



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 03:41 AM UTC

PDB ID : 4ZJI / pdb_00004zji
Title : PAK1 in complex with 2-chloro-5-ethyl-8-fluoro-11-(4-methylpiperazin-1-yl)-dibenzodiazepine
Authors : Gutmann, S.; Rummel, G.
Deposited on : 2015-04-29
Resolution : 1.99 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

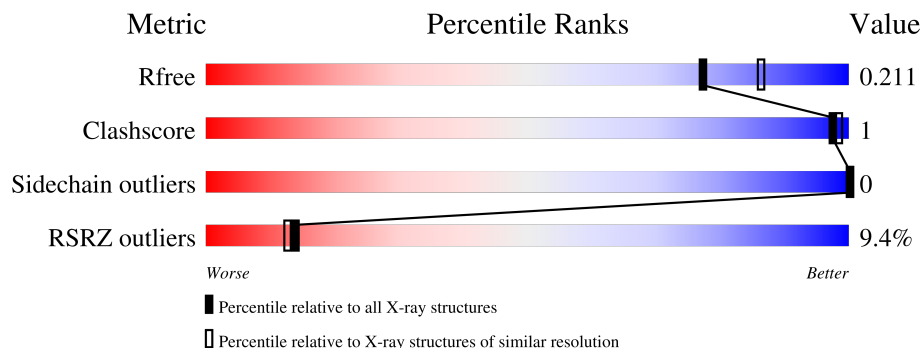
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.99 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)
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	299	5% 89% 7%
1	B	299	9% 89% 8%
1	C	299	9% 91% 6%
1	D	299	11% 90% 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9330 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.

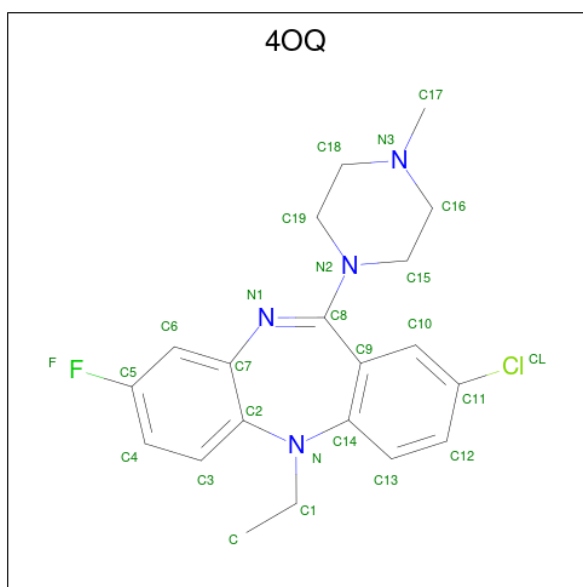
- Molecule 1 is a protein called Serine/threonine-protein kinase PAK 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	278	Total	C	N	O	S	0	1	0
			2140	1365	353	405	17			
1	B	276	Total	C	N	O	S	0	1	0
			2087	1332	342	396	17			
1	C	281	Total	C	N	O	S	0	1	0
			2106	1340	349	402	15			
1	D	280	Total	C	N	O	S	0	2	0
			2096	1334	348	399	15			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	247	GLY	-	expression tag	UNP Q13153
A	248	PRO	-	expression tag	UNP Q13153
B	247	GLY	-	expression tag	UNP Q13153
B	248	PRO	-	expression tag	UNP Q13153
C	247	GLY	-	expression tag	UNP Q13153
C	248	PRO	-	expression tag	UNP Q13153
D	247	GLY	-	expression tag	UNP Q13153
D	248	PRO	-	expression tag	UNP Q13153

- Molecule 2 is 2-chloro-5-ethyl-8-fluoro-11-(4-methylpiperazin-1-yl)-dibenzodiazepine (CCD ID: 4OQ) (formula: C₂₀H₂₂ClFN₄).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	N	0	0
			26	20	1	1	4		
2	B	1	Total	C	Cl	F	N	0	0
			26	20	1	1	4		
2	C	1	Total	C	Cl	F	N	0	0
			26	20	1	1	4		
2	D	1	Total	C	Cl	F	N	0	0
			26	20	1	1	4		

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	1	Total	Mg	0	0
			1	1		
3	D	1	Total	Mg	0	0
			1	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	220	Total	O	0	0
			220	220		
4	B	167	Total	O	0	0
			167	167		
4	C	199	Total	O	0	0
			199	199		

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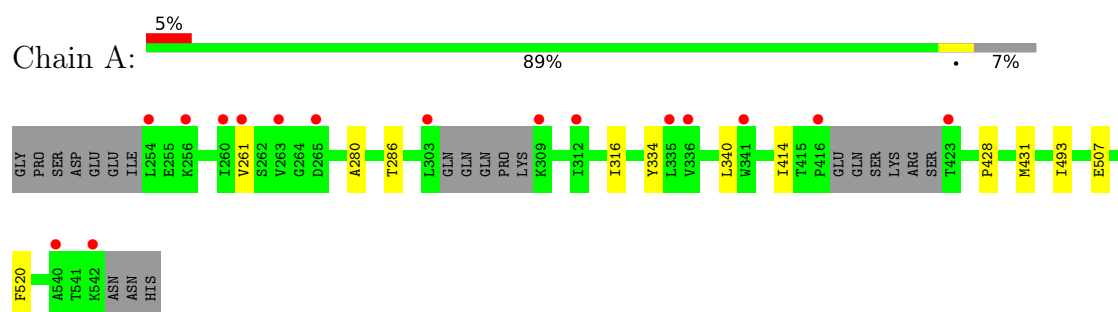
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	209	Total 209	O 209	0	0

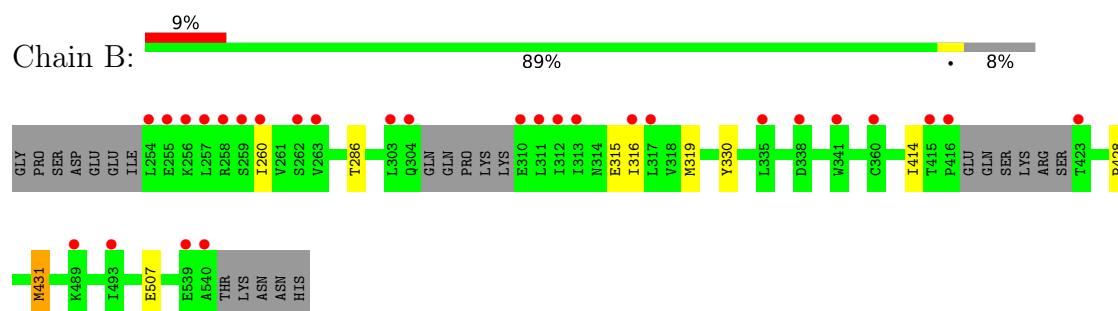
3 Residue-property plots [i](#)

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.

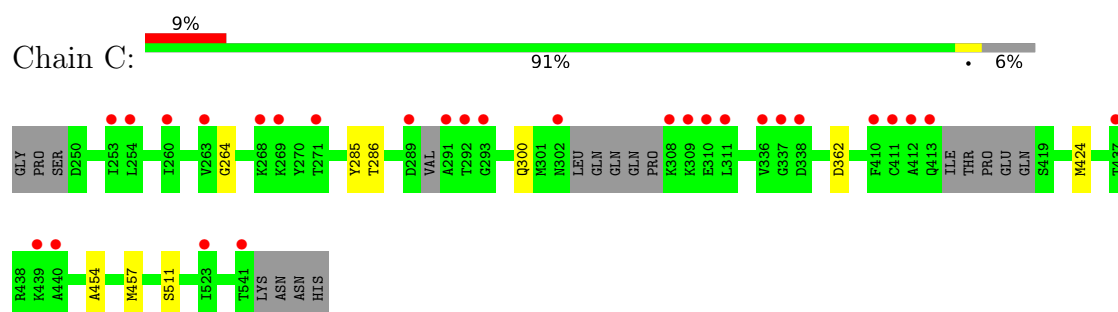
- Molecule 1: Serine/threonine-protein kinase PAK 1



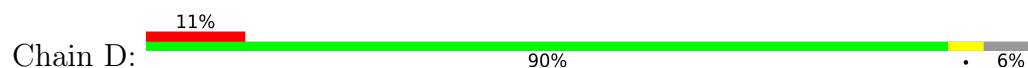
- Molecule 1: Serine/threonine-protein kinase PAK 1

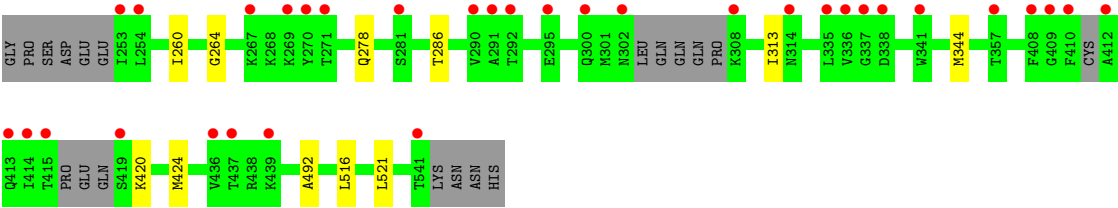


- Molecule 1: Serine/threonine-protein kinase PAK 1



- Molecule 1: Serine/threonine-protein kinase PAK 1





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	110.52Å 115.06Å 116.36Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	81.81 – 1.99 81.81 – 1.99	Depositor EDS
% Data completeness (in resolution range)	98.8 (81.81-1.99) 98.8 (81.81-1.99)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.09 (at 1.98Å)	Xtriage
Refinement program	BUSTER 2.11.5	Depositor
R, R_{free}	0.191 , 0.220 (Not available) , 0.211	Depositor DCC
R_{free} test set	5065 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	25.9	Xtriage
Anisotropy	0.476	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 51.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.018 for -h,l,k 0.000 for -l,-k,-h 0.000 for k,h,-l 0.000 for k,l,h 0.000 for l,h,k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9330	wwPDB-VP
Average B, all atoms (Å ²)	33.0	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 44.80 % 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 1.4493e-04. 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, 4OQ

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	0.85	1/2178 (0.0%)	1.06	2/2952 (0.1%)
1	B	0.83	1/2122 (0.0%)	1.08	5/2882 (0.2%)
1	C	0.83	0/2139	1.10	4/2905 (0.1%)
1	D	0.84	1/2132 (0.0%)	1.11	5/2897 (0.2%)
All	All	0.83	3/8571 (0.0%)	1.09	16/11636 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	431	MET	SD-CE	-7.28	1.61	1.79
1	B	431	MET	SD-CE	-7.24	1.61	1.79
1	D	344	MET	SD-CE	-5.14	1.66	1.79

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	264	GLY	N-CA-C	6.42	118.56	112.08
1	B	315	GLU	CB-CG-CD	6.37	123.43	112.60
1	D	420	LYS	N-CA-C	-5.81	105.08	111.82
1	C	286	THR	N-CA-C	-5.62	101.11	110.17
1	B	414	ILE	N-CA-C	-5.61	102.29	109.30
1	C	511	SER	N-CA-C	-5.43	103.53	110.53
1	B	260	ILE	CA-C-N	5.38	128.39	120.91
1	B	260	ILE	C-N-CA	5.38	128.39	120.91
1	D	264	GLY	N-CA-C	5.37	117.54	111.85
1	D	286	THR	N-CA-C	-5.29	101.66	110.17
1	B	286	THR	N-CA-C	-5.26	101.69	110.17
1	A	414	ILE	N-CA-C	-5.22	102.78	109.30
1	A	286	THR	N-CA-C	-5.05	102.04	110.17
1	D	492	ALA	CA-C-N	5.04	126.92	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	492	ALA	C-N-CA	5.04	126.92	120.56
1	C	362	ASP	CA-CB-CG	5.04	117.64	112.60

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	2140	0	2158	6	0
1	B	2087	0	2058	5	0
1	C	2106	0	2049	4	0
1	D	2096	0	2036	4	0
2	A	26	0	22	0	0
2	B	26	0	22	0	0
2	C	26	0	22	0	0
2	D	26	0	22	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	220	0	0	0	0
4	B	167	0	0	0	0
4	C	199	0	0	0	0
4	D	209	0	0	0	0
All	All	9330	0	8389	14	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 1.

All (14) 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:316:ILE:HD11	1:A:340:LEU:HD21	1.86	0.57
1:A:493:ILE:HD12	1:A:520:PHE:HA	1.90	0.53
1:B:431:MET:HE1	1:C:424:MET:SD	2.50	0.52
1:B:428:PRO:HD3	1:C:424:MET:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:PRO:HD3	1:D:424:MET:HB2	1.96	0.48
1:A:261:VAL:HG13	1:A:334:TYR:HA	1.96	0.46
1:A:507:GLU:HB2	1:B:507:GLU:HB2	1.97	0.46
1:C:285:TYR:HE2	1:C:300:GLN:HG2	1.80	0.45
1:B:316:ILE:HA	1:B:319:MET:HE3	1.98	0.45
1:A:280:ALA:HA	1:D:278:GLN:O	2.19	0.43
1:C:454:ALA:HA	1:C:457:MET:HE3	2.02	0.42
1:D:260:ILE:HD13	1:D:313:ILE:HG23	2.02	0.42
1:D:516:LEU:HA	1:D:521:LEU:HD12	2.03	0.41
1:B:319:MET:HB3	1:B:330:TYR:HB2	2.02	0.41

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

There are no protein backbone outliers to report in this entry.

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	C	21/259 (8%)	21 (100%)	0	100	100
1	D	216/259 (83%)	216 (100%)	0	100	100
All	All	237/518 (46%)	237 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	326	ASN

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Mol	Chain	Res	Type
1	D	375	GLN
1	D	479	ASN
1	D	485	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](#)

Of 6 ligands modelled in this entry, 2 are monoatomic - leaving 4 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	$\# Z > 2$
2	4OQ	D	601	-	29,29,29	0.40	0	39,42,42	0.35	0
2	4OQ	B	601	-	29,29,29	0.41	0	39,42,42	0.42	0
2	4OQ	A	601	-	29,29,29	0.45	0	39,42,42	0.44	0
2	4OQ	C	601	-	29,29,29	0.46	0	39,42,42	0.41	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	4OQ	D	601	-	-	1/6/32/32	0/4/4/4
2	4OQ	B	601	-	-	1/6/32/32	0/4/4/4
2	4OQ	A	601	-	-	1/6/32/32	0/4/4/4
2	4OQ	C	601	-	-	1/6/32/32	0/4/4/4

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

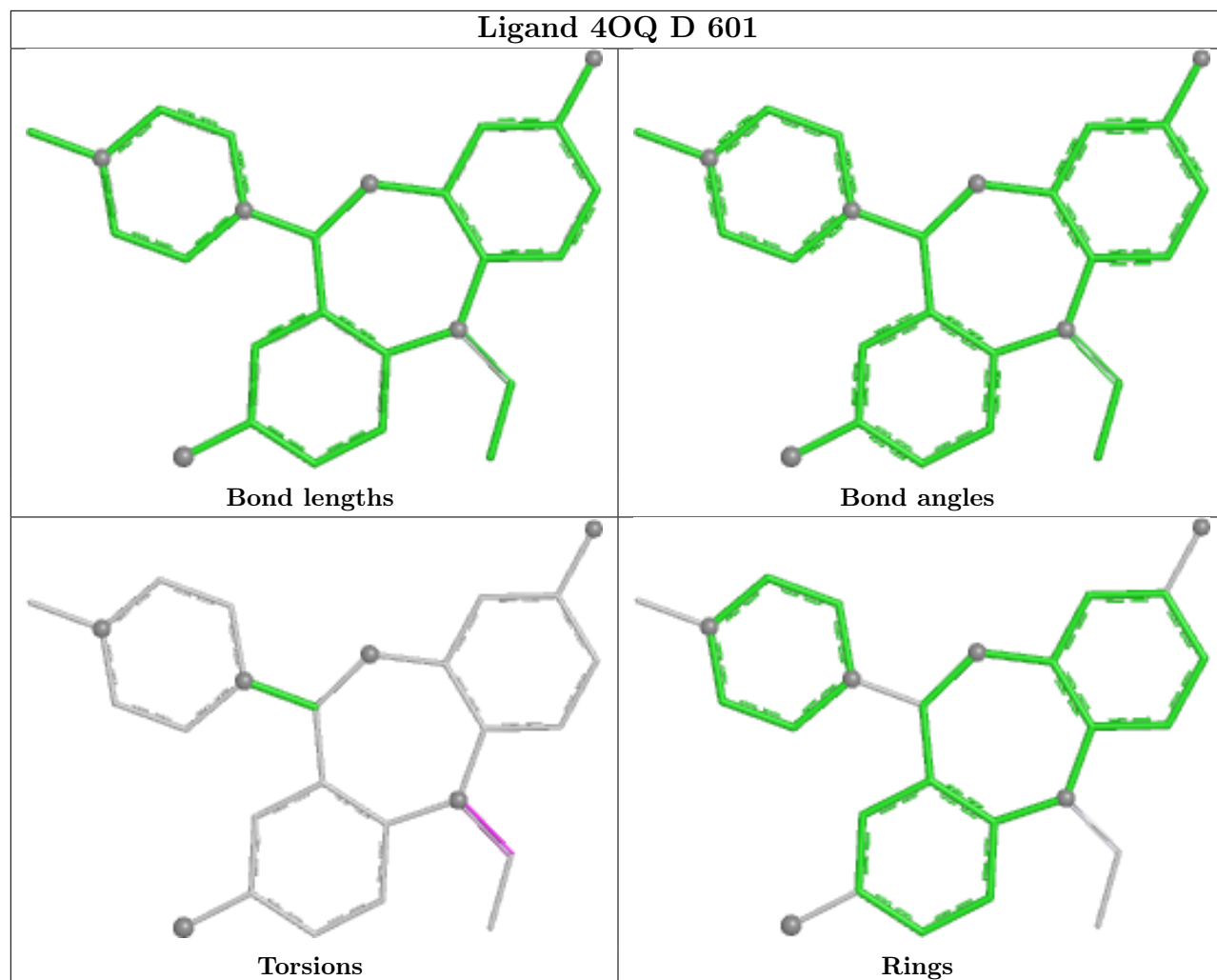
Mol	Chain	Res	Type	Atoms
2	A	601	4OQ	C-C1-N-C14
2	B	601	4OQ	C-C1-N-C14
2	C	601	4OQ	C-C1-N-C14
2	D	601	4OQ	C-C1-N-C14

There are no ring outliers.

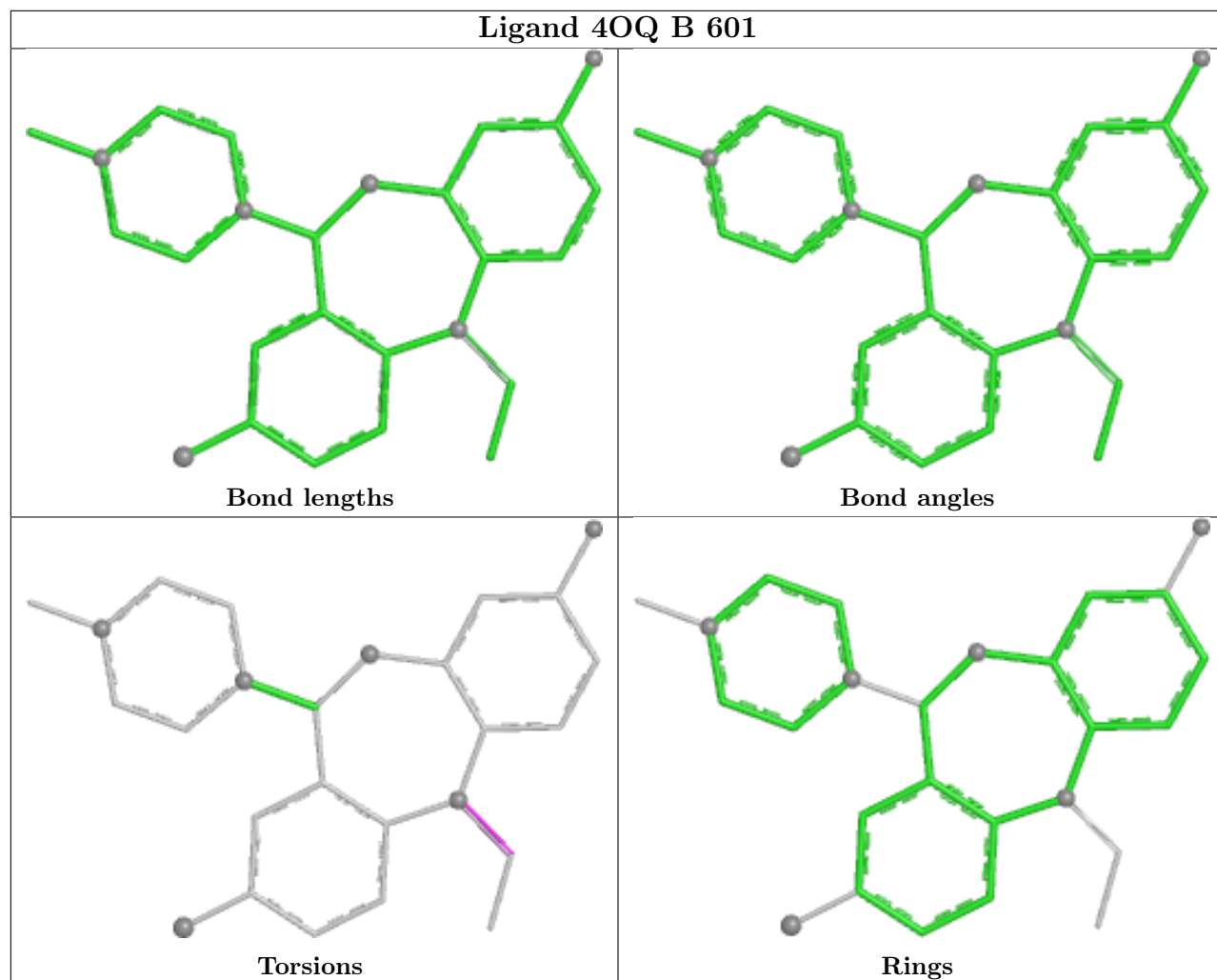
No monomer is involved in short contacts.

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.

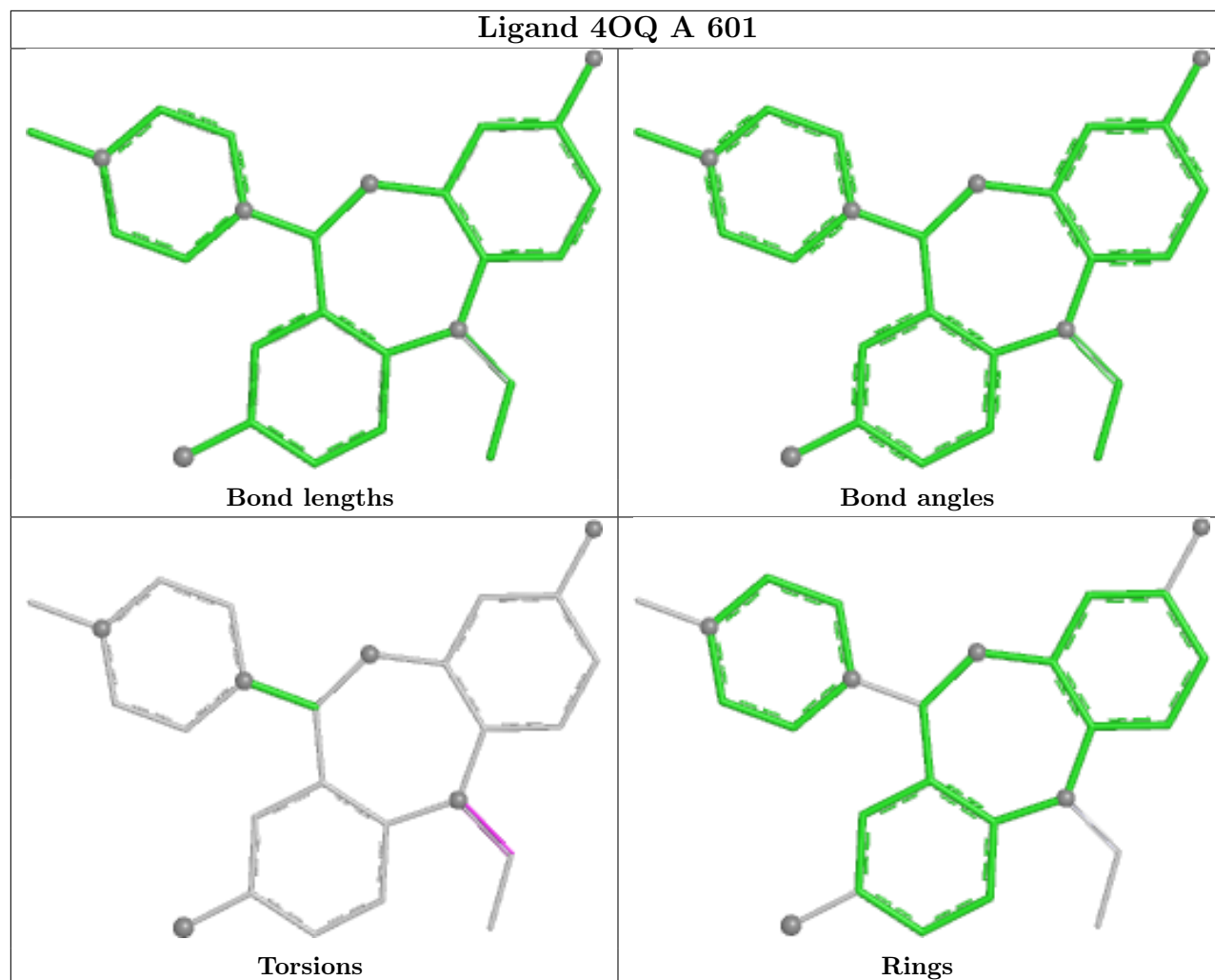
Ligand 4OQ D 601

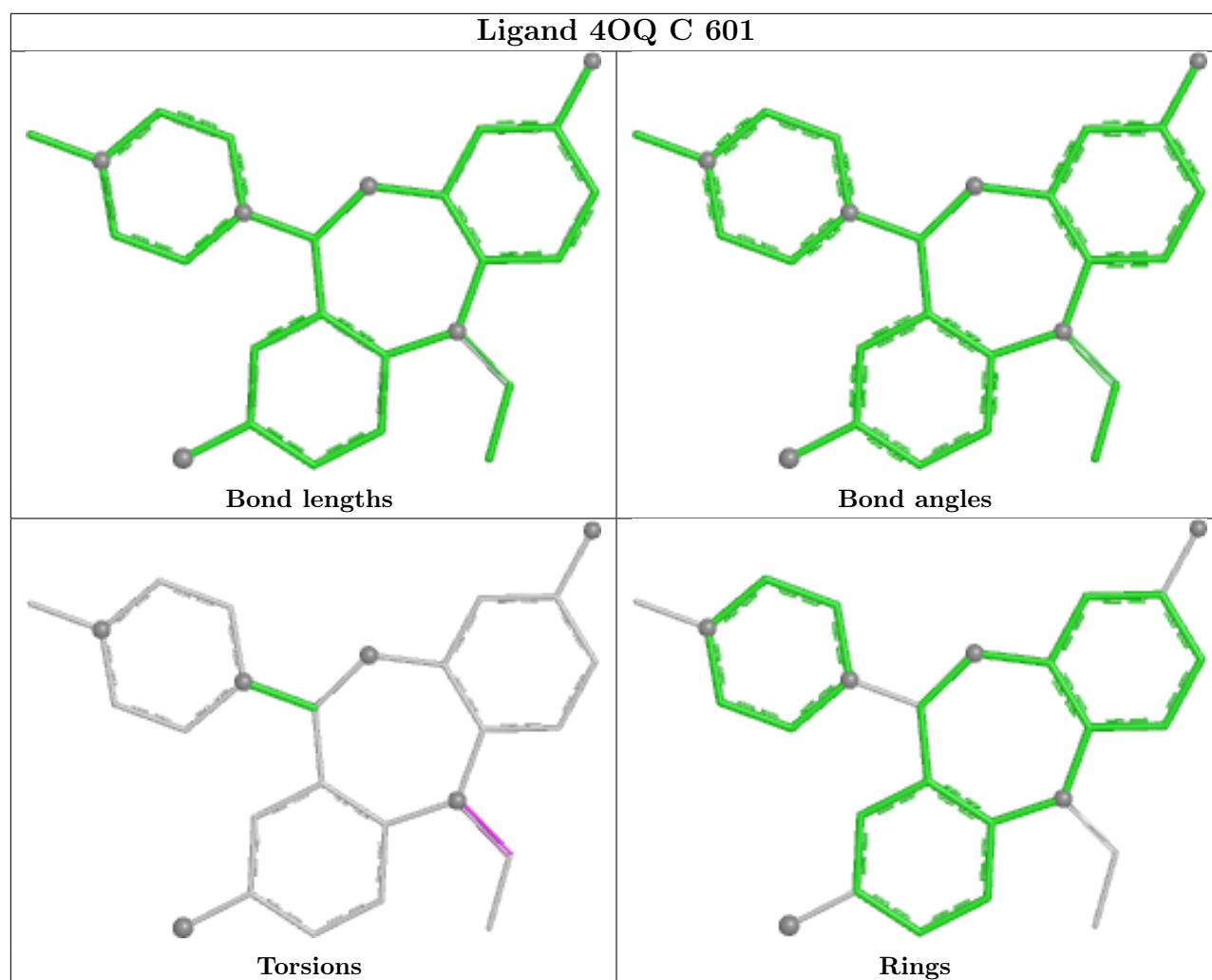


Ligand 4OQ B 601



Ligand 4OQ A 601





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	278/299 (92%)	0.08	16 (5%)	29 27	13, 25, 54, 76	1 (0%)
1	B	276/299 (92%)	0.39	28 (10%)	12 11	12, 32, 62, 88	1 (0%)
1	C	281/299 (93%)	0.38	28 (9%)	12 11	11, 30, 59, 84	1 (0%)
1	D	280/299 (93%)	0.48	33 (11%)	9 8	13, 30, 59, 72	2 (0%)
All	All	1115/1196 (93%)	0.33	105 (9%)	14 13	11, 29, 60, 88	5 (0%)

All (105) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	415	THR	7.8
1	D	412	ALA	7.6
1	B	540	ALA	7.0
1	C	291	ALA	6.0
1	A	254	LEU	5.8
1	C	302	ASN	5.5
1	D	410	PHE	5.5
1	B	304	GLN	5.3
1	A	303	LEU	5.0
1	C	411	CYS	4.9
1	D	291	ALA	4.9
1	D	439	LYS	4.8
1	C	412	ALA	4.6
1	B	416	PRO	4.4
1	B	260	ILE	4.3
1	D	253	ILE	4.3
1	C	292	THR	4.3
1	A	309	LYS	4.1
1	C	541	THR	4.1
1	A	540	ALA	3.9
1	D	541	THR	3.9

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Mol	Chain	Res	Type	RSRZ
1	D	290	VAL	3.8
1	A	542	LYS	3.7
1	D	336	VAL	3.7
1	D	413	GLN	3.6
1	C	413	GLN	3.6
1	B	423	THR	3.6
1	B	254	LEU	3.6
1	C	439	LYS	3.5
1	D	414	ILE	3.5
1	B	263	VAL	3.4
1	D	341	TRP	3.3
1	B	539	GLU	3.2
1	A	416	PRO	3.1
1	D	270	TYR	3.1
1	B	310	GLU	3.1
1	B	313	ILE	3.0
1	A	263	VAL	3.0
1	D	295	GLU	3.0
1	D	335	LEU	2.9
1	C	308	LYS	2.9
1	A	260	ILE	2.9
1	C	289	ASP	2.9
1	C	268	LYS	2.9
1	C	410	PHE	2.8
1	B	311	LEU	2.8
1	B	312	ILE	2.8
1	A	423	THR	2.8
1	B	256	LYS	2.8
1	B	341	TRP	2.8
1	C	271	THR	2.8
1	B	303	LEU	2.7
1	B	493	ILE	2.7
1	D	254	LEU	2.6
1	B	316	ILE	2.6
1	C	523	ILE	2.6
1	B	255	GLU	2.6
1	B	262	SER	2.6
1	D	292	THR	2.6
1	A	341	TRP	2.6
1	C	309	LYS	2.6
1	B	257	LEU	2.5
1	D	302	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	293	GLY	2.5
1	D	314[A]	ASN	2.5
1	C	336	VAL	2.5
1	D	267	LYS	2.5
1	C	311	LEU	2.5
1	B	259	SER	2.5
1	C	253	ILE	2.5
1	D	437	THR	2.5
1	B	338	ASP	2.4
1	A	335	LEU	2.4
1	D	408	PHE	2.3
1	A	312	ILE	2.3
1	C	260	ILE	2.3
1	D	357	THR	2.3
1	D	409	GLY	2.3
1	D	281	SER	2.3
1	D	308	LYS	2.3
1	C	263	VAL	2.3
1	D	419	SER	2.2
1	C	337	GLY	2.2
1	C	440	ALA	2.2
1	D	338	ASP	2.2
1	C	310	GLU	2.2
1	B	415	THR	2.2
1	B	317	LEU	2.2
1	C	254	LEU	2.2
1	D	300	GLN	2.1
1	D	271	THR	2.1
1	C	269	LYS	2.1
1	C	338	ASP	2.1
1	D	337	GLY	2.1
1	B	489	LYS	2.1
1	D	269	LYS	2.1
1	B	360	CYS	2.1
1	B	335	LEU	2.1
1	D	436	VAL	2.1
1	A	265	ASP	2.1
1	A	256	LYS	2.0
1	C	437	THR	2.0
1	A	261	VAL	2.0
1	A	336	VAL	2.0
1	B	258	ARG	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](#)

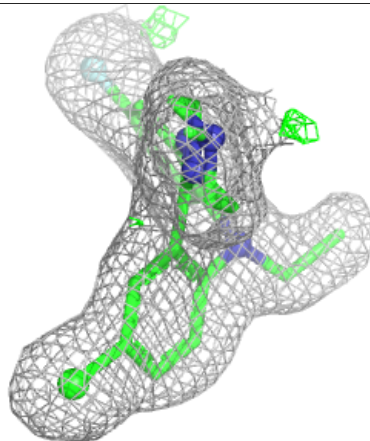
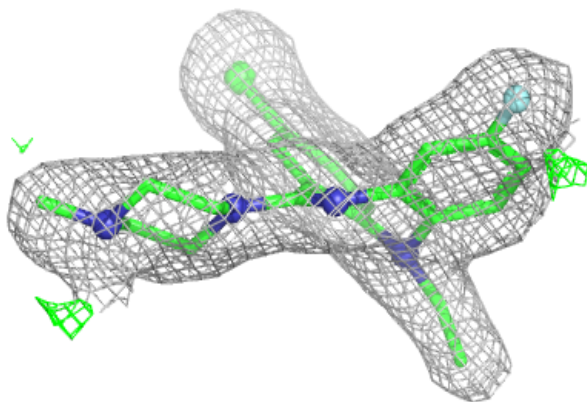
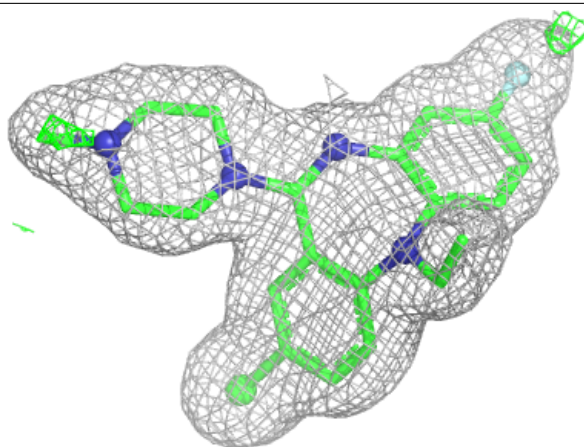
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	4OQ	C	601	26/26	0.96	0.07	24,28,35,37	0
2	4OQ	B	601	26/26	0.97	0.06	25,28,37,37	0
2	4OQ	A	601	26/26	0.98	0.05	16,23,27,30	0
2	4OQ	D	601	26/26	0.98	0.05	19,24,27,29	0
3	MG	D	602	1/1	0.98	0.03	30,30,30,30	0
3	MG	C	602	1/1	0.99	0.03	29,29,29,29	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.

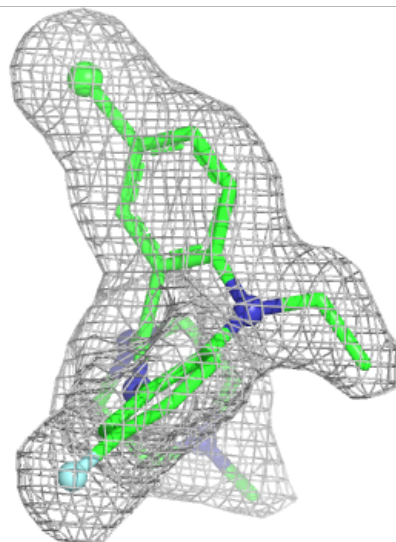
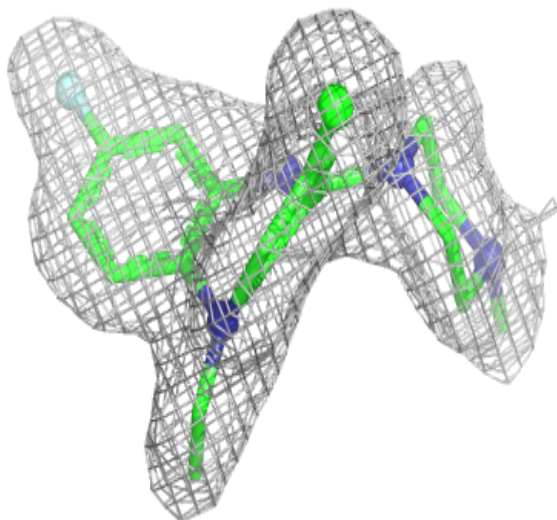
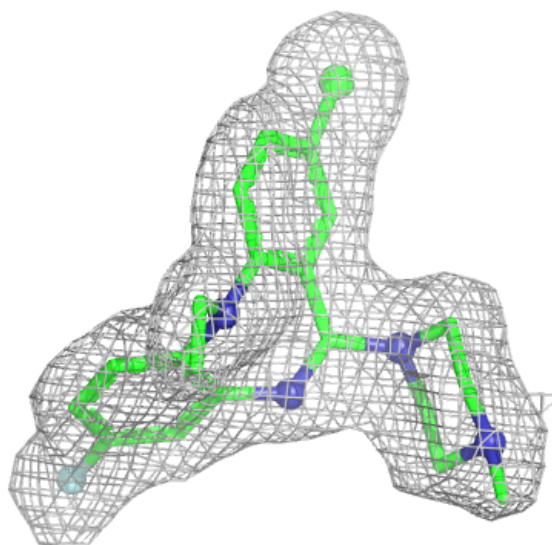
Electron density around 4OQ C 601:

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



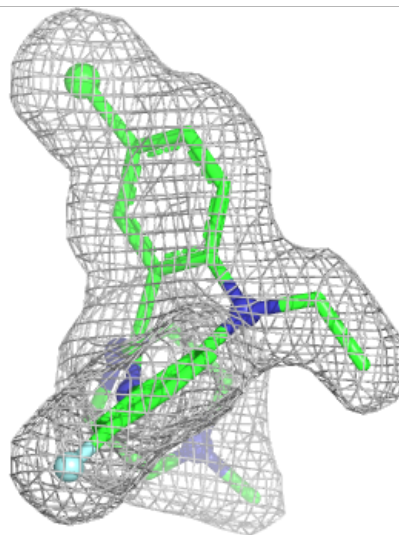
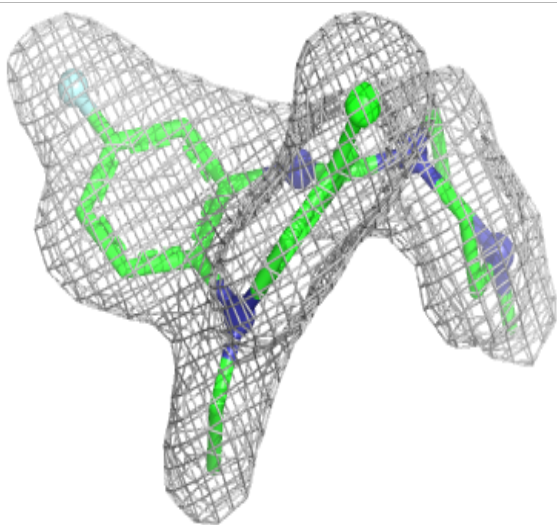
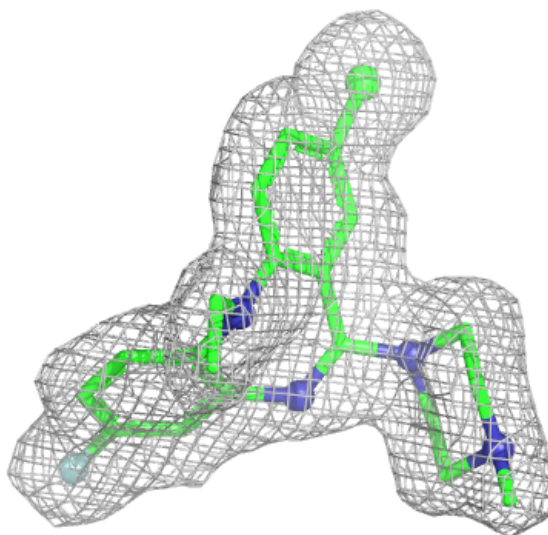
Electron density around 4OQ B 601:

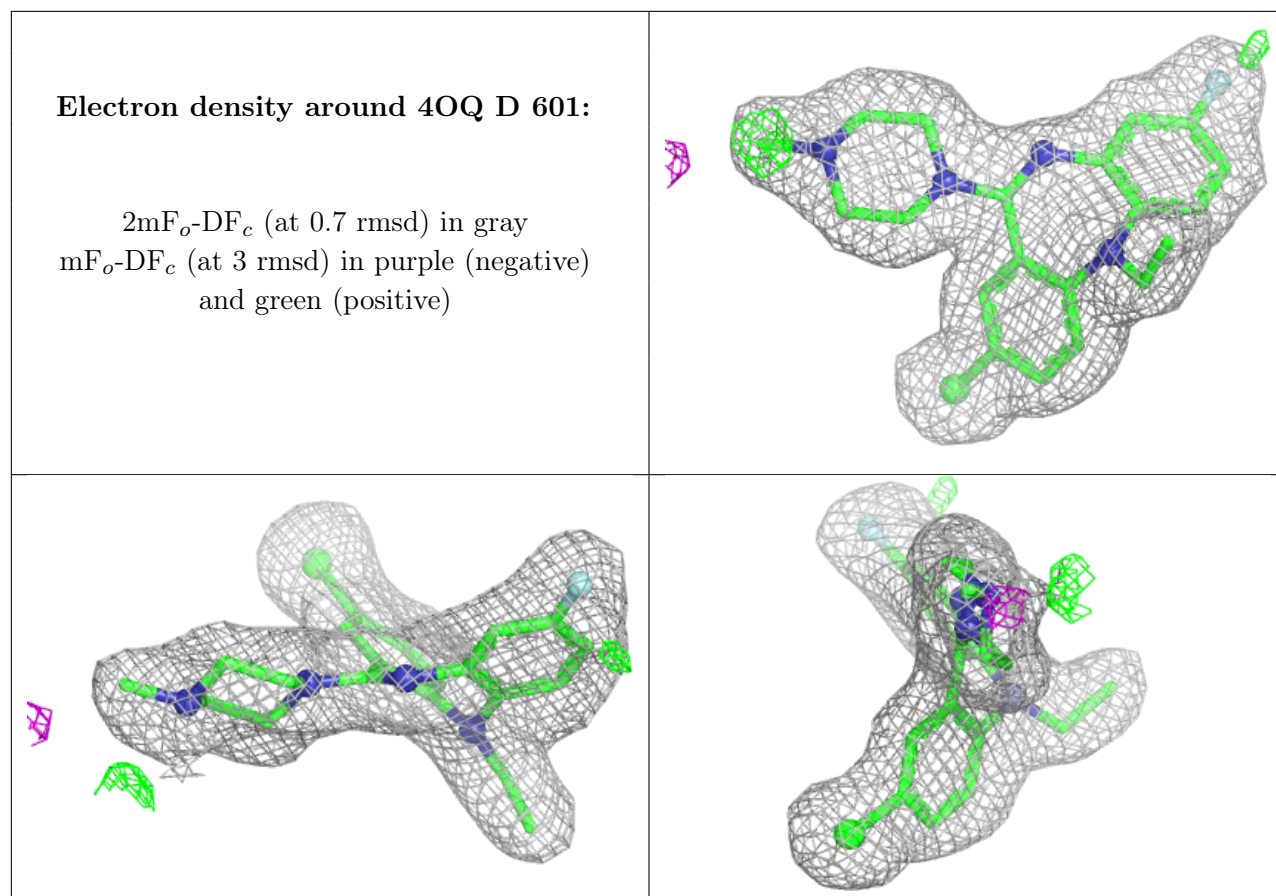
2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 4OQ A 601:

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.