



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 01:13 PM UTC

PDB ID : 8JF3 / pdb_00008jf3
Title : C-Src in complex with compound 9
Authors : Zhang, Z.M.; Huang, H.S.
Deposited on : 2023-05-17
Resolution : 2.85 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

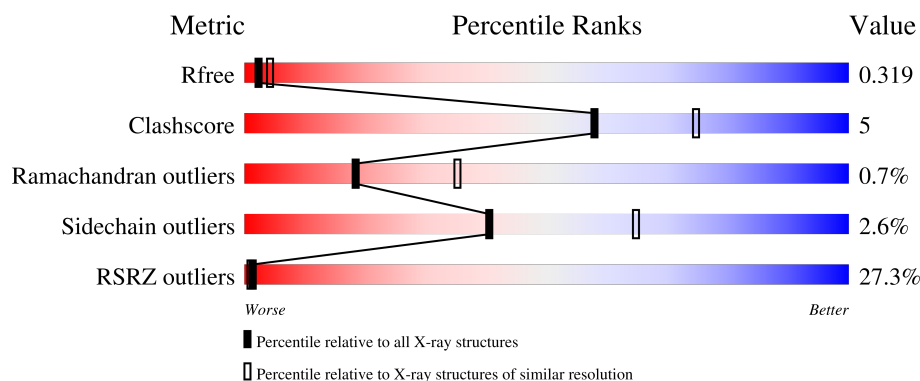
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.85 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	1520 (2.86-2.82)
Clashscore	190562	1559 (2.86-2.82)
Ramachandran outliers	187476	1517 (2.86-2.82)
Sidechain outliers	187428	1518 (2.86-2.82)
RSRZ outliers	180081	1521 (2.86-2.82)

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	283	23% 73% 13% 14%
1	B	283	23% 72% 12% 16%

2 Entry composition [i](#)

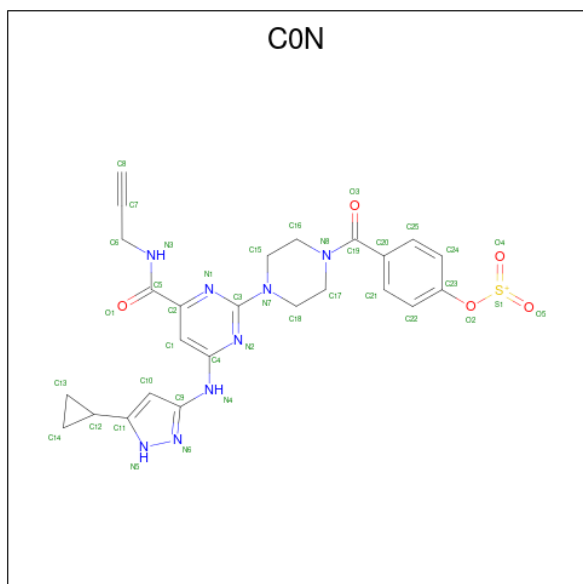
There are 2 unique types of molecules in this entry. The entry contains 3853 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Proto-oncogene tyrosine-protein kinase Src.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	242	Total	C	N	O	S	0	0	0
			1912	1230	322	346	14			
1	B	238	Total	C	N	O	S	0	0	0
			1863	1198	311	340	14			

- Molecule 2 is 2-[4-[4-[bis(oxidanylidene)- λ^5 -sulfanyl]oxyphenyl]carbonylpiperazin-1-yl]-6-[(5-cyclopropyl-1H-pyrazol-3-yl)amino]-N-prop-2-ynyl-pyrimidine-4-carboxamide (CCD ID: C0N) (formula: C₂₅H₂₅N₈O₅S).

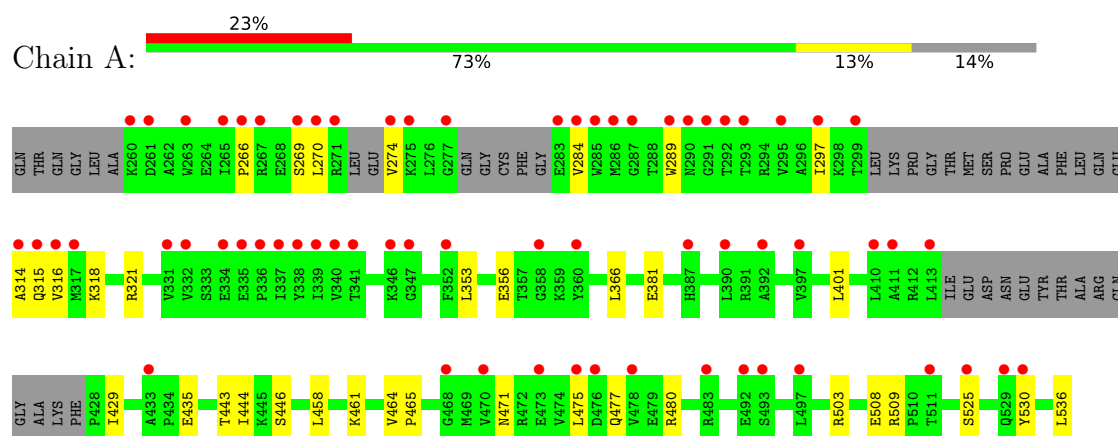


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			39	25	8	5	1		
2	B	1	Total	C	N	O	S	0	0
			39	25	8	5	1		

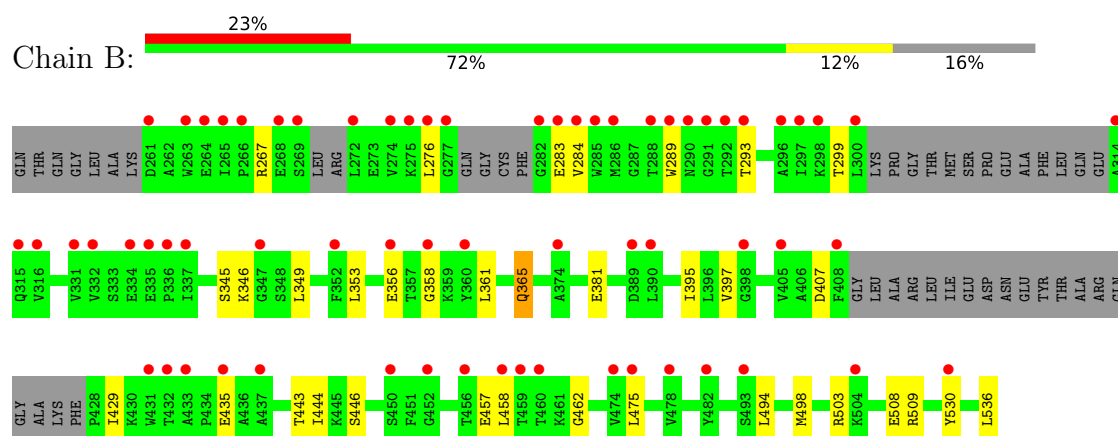
3 Residue-property plots [i](#)

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: Proto-oncogene tyrosine-protein kinase Src



- Molecule 1: Proto-oncogene tyrosine-protein kinase Src



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	41.72Å 63.43Å 73.65Å 101.21° 91.05° 90.16°	Depositor
Resolution (Å)	62.21 – 2.85 62.21 – 2.85	Depositor EDS
% Data completeness (in resolution range)	96.6 (62.21-2.85) 96.5 (62.21-2.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.34 (at 2.86Å)	Xtriage
Refinement program	PHENIX 1.9_1692+SVN	Depositor
R, R_{free}	0.274 , 0.317 0.280 , 0.319	Depositor DCC
R_{free} test set	1686 reflections (9.71%)	wwPDB-VP
Wilson B-factor (Å ²)	34.9	Xtriage
Anisotropy	0.909	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 35.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.013 for h,-k,-l	Xtriage
F_o, F_c correlation	0.85	EDS
Total number of atoms	3853	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.47% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CON

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	0.27	0/1955	0.72	0/2650
1	B	0.28	0/1906	0.70	0/2587
All	All	0.27	0/3861	0.71	0/5237

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	1912	0	1874	17	0
1	B	1863	0	1805	17	0
2	A	39	0	0	0	0
2	B	39	0	0	0	0
All	All	3853	0	3679	34	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 5.

All (34) 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:A:477:GLN:OE1	1:A:480:ARG:NH2	2.28	0.67
1:A:503:ARG:NH1	1:A:508:GLU:O	2.28	0.67
1:B:353:LEU:HD11	1:B:458:LEU:HD12	1.78	0.66
1:B:503:ARG:NH1	1:B:508:GLU:O	2.30	0.63
1:A:266:PRO:HG2	1:A:269:SER:HB3	1.81	0.62
1:A:530:TYR:OH	1:A:536:LEU:OXT	2.18	0.61
1:A:353:LEU:HD11	1:A:458:LEU:HD23	1.85	0.59
1:B:530:TYR:OH	1:B:536:LEU:OXT	2.22	0.58
1:B:435:GLU:OE2	1:B:509:ARG:NH2	2.29	0.57
1:B:346:LYS:HB2	1:B:397:VAL:HB	1.86	0.56
1:A:435:GLU:OE2	1:A:509:ARG:NH2	2.40	0.55
1:B:289:TRP:HB3	1:B:293:THR:HG23	1.88	0.54
1:A:270:LEU:H	1:A:270:LEU:HD23	1.72	0.53
1:A:270:LEU:HD12	1:A:297:ILE:HD13	1.90	0.53
1:B:443:THR:O	1:B:446:SER:OG	2.27	0.53
1:B:349:LEU:HD21	1:B:458:LEU:HD11	1.91	0.52
1:B:381:GLU:HG3	1:B:444:ILE:HG12	1.91	0.52
1:A:443:THR:O	1:A:446:SER:OG	2.27	0.51
1:B:283:GLU:N	1:B:299:THR:O	2.45	0.49
1:B:358:GLY:HA2	1:B:361:LEU:HG	1.97	0.47
1:B:457:GLU:O	1:B:462:GLY:N	2.47	0.47
1:A:381:GLU:HG3	1:A:444:ILE:HG12	1.97	0.46
1:A:314:ALA:HB1	1:A:316:VAL:HG12	1.98	0.46
1:A:315:GLN:HA	1:A:318:LYS:HD2	1.98	0.45
1:A:366:LEU:HD11	1:A:461:LYS:HE2	1.97	0.45
1:B:365:GLN:H	1:B:365:GLN:HG2	1.58	0.44
1:B:356:GLU:OE1	1:B:356:GLU:N	2.48	0.43
1:A:314:ALA:HA	1:A:315:GLN:C	2.43	0.43
1:A:429:ILE:HD13	1:A:471:ASN:ND2	2.34	0.43
1:A:321:ARG:HE	1:A:321:ARG:HB2	1.60	0.43
1:B:349:LEU:N	1:B:395:ILE:O	2.48	0.42
1:B:276:LEU:HB2	1:B:284:VAL:HG12	2.03	0.41
1:B:494:LEU:O	1:B:498:MET:HG3	2.22	0.40
1:A:464:VAL:HA	1:A:465:PRO:HD3	1.93	0.40

There are no symmetry-related clashes.

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	232/283 (82%)	218 (94%)	13 (6%)	1 (0%)	30	48
1	B	228/283 (81%)	220 (96%)	6 (3%)	2 (1%)	14	27
All	All	460/566 (81%)	438 (95%)	19 (4%)	3 (1%)	18	35

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	289	TRP
1	B	407	ASP
1	B	267	ARG

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	199/243 (82%)	193 (97%)	6 (3%)	36	60
1	B	193/243 (79%)	189 (98%)	4 (2%)	47	70
All	All	392/486 (81%)	382 (97%)	10 (3%)	40	65

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	274	VAL
1	A	284	VAL
1	A	356	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	401	LEU
1	A	475	LEU
1	A	525	SER
1	B	345	SER
1	B	365	GLN
1	B	429	ILE
1	B	475	LEU

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

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 ⓘ

2 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	$\# Z > 2$
2	C0N	B	601	-	40,43,43	4.24	20 (50%)	51,60,60	2.67	21 (41%)
2	C0N	A	601	-	40,43,43	4.37	21 (52%)	51,60,60	2.52	20 (39%)

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	C0N	B	601	-	-	11/29/44/44	0/5/5/5
2	C0N	A	601	-	-	7/29/44/44	0/5/5/5

All (41) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	C0N	C22-C21	9.14	1.53	1.38
2	A	601	C0N	C21-C20	9.04	1.53	1.39
2	A	601	C0N	C25-C20	8.93	1.52	1.39
2	A	601	C0N	C25-C24	8.90	1.53	1.38
2	B	601	C0N	C25-C20	8.90	1.52	1.39
2	B	601	C0N	C21-C20	8.82	1.52	1.39
2	B	601	C0N	C22-C21	8.53	1.52	1.38
2	B	601	C0N	C25-C24	8.40	1.52	1.38
2	A	601	C0N	C22-C23	7.59	1.52	1.38
2	A	601	C0N	C24-C23	7.41	1.52	1.38
2	B	601	C0N	C22-C23	7.39	1.52	1.38
2	B	601	C0N	C24-C23	7.28	1.52	1.38
2	B	601	C0N	C3-N2	6.91	1.47	1.34
2	A	601	C0N	C3-N2	6.90	1.47	1.34
2	A	601	C0N	C3-N1	6.88	1.47	1.34
2	B	601	C0N	C3-N1	6.80	1.47	1.34
2	A	601	C0N	C19-N8	5.80	1.47	1.34
2	B	601	C0N	C19-N8	5.62	1.46	1.34
2	B	601	C0N	C2-N1	5.60	1.42	1.34
2	A	601	C0N	C2-N1	5.50	1.42	1.34
2	A	601	C0N	C9-N4	4.99	1.45	1.37
2	B	601	C0N	C4-N2	4.55	1.43	1.34
2	A	601	C0N	C4-N2	4.55	1.43	1.34
2	A	601	C0N	C3-N7	4.52	1.45	1.35
2	A	601	C0N	C5-N3	4.48	1.43	1.33
2	B	601	C0N	C5-N3	4.44	1.43	1.33
2	B	601	C0N	C9-N4	4.31	1.44	1.37
2	B	601	C0N	C3-N7	4.10	1.44	1.35
2	A	601	C0N	C20-C19	3.79	1.56	1.50
2	A	601	C0N	C1-C4	3.74	1.49	1.39
2	B	601	C0N	C1-C4	3.65	1.48	1.39
2	B	601	C0N	C20-C19	3.52	1.56	1.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	C0N	C1-C2	3.22	1.48	1.40
2	A	601	C0N	C1-C2	3.18	1.48	1.40
2	A	601	C0N	C17-N8	-2.83	1.42	1.47
2	A	601	C0N	C16-N8	-2.65	1.42	1.47
2	B	601	C0N	C17-N8	-2.63	1.42	1.47
2	B	601	C0N	C16-N8	-2.61	1.42	1.47
2	A	601	C0N	C4-N4	2.31	1.45	1.40
2	A	601	C0N	C9-N6	2.24	1.36	1.33
2	B	601	C0N	C9-N6	2.13	1.36	1.33

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	601	C0N	C20-C19-N8	7.33	127.82	118.66
2	A	601	C0N	C10-C9-N6	-6.92	107.20	112.14
2	A	601	C0N	C2-N1-C3	6.78	120.94	115.85
2	A	601	C0N	C9-N6-N5	6.57	108.49	103.71
2	B	601	C0N	C9-N6-N5	6.52	108.45	103.71
2	B	601	C0N	C10-C9-N6	-6.51	107.48	112.14
2	B	601	C0N	C2-N1-C3	6.02	120.37	115.85
2	A	601	C0N	C11-C10-C9	5.08	108.33	104.78
2	B	601	C0N	C11-C10-C9	4.89	108.20	104.78
2	B	601	C0N	C15-C16-N8	4.00	118.37	110.42
2	B	601	C0N	O3-C19-N8	-3.81	116.35	122.35
2	A	601	C0N	N4-C9-N6	3.80	126.49	117.81
2	A	601	C0N	C12-C11-C10	-3.75	125.05	131.09
2	A	601	C0N	N2-C3-N1	-3.62	119.84	126.27
2	B	601	C0N	C2-C5-N3	3.56	120.52	115.56
2	B	601	C0N	C18-C17-N8	3.50	117.38	110.42
2	B	601	C0N	N2-C3-N1	-3.47	120.11	126.27
2	B	601	C0N	N4-C4-N2	3.42	121.62	113.33
2	A	601	C0N	N4-C4-N2	3.32	121.36	113.33
2	A	601	C0N	C2-C5-N3	3.18	119.99	115.56
2	B	601	C0N	N4-C9-N6	3.14	124.98	117.81
2	B	601	C0N	C12-C11-C10	-3.02	126.22	131.09
2	A	601	C0N	C18-C17-N8	2.96	116.29	110.42
2	A	601	C0N	C12-C11-N5	2.81	126.91	122.62
2	B	601	C0N	C16-N8-C17	2.79	118.37	112.68
2	A	601	C0N	C15-C16-N8	2.78	115.95	110.42
2	A	601	C0N	N2-C3-N7	2.59	120.80	117.12
2	A	601	C0N	C20-C19-N8	2.56	121.87	118.66
2	A	601	C0N	C16-C15-N7	2.50	116.04	110.78

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	C0N	C17-C18-N7	2.39	115.81	110.78
2	A	601	C0N	C1-C2-N1	-2.35	119.33	123.41
2	A	601	C0N	C18-N7-C15	2.30	116.75	111.57
2	B	601	C0N	N2-C3-N7	2.29	120.38	117.12
2	B	601	C0N	O3-C19-C20	-2.25	115.83	120.29
2	A	601	C0N	O3-C19-N8	-2.23	118.84	122.35
2	A	601	C0N	C10-C11-N5	2.22	108.04	106.19
2	B	601	C0N	C10-C11-N5	2.13	107.97	106.19
2	B	601	C0N	C1-C2-N1	-2.11	119.74	123.41
2	B	601	C0N	C12-C11-N5	2.09	125.81	122.62
2	B	601	C0N	C1-C4-N2	-2.05	119.09	123.35
2	B	601	C0N	C16-N8-C19	-2.00	116.59	122.79

There are no chirality outliers.

All (18) torsion outliers are listed below:

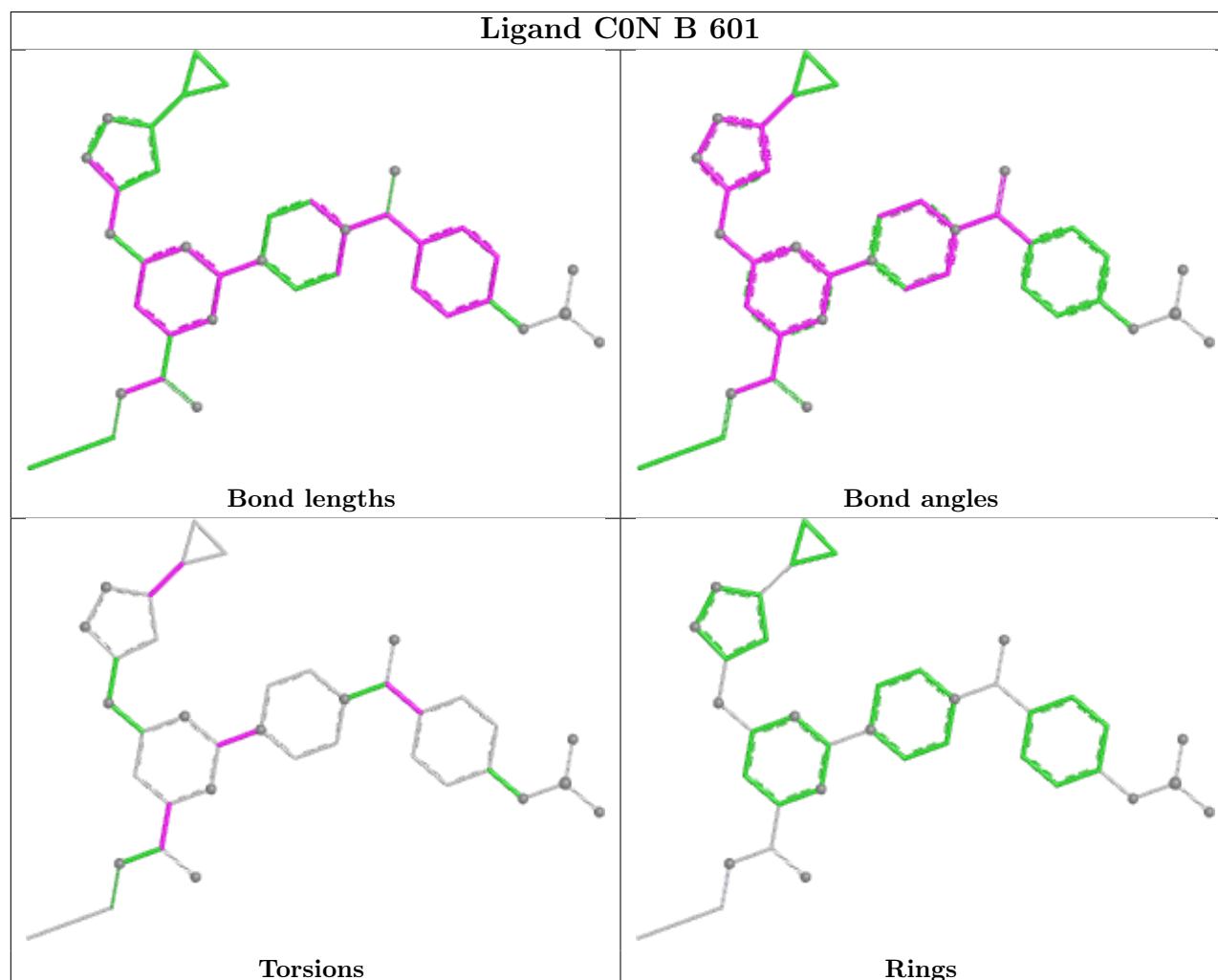
Mol	Chain	Res	Type	Atoms
2	B	601	C0N	N1-C3-N7-C18
2	B	601	C0N	N2-C3-N7-C18
2	A	601	C0N	C1-C2-C5-O1
2	B	601	C0N	C1-C2-C5-O1
2	A	601	C0N	N1-C2-C5-N3
2	B	601	C0N	N1-C2-C5-N3
2	B	601	C0N	N1-C2-C5-O1
2	A	601	C0N	C1-C2-C5-N3
2	B	601	C0N	C1-C2-C5-N3
2	A	601	C0N	N1-C2-C5-O1
2	A	601	C0N	C24-C23-O2-S1
2	B	601	C0N	O3-C19-C20-C25
2	B	601	C0N	N8-C19-C20-C25
2	B	601	C0N	O3-C19-C20-C21
2	B	601	C0N	N8-C19-C20-C21
2	A	601	C0N	C22-C23-O2-S1
2	B	601	C0N	N5-C11-C12-C13
2	A	601	C0N	C10-C11-C12-C13

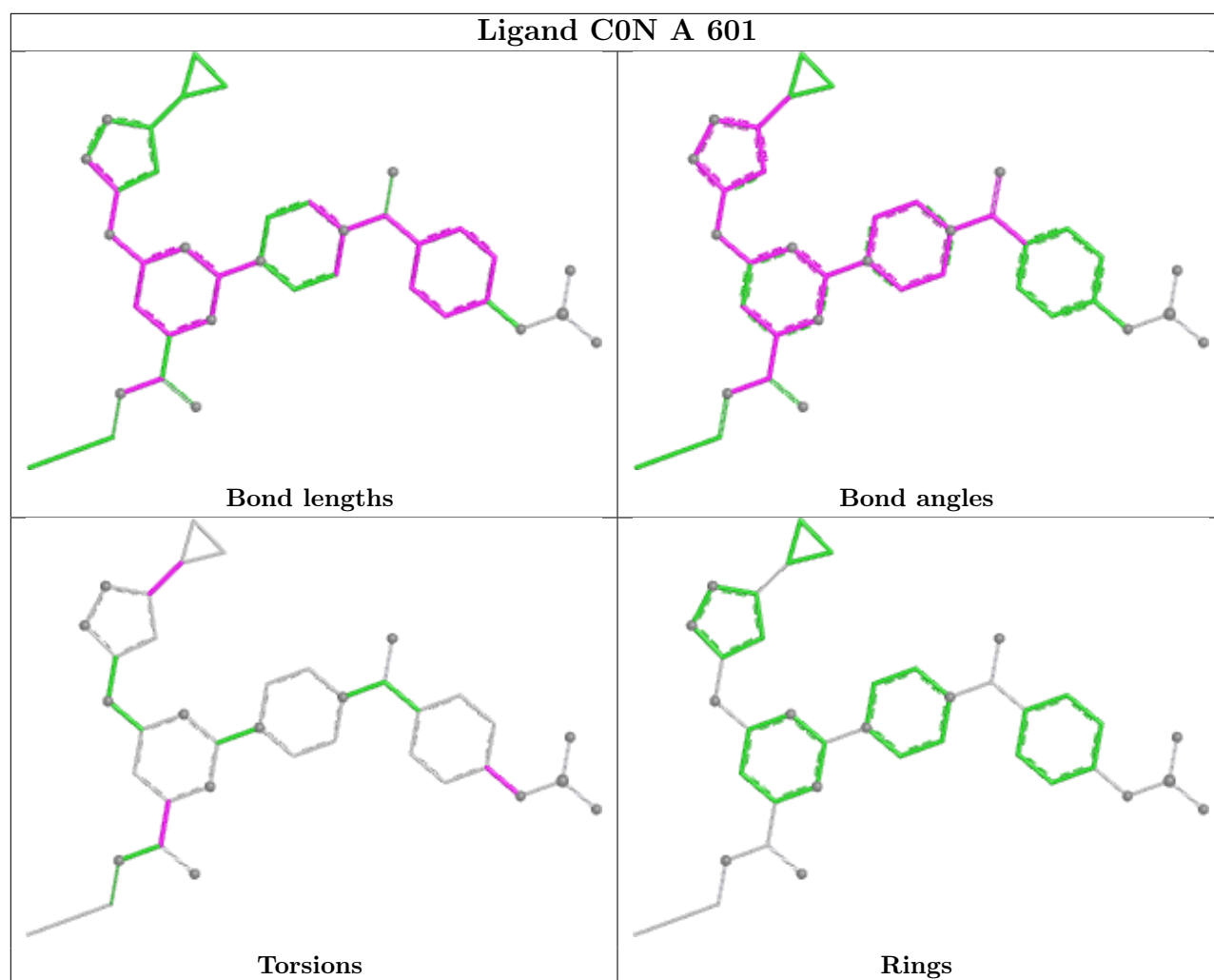
There are no ring outliers.

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 [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	242/283 (85%)	1.56	66 (27%)  	17, 30, 80, 98	1 (0%)
1	B	238/283 (84%)	1.58	65 (27%)  	16, 32, 77, 95	0
All	All	480/566 (84%)	1.57	131 (27%)  	16, 31, 79, 98	1 (0%)

All (131) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	269	SER	6.7
1	B	282	GLY	5.1
1	A	285	TRP	5.1
1	A	338	TYR	4.6
1	B	274	VAL	4.5
1	A	410	LEU	4.5
1	A	290	ASN	4.5
1	A	283	GLU	4.5
1	A	277	GLY	4.2
1	B	300	LEU	4.2
1	B	297	ILE	4.2
1	B	316	VAL	4.1
1	A	284	VAL	4.1
1	B	315	GLN	4.1
1	B	314	ALA	4.0
1	A	336	PRO	4.0
1	A	274	VAL	3.9
1	A	331	VAL	3.9
1	A	271	ARG	3.9
1	A	347	GLY	3.9
1	A	295	VAL	3.9
1	B	285	TRP	3.9
1	B	272	LEU	3.8
1	A	291	GLY	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	283	GLU	3.8
1	B	408	PHE	3.7
1	A	334	GLU	3.7
1	A	411	ALA	3.7
1	B	290	ASN	3.5
1	B	277	GLY	3.5
1	B	293	THR	3.5
1	B	360	TYR	3.5
1	A	265	ILE	3.4
1	A	316	VAL	3.4
1	B	284	VAL	3.4
1	B	289	TRP	3.3
1	B	358	GLY	3.3
1	B	265	ILE	3.3
1	A	493	SER	3.3
1	B	456	THR	3.1
1	A	337	ILE	3.0
1	A	358	GLY	3.0
1	A	286	MET	3.0
1	B	331	VAL	3.0
1	A	287	GLY	3.0
1	A	315	GLN	3.0
1	B	335	GLU	3.0
1	B	474	VAL	3.0
1	A	289	TRP	3.0
1	A	267	ARG	2.9
1	A	332	VAL	2.9
1	A	292	THR	2.9
1	A	511	THR	2.9
1	A	293	THR	2.9
1	B	431	TRP	2.8
1	B	266	PRO	2.8
1	A	530	TYR	2.7
1	B	291	GLY	2.7
1	B	334	GLU	2.7
1	B	390	LEU	2.7
1	B	478	VAL	2.7
1	A	352	PHE	2.7
1	B	296	ALA	2.7
1	A	270	LEU	2.7
1	A	475	LEU	2.7
1	A	299	THR	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	297	ILE	2.6
1	A	346	LYS	2.6
1	B	292	THR	2.6
1	A	476	ASP	2.6
1	B	374	ALA	2.6
1	A	392	ALA	2.6
1	B	268	GLU	2.6
1	B	288	THR	2.5
1	A	339	ILE	2.5
1	A	317	MET	2.5
1	A	269	SER	2.5
1	A	335	GLU	2.5
1	A	473	GLU	2.5
1	A	492	GLU	2.5
1	B	336	PRO	2.4
1	A	397	VAL	2.3
1	B	389	ASP	2.3
1	B	263	TRP	2.3
1	B	530	TYR	2.3
1	B	504	LYS	2.3
1	B	337	ILE	2.3
1	B	332	VAL	2.3
1	B	405	VAL	2.3
1	A	433	ALA	2.3
1	B	298	LYS	2.3
1	B	459	THR	2.3
1	A	340	VAL	2.3
1	B	452	GLY	2.3
1	A	483	ARG	2.3
1	B	450	SER	2.3
1	B	493	SER	2.3
1	A	266	PRO	2.2
1	B	432	THR	2.2
1	B	352	PHE	2.2
1	B	437	ALA	2.2
1	A	413	LEU	2.2
1	B	475	LEU	2.2
1	A	387	HIS	2.2
1	B	398	GLY	2.2
1	B	458	LEU	2.2
1	A	341	THR	2.2
1	A	360	TYR	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	525	SER	2.2
1	A	497	LEU	2.2
1	A	478	VAL	2.2
1	A	275	LYS	2.2
1	B	433	ALA	2.2
1	A	529	GLN	2.1
1	A	468	GLY	2.1
1	A	390	LEU	2.1
1	A	260	LYS	2.1
1	A	261	ASP	2.1
1	B	460	THR	2.1
1	A	263	TRP	2.1
1	B	275	LYS	2.1
1	B	264	GLU	2.1
1	B	356	GLU	2.1
1	B	482	TYR	2.1
1	B	286	MET	2.0
1	B	276	LEU	2.0
1	B	347	GLY	2.0
1	A	314	ALA	2.0
1	B	261	ASP	2.0
1	B	435	GLU	2.0
1	A	470	VAL	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 [i](#)

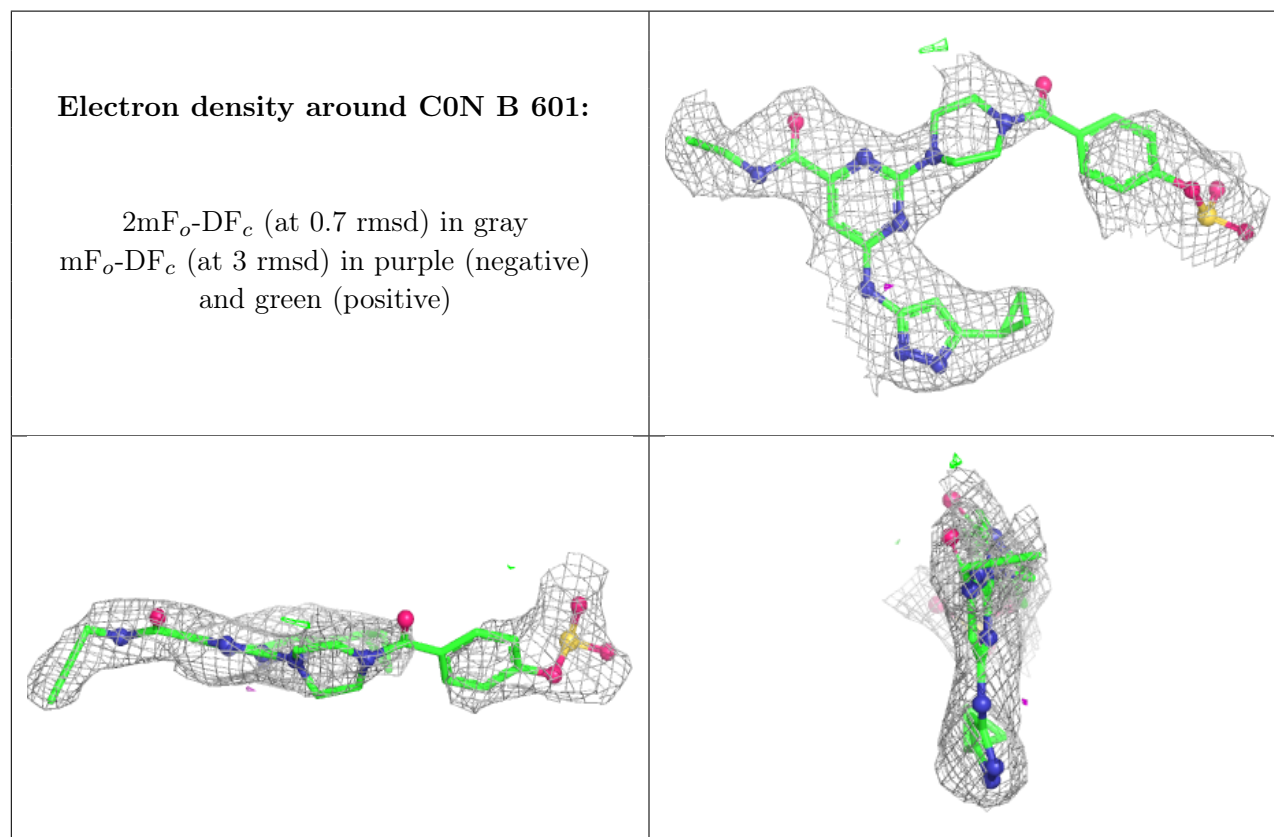
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists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

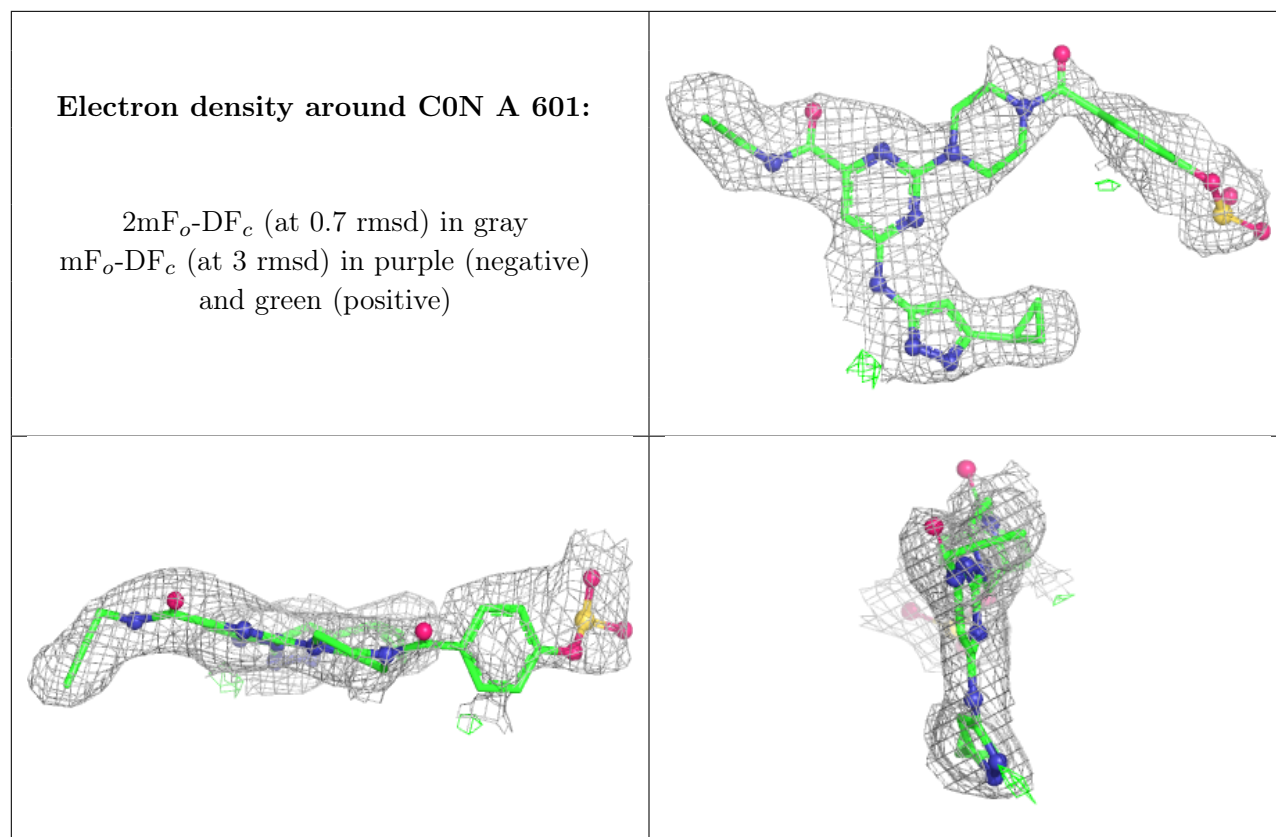
Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	C0N	B	601	39/39	0.79	0.21	31,44,110,141	0
2	C0N	A	601	39/39	0.83	0.16	26,44,97,126	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.





6.5 Other polymers [i](#)

There are no such residues in this entry.