



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 26, 2026 – 02:21 AM EDT

PDB ID : 8S0O / pdb_00008s0o
Title : A fragment-based inhibitor of SHP2
Authors : Cleasby, A.; Price, A.
Deposited on : 2024-02-14
Resolution : 1.83 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

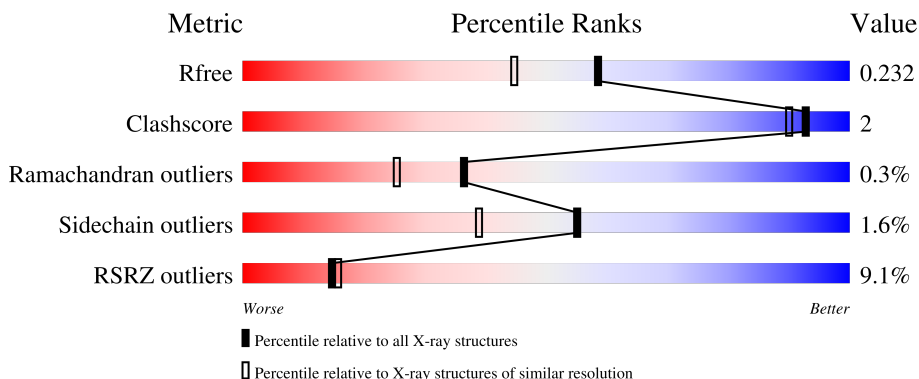
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.83 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	1296 (1.84-1.84)
Clashscore	190562	1329 (1.84-1.84)
Ramachandran outliers	187476	1318 (1.84-1.84)
Sidechain outliers	187428	1318 (1.84-1.84)
RSRZ outliers	180081	1296 (1.84-1.84)

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	537	
1	B	537	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9046 atoms, of which 52 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 Tyrosine-protein phosphatase non-receptor type 11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	506	Total	C	N	O	S	0	1	0
			4099	2574	732	774	19			
1	B	499	Total	C	N	O	S	0	0	0
			4039	2538	722	761	18			

There are 18 discrepancies between the modelled and reference sequences:

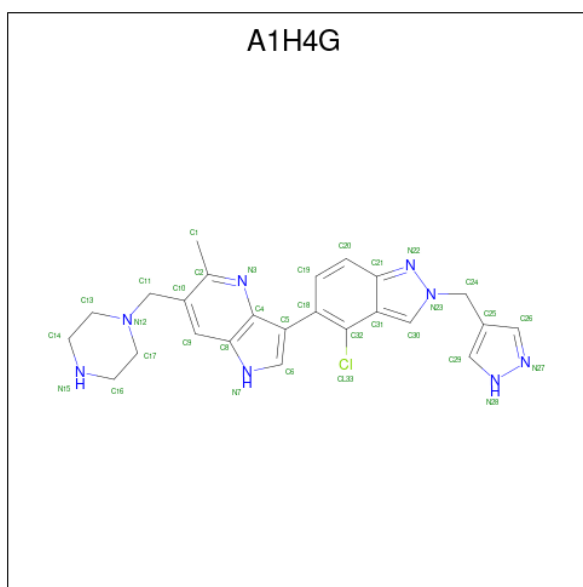
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	HIS	-	expression tag	UNP Q06124
A	529	LEU	-	expression tag	UNP Q06124
A	530	GLU	-	expression tag	UNP Q06124
A	531	HIS	-	expression tag	UNP Q06124
A	532	HIS	-	expression tag	UNP Q06124
A	533	HIS	-	expression tag	UNP Q06124
A	534	HIS	-	expression tag	UNP Q06124
A	535	HIS	-	expression tag	UNP Q06124
A	536	HIS	-	expression tag	UNP Q06124
B	0	HIS	-	expression tag	UNP Q06124
B	529	LEU	-	expression tag	UNP Q06124
B	530	GLU	-	expression tag	UNP Q06124
B	531	HIS	-	expression tag	UNP Q06124
B	532	HIS	-	expression tag	UNP Q06124
B	533	HIS	-	expression tag	UNP Q06124
B	534	HIS	-	expression tag	UNP Q06124
B	535	HIS	-	expression tag	UNP Q06124
B	536	HIS	-	expression tag	UNP Q06124

- Molecule 2 is FORMIC ACID (CCD ID: FMT) (formula: CH₂O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			3	1	2		
2	B	1	Total	C	O	0	0
			3	1	2		

- Molecule 3 is 3-[4-chloranyl-2-(1H-pyrazol-4-ylmethyl)indazol-5-yl]-5-methyl-6-(piperazin-1-ylmethyl)-1H-pyrrolo[3,2-b]pyridine (CCD ID: A1H4G) (formula: C₂₄H₂₅ClN₈) (labeled as "Ligand of Interest" by depositor).



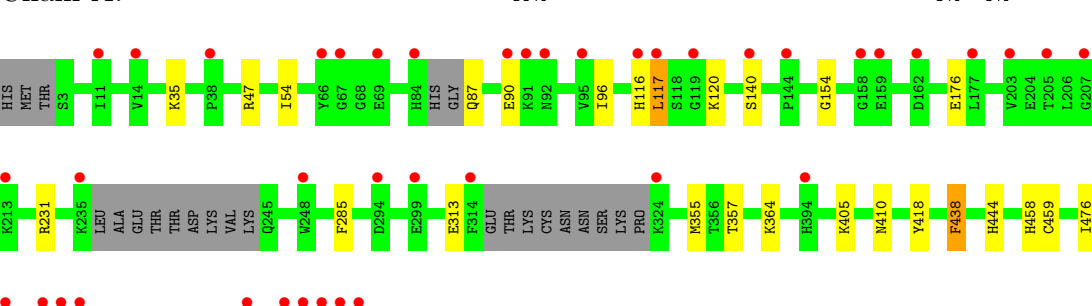
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	C	Cl	H	N	0	0
			59	24	1	26	8		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	412	Total	O	0	0
			412	412		
4	B	372	Total	O	0	0
			372	372		

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.

- Chain A: 
- 
- | Position | Amino Acid | Frequency (bits) |
|----------|------------|------------------|
| 1 | HIS | 0.00 |
| 2 | MEI | 0.00 |
| 3 | THR | 0.00 |
| 4 | S3 | 0.00 |
| 5 | I11 | 0.00 |
| 6 | V14 | 0.00 |
| 7 | K35 | 0.00 |
| 8 | F36 | 0.00 |
| 9 | R47 | 0.00 |
| 10 | T54 | 0.00 |
| 11 | Y66 | 0.00 |
| 12 | G67 | 0.00 |
| 13 | G68 | 0.00 |
| 14 | E69 | 0.00 |
| 15 | H84 | 0.00 |
| 16 | HIS | 0.00 |
| 17 | GLY | 0.00 |
| 18 | Q87 | 0.00 |
| 19 | E90 | 0.00 |
| 20 | K91 | 0.00 |
| 21 | N92 | 0.00 |
| 22 | V95 | 0.00 |
| 23 | I96 | 0.00 |
| 24 | H116 | 0.00 |
| 25 | L117 | 0.00 |
| 26 | S118 | 0.00 |
| 27 | G119 | 0.00 |
| 28 | K120 | 0.00 |
| 29 | S140 | 0.00 |
| 30 | F144 | 0.00 |
| 31 | G154 | 0.00 |
| 32 | G158 | 0.00 |
| 33 | E159 | 0.00 |
| 34 | D162 | 0.00 |
| 35 | E176 | 0.00 |
| 36 | L177 | 0.00 |
| 37 | V203 | 0.00 |
| 38 | E204 | 0.00 |
| 39 | T205 | 0.00 |
| 40 | L206 | 0.00 |
| 41 | G207 | 0.00 |
| 42 | K213 | 0.00 |
| 43 | E231 | 0.00 |
| 44 | K235 | 0.00 |
| 45 | LEU | 0.00 |
| 46 | ALA | 0.00 |
| 47 | GLU | 0.00 |
| 48 | THR | 0.00 |
| 49 | ASP | 0.00 |
| 50 | LVS | 0.00 |
| 51 | VAL | 0.00 |
| 52 | Q245 | 0.00 |
| 53 | K248 | 0.00 |
| 54 | F285 | 0.00 |
| 55 | D294 | 0.00 |
| 56 | E299 | 0.00 |
| 57 | E513 | 0.00 |
| 58 | F314 | 0.00 |
| 59 | GLU | 0.00 |
| 60 | THR | 0.00 |
| 61 | LVS | 0.00 |
| 62 | CYS | 0.00 |
| 63 | ASN | 0.00 |
| 64 | ASN | 0.00 |
| 65 | SER | 0.00 |
| 66 | LVS | 0.00 |
| 67 | PRO | 0.00 |
| 68 | K324 | 0.00 |
| 69 | M356 | 0.00 |
| 70 | T356 | 0.00 |
| 71 | T357 | 0.00 |
| 72 | K364 | 0.00 |
| 73 | H394 | 0.00 |
| 74 | K405 | 0.00 |
| 75 | M410 | 0.00 |
| 76 | Y418 | 0.00 |
| 77 | F438 | 0.00 |
| 78 | H444 | 0.00 |
| 79 | H458 | 0.00 |
| 80 | C459 | 0.00 |
| 81 | I476 | 0.00 |
| 82 | K482 | 0.00 |
| 83 | G483 | 0.00 |
| 84 | V484 | 0.00 |
| 85 | D485 | 0.00 |
| 86 | C486 | 0.00 |
| 87 | M504 | 0.00 |
| 88 | V505 | 0.00 |
| 89 | E508 | 0.00 |
| 90 | H520 | 0.00 |
| 91 | Y521 | 0.00 |
| 92 | I522 | 0.00 |
| 93 | E523 | 0.00 |
| 94 | T524 | 0.00 |
| 95 | L525 | 0.00 |
| 96 | Q526 | 0.00 |
| 97 | S527 | 0.00 |
| 98 | S528 | 0.00 |
| 99 | LEU | 0.00 |
| 100 | GLU | 0.00 |
| 101 | HIS | 0.00 |
| 102 | HIS | 0.00 |
| 103 | HIS | 0.00 |
| 104 | HIS | 0.00 |
| 105 | HIS | 0.00 |
| 106 | HIS | 0.00 |

- Chain B:
-
- 9% 86% 6% 7%
- HIS MEI T2 S3 I11 I13 S36 S37 P38 I54 K55 I56 Q57 L58 Y66 Q67 Y81 H84 HIS GLY Q87 L88 K89 GLU LYS ASN G93 D94 D95 I96 S109 I116 I117 K120 K124 R138 P144 S150 I156 LYS GLY S160 M171
- E176 I177 P201 T209 R231 E232 K235 LEU A14 ALA GLU THR ASP LYS VAL Q245 Q256 Q275 P285 D286 Q287 H293 D294 Q295 D296 P297 N298 GLU PRD V301 M311 P312 E313 F314 GLU THR LYS CYS ASN SER LYS PRD K324 M355 T356
- T357 G363 K364 K365 K366 G367 N410 Y418 D425 H426 F438 D451 C459 K482 G483 V484 D485 C486 M504 V505 E508 H520 G526 R527 R528 LEU GLU HIS HIS HIS HIS HIS HIS

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	45.45Å 213.12Å 55.67Å 90.00° 96.56° 90.00°	Depositor
Resolution (Å)	106.56 – 1.83 106.56 – 1.83	Depositor EDS
% Data completeness (in resolution range)	99.3 (106.56-1.83) 99.3 (106.56-1.83)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.74 (at 1.83Å)	Xtriage
Refinement program		Depositor
R, R_{free}	0.194 , 0.236 0.194 , 0.232	Depositor DCC
R_{free} test set	4570 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	27.8	Xtriage
Anisotropy	0.233	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 48.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9046	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.41% 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: FMT, A1H4G

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	1.03	2/4186 (0.0%)	1.07	10/5644 (0.2%)
1	B	1.04	6/4119 (0.1%)	1.04	5/5551 (0.1%)
All	All	1.03	8/8305 (0.1%)	1.05	15/11195 (0.1%)

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	313	GLU	CA-C	16.28	1.62	1.52
1	B	171	MET	SD-CE	7.12	1.97	1.79
1	A	476	ILE	CG1-CD1	-6.64	1.25	1.51
1	A	504	MET	SD-CE	-6.00	1.64	1.79
1	B	355	MET	SD-CE	-5.68	1.65	1.79

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	140	SER	N-CA-C	9.52	121.65	111.28
1	A	285	PHE	CA-CB-CG	6.15	119.95	113.80
1	B	313	GLU	N-CA-C	5.79	118.04	108.48
1	A	459	CYS	CA-C-N	5.76	129.72	121.71
1	A	459	CYS	C-N-CA	5.76	129.72	121.71

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	4099	0	4027	9	0
1	B	4039	0	3966	16	0
2	A	3	0	2	0	0
2	B	3	0	2	0	0
3	A	33	26	0	0	0
3	B	33	26	0	0	0
4	A	412	0	0	4	0
4	B	372	0	0	3	0
All	All	8994	52	7997	25	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 2.

The worst 5 of 25 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:B:356:THR:OG1	1:B:459:CYS:HB3	1.44	1.16
1:B:356:THR:OG1	1:B:459:CYS:CB	2.21	0.87
1:B:356:THR:HG1	1:B:459:CYS:HB3	1.43	0.79
1:B:357:THR:HG22	4:B:829:HOH:O	1.91	0.71
1:A:357:THR:HG22	4:A:711:HOH:O	2.00	0.60

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	499/537 (93%)	485 (97%)	12 (2%)	2 (0%)	30 18
1	B	485/537 (90%)	471 (97%)	13 (3%)	1 (0%)	43 34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	984/1074 (92%)	956 (97%)	25 (2%)	3 (0%)	36 25

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	117	LEU
1	A	505	VAL
1	B	505	VAL

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	451/479 (94%)	444 (98%)	7 (2%)	55 39
1	B	444/479 (93%)	437 (98%)	7 (2%)	55 39
All	All	895/958 (93%)	881 (98%)	14 (2%)	55 39

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	55	LYS
1	B	87	GLN
1	B	508	GLU
1	B	231	ARG
1	B	364	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	293	HIS
1	B	446	GLN
1	A	256	GLN
1	B	10	ASN
1	B	84	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](#)

4 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	FMT	A	601	-	2,2,2	1.23	0	1,1,1	0.87	0
3	A1H4G	A	602	-	36,38,38	0.99	3 (8%)	40,55,55	1.23	4 (10%)
2	FMT	B	601	-	2,2,2	2.24	1 (50%)	1,1,1	0.56	0
3	A1H4G	B	602	-	36,38,38	0.88	2 (5%)	40,55,55	1.16	3 (7%)

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	A1H4G	A	602	-	-	1/12/20/20	0/6/6/6
3	A1H4G	B	602	-	-	3/12/20/20	0/6/6/6

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	602	A1H4G	C18-C32	3.06	1.42	1.39
2	B	601	FMT	O2-C	2.97	1.43	1.28
3	A	602	A1H4G	C10-C2	2.83	1.44	1.40
3	B	602	A1H4G	C18-C32	2.58	1.42	1.39
3	A	602	A1H4G	C4-C5	-2.09	1.42	1.47

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	602	A1H4G	C5-C6-N7	-4.34	107.66	110.46
3	B	602	A1H4G	C5-C6-N7	-4.12	107.81	110.46
3	A	602	A1H4G	C4-C5-C6	3.01	107.73	105.60
3	B	602	A1H4G	C4-C5-C6	2.60	107.44	105.60
3	A	602	A1H4G	C19-C18-C5	-2.56	115.09	119.03

There are no chirality outliers.

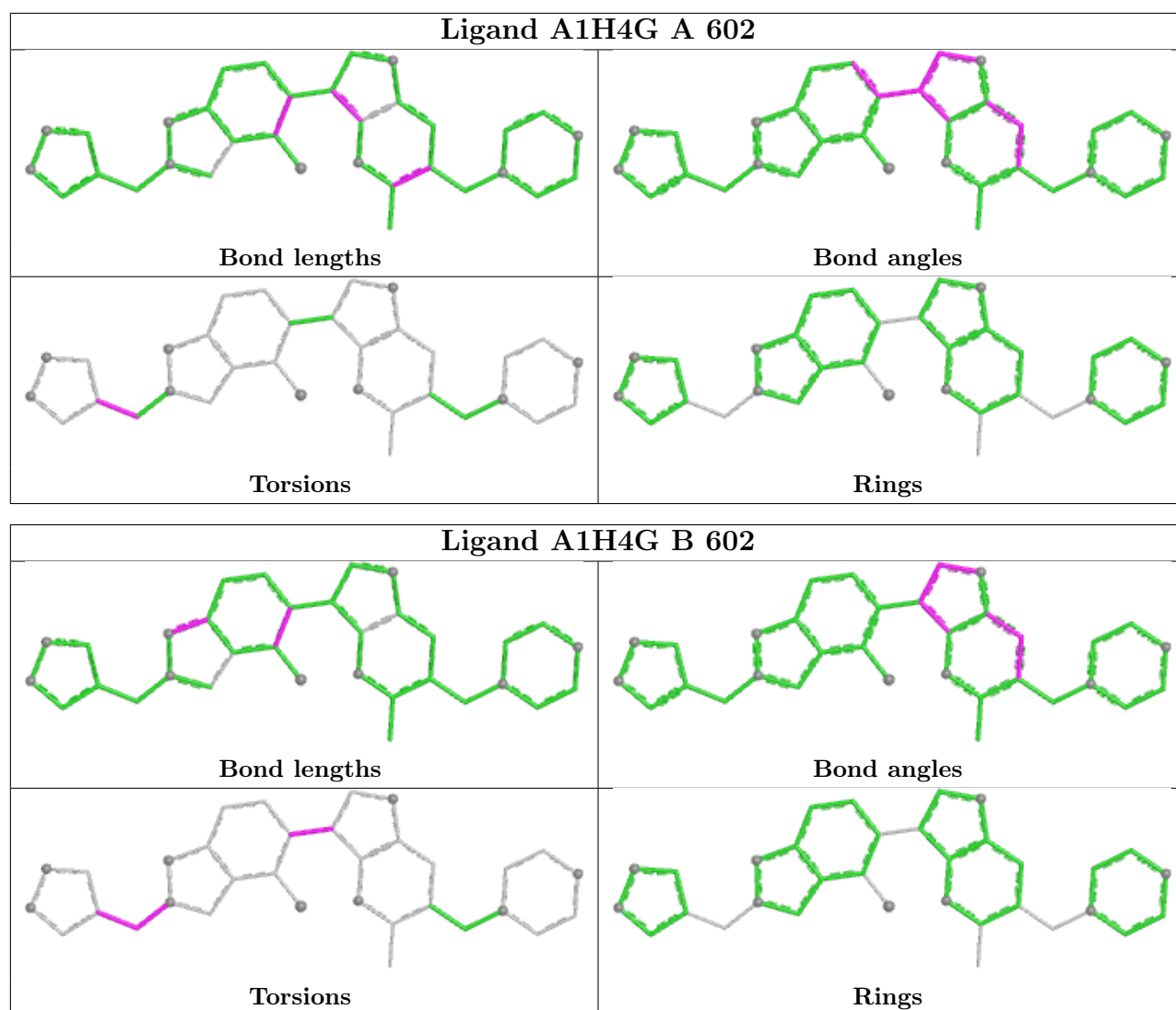
All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	602	A1H4G	N23-C24-C25-C26
3	B	602	A1H4G	C32-C18-C5-C4
3	A	602	A1H4G	N23-C24-C25-C26
3	B	602	A1H4G	C25-C24-N23-C30

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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	506/537 (94%)	0.46	41 (8%) 18 19	15, 36, 68, 88	1 (0%)
1	B	499/537 (92%)	0.50	50 (10%) 12 13	17, 38, 66, 88	0
All	All	1005/1074 (93%)	0.48	91 (9%) 15 16	15, 37, 67, 88	1 (0%)

The worst 5 of 91 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	451	ASP	4.2
1	A	90	GLU	4.1
1	A	484	VAL	4.0
1	A	486	CYS	3.8
1	B	314	PHE	3.8

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](#)

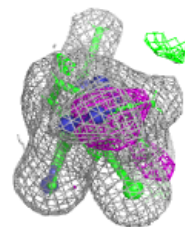
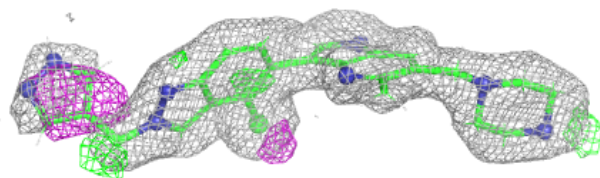
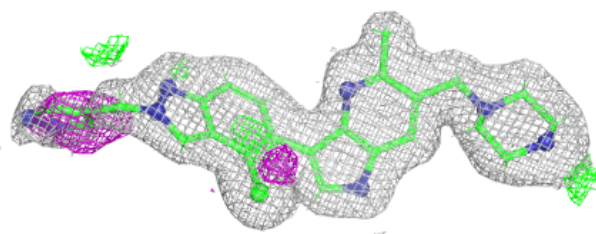
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists 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	FMT	A	601	3/3	0.87	0.16	41,41,43,44	0
2	FMT	B	601	3/3	0.87	0.17	39,39,41,43	0
3	A1H4G	A	602	33/33	0.93	0.10	28,33,47,47	0
3	A1H4G	B	602	33/33	0.93	0.10	27,32,44,45	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.

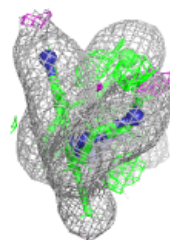
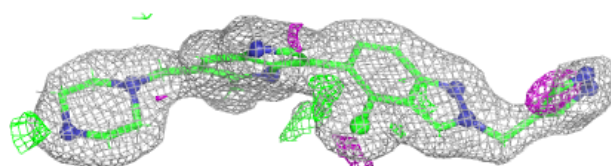
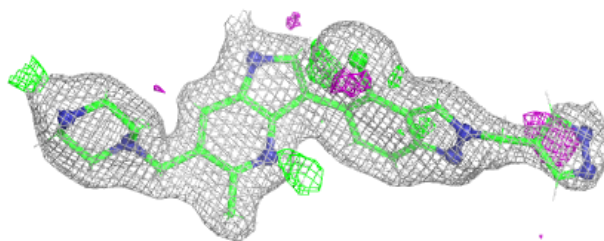
Electron density around A1H4G A 602:

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 A1H4G B 602:

$2mF_o-DF_c$ (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.