



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 01:35 PM UTC

PDB ID : 4KFG / pdb_00004kfg
Title : The DNA Gyrase B ATP binding domain of Escherichia coli in complex with a small molecule inhibitor.
Authors : Bensen, D.C.; Akers-Rodriguez, S.; Lam, T.; Tari, L.W.
Deposited on : 2013-04-26
Resolution : 1.60 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

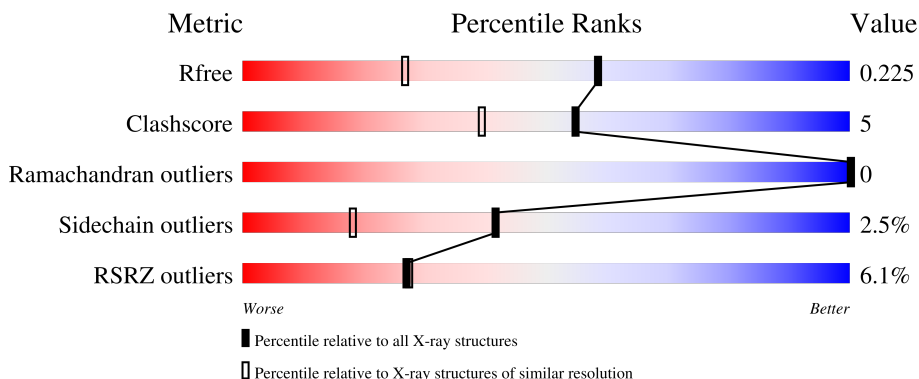
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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	4673 (1.60-1.60)
Clashscore	190562	4931 (1.60-1.60)
Ramachandran outliers	187476	4831 (1.60-1.60)
Sidechain outliers	187428	4830 (1.60-1.60)
RSRZ outliers	180081	4672 (1.60-1.60)

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	215	5% 80% 7% 12%
1	B	215	6% 81% 7% 11%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3395 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 DNA gyrase subunit B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	189	Total	C	N	O	S	0	3	0
			1482	931	262	283	6			
1	B	191	Total	C	N	O	S	0	1	0
			1486	931	263	286	6			

There are 18 discrepancies between the modelled and reference sequences:

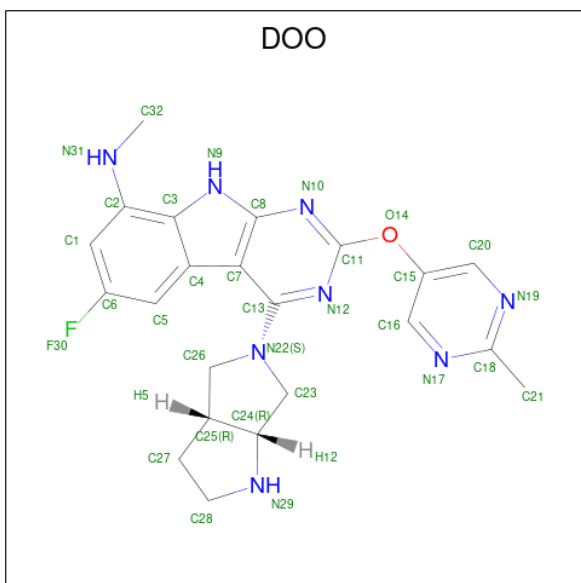
Chain	Residue	Modelled	Actual	Comment	Reference
A	14	MET	-	expression tag	UNP P0AES6
A	221	LEU	-	expression tag	UNP P0AES6
A	222	GLU	-	expression tag	UNP P0AES6
A	223	HIS	-	expression tag	UNP P0AES6
A	224	HIS	-	expression tag	UNP P0AES6
A	225	HIS	-	expression tag	UNP P0AES6
A	226	HIS	-	expression tag	UNP P0AES6
A	227	HIS	-	expression tag	UNP P0AES6
A	228	HIS	-	expression tag	UNP P0AES6
B	14	MET	-	expression tag	UNP P0AES6
B	221	LEU	-	expression tag	UNP P0AES6
B	222	GLU	-	expression tag	UNP P0AES6
B	223	HIS	-	expression tag	UNP P0AES6
B	224	HIS	-	expression tag	UNP P0AES6
B	225	HIS	-	expression tag	UNP P0AES6
B	226	HIS	-	expression tag	UNP P0AES6
B	227	HIS	-	expression tag	UNP P0AES6
B	228	HIS	-	expression tag	UNP P0AES6

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

- Molecule 3 is 6-fluoro-4-[(3aR,6aR)-hexahydropyrrolo[3,4-b]pyrrol-5(1H)-yl]-N-methyl-2-[(2-methylpyrimidin-5-yl)oxy]-9H-pyrimido[4,5-b]indol-8-amine (CCD ID: DOO) (formula: C₂₂H₂₃FN₈O).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	0	0
			32	22	1	8	1		
3	B	1	Total	C	F	N	O	0	0
			32	22	1	8	1		

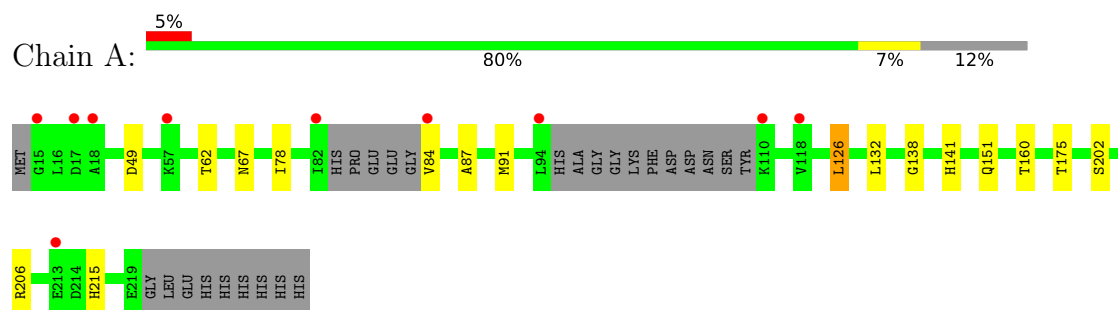
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	178	Total	O	0	0
			178	178		
4	B	170	Total	O	0	0
			170	170		

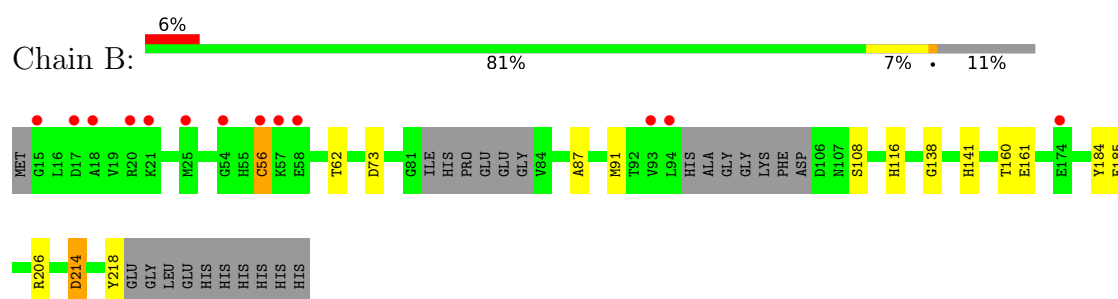
3 Residue-property plots [i](#)

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: DNA gyrase subunit B



• Molecule 1: DNA gyrase subunit B



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	47.89Å 82.48Å 53.74Å 90.00° 100.16° 90.00°	Depositor
Resolution (Å)	44.53 – 1.60 44.53 – 1.60	Depositor EDS
% Data completeness (in resolution range)	99.5 (44.53-1.60) 99.5 (44.53-1.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 1.60Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.192 , 0.221 0.198 , 0.225	Depositor DCC
R_{free} test set	2755 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å ²)	15.4	Xtriage
Anisotropy	0.161	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 31.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3395	wwPDB-VP
Average B, all atoms (Å ²)	21.0	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 42.05 % 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 2.1588e-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: SO4, DOO

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	0.74	0/1511	0.81	0/2039
1	B	0.75	0/1513	0.79	0/2042
All	All	0.74	0/3024	0.80	0/4081

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	1482	0	1478	13	0
1	B	1486	0	1469	12	0
2	A	10	0	0	0	0
2	B	5	0	0	0	0
3	A	32	0	23	4	0
3	B	32	0	23	1	0
4	A	178	0	0	4	0
4	B	170	0	0	4	0
All	All	3395	0	2993	29	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 (29) 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:141:HIS:HD2	4:A:555:HOH:O	1.74	0.70
1:A:141:HIS:HE1	4:A:533:HOH:O	1.78	0.66
1:B:218:TYR:C	4:B:472:HOH:O	2.41	0.62
1:A:91[A]:MET:HE3	1:A:91[A]:MET:HA	1.80	0.62
1:A:141:HIS:CD2	4:A:555:HOH:O	2.52	0.61
1:B:141:HIS:HE1	4:B:525:HOH:O	1.82	0.61
1:A:87:ALA:O	1:A:91[A]:MET:HG2	2.06	0.55
3:A:303:DOO:H2	3:A:303:DOO:C23	2.39	0.52
1:B:141:HIS:HD2	4:B:487:HOH:O	1.92	0.52
3:A:303:DOO:C5	3:A:303:DOO:H14	2.41	0.51
1:A:202:SER:OG	1:A:215:HIS:NE2	2.40	0.51
1:B:91[B]:MET:HE3	1:B:91[B]:MET:HA	1.90	0.51
1:A:91[B]:MET:HE3	1:A:132:LEU:HD13	1.94	0.50
1:B:184:TYR:OH	1:B:214:ASP:OD2	2.29	0.49
3:A:303:DOO:H2	3:A:303:DOO:H14	1.94	0.49
1:A:91[A]:MET:HE3	1:A:91[A]:MET:CA	2.42	0.49
1:A:126:LEU:HG	1:A:175:THR:HG21	1.95	0.47
1:B:56:CYS:SG	1:B:73:ASP:HB2	2.55	0.47
1:A:84:VAL:N	4:A:541:HOH:O	2.49	0.46
3:B:302:DOO:H2	3:B:302:DOO:C23	2.46	0.46
1:B:108:SER:OG	1:B:116:HIS:HD2	1.99	0.45
1:A:78:ILE:HG12	3:A:303:DOO:C13	2.47	0.45
1:A:62:THR:HA	1:A:206:ARG:O	2.17	0.44
1:A:138:GLY:HA2	1:A:160:THR:O	2.18	0.43
1:B:141:HIS:CE1	4:B:525:HOH:O	2.66	0.43
1:B:87:ALA:O	1:B:91[B]:MET:HG2	2.19	0.43
1:B:62:THR:HA	1:B:206:ARG:O	2.20	0.42
1:B:138:GLY:HA2	1:B:160:THR:O	2.21	0.41
1:B:91[B]:MET:HE3	1:B:91[B]:MET:CA	2.50	0.41

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	186/215 (86%)	183 (98%)	3 (2%)	0	100	100
1	B	186/215 (86%)	182 (98%)	4 (2%)	0	100	100
All	All	372/430 (86%)	365 (98%)	7 (2%)	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	162/180 (90%)	157 (97%)	5 (3%)	35	13
1	B	162/180 (90%)	158 (98%)	4 (2%)	42	18
All	All	324/360 (90%)	315 (97%)	9 (3%)	42	15

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	49	ASP
1	A	67[A]	ASN
1	A	67[B]	ASN
1	A	126	LEU
1	A	151	GLN
1	B	56	CYS
1	B	161	GLU
1	B	185	GLU
1	B	214	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	128	GLN

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Mol	Chain	Res	Type
1	A	141	HIS
1	A	143	GLN
1	A	151	GLN
1	A	217	HIS
1	B	67	ASN
1	B	116	HIS
1	B	128	GLN
1	B	135	GLN
1	B	141	HIS

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](#)

5 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	SO4	A	302	-	4,4,4	0.41	0	6,6,6	0.31	0
3	DOO	A	303	-	37,37,37	1.54	6 (16%)	45,55,55	2.89	19 (42%)
2	SO4	A	301	-	4,4,4	0.33	0	6,6,6	0.36	0
3	DOO	B	302	-	37,37,37	1.62	6 (16%)	45,55,55	2.72	15 (33%)
2	SO4	B	301	-	4,4,4	0.45	0	6,6,6	0.19	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
3	DOO	B	302	-	-	1/10/28/28	0/6/6/6
3	DOO	A	303	-	-	0/10/28/28	0/6/6/6

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	302	DOO	C3-C2	5.56	1.46	1.40
3	A	303	DOO	C3-C2	5.07	1.46	1.40
3	A	303	DOO	C4-C3	3.88	1.46	1.41
3	B	302	DOO	C4-C3	3.83	1.46	1.41
3	B	302	DOO	C7-C13	3.50	1.48	1.42
3	A	303	DOO	C7-C13	2.98	1.47	1.42
3	A	303	DOO	C3-N9	-2.59	1.34	1.38
3	B	302	DOO	C5-C6	2.37	1.41	1.37
3	A	303	DOO	C8-N9	-2.21	1.31	1.37
3	B	302	DOO	C3-N9	-2.16	1.35	1.38
3	B	302	DOO	C7-C8	2.16	1.46	1.43
3	A	303	DOO	C7-C8	2.13	1.46	1.43

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	302	DOO	C7-C8-N10	-9.17	120.89	126.75
3	A	303	DOO	C7-C8-N10	-8.82	121.11	126.75
3	A	303	DOO	C16-C15-C20	7.76	121.62	116.59
3	B	302	DOO	C16-C15-C20	6.28	120.67	116.59
3	B	302	DOO	C7-C13-N12	-6.25	114.75	122.39
3	A	303	DOO	C7-C13-N12	-6.19	114.81	122.39
3	A	303	DOO	C7-C4-C3	-5.52	102.66	105.98
3	B	302	DOO	C3-N9-C8	5.05	111.83	108.85
3	B	302	DOO	C7-C4-C3	-4.34	103.37	105.98
3	B	302	DOO	C15-C20-N19	-3.82	117.95	122.67
3	A	303	DOO	C3-N9-C8	3.78	111.09	108.85
3	A	303	DOO	C15-C20-N19	-3.74	118.05	122.67
3	A	303	DOO	C15-C16-N17	-3.67	118.14	122.67
3	B	302	DOO	N9-C8-N10	3.54	130.25	124.66
3	A	303	DOO	C21-C18-N17	3.50	120.93	117.20
3	B	302	DOO	C21-C18-N19	3.44	120.86	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	303	DOO	C13-C7-C8	3.23	118.25	115.61
3	A	303	DOO	C2-C1-C6	3.15	123.04	117.62
3	B	302	DOO	C13-C7-C8	3.12	118.16	115.61
3	A	303	DOO	N9-C8-N10	3.10	129.56	124.66
3	B	302	DOO	C26-C25-C24	3.09	109.33	103.97
3	A	303	DOO	C7-C13-N22	3.09	127.65	120.29
3	A	303	DOO	C20-N19-C18	3.03	121.04	116.07
3	B	302	DOO	C16-N17-C18	2.82	120.71	116.07
3	A	303	DOO	C5-C4-C3	2.81	122.78	119.67
3	B	302	DOO	C15-C16-N17	-2.81	119.20	122.67
3	A	303	DOO	C26-C25-C24	2.71	108.65	103.97
3	B	302	DOO	N17-C18-N19	-2.66	121.14	125.46
3	B	302	DOO	C20-N19-C18	2.59	120.33	116.07
3	B	302	DOO	C7-C13-N22	2.44	126.12	120.29
3	A	303	DOO	C1-C2-N31	2.37	126.63	121.52
3	A	303	DOO	N17-C18-N19	-2.23	121.85	125.46
3	A	303	DOO	C4-C3-C2	-2.21	118.76	121.55
3	A	303	DOO	C23-N22-C26	2.05	114.61	111.64

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	302	DOO	N12-C13-N22-C23

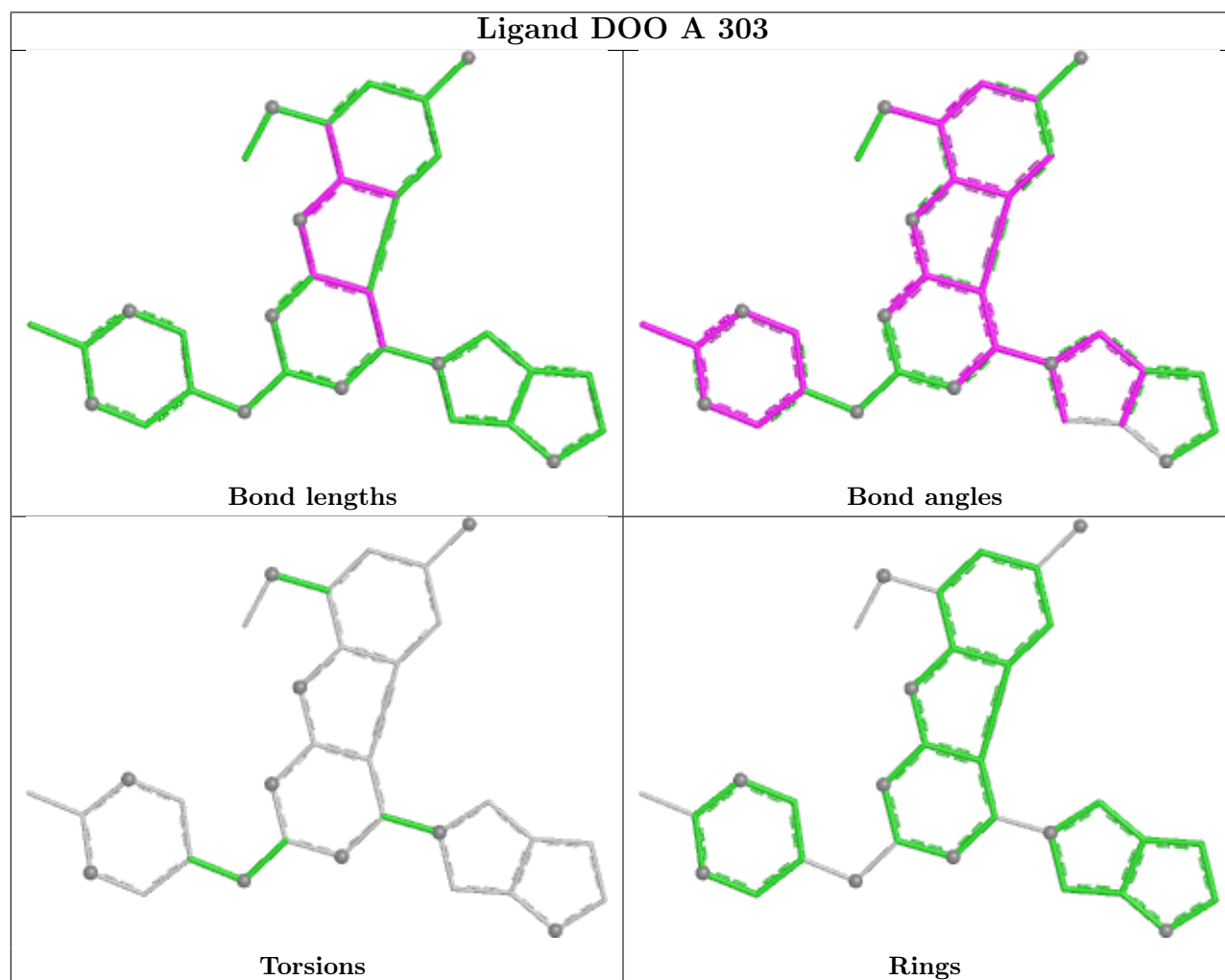
There are no ring outliers.

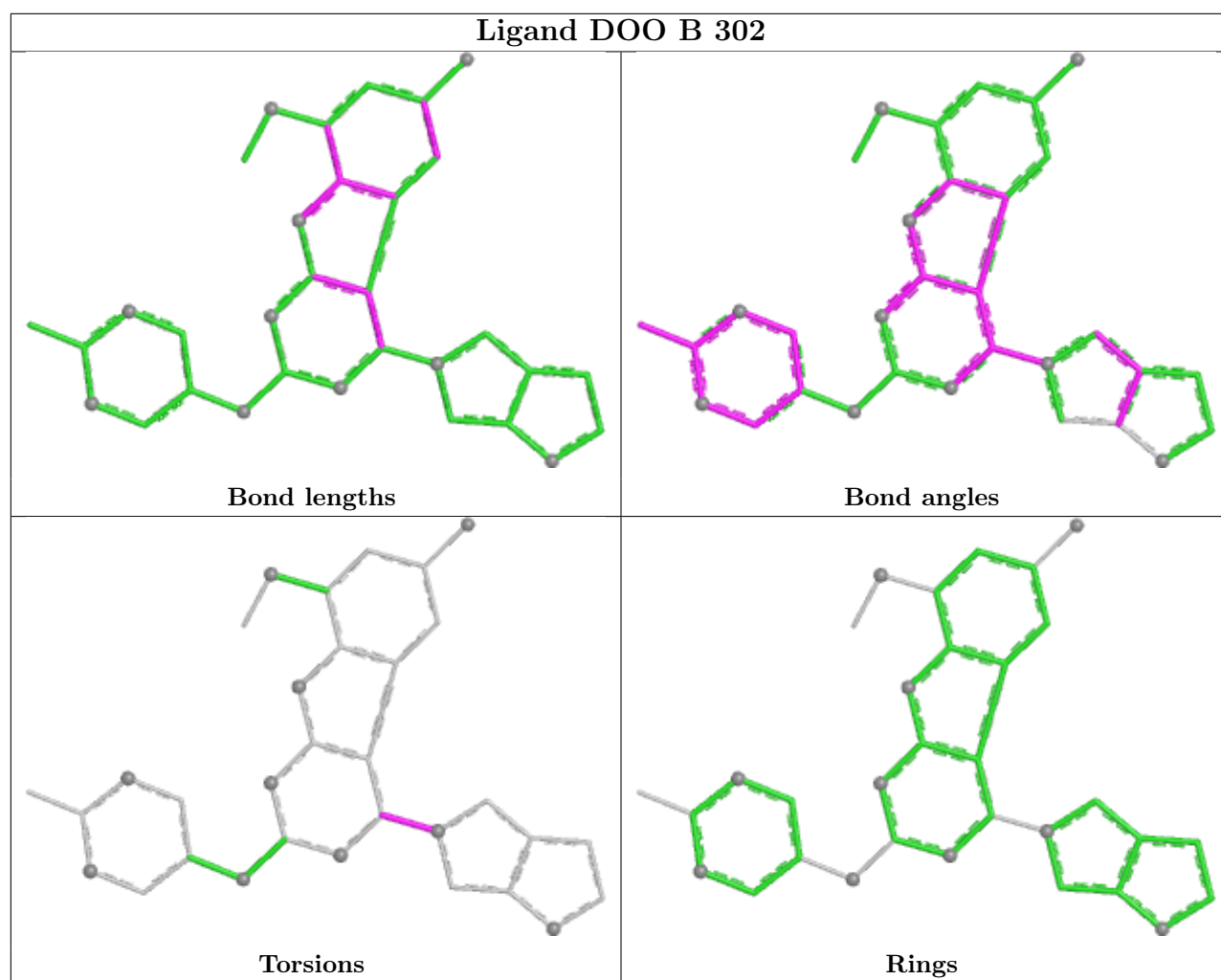
2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	303	DOO	4	0
3	B	302	DOO	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 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	189/215 (87%)	0.32	10 (5%) 32 33	9, 18, 30, 40	3 (1%)
1	B	191/215 (88%)	0.32	13 (6%) 23 24	13, 19, 33, 45	1 (0%)
All	All	380/430 (88%)	0.32	23 (6%) 27 27	9, 19, 33, 45	4 (1%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	56	CYS	6.2
1	A	15	GLY	5.6
1	B	57	LYS	4.7
1	A	82	ILE	4.6
1	B	94	LEU	4.3
1	A	94	LEU	3.7
1	A	118	VAL	3.1
1	B	93	VAL	3.0
1	B	15	GLY	3.0
1	A	57	LYS	2.9
1	B	25	MET	2.9
1	B	20	ARG	2.8
1	B	18	ALA	2.4
1	A	17	ASP	2.4
1	B	54	GLY	2.3
1	A	110	LYS	2.3
1	B	17	ASP	2.3
1	A	213	GLU	2.3
1	A	84	VAL	2.2
1	B	21	LYS	2.2
1	A	18	ALA	2.2
1	B	58	GLU	2.2
1	B	174	GLU	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

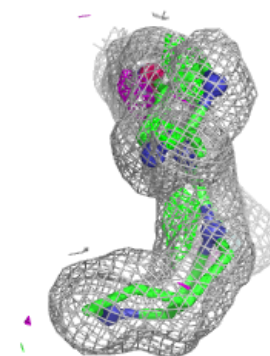
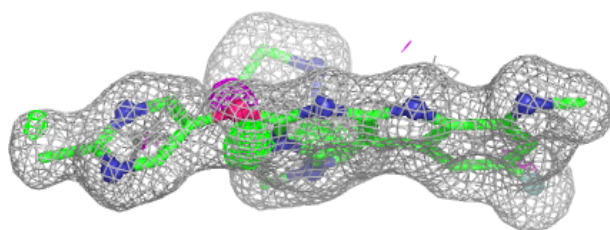
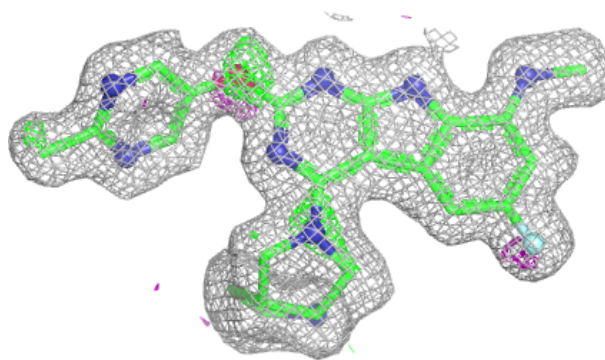
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
3	DOO	B	302	32/32	0.92	0.10	16,18,22,22	0
3	DOO	A	303	32/32	0.93	0.09	15,19,22,23	0
2	SO4	A	301	5/5	0.97	0.07	26,26,29,30	0
2	SO4	B	301	5/5	0.98	0.06	23,24,24,27	0
2	SO4	A	302	5/5	0.99	0.06	19,20,21,21	0

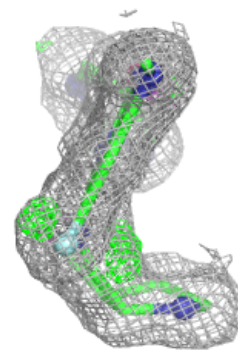
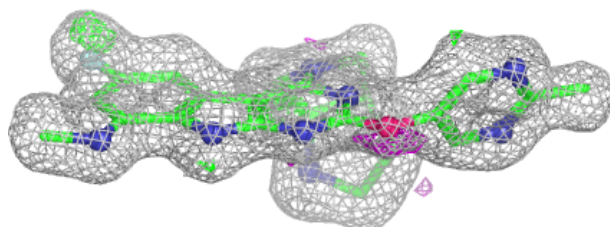
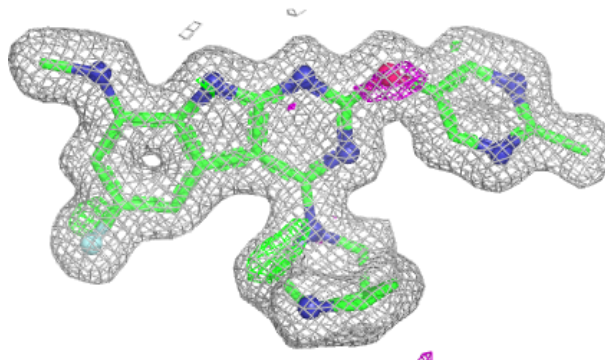
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around DOO B 302:

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

**Electron density around DOO A 303:**

$2mF_o-DF_c$ (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.