F:303:HOH:O	1.82	0.96
1:F:90:ASP:HA	6:F:304:HOH:O	1.65	0.95
1:F:132[B]:GLU:OE2	1:F:133:GLU:OE2	1.83	0.93
1:A:69[A]:ARG:NH1	6:A:303:HOH:O	1.98	0.91
1:F:52:ASP:OD1	1:F:54:THR:HG23	1.75	0.86
1:F:73:GLY:HA3	6:F:315:HOH:O	1.76	0.85
1:F:43:HIS:ND1	6:F:306:HOH:O	2.08	0.83
4:A:204:ZO0:H211	4:A:204:ZO0:H10	1.62	0.82
1:A:144:LEU:CD1	6:A:304:HOH:O	2.23	0.81
1:A:54[B]:THR:CG2	6:A:443:HOH:O	2.27	0.81
1:A:43:HIS:ND1	6:A:304:HOH:O	2.12	0.79
1:A:114:GLY:CA	6:F:310:HOH:O	2.33	0.77
4:A:204:ZO0:H222	6:A:410:HOH:O	1.86	0.74
1:F:89:ALA:O	6:F:304:HOH:O	2.04	0.74
5:F:205:SO4:O3	6:F:305:HOH:O	2.05	0.71
1:A:137:THR:HG21	6:A:459:HOH:O	1.91	0.70
1:A:54[B]:THR:HG21	6:A:443:HOH:O	1.91	0.69
1:A:111:CYS:SG	6:A:444:HOH:O	2.07	0.69
1:A:54[B]:THR:HG23	6:A:443:HOH:O	1.89	0.69
4:F:206:ZO0:H221	6:F:478:HOH:O	1.93	0.68
1:F:53:ASN:ND2	6:F:308:HOH:O	2.27	0.68
1:F:73:GLY:CA	6:F:315:HOH:O	2.33	0.67
1:F:114:GLY:CA	6:F:310:HOH:O	2.46	0.62
1:F:142:SER:HB2	6:F:434:HOH:O	2.01	0.61
1:F:111:CYS:SG	6:F:466:HOH:O	2.08	0.60
1:F:132[B]:GLU:OE2	1:F:133:GLU:CD	2.41	0.59
1:F:114:GLY:N	6:F:310:HOH:O	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:ASP:OD1	1:A:54[A]:THR:HG23	2.04	0.57
1:F:90:ASP:OD1	6:F:304:HOH:O	2.18	0.56
1:F:144:LEU:CD1	6:F:306:HOH:O	2.54	0.55
1:F:74:PRO:CD	6:F:315:HOH:O	1.95	0.55
1:F:144:LEU:HD11	6:F:306:HOH:O	2.06	0.54
1:A:69[A]:ARG:NH1	6:A:307:HOH:O	2.33	0.54
1:F:133:GLU:HG2	6:F:403[A]:HOH:O	2.07	0.53
1:F:113:ILE:HG22	6:F:310:HOH:O	2.11	0.51
1:A:122:LYS:HE3	6:A:404:HOH:O	2.12	0.50
1:A:142:SER:HB2	6:A:401:HOH:O	2.13	0.49
1:A:114:GLY:N	6:F:310:HOH:O	2.45	0.48
1:F:15:GLN:OE1	1:F:36:LYS:NZ	2.44	0.48
4:A:204:ZO0:H211	4:A:204:ZO0:C10	2.38	0.48
1:A:1:ALA:HB2	6:A:462:HOH:O	2.15	0.47
1:A:28:PRO:HG2	6:A:313:HOH:O	2.15	0.46
1:A:128:LYS:NZ	6:A:308:HOH:O	2.34	0.45
1:A:143:ARG:NE	6:A:319:HOH:O	2.51	0.43
1:F:40:GLU:OE2	6:F:307:HOH:O	2.21	0.42
1:A:1:ALA:CB	6:A:462:HOH:O	2.67	0.42
1:F:137:THR:HG21	6:F:462:HOH:O	2.20	0.41
1:A:114:GLY:HA3	6:F:310:HOH:O	2.14	0.41
1:F:89:ALA:C	6:F:304:HOH:O	2.57	0.41
1:A:54[A]:THR:HG21	6:F:392:HOH:O	2.20	0.40
1:F:151[B]:ILE:HG21	1:F:151[B]:ILE:HD13	1.84	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)
6:A:329:HOH:O	6:F:455:HOH:O[2_656]	2.01	0.19
1:F:17:ILE:CD1	1:F:128:LYS:O[2_655]	2.09	0.11
6:A:428:HOH:O	6:A:470:HOH:O[2_656]	2.11	0.09

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	158/153 (103%)	157 (99%)	1 (1%)	0	100	100
1	F	157/153 (103%)	157 (100%)	0	0	100	100
All	All	315/306 (103%)	314 (100%)	1 (0%)	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	125/118 (106%)	123 (98%)	2 (2%)	62	35
1	F	124/118 (105%)	124 (100%)	0	100	100
All	All	249/236 (106%)	247 (99%)	2 (1%)	81	66

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

Mol	Chain	Res	Type
1	A	109	ASP
1	A	132	GLU

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	15	GLN
1	F	53	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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 11 ligands modelled in this entry, 6 are monoatomic - leaving 5 for Mogul analysis.

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	$\#|Z| > 2$
5	SO4	A	205	2	4,4,4	0.19	0	6,6,6	0.60	0
5	SO4	F	205	-	4,4,4	0.18	0	6,6,6	0.36	0
4	ZO0	A	204	-	24,24,24	1.75	5 (20%)	31,35,35	2.59	13 (41%)
5	SO4	F	201	2	4,4,4	0.43	0	6,6,6	0.30	0
4	ZO0	F	206	-	24,24,24	1.56	4 (16%)	31,35,35	2.49	13 (41%)

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
4	ZO0	A	204	-	-	0/8/21/21	0/3/3/3
4	ZO0	F	206	-	-	2/8/21/21	0/3/3/3

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	204	ZO0	C5-C6	5.04	1.50	1.42
4	F	206	ZO0	C5-C6	4.72	1.50	1.42
4	A	204	ZO0	C4-N3	3.58	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	204	ZO0	C4-C5	3.34	1.51	1.43
4	F	206	ZO0	C4-C5	2.83	1.49	1.43
4	F	206	ZO0	C4-N3	2.50	1.35	1.32
4	F	206	ZO0	C2-N1	2.50	1.36	1.33
4	A	204	ZO0	C4-N15	2.50	1.44	1.37
4	A	204	ZO0	C2-N3	2.08	1.36	1.33

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	204	ZO0	C20-C21-N15	-7.17	105.04	113.30
4	F	206	ZO0	N1-C2-N3	-4.78	122.46	129.29
4	A	204	ZO0	N1-C2-N3	-4.75	122.50	129.29
4	F	206	ZO0	C11-C2-N1	4.71	121.63	115.01
4	F	206	ZO0	C22-N19-C20	4.58	120.52	110.30
4	F	206	ZO0	C17-C18-N19	-4.13	106.82	117.34
4	F	206	ZO0	C22-N19-C18	4.06	119.35	110.30
4	A	204	ZO0	C22-N19-C20	3.94	119.08	110.30
4	A	204	ZO0	C5-C4-N3	-3.80	114.57	122.66
4	A	204	ZO0	C2-N1-C6	3.80	119.80	115.59
4	A	204	ZO0	C2-N3-C4	3.76	125.36	114.53
4	F	206	ZO0	C2-N1-C6	3.65	119.63	115.59
4	A	204	ZO0	F13-C11-C2	-3.62	102.91	112.67
4	A	204	ZO0	C22-N19-C18	3.60	118.34	110.30
4	F	206	ZO0	C2-N3-C4	3.53	124.70	114.53
4	A	204	ZO0	C5-C4-N15	3.47	127.72	120.97
4	F	206	ZO0	F13-C11-C2	-3.39	103.53	112.67
4	F	206	ZO0	C21-C20-N19	-3.34	106.43	116.25
4	F	206	ZO0	C5-C4-N3	-2.96	116.36	122.66
4	A	204	ZO0	C11-C2-N1	2.92	119.12	115.01
4	F	206	ZO0	C5-C4-N15	2.68	126.19	120.97
4	A	204	ZO0	C17-C18-N19	-2.34	111.39	117.34
4	F	206	ZO0	C20-C21-N15	-2.25	110.71	113.30
4	F	206	ZO0	C5-C6-N1	-2.22	120.46	122.81
4	A	204	ZO0	C11-C2-N3	2.19	118.31	115.16
4	A	204	ZO0	C21-C20-N19	-2.07	110.18	116.25

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	F	206	ZO0	N3-C4-N15-C21

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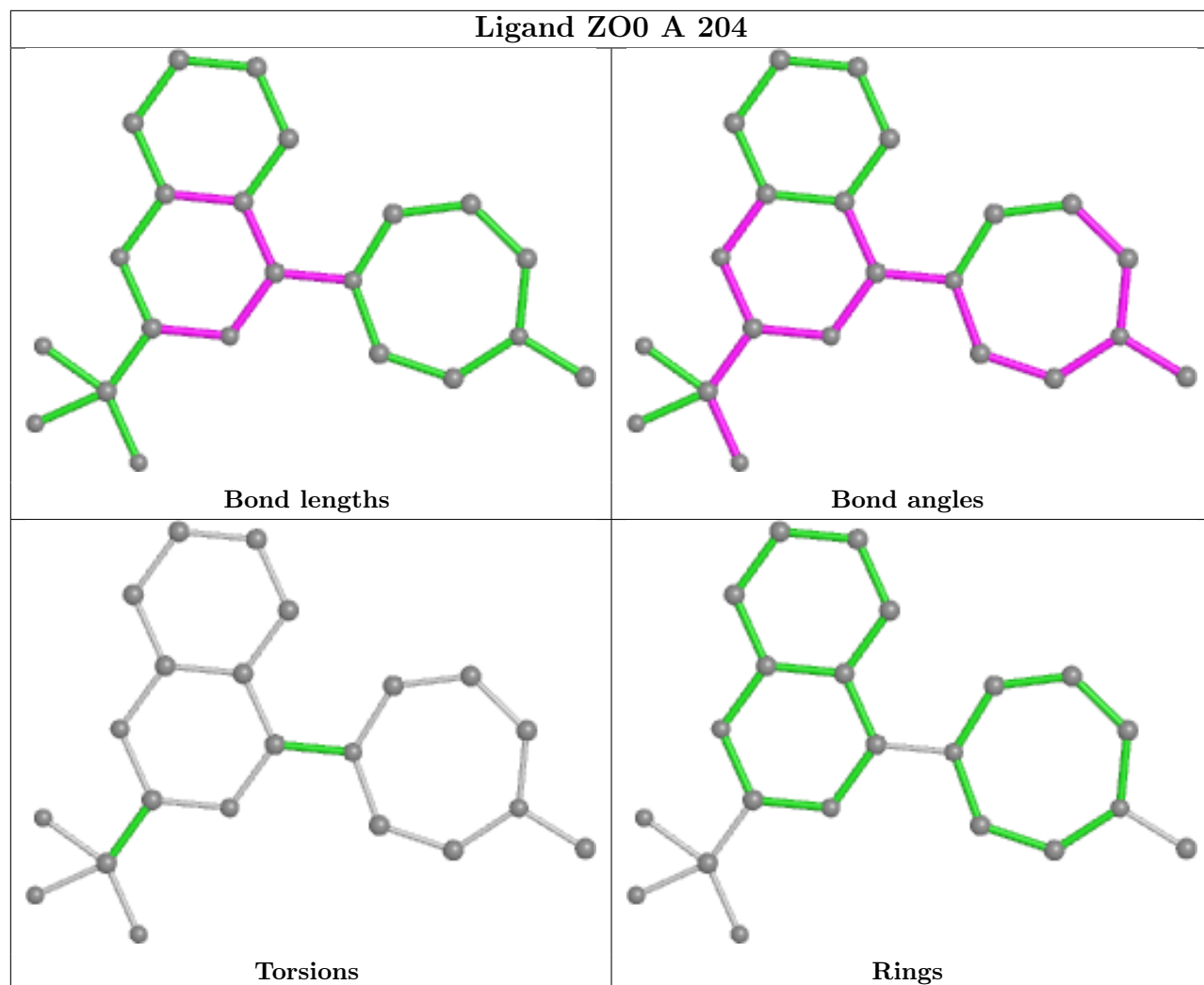| Mol	Chain	Res	Type	Atoms
4	F	206	ZO0	N3-C4-N15-C16

There are no ring outliers.

5 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	205	SO4	1	0
5	F	205	SO4	1	0
4	A	204	ZO0	3	0
5	F	201	SO4	1	0
4	F	206	ZO0	1	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 then 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.

Ligand ZO0 A 204

Bond lengths

Bond angles

Torsions

Rings

Ligand ZO0 F 206

Bond lengths

Bond angles

Torsions

Rings
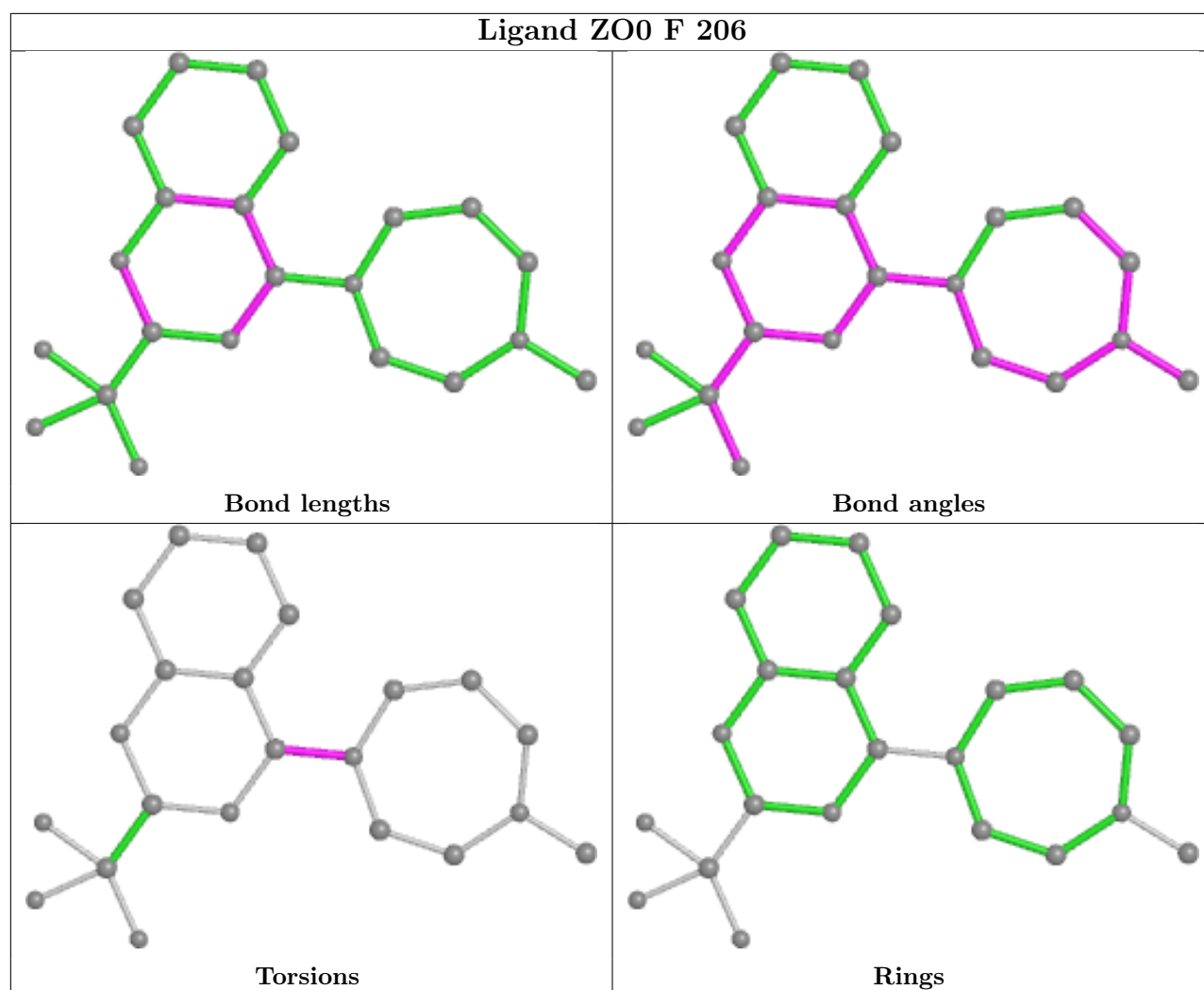
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.
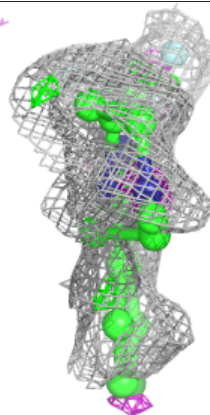
6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates ⓘ

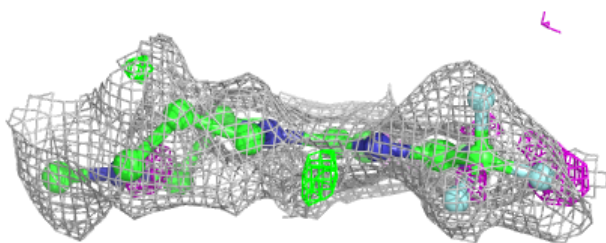Unable to reproduce the depositors R factor - this section is therefore empty.
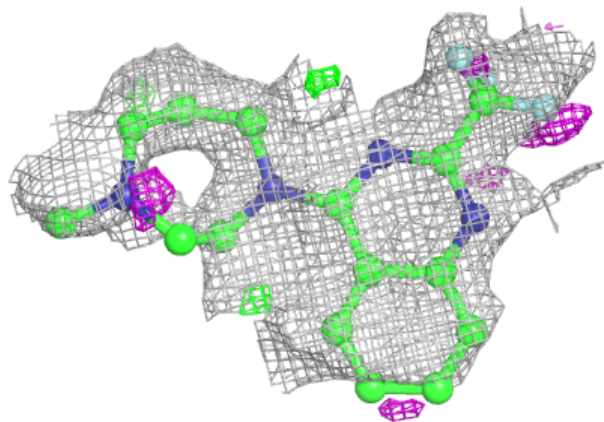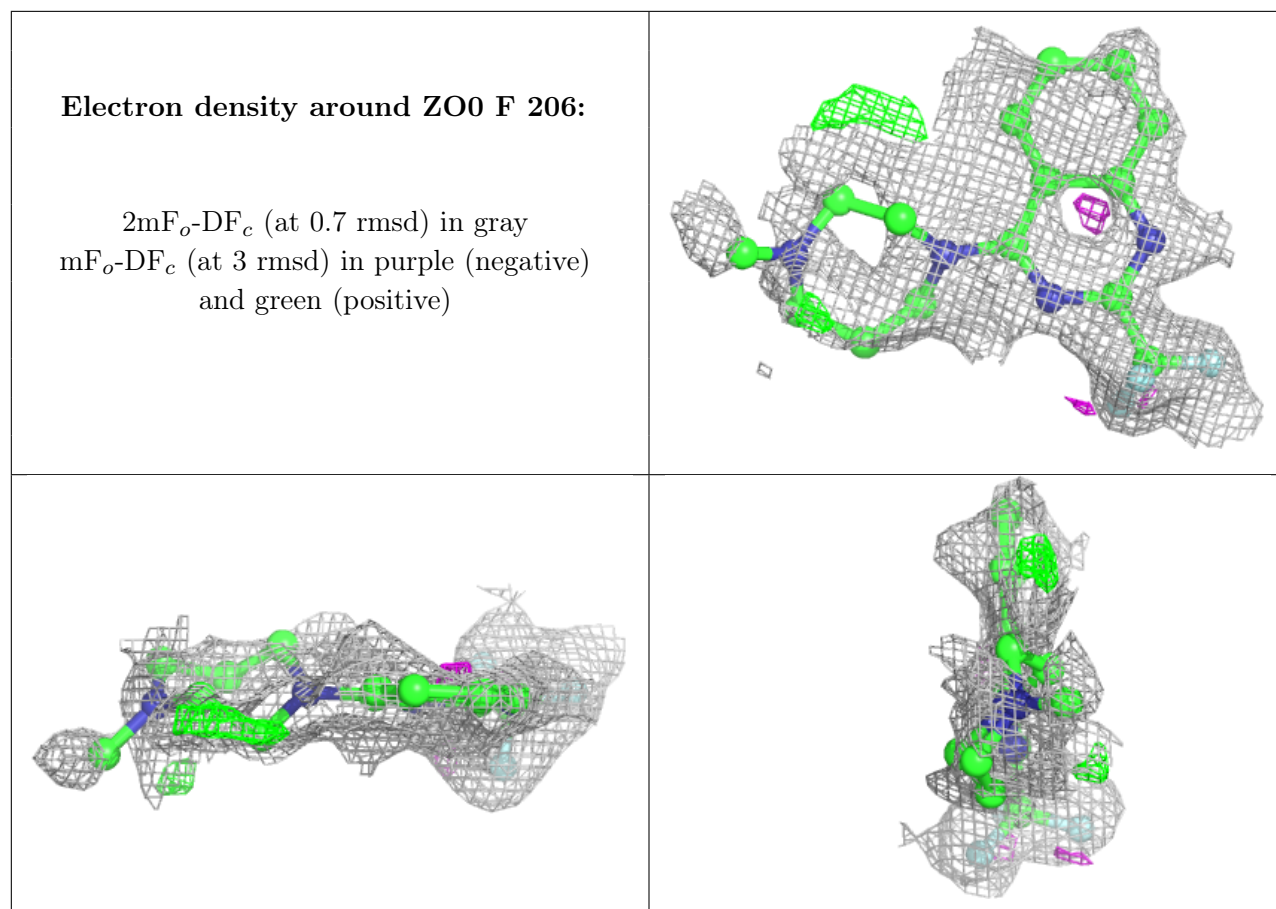
6.4 Ligands ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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 ZO0 A 204:

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

Electron density around ZO0 F 206:

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

6.5   Other polymers ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.