



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:21 PM UTC

PDB ID : 9GDV / pdb_00009gdv
Title : Highly optimized CNS penetrant inhibitors of EGFR Exon20 Insertion Mutations
Authors : Hargreaves, D.
Deposited on : 2024-08-06
Resolution : 2.22 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

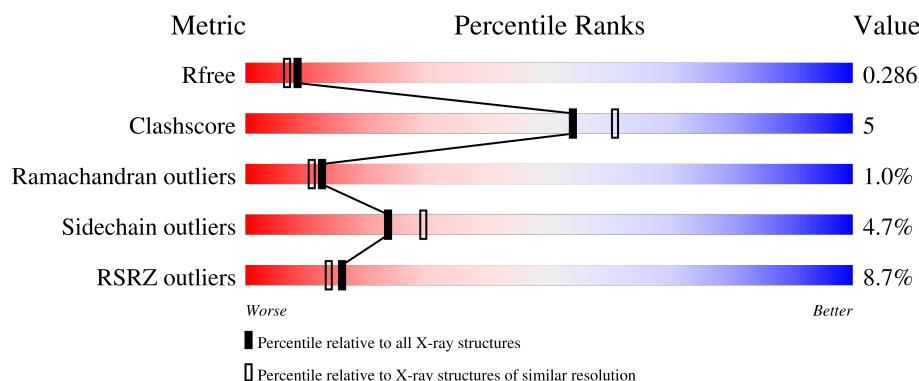
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.22 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	7682 (2.24-2.20)
Clashscore	190562	8402 (2.24-2.20)
Ramachandran outliers	187476	8303 (2.24-2.20)
Sidechain outliers	187428	8304 (2.24-2.20)
RSRZ outliers	180081	7683 (2.24-2.20)

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	
1	B	330	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4417 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.

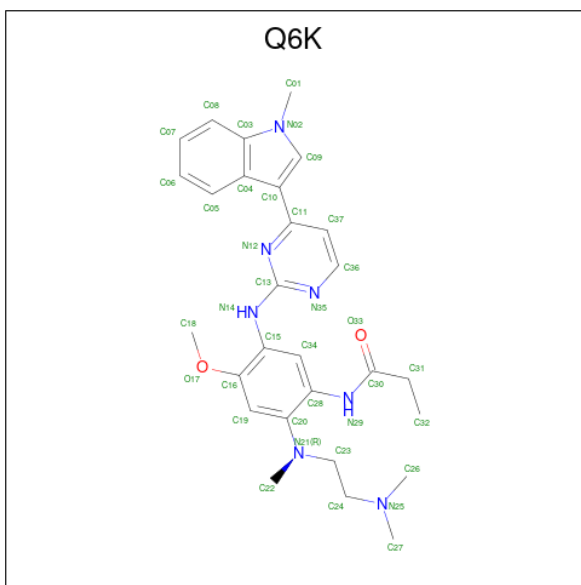
- Molecule 1 is a protein called Epidermal growth factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	262	Total	C	N	O	S	0	0	0
			2110	1363	358	374	15			
1	B	267	Total	C	N	O	S	0	0	0
			2140	1380	364	381	15			

There are 6 discrepancies between the modelled and reference sequences:

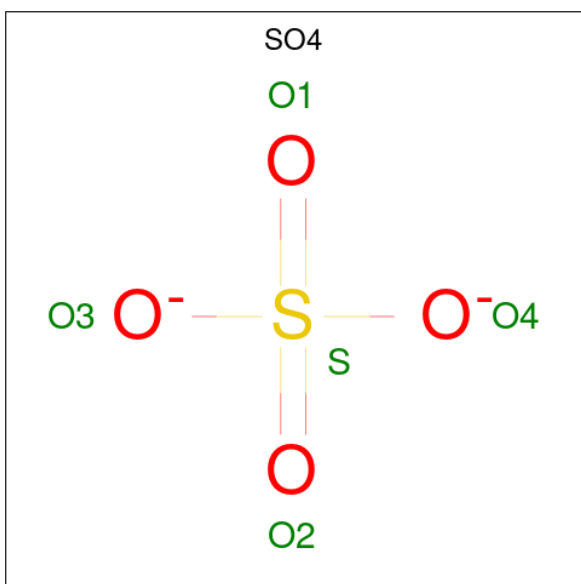
Chain	Residue	Modelled	Actual	Comment	Reference
A	693	GLY	-	expression tag	UNP P00533
A	694	SER	-	expression tag	UNP P00533
A	948	ARG	VAL	engineered mutation	UNP P00533
B	693	GLY	-	expression tag	UNP P00533
B	694	SER	-	expression tag	UNP P00533
B	948	ARG	VAL	engineered mutation	UNP P00533

- Molecule 2 is {N}-[2-[2-(dimethylamino)ethyl-methyl-amino]-4-methoxy-5-[[4-(1-methylindol-3-yl)pyrimidin-2-yl]amino]phenyl]propanamide (CCD ID: Q6K) (formula: C₂₈H₃₅N₇O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			37	28	7	2		
2	B	1	Total	C	N	O	0	0
			37	28	7	2		

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

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

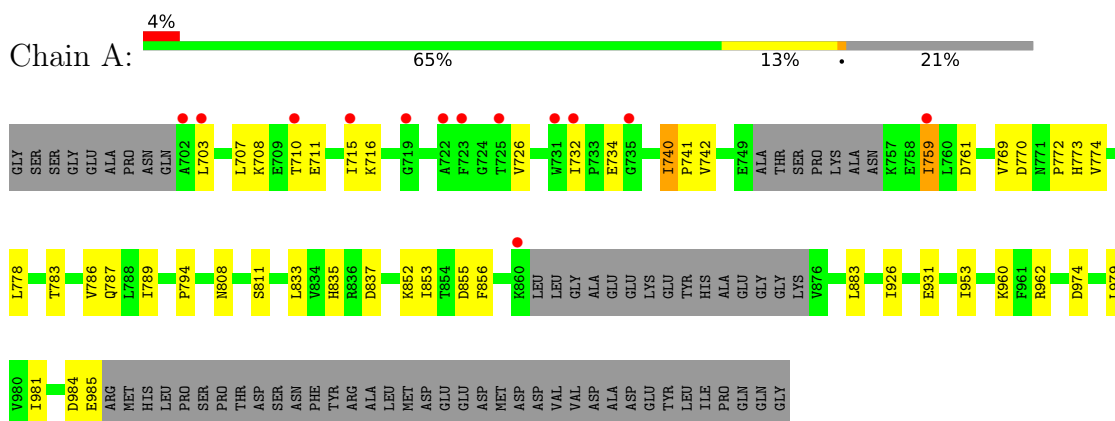
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	46	Total	O	0	0
			46	46		
4	B	27	Total	O	0	0
			27	27		

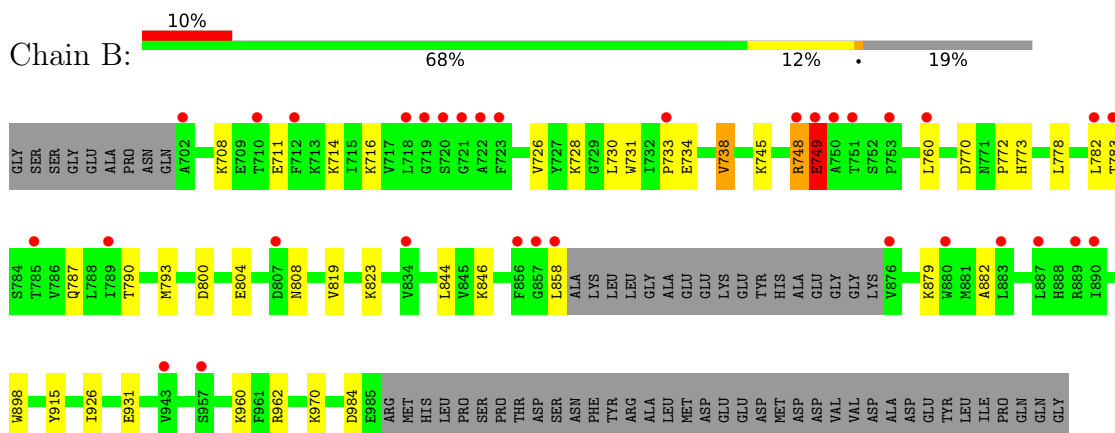
3 Residue-property plots

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 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 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	75.03Å 82.31Å 89.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	60.52 – 2.22 60.52 – 2.22	Depositor EDS
% Data completeness (in resolution range)	77.0 (60.52-2.22) 77.0 (60.52-2.22)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.87 (at 2.22Å)	Xtriage
Refinement program	BUSTER 2.11.8 (26-JUL-2023)	Depositor
R, R_{free}	0.232 , 0.293 0.226 , 0.286	Depositor DCC
R_{free} test set	1088 reflections (3.88%)	wwPDB-VP
Wilson B-factor (Å ²)	44.8	Xtriage
Anisotropy	0.043	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 40.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4417	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.26% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: Q6K, 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	0/2155	1.05	2/2913 (0.1%)
1	B	0.68	0/2186	1.03	0/2959
All	All	0.70	0/4341	1.04	2/5872 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	974	ASP	CA-CB-CG	7.41	120.01	112.60
1	A	783	THR	CB-CA-C	5.11	120.58	110.42

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	2110	0	2160	25	0
1	B	2140	0	2192	22	0
2	A	37	0	0	1	0
2	B	37	0	0	0	0
3	A	10	0	0	0	0
3	B	10	0	0	1	0
4	A	46	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	27	0	0	0	0
All	All	4417	0	4352	43	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 (43) 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:HH12	1.67	0.92
1:A:960:LYS:NZ	1:A:962:ARG:NH1	2.27	0.81
1:A:960:LYS:HZ1	1:A:962:ARG:NH1	1.85	0.75
1:B:926:ILE:HG23	1:B:931:GLU:HB2	1.75	0.68
1:A:960:LYS:HZ1	1:A:962:ARG:HH12	1.34	0.67
1:B:960:LYS:NZ	1:B:962:ARG:HH22	1.92	0.67
1:A:707:LEU:HD12	1:A:789:ILE:HD13	1.78	0.65
1:B:726:VAL:HG22	1:B:745:LYS:HG2	1.79	0.64
1:A:770:ASP:OD2	1:B:773:HIS:HE1	1.80	0.63
1:B:846:LYS:NZ	3:B:1102:SO4:O3	2.29	0.62
1:A:981:ILE:HB	1:A:984:ASP:HB2	1.85	0.58
1:B:960:LYS:HZ1	1:B:962:ARG:HH22	1.50	0.58
1:A:926:ILE:HG23	1:A:931:GLU:HB2	1.85	0.57
1:A:759:ILE:HD11	1:A:786:VAL:HG11	1.88	0.54
1:A:773:HIS:HE1	1:B:770:ASP:OD2	1.90	0.54
1:A:772:PRO:HD3	1:B:772:PRO:HD3	1.90	0.54
1:A:960:LYS:HZ3	1:A:962:ARG:NH1	2.05	0.54
1:B:793:MET:HA	1:B:793:MET:HE2	1.89	0.53
1:A:835:HIS:HD2	1:A:837:ASP:H	1.56	0.51
1:B:800:ASP:O	1:B:804:GLU:HG3	2.11	0.51
1:A:794:PRO:HB2	1:B:738:VAL:HG11	1.92	0.51
1:A:883:LEU:HD23	1:A:953:ILE:HD12	1.94	0.49
1:B:708:LYS:O	1:B:711:GLU:HG2	2.12	0.49
1:A:769:VAL:HG11	1:A:774:VAL:HG11	1.94	0.49
1:B:793:MET:HG3	1:B:844:LEU:HD13	1.94	0.49
1:A:772:PRO:O	1:A:852:LYS:HE3	2.14	0.47
1:A:715:ILE:HG22	1:A:716:LYS:HG3	1.98	0.46
1:B:716:LYS:HD3	1:B:728:LYS:HD3	1.96	0.46
1:A:833:LEU:HD13	1:A:856:PHE:CZ	2.51	0.46
1:B:760:LEU:HD13	1:B:782:LEU:HD11	1.99	0.44
1:B:748:ARG:O	1:B:749:GLU:HB2	2.17	0.44
1:A:769:VAL:HG11	1:A:774:VAL:CG1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:879:LYS:HG2	1:B:915:TYR:HD2	1.83	0.43
1:A:835:HIS:CE1	1:A:853:ILE:CG2	3.02	0.42
1:A:811:SER:HB3	1:A:979:LEU:HB2	2.01	0.42
1:B:731:TRP:CZ2	1:B:733:PRO:HB3	2.54	0.42
1:A:740:ILE:HG22	1:A:742:VAL:HG13	2.01	0.42
1:B:960:LYS:NZ	1:B:962:ARG:NH2	2.63	0.42
1:A:726:VAL:HG11	2:A:1101:Q6K:C04	2.49	0.42
1:B:819:VAL:O	1:B:823:LYS:HG3	2.20	0.42
1:B:882:ALA:HA	1:B:898:TRP:CD2	2.55	0.42
1:A:740:ILE:HA	1:A:741:PRO:HD3	1.97	0.41
1:B:714:LYS:NZ	1:B:787:GLN:HE22	2.19	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	256/330 (78%)	248 (97%)	8 (3%)	0	100	100
1	B	263/330 (80%)	251 (95%)	7 (3%)	5 (2%)	6	4
All	All	519/660 (79%)	499 (96%)	15 (3%)	5 (1%)	12	11

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	748	ARG
1	B	749	GLU
1	B	734	GLU
1	B	984	ASP
1	B	783	THR

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	232/289 (80%)	218 (94%)	14 (6%)	17	20
1	B	235/289 (81%)	227 (97%)	8 (3%)	32	42
All	All	467/578 (81%)	445 (95%)	22 (5%)	23	29

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	703	LEU
1	A	708	LYS
1	A	710	THR
1	A	711	GLU
1	A	732	ILE
1	A	734	GLU
1	A	740	ILE
1	A	759	ILE
1	A	761	ASP
1	A	778	LEU
1	A	787	GLN
1	A	808	ASN
1	A	855	ASP
1	A	985	GLU
1	B	730	LEU
1	B	738	VAL
1	B	749	GLU
1	B	778	LEU
1	B	790	THR
1	B	808	ASN
1	B	858	LEU
1	B	970	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	773	HIS
1	A	805	HIS
1	A	835	HIS
1	A	849	GLN
1	B	756	ASN
1	B	773	HIS
1	B	787	GLN
1	B	816	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 oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

6 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	$\# Z > 2$
3	SO4	B	1103	-	4,4,4	0.26	0	6,6,6	0.88	0
2	Q6K	B	1101	1	40,40,40	0.33	0	56,56,56	0.56	0
2	Q6K	A	1101	1	40,40,40	0.34	0	56,56,56	0.48	0
3	SO4	A	1103	-	4,4,4	0.27	0	6,6,6	0.64	0
3	SO4	A	1102	-	4,4,4	0.29	0	6,6,6	0.48	0
3	SO4	B	1102	-	4,4,4	0.27	0	6,6,6	0.58	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	Q6K	B	1101	1	-	8/25/25/25	0/4/4/4
2	Q6K	A	1101	1	-	3/25/25/25	0/4/4/4

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1101	Q6K	C28-C20-N21-C22
2	A	1101	Q6K	C15-C16-O17-C18
2	B	1101	Q6K	C23-C24-N25-C26
2	A	1101	Q6K	C19-C16-O17-C18
2	B	1101	Q6K	C28-C20-N21-C23
2	A	1101	Q6K	C24-C23-N21-C20
2	B	1101	Q6K	C24-C23-N21-C20
2	B	1101	Q6K	C23-C24-N25-C27
2	B	1101	Q6K	C19-C20-N21-C22
2	B	1101	Q6K	C24-C23-N21-C22
2	B	1101	Q6K	C19-C20-N21-C23

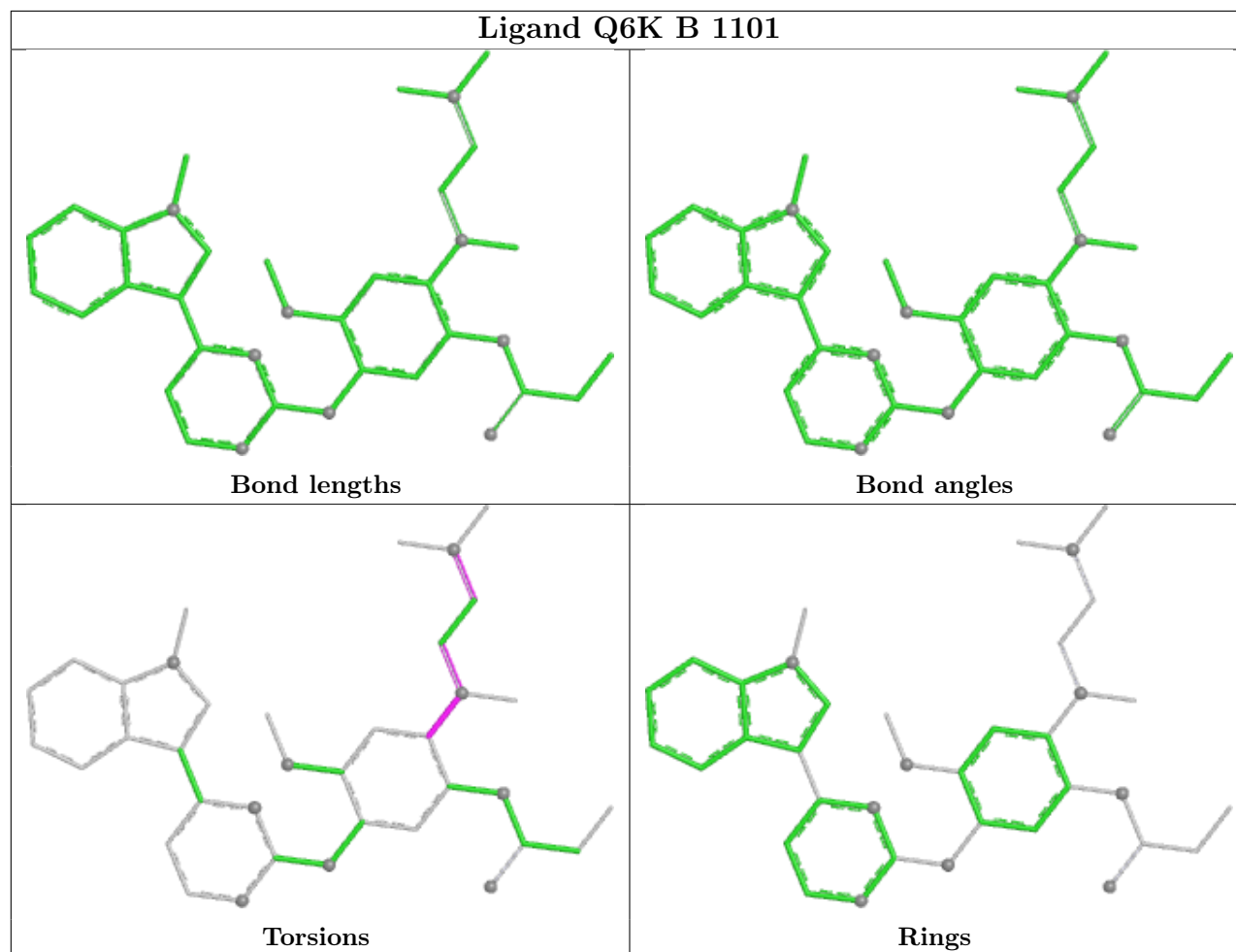
There are no ring outliers.

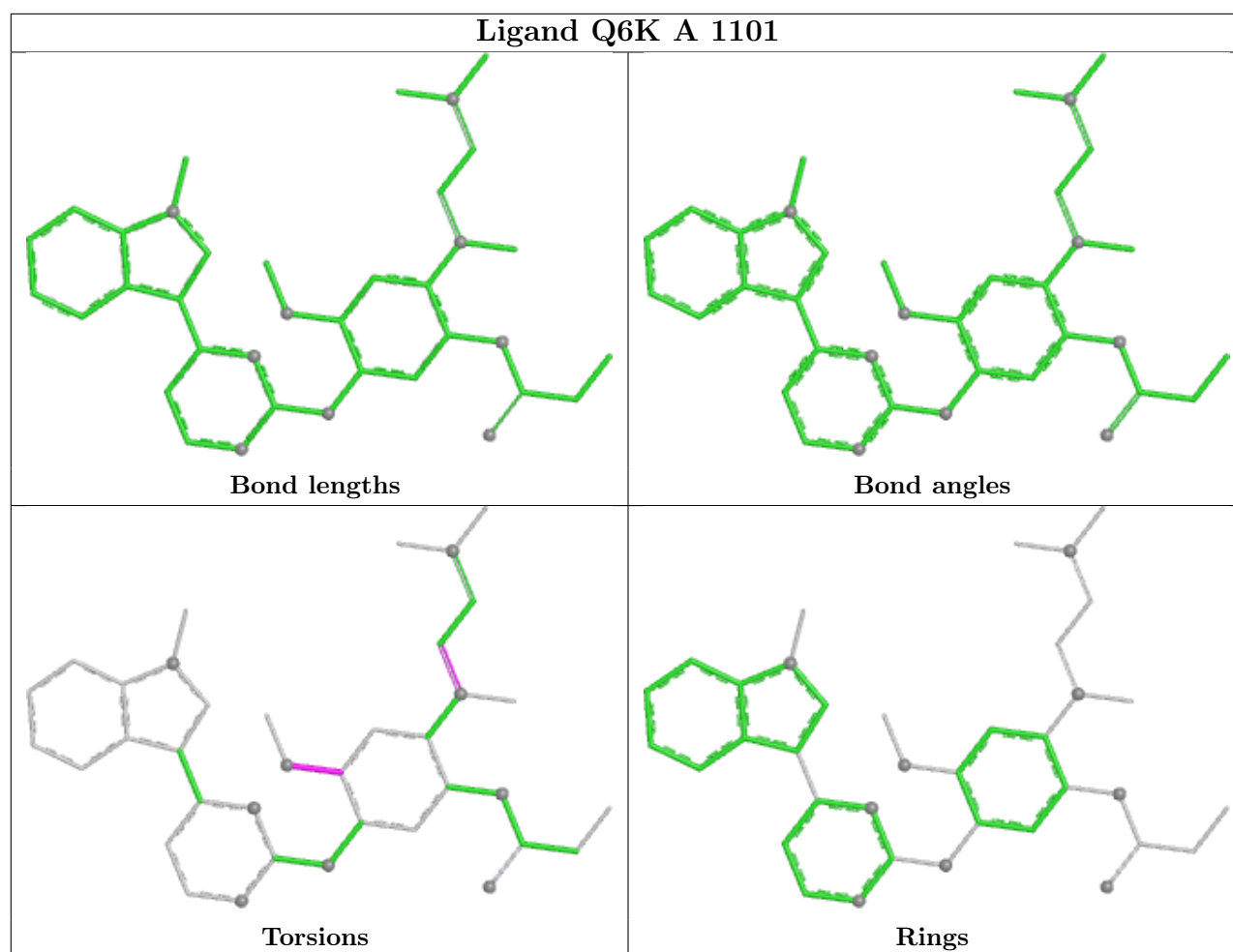
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1101	Q6K	1	0
3	B	1102	SO4	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	262/330 (79%)	0.58	13 (4%) 34 31	27, 44, 73, 87	0
1	B	267/330 (80%)	1.05	33 (12%) 8 6	31, 56, 76, 95	0
All	All	529/660 (80%)	0.82	46 (8%) 16 14	27, 50, 75, 95	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	856	PHE	5.5
1	A	702	ALA	4.5
1	B	720	SER	4.4
1	B	857	GLY	4.2
1	B	702	ALA	4.1
1	B	723	PHE	4.0
1	B	782	LEU	4.0
1	B	883	LEU	3.6
1	B	718	LEU	3.3
1	A	723	PHE	3.3
1	B	722	ALA	3.2
1	B	719	GLY	3.2
1	B	887	LEU	3.2
1	B	943	VAL	3.0
1	A	715	ILE	3.0
1	B	753	PRO	2.9
1	B	890	ILE	2.8
1	B	858	LEU	2.8
1	B	876	VAL	2.7
1	B	957	SER	2.7
1	A	722	ALA	2.7
1	A	731	TRP	2.7
1	B	834	VAL	2.6
1	A	759	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	749	GLU	2.6
1	B	733	PRO	2.5
1	A	703	LEU	2.5
1	A	860	LYS	2.5
1	A	719	GLY	2.5
1	A	735	GLY	2.5
1	B	712	PHE	2.4
1	B	889	ARG	2.4
1	B	789	ILE	2.4
1	B	748	ARG	2.4
1	A	725	THR	2.3
1	B	750	ALA	2.3
1	A	732	ILE	2.3
1	B	807	ASP	2.3
1	B	721	GLY	2.3
1	B	760	LEU	2.2
1	B	751	THR	2.2
1	B	785	THR	2.2
1	B	880	TRP	2.1
1	B	783	THR	2.1
1	A	710	THR	2.1
1	B	710	THR	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.

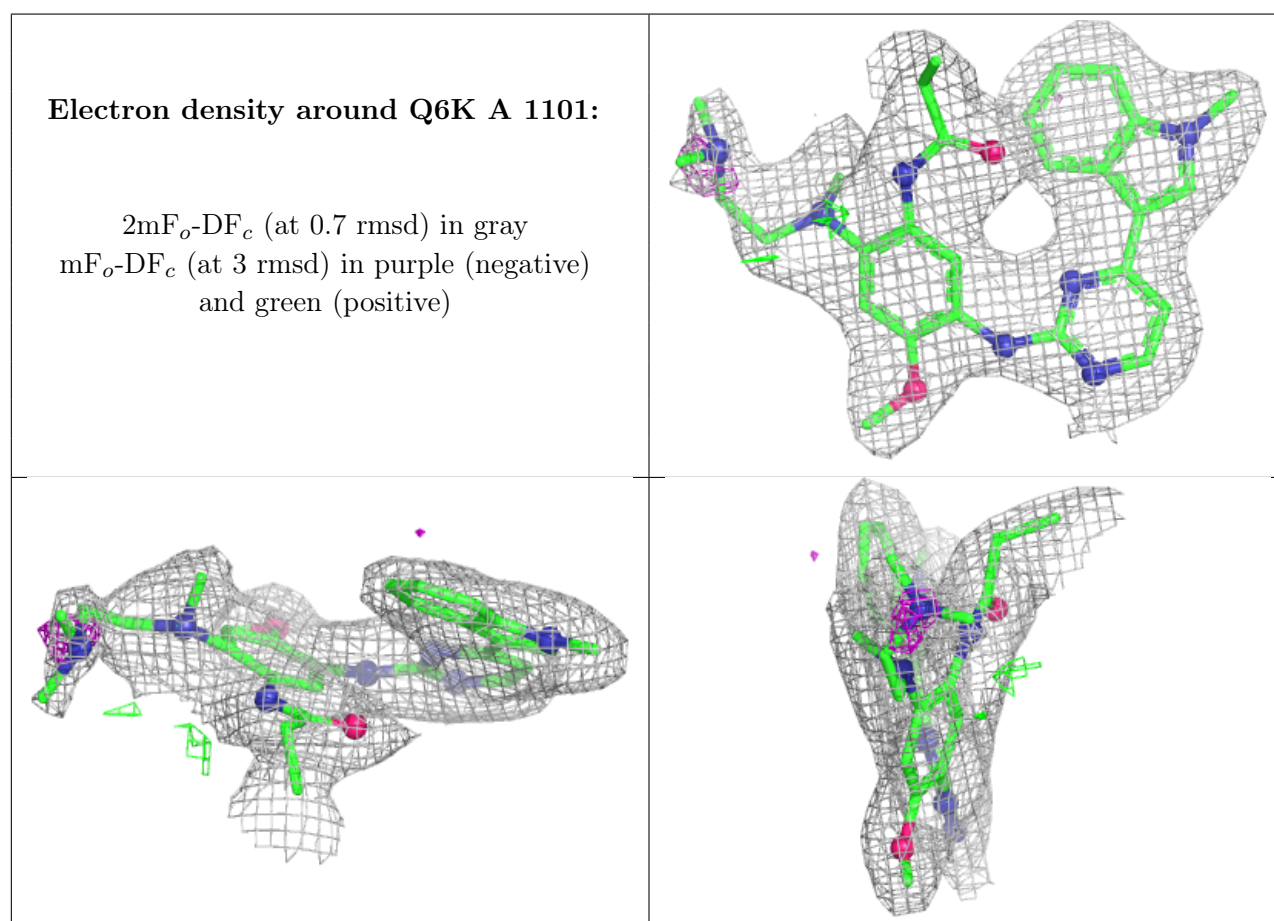
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	SO4	A	1102	5/5	0.80	0.10	89,89,89,90	0

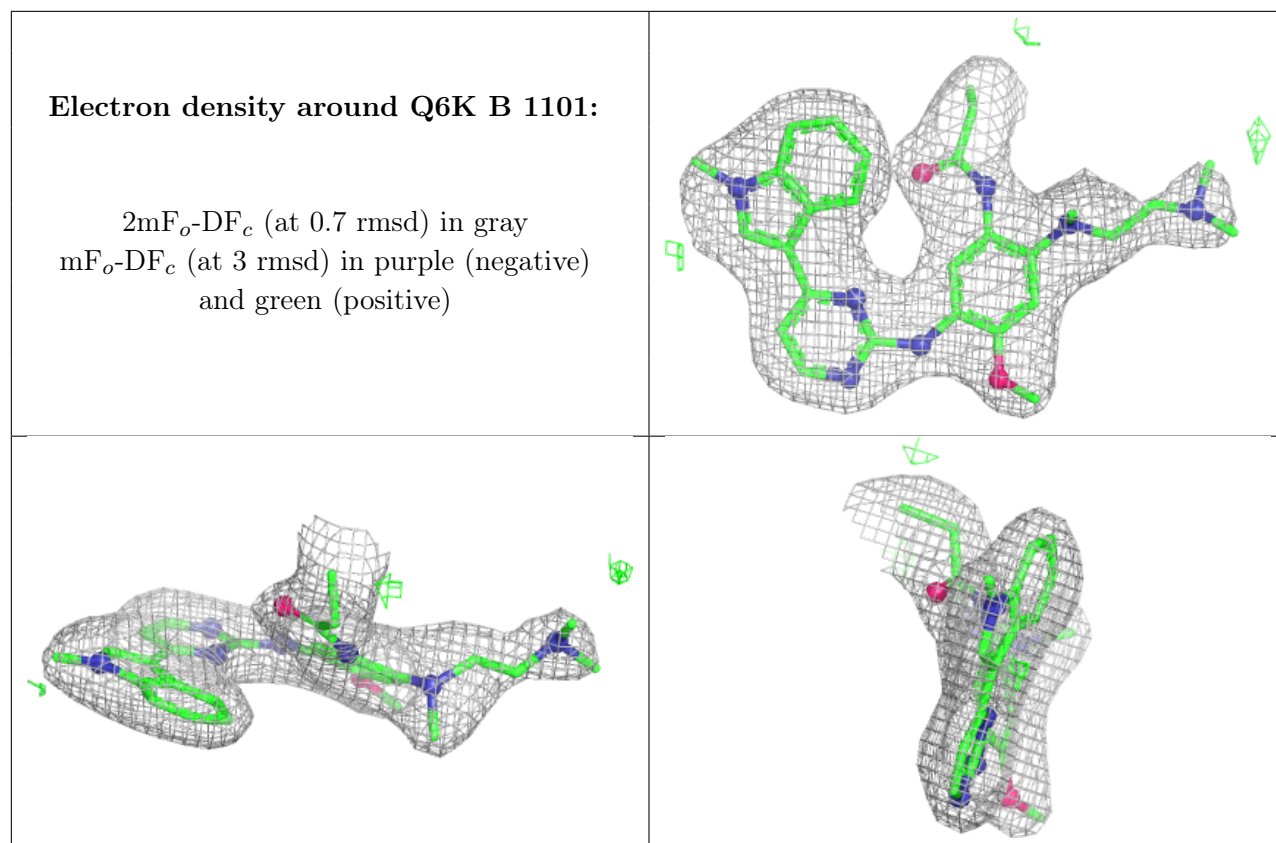
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	Q6K	A	1101	37/37	0.89	0.10	32,37,46,47	0
2	Q6K	B	1101	37/37	0.90	0.10	42,43,50,50	0
3	SO4	A	1103	5/5	0.90	0.11	72,72,73,73	0
3	SO4	B	1102	5/5	0.93	0.10	78,78,78,78	0
3	SO4	B	1103	5/5	0.94	0.11	57,57,57,57	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.