



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 07:59 AM UTC

PDB ID : 8S04 / pdb_00008s04
Title : A fragment-based inhibitor of SHP2
Authors : Cleasby, A.; Price, A.
Deposited on : 2024-02-13
Resolution : 1.89 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

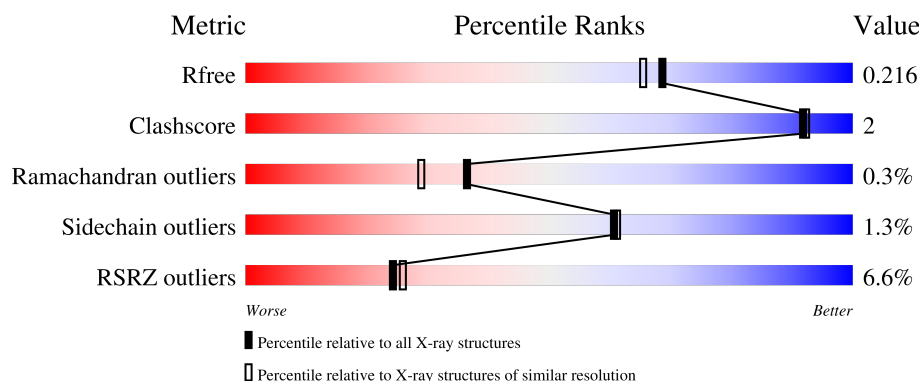
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.89 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	537	6% 86% 7% 7%
1	B	537	6% 88% 6% 6%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 8722 atoms, of which 20 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.

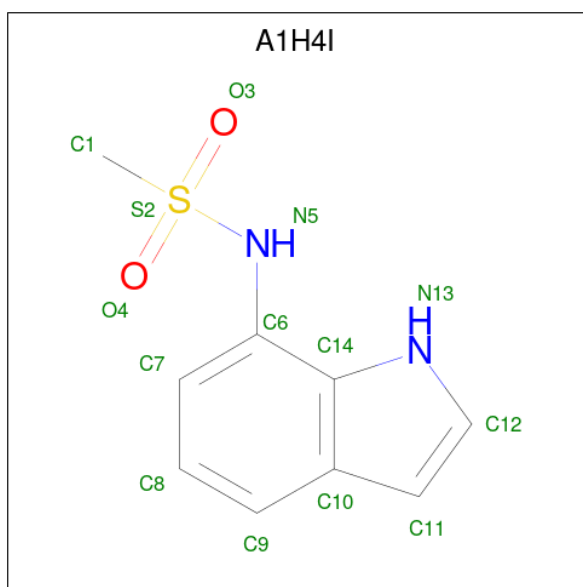
- Molecule 1 is a protein called Tyrosine-protein phosphatase non-receptor type 11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	502	Total	C	N	O	S	0	3	0
			4070	2556	728	766	20			
1	B	504	Total	C	N	O	S	0	1	0
			4080	2562	730	769	19			

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 N-(1H-indol-7-yl)methanesulfonamide (CCD ID: A1H4I) (formula: C₉H₁₀N₂O₂S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	H	N	O	S	0	0
			24	9	10	2	2	1		
2	B	1	Total	C	H	N	O	S	0	0
			24	9	10	2	2	1		

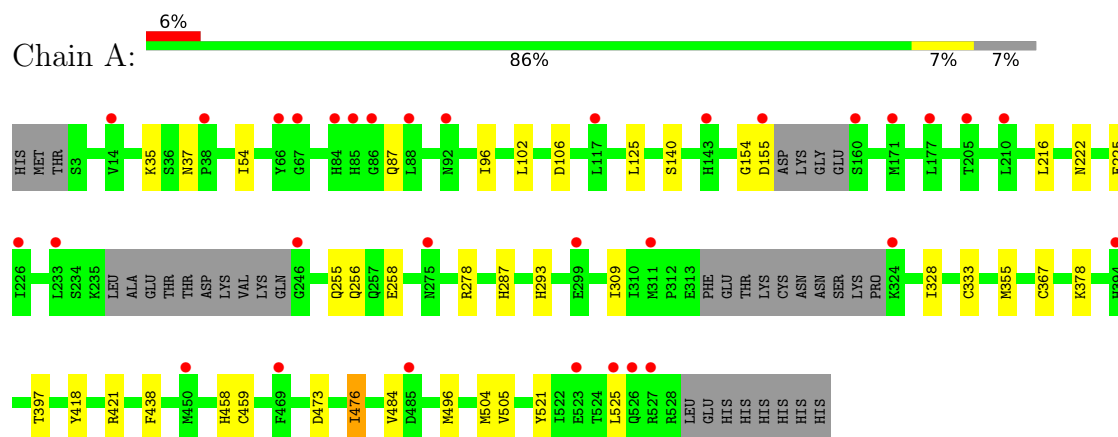
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	268	Total	O	0	0
			268	268		
3	B	256	Total	O	0	0
			256	256		

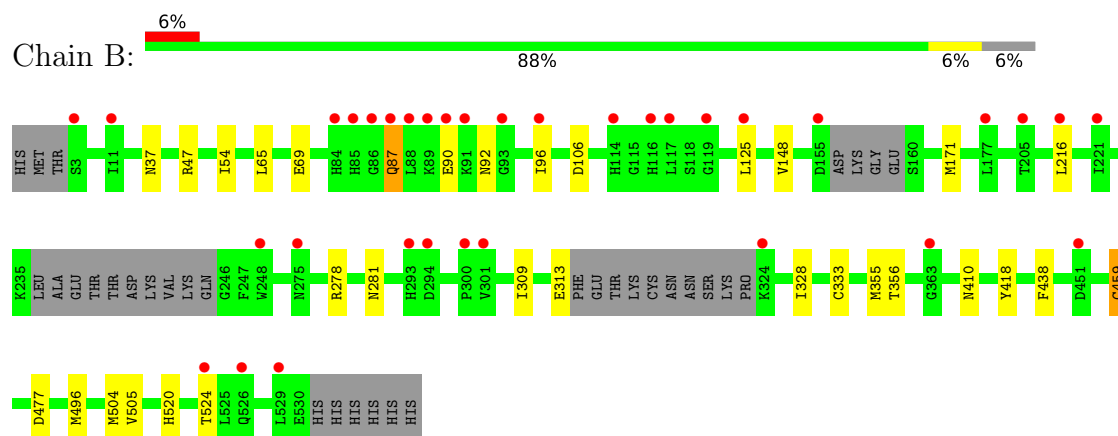
3 Residue-property plots [i](#)

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: Tyrosine-protein phosphatase non-receptor type 11



- Molecule 1: Tyrosine-protein phosphatase non-receptor type 11



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	45.97Å 212.34Å 56.03Å 90.00° 96.77° 90.00°	Depositor
Resolution (Å)	49.28 – 1.89 49.28 – 1.89	Depositor EDS
% Data completeness (in resolution range)	97.8 (49.28-1.89) 97.8 (49.28-1.89)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.81 (at 1.90Å)	Xtriage
Refinement program		Depositor
R, R_{free}	0.189 , 0.223 0.189 , 0.216	Depositor DCC
R_{free} test set	4183 reflections (4.92%)	wwPDB-VP
Wilson B-factor (Å ²)	33.3	Xtriage
Anisotropy	0.176	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 40.9	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	8722	wwPDB-VP
Average B, all atoms (Å ²)	45.0	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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: A1H4I

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	1.02	2/4163 (0.0%)	1.06	11/5615 (0.2%)
1	B	1.00	2/4167 (0.0%)	1.05	4/5620 (0.1%)
All	All	1.01	4/8330 (0.0%)	1.05	15/11235 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	496	MET	CA-C	6.07	1.60	1.52
1	A	504	MET	SD-CE	-5.90	1.64	1.79
1	B	496	MET	CA-C	5.88	1.60	1.52
1	B	504	MET	SD-CE	-5.60	1.65	1.79

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	459	CYS	CA-C-N	6.93	134.78	121.54
1	B	459	CYS	C-N-CA	6.93	134.78	121.54
1	A	459	CYS	CA-C-N	6.04	133.08	121.54
1	A	459	CYS	C-N-CA	6.04	133.08	121.54
1	A	140	SER	N-CA-C	5.93	117.75	111.28
1	A	106	ASP	CA-CB-CG	5.80	118.40	112.60
1	B	106	ASP	CA-CB-CG	5.63	118.23	112.60
1	A	459	CYS	N-CA-CB	5.61	116.81	111.59
1	A	293	HIS	CA-CB-CG	-5.61	108.19	113.80
1	A	287	HIS	CA-CB-CG	5.57	119.37	113.80
1	B	459	CYS	CA-C-O	-5.22	113.04	120.51
1	A	155	ASP	CA-CB-CG	5.17	117.77	112.60
1	A	37	ASN	CA-CB-CG	5.17	117.77	112.60
1	A	473	ASP	CA-CB-CG	-5.15	107.45	112.60
1	A	154	GLY	N-CA-C	5.08	116.88	110.38

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	4070	0	4006	11	0
1	B	4080	0	4011	15	0
2	A	14	10	0	0	0
2	B	14	10	0	0	0
3	A	268	0	0	0	0
3	B	256	0	0	1	0
All	All	8702	20	8017	26	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.

All (26) 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:355:MET:HG3	3:B:794:HOH:O	2.05	0.56
1:A:54:ILE:HD11	1:A:96:ILE:HD13	1.89	0.54
1:A:222:ASN:O	1:A:225:GLU:HG2	2.09	0.53
1:B:125:LEU:HB3	1:B:216:LEU:HD21	1.90	0.53
1:B:356:THR:OG1	1:B:459:CYS:HB3	2.09	0.53
1:A:125:LEU:HB3	1:A:216:LEU:HD21	1.91	0.52
1:A:309:ILE:HD13	1:A:328:ILE:HG12	1.92	0.51
1:B:309:ILE:HD13	1:B:328:ILE:HG12	1.92	0.51
1:A:367[B]:CYS:SG	1:A:458:HIS:CE1	3.05	0.50
1:B:90:GLU:HG3	1:B:92:ASN:OD1	2.12	0.50
1:B:47:ARG:NE	1:B:96:ILE:HG12	2.28	0.49
1:B:520:HIS:O	1:B:524:THR:HG23	2.13	0.49
1:B:69:GLU:OE2	1:B:87:GLN:NE2	2.46	0.48
1:B:54:ILE:HD11	1:B:96:ILE:HD13	1.96	0.47
1:B:278:ARG:NH2	1:B:333:CYS:O	2.49	0.46
1:B:69:GLU:OE1	1:B:281:ASN:ND2	2.45	0.46
1:A:418:TYR:HB3	1:A:438:PHE:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:MET:HE3	1:A:367[B]:CYS:SG	2.56	0.45
1:B:418:TYR:HB3	1:B:438:PHE:CE1	2.52	0.45
1:A:278:ARG:NH2	1:A:333:CYS:O	2.47	0.45
1:B:148:VAL:HG22	1:B:171:MET:SD	2.57	0.44
1:A:255:GLN:O	1:A:258:GLU:HG2	2.17	0.43
1:A:397:THR:OG1	1:A:421:ARG:NE	2.43	0.43
1:B:65:LEU:C	1:B:65:LEU:HD23	2.44	0.42
1:A:476:ILE:HG23	1:A:521:TYR:CZ	2.55	0.41
1:B:47:ARG:CZ	1:B:96:ILE:HG12	2.51	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	497/537 (93%)	481 (97%)	15 (3%)	1 (0%)	43	36
1	B	497/537 (93%)	483 (97%)	12 (2%)	2 (0%)	30	22
All	All	994/1074 (93%)	964 (97%)	27 (3%)	3 (0%)	36	29

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	410	ASN
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	449/479 (94%)	441 (98%)	8 (2%)	51	50
1	B	449/479 (94%)	445 (99%)	4 (1%)	70	73
All	All	898/958 (94%)	886 (99%)	12 (1%)	61	61

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	35	LYS
1	A	87	GLN
1	A	102	LEU
1	A	256	GLN
1	A	378	LYS
1	A	476	ILE
1	A	484	VAL
1	A	525	LEU
1	B	37	ASN
1	B	87	GLN
1	B	313	GLU
1	B	477	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	37	ASN
1	A	114	HIS
1	A	141	GLN
1	A	196	HIS
1	A	275	ASN
1	A	293	HIS
1	A	339	ASN
1	B	114	HIS
1	B	141	GLN
1	B	196	HIS
1	B	200	ASN
1	B	256	GLN
1	B	275	ASN
1	B	298	ASN
1	B	446	GLN

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 ⓘ

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	A1H4I	A	601	-	15,15,15	1.07	2 (13%)	22,22,22	1.08	2 (9%)
2	A1H4I	B	601	-	15,15,15	0.97	1 (6%)	22,22,22	0.97	1 (4%)

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	A1H4I	A	601	-	-	0/5/5/5	0/2/2/2
2	A1H4I	B	601	-	-	0/5/5/5	0/2/2/2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	A1H4I	C10-C14	-3.44	1.37	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	A1H4I	C10-C14	-3.26	1.38	1.41
2	A	601	A1H4I	C14-C6	-2.08	1.38	1.40

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	601	A1H4I	C14-C6-N5	-2.87	116.99	119.97
2	B	601	A1H4I	C11-C12-N13	-2.42	107.46	110.25
2	A	601	A1H4I	C11-C12-N13	-2.36	107.53	110.25

There are no chirality outliers.

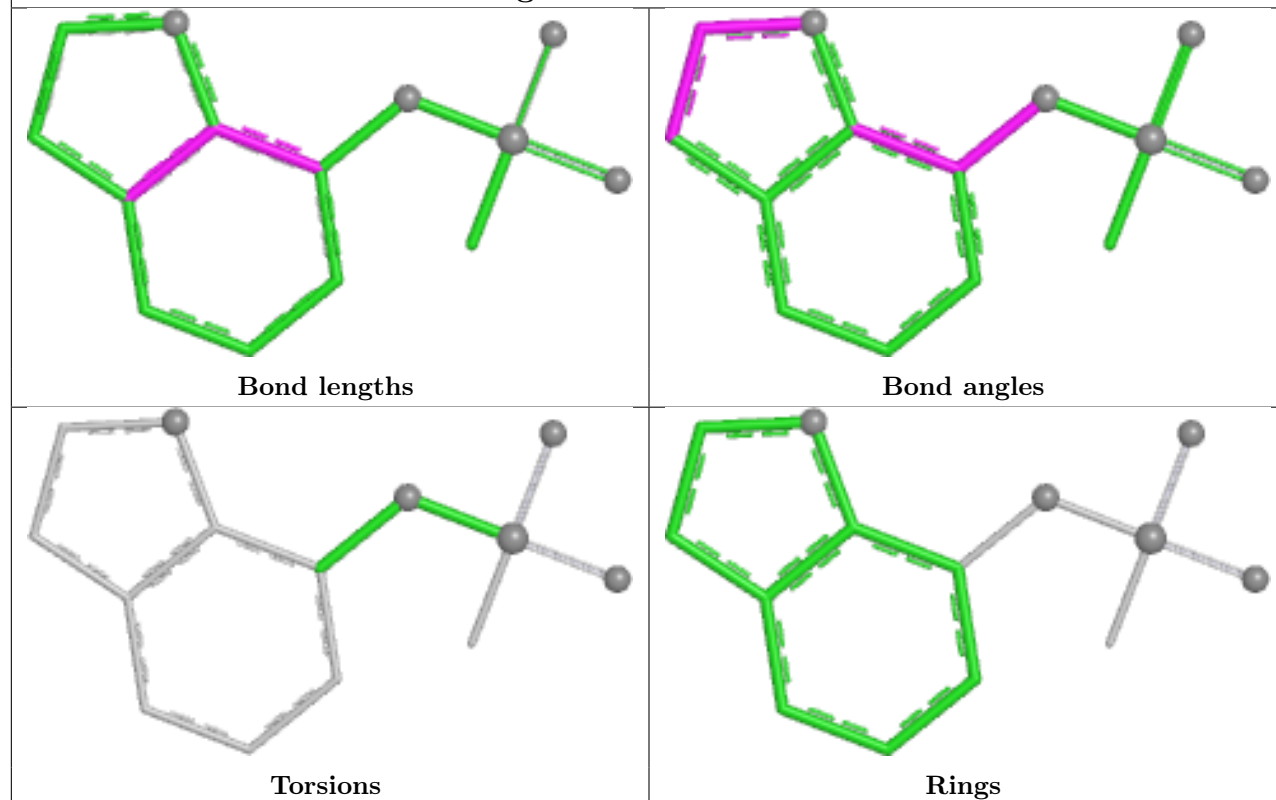
There are no torsion outliers.

There are no ring outliers.

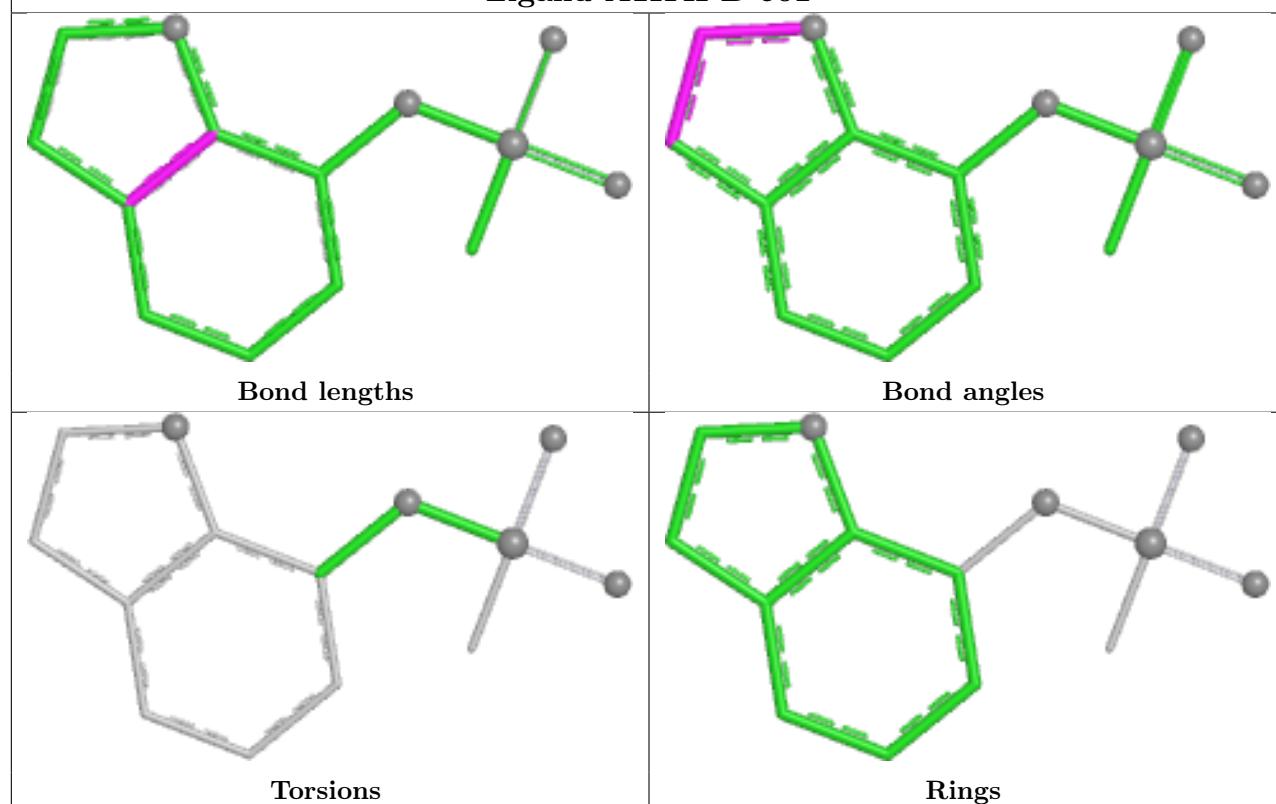
No monomer is involved in short contacts.

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 A1H4I A 601



Ligand A1H4I B 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	502/537 (93%)	0.46	32 (6%) 25 27	18, 43, 75, 95	3 (0%)
1	B	504/537 (93%)	0.47	34 (6%) 24 25	21, 43, 76, 92	1 (0%)
All	All	1006/1074 (93%)	0.47	66 (6%) 24 26	18, 43, 75, 95	4 (0%)

All (66) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	294	ASP	4.4
1	A	38	PRO	3.9
1	B	88	LEU	3.3
1	B	86	GLY	3.3
1	A	66	TYR	3.3
1	A	86	GLY	3.2
1	A	88	LEU	3.1
1	B	300	PRO	3.1
1	B	155	ASP	3.0
1	A	210	LEU	2.9
1	B	275	ASN	2.9
1	B	11	ILE	2.9
1	B	117	LEU	2.9
1	A	92	ASN	2.8
1	B	248	TRP	2.8
1	A	324	LYS	2.8
1	A	177	LEU	2.8
1	A	85	HIS	2.8
1	A	525	LEU	2.8
1	A	526	GLN	2.7
1	B	177	LEU	2.7
1	B	221	ILE	2.7
1	A	226	ILE	2.6
1	B	324	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	205	THR	2.6
1	B	205	THR	2.6
1	A	171	MET	2.5
1	A	311	MET	2.5
1	B	87	GLN	2.5
1	B	91	LYS	2.5
1	A	117	LEU	2.4
1	B	84	HIS	2.4
1	A	67	GLY	2.4
1	A	84	HIS	2.4
1	A	233	LEU	2.3
1	B	114	HIS	2.3
1	A	527	ARG	2.3
1	A	450	MET	2.3
1	B	529	LEU	2.3
1	B	116	HIS	2.2
1	A	14	VAL	2.2
1	B	125	LEU	2.2
1	B	293	HIS	2.2
1	B	90	GLU	2.2
1	B	526	GLN	2.2
1	A	246	GLY	2.2
1	B	93	GLY	2.2
1	B	119	GLY	2.2
1	A	394	HIS	2.1
1	A	469	PHE	2.1
1	A	155	ASP	2.1
1	B	301	VAL	2.1
1	A	143	HIS	2.1
1	A	299	GLU	2.1
1	A	523	GLU	2.1
1	B	363	GLY	2.1
1	B	216	LEU	2.1
1	B	96	ILE	2.1
1	A	160	SER	2.1
1	B	3	SER	2.1
1	B	89	LYS	2.1
1	A	485	ASP	2.1
1	B	451	ASP	2.0
1	B	85	HIS	2.0
1	B	524	THR	2.0
1	A	275	ASN	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](#)

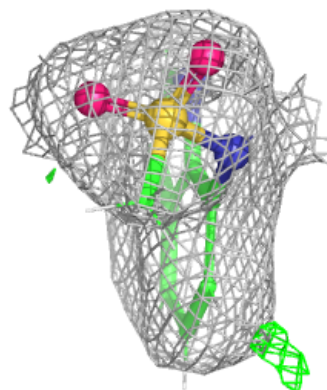
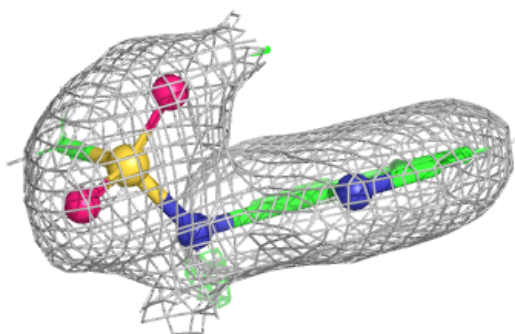
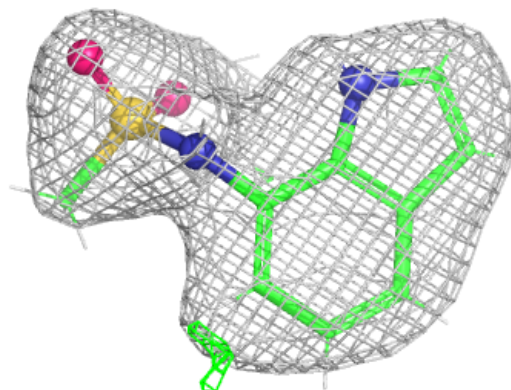
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	A1H4I	A	601	14/14	0.94	0.08	40,42,44,44	24
2	A1H4I	B	601	14/14	0.94	0.09	37,39,43,43	24

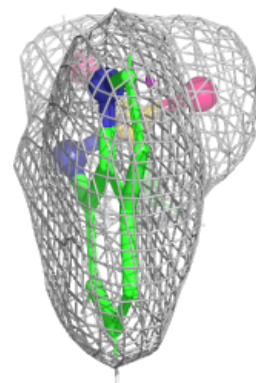
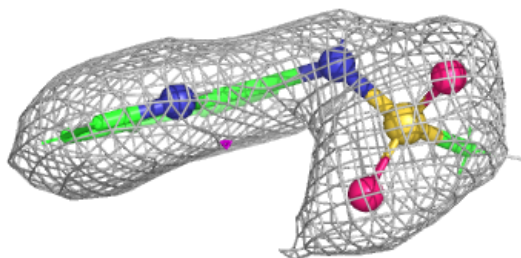
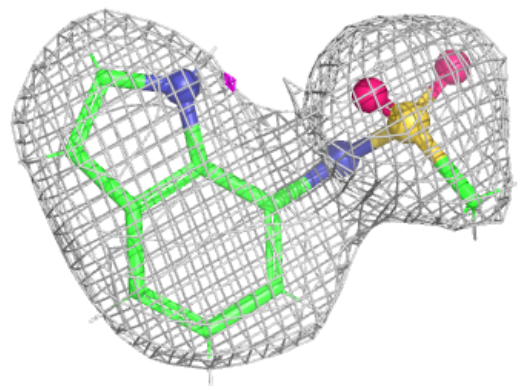
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around A1H4I 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)

**Electron density around A1H4I 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)



6.5 Other polymers [i](#)

There are no such residues in this entry.