



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 02:21 AM UTC

PDB ID : 9GC6 / pdb_00009gc6
Title : Highly optimized CNS penetrant inhibitors of EGFR Exon20 Insertion Mutations
Authors : Hargreaves, D.
Deposited on : 2024-08-01
Resolution : 1.90 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

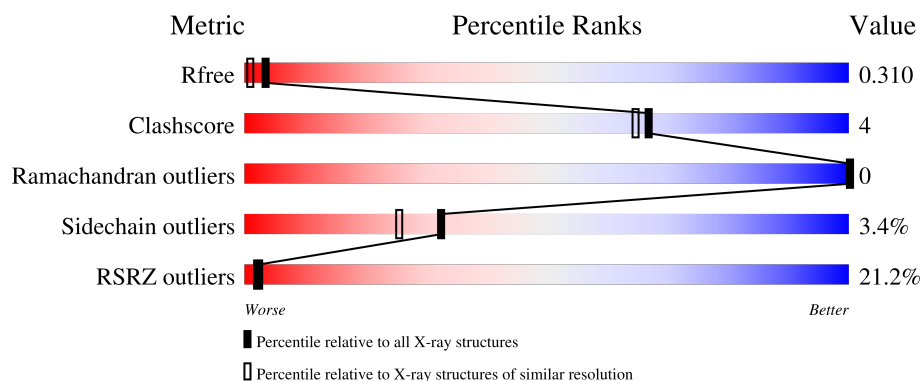
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (1.90-1.90)

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	330	20% 79% 11% 10%
1	B	330	18% 79% 12% 9%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5047 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.

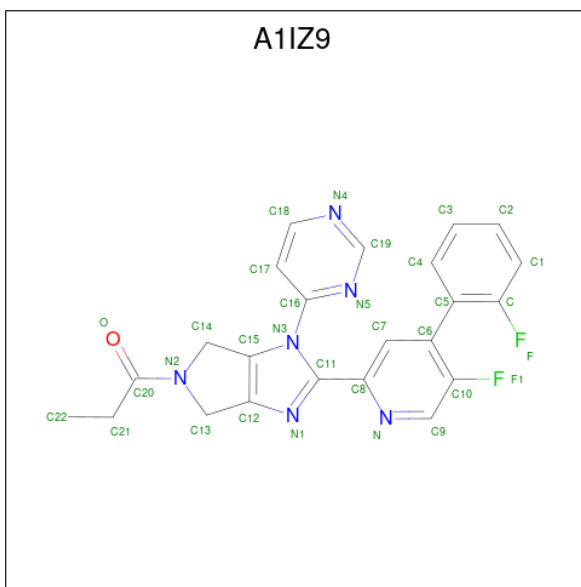
- Molecule 1 is a protein called Epidermal growth factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	298	Total	C	N	O	S	0	0	0
			2400	1539	407	436	18			
1	B	300	Total	C	N	O	S	0	0	0
			2415	1549	410	438	18			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	693	GLY	-	expression tag	UNP P00533
A	694	SER	-	expression tag	UNP P00533
A	948	ARG	VAL	engineered mutation	UNP P00533
B	693	GLY	-	expression tag	UNP P00533
B	694	SER	-	expression tag	UNP P00533
B	948	ARG	VAL	engineered mutation	UNP P00533

- Molecule 2 is 1-[2-[5-fluoranyl-4-(2-fluorophenyl)pyridin-2-yl]-3-pyrimidin-4-yl-4,6-dihydro-yrrolo[3,4-d]imidazol-5-yl]propan-1-one (CCD ID: A1IZ9) (formula: C₂₃H₁₈F₂N₆O) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	0	0
			32	23	2	6	1		
2	B	1	Total	C	F	N	O	0	0
			32	23	2	6	1		

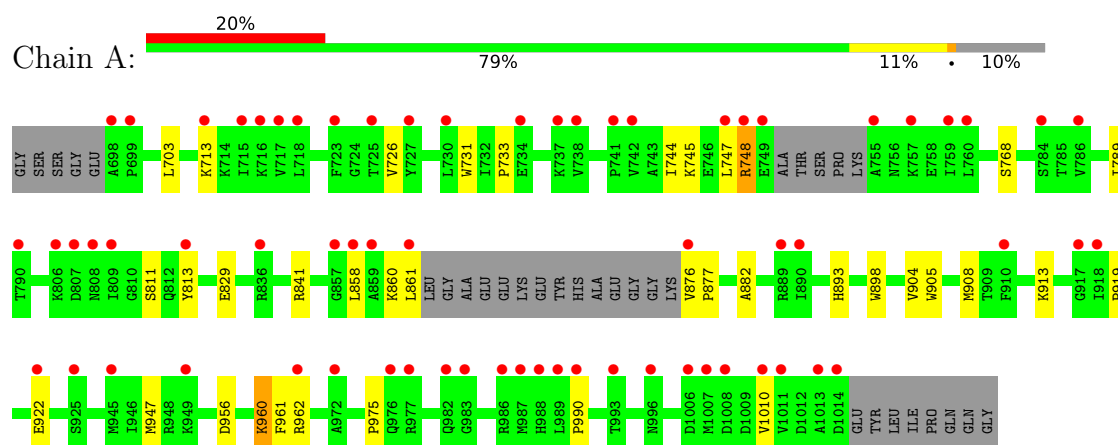
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	82	Total	O	0	0
			82	82		
3	B	86	Total	O	0	0
			86	86		

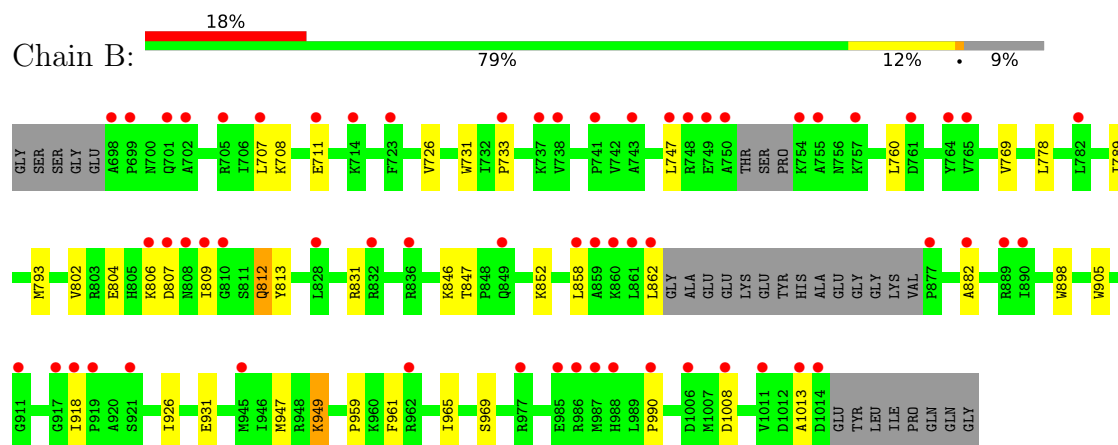
3 Residue-property plots [i](#)

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: Epidermal growth factor receptor



- Molecule 1: Epidermal growth factor receptor



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	76.44Å 70.93Å 78.23Å 90.00° 112.88° 90.00°	Depositor
Resolution (Å)	64.42 – 1.90 64.42 – 1.90	Depositor EDS
% Data completeness (in resolution range)	55.7 (64.42-1.90) 55.7 (64.42-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.29 (at 1.90Å)	Xtriage
Refinement program	BUSTER 2.11.8 (26-JUL-2023)	Depositor
R, R_{free}	0.266 , 0.323 0.259 , 0.310	Depositor DCC
R_{free} test set	1678 reflections (2.76%)	wwPDB-VP
Wilson B-factor (Å ²)	25.1	Xtriage
Anisotropy	0.078	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 36.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.53$, $\langle L^2 \rangle = 0.37$	Xtriage
Estimated twinning fraction	0.000 for l,-k,h	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	5047	wwPDB-VP
Average B, all atoms (Å ²)	29.0	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 56.66 % 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 2.6507e-05. 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: A1IZ9

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	0.78	0/2451	1.09	7/3316 (0.2%)
1	B	0.77	0/2466	1.08	5/3334 (0.1%)
All	All	0.78	0/4917	1.09	12/6650 (0.2%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	961	PHE	CA-C-N	7.03	130.03	120.54
1	A	961	PHE	C-N-CA	7.03	130.03	120.54
1	A	748	ARG	N-CA-C	5.69	117.29	111.14
1	A	747	LEU	CA-C-N	5.19	127.50	120.44
1	A	747	LEU	C-N-CA	5.19	127.50	120.44
1	B	847	THR	N-CA-C	-5.15	102.22	108.14
1	B	831	ARG	CA-C-N	5.11	129.40	122.19
1	B	831	ARG	C-N-CA	5.11	129.40	122.19
1	A	860	LYS	CA-C-N	5.07	130.82	121.70
1	A	860	LYS	C-N-CA	5.07	130.82	121.70
1	B	846	LYS	CA-C-N	5.05	129.35	122.07
1	B	846	LYS	C-N-CA	5.05	129.35	122.07

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	2400	0	2431	18	0
1	B	2415	0	2452	18	0
2	A	32	0	0	0	0
2	B	32	0	0	0	0
3	A	82	0	0	0	0
3	B	86	0	0	0	0
All	All	5047	0	4883	36	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 4.

All (36) 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:960:LYS:NZ	1:A:962:ARG:HH21	1.73	0.86
1:A:960:LYS:HZ2	1:A:962:ARG:HH21	1.29	0.81
1:B:793:MET:HE1	1:B:852:LYS:HD3	1.64	0.80
1:B:747:LEU:HD13	1:B:862:LEU:HD11	1.70	0.72
1:A:960:LYS:NZ	1:A:962:ARG:NH2	2.41	0.69
1:B:905:TRP:HD1	1:B:947:MET:HE1	1.62	0.63
1:A:960:LYS:HZ2	1:A:962:ARG:NH2	1.95	0.63
1:B:905:TRP:CD1	1:B:947:MET:HE1	2.41	0.55
1:A:813:TYR:OH	1:A:990:PRO:HD3	2.08	0.54
1:B:949:LYS:HB3	1:B:959:PRO:HD3	1.89	0.53
1:A:960:LYS:HZ1	1:A:962:ARG:HH21	1.55	0.50
1:A:731:TRP:CZ2	1:A:733:PRO:HB3	2.48	0.48
1:B:965:ILE:O	1:B:969:SER:OG	2.31	0.47
1:A:905:TRP:HD1	1:A:947:MET:CE	2.28	0.47
1:A:744:ILE:HG12	1:A:789:ILE:HG13	1.96	0.46
1:B:882:ALA:HA	1:B:898:TRP:CD2	2.51	0.46
1:B:918:ILE:HD13	1:B:926:ILE:HD13	1.99	0.45
1:B:731:TRP:CZ2	1:B:733:PRO:HB3	2.52	0.45
1:B:769:VAL:HG23	1:B:769:VAL:O	2.16	0.45
1:B:812:GLN:NE2	1:B:1013:ALA:H	2.15	0.44
1:A:726:VAL:HG22	1:A:745:LYS:HE3	2.00	0.44
1:A:904:VAL:O	1:A:908:MET:HG2	2.18	0.44
1:B:708:LYS:HB2	1:B:711:GLU:HG3	1.98	0.43
1:B:707:LEU:HD12	1:B:789:ILE:HD13	1.99	0.43
1:B:806:LYS:HA	1:B:807:ASP:HA	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:703:LEU:HD13	1:A:768:SER:HA	2.01	0.43
1:B:813:TYR:OH	1:B:990:PRO:HD3	2.18	0.43
1:A:841:ARG:HH12	1:A:877:PRO:HB3	1.84	0.42
1:A:882:ALA:HA	1:A:898:TRP:CD2	2.54	0.42
1:A:829:GLU:HA	1:A:893:HIS:CE1	2.55	0.42
1:A:919:PRO:HG2	1:A:922:GLU:HG2	2.01	0.42
1:B:961:PHE:O	1:B:965:ILE:HG13	2.20	0.42
1:B:802:VAL:HA	1:B:809:ILE:HD11	2.02	0.41
1:B:905:TRP:HD1	1:B:947:MET:CE	2.33	0.41
1:A:898:TRP:CD1	1:A:898:TRP:C	2.99	0.40
1:A:811:SER:OG	1:A:975:PRO:HB2	2.20	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	292/330 (88%)	286 (98%)	6 (2%)	0	100	100
1	B	294/330 (89%)	285 (97%)	9 (3%)	0	100	100
All	All	586/660 (89%)	571 (97%)	15 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	266/289 (92%)	257 (97%)	9 (3%)	32	25
1	B	267/289 (92%)	258 (97%)	9 (3%)	32	25
All	All	533/578 (92%)	515 (97%)	18 (3%)	32	25

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	713	LYS
1	A	748	ARG
1	A	858	LEU
1	A	861	LEU
1	A	876	VAL
1	A	913	LYS
1	A	956	ASP
1	A	960	LYS
1	A	1010	VAL
1	B	726	VAL
1	B	760	LEU
1	B	778	LEU
1	B	804	GLU
1	B	812	GLN
1	B	858	LEU
1	B	931	GLU
1	B	949	LYS
1	B	1008	ASP

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

Mol	Chain	Res	Type
1	A	773	HIS
1	A	808	ASN
1	A	982	GLN
1	B	773	HIS

5.3.3 RNA ⓘ

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](#)

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	A1IZ9	A	1101	1	35,36,36	0.22	0	38,52,52	0.49	0
2	A1IZ9	B	1101	1	35,36,36	0.27	0	38,52,52	0.87	1 (2%)

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	A1IZ9	A	1101	1	-	3/18/26/26	0/5/5/5
2	A1IZ9	B	1101	1	-	3/18/26/26	0/5/5/5

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1101	A1IZ9	C5-C6-C10	4.42	126.45	122.45

There are no chirality outliers.

All (6) torsion outliers are listed below:

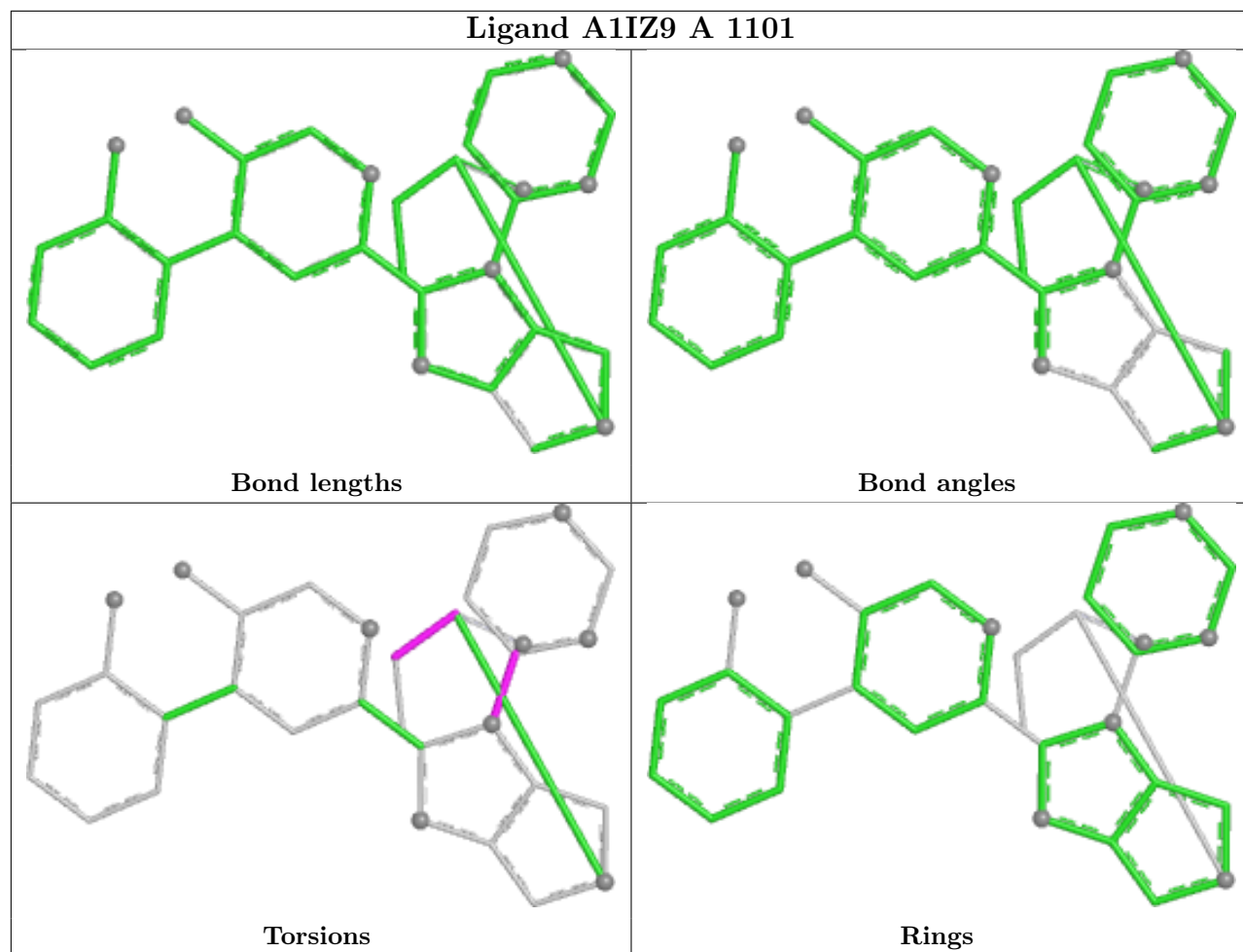
Mol	Chain	Res	Type	Atoms
2	A	1101	A1IZ9	N5-C16-N3-C11
2	A	1101	A1IZ9	C17-C16-N3-C11
2	B	1101	A1IZ9	N5-C16-N3-C11
2	B	1101	A1IZ9	C17-C16-N3-C11
2	B	1101	A1IZ9	N2-C20-C21-C22
2	A	1101	A1IZ9	N2-C20-C21-C22

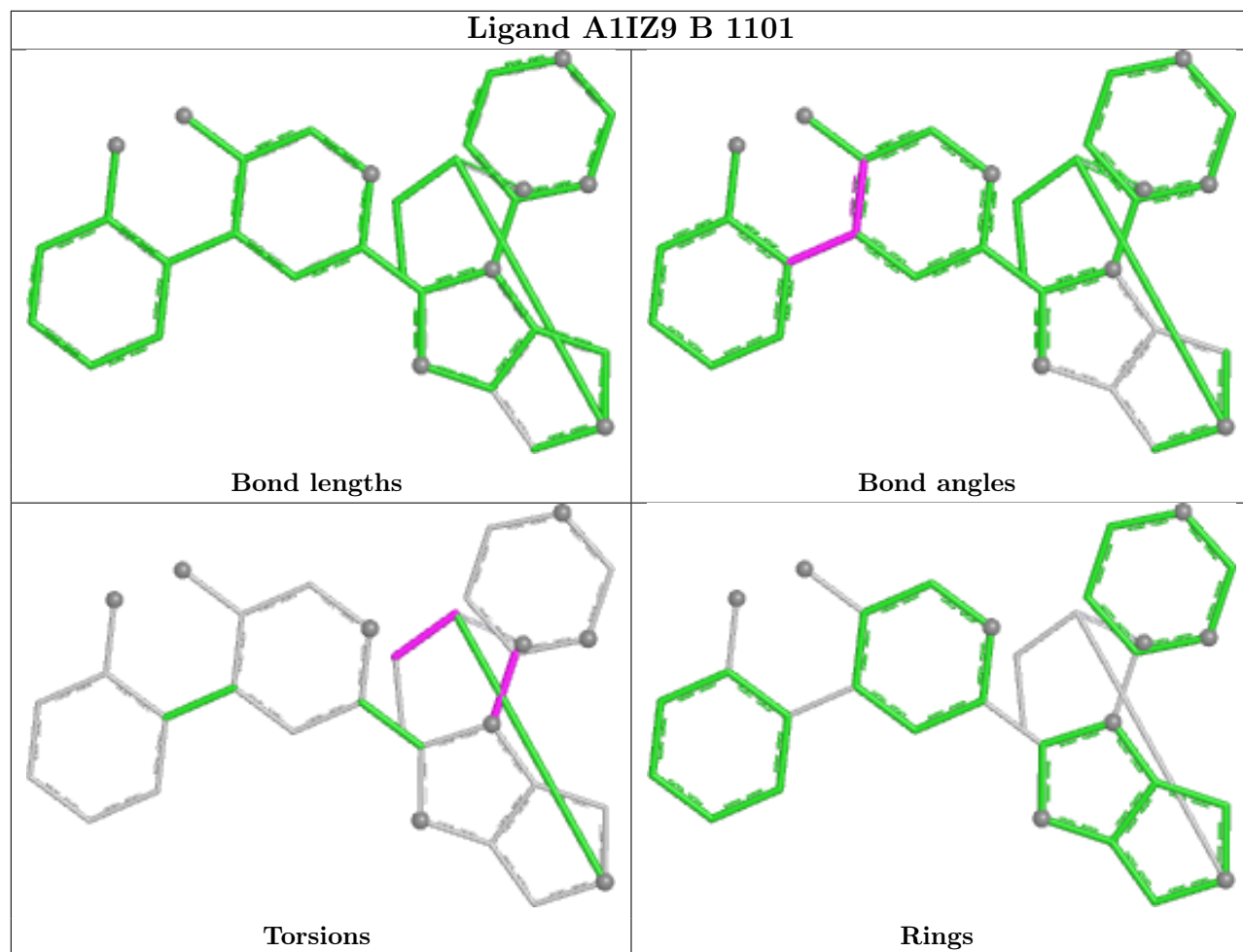
There are no ring outliers.

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 A1IZ9 A 1101





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	298/330 (90%)	1.35	66 (22%) 2 2	10, 28, 50, 66	0
1	B	300/330 (90%)	1.24	61 (20%) 3 2	12, 28, 49, 63	0
All	All	598/660 (90%)	1.29	127 (21%) 2 2	10, 28, 49, 66	0

All (127) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	861	LEU	6.8
1	B	699	PRO	6.6
1	A	755	ALA	6.2
1	B	862	LEU	6.0
1	A	876	VAL	6.0
1	A	861	LEU	5.9
1	A	889	ARG	5.7
1	A	749	GLU	5.7
1	B	750	ALA	5.3
1	A	1011	VAL	5.2
1	A	1010	VAL	4.7
1	A	737	LYS	4.6
1	B	698	ALA	4.6
1	A	859	ALA	4.4
1	A	806	LYS	4.4
1	A	977	ARG	4.4
1	A	986	ARG	4.3
1	A	698	ALA	4.2
1	A	725	THR	3.7
1	B	986	ARG	3.7
1	A	807	ASP	3.5
1	A	918	ILE	3.4
1	B	860	LYS	3.4
1	B	757	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	1008	ASP	3.4
1	B	1011	VAL	3.3
1	A	699	PRO	3.3
1	B	1008	ASP	3.3
1	B	977	ARG	3.3
1	A	988	HIS	3.3
1	B	945	MET	3.3
1	B	754	LYS	3.3
1	A	715	ILE	3.2
1	B	806	LYS	3.2
1	A	759	ILE	3.2
1	B	849	GLN	3.1
1	B	889	ARG	3.1
1	B	809	ILE	3.1
1	A	989	LEU	3.1
1	A	717	VAL	3.1
1	B	714	LYS	3.0
1	B	747	LEU	3.0
1	B	755	ALA	3.0
1	B	962	ARG	2.9
1	A	987	MET	2.9
1	B	737	LYS	2.9
1	B	1006	ASP	2.9
1	A	747	LEU	2.9
1	A	760	LEU	2.9
1	A	910	PHE	2.9
1	B	723	PHE	2.9
1	A	738	VAL	2.8
1	A	982	GLN	2.8
1	B	988	HIS	2.8
1	A	857	GLY	2.8
1	B	890	ILE	2.8
1	A	922	GLU	2.8
1	A	1006	ASP	2.8
1	B	807	ASP	2.8
1	B	985	GLU	2.7
1	A	993	THR	2.7
1	A	718	LEU	2.7
1	B	707	LEU	2.7
1	B	858	LEU	2.7
1	A	808	ASN	2.7
1	A	1007	MET	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	727	TYR	2.7
1	B	1014	ASP	2.7
1	B	701	GLN	2.7
1	A	990	PRO	2.7
1	B	765	VAL	2.7
1	A	917	GLY	2.6
1	B	705	ARG	2.6
1	B	882	ALA	2.6
1	A	809	ILE	2.6
1	A	925	SER	2.6
1	A	741	PRO	2.5
1	A	976	GLN	2.5
1	B	810	GLY	2.5
1	B	743	ALA	2.5
1	B	1013	ALA	2.5
1	B	741	PRO	2.5
1	B	918	ILE	2.5
1	A	1014	ASP	2.5
1	A	723	PHE	2.4
1	A	858	LEU	2.4
1	A	757	LYS	2.4
1	A	748	ARG	2.4
1	B	832	ARG	2.4
1	B	836	ARG	2.4
1	B	711	GLU	2.4
1	B	749	GLU	2.4
1	B	738	VAL	2.4
1	A	790	THR	2.3
1	A	1013	ALA	2.3
1	A	786	VAL	2.3
1	A	836	ARG	2.3
1	B	782	LEU	2.3
1	B	859	ALA	2.3
1	B	877	PRO	2.3
1	A	734	GLU	2.3
1	A	713	LYS	2.3
1	A	890	ILE	2.2
1	B	748	ARG	2.2
1	A	742	VAL	2.2
1	B	828	LEU	2.2
1	B	917	GLY	2.2
1	A	945	MET	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	808	ASN	2.1
1	A	813	TYR	2.1
1	B	764	TYR	2.1
1	A	983	GLY	2.1
1	A	730	LEU	2.1
1	A	962	ARG	2.1
1	B	987	MET	2.1
1	A	996	ASN	2.1
1	B	702	ALA	2.1
1	A	716	LYS	2.1
1	A	972	ALA	2.1
1	B	761	ASP	2.1
1	A	949	LYS	2.0
1	B	921	SER	2.0
1	B	911	GLY	2.0
1	B	919	PRO	2.0
1	A	784	SER	2.0
1	B	733	PRO	2.0
1	B	990	PRO	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.

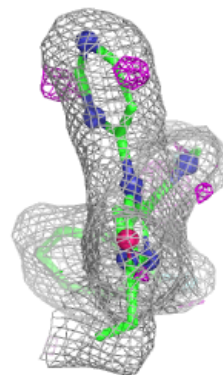
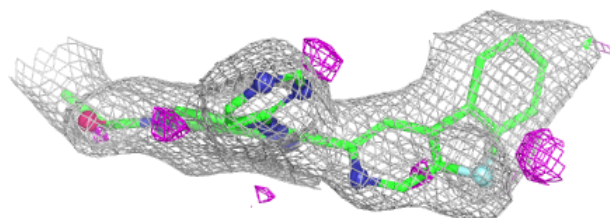
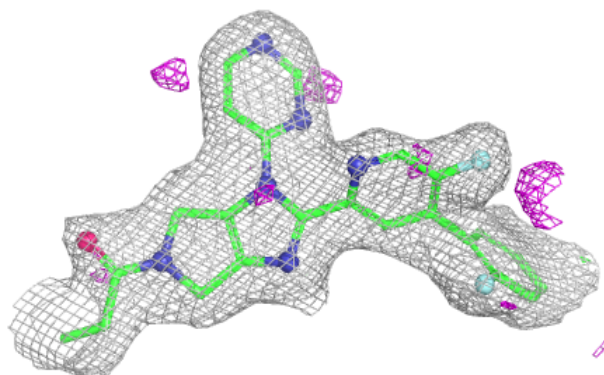
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	A1IZ9	B	1101	32/32	0.85	0.12	23,26,28,28	0
2	A1IZ9	A	1101	32/32	0.86	0.10	29,31,31,32	0

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.

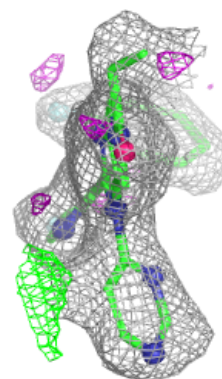
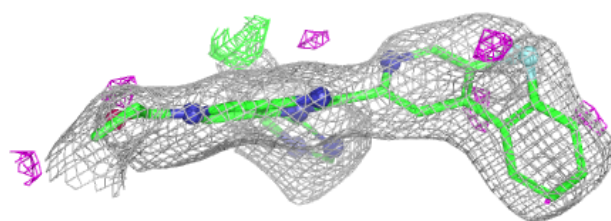
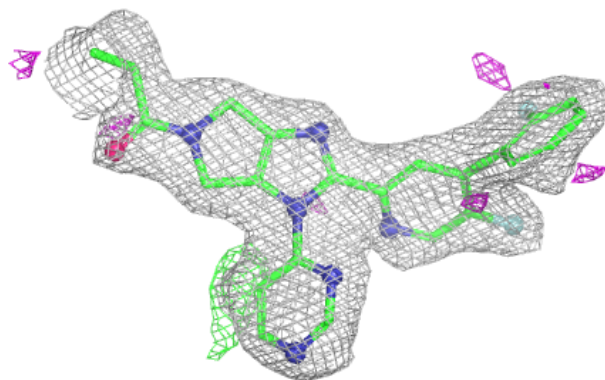
Electron density around A1IZ9 B 1101:

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



Electron density around A1IZ9 A 1101:

$2mF_o-DF_c$ (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.