



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:12 AM UTC

PDB ID : 6W39 / pdb_00006w39
Title : Structure of unphosphorylated IRE1 in complex with G-1749
Authors : Ferri, E.; Wang, W.; Joachim, R.; Mortara, K.
Deposited on : 2020-03-09
Resolution : 1.74 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

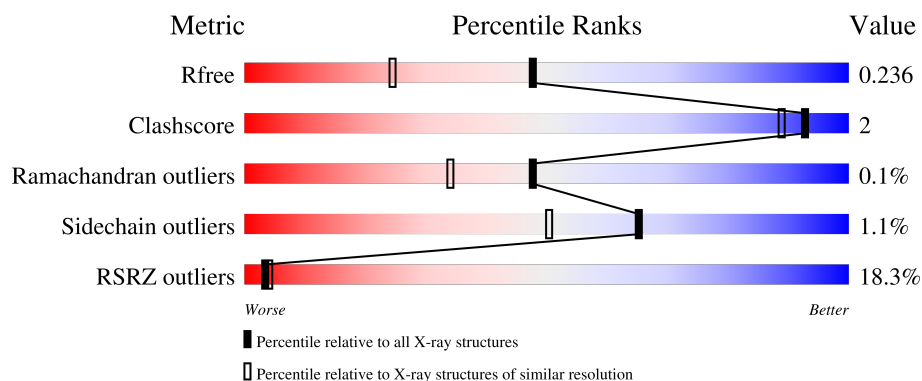
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.74 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	1187 (1.74-1.74)
Clashscore	190562	1207 (1.74-1.74)
Ramachandran outliers	187476	1200 (1.74-1.74)
Sidechain outliers	187428	1200 (1.74-1.74)
RSRZ outliers	180081	1188 (1.74-1.74)

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	431	15% 84% 13%
1	B	431	17% 82% 13%

2 Entry composition [i](#)

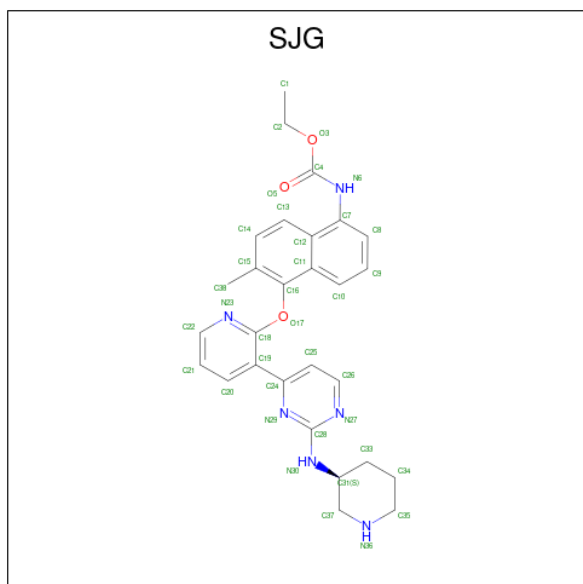
There are 3 unique types of molecules in this entry. The entry contains 12165 atoms, of which 5763 are hydrogens and 0 are deuteriums.

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 Serine/threonine-protein kinase/endoribonuclease IRE1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	374	Total	C	H	N	O	S	0	3	0
			5854	1906	2884	511	535	18			
1	B	374	Total	C	H	N	O	S	0	4	0
			5847	1907	2877	513	534	16			

- Molecule 2 is ethyl {N}-[6-methyl-5-[3-[2-[[3 {S}]-piperidin-3-yl]amino]pyrimidin-4-yl]pyridin-2-yl]oxy-naphthalen-1-yl]carbamate (CCD ID: SJG) (formula: C₂₈H₃₀N₆O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	H	N	O		0	0
			38	28	1	6	3			
2	B	1	Total	C	H	N	O		0	0
			38	28	1	6	3			

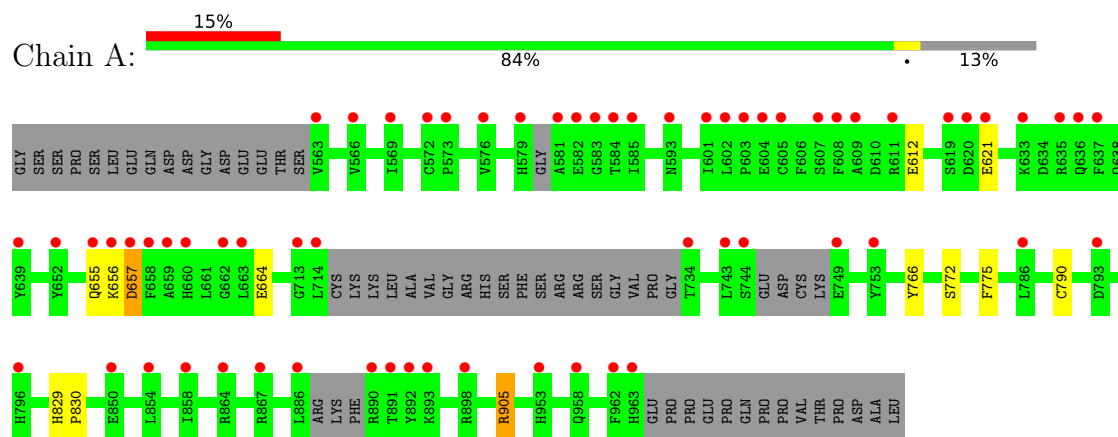
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	188	Total 188	O 188	0	0
3	B	200	Total 200	O 200	0	0

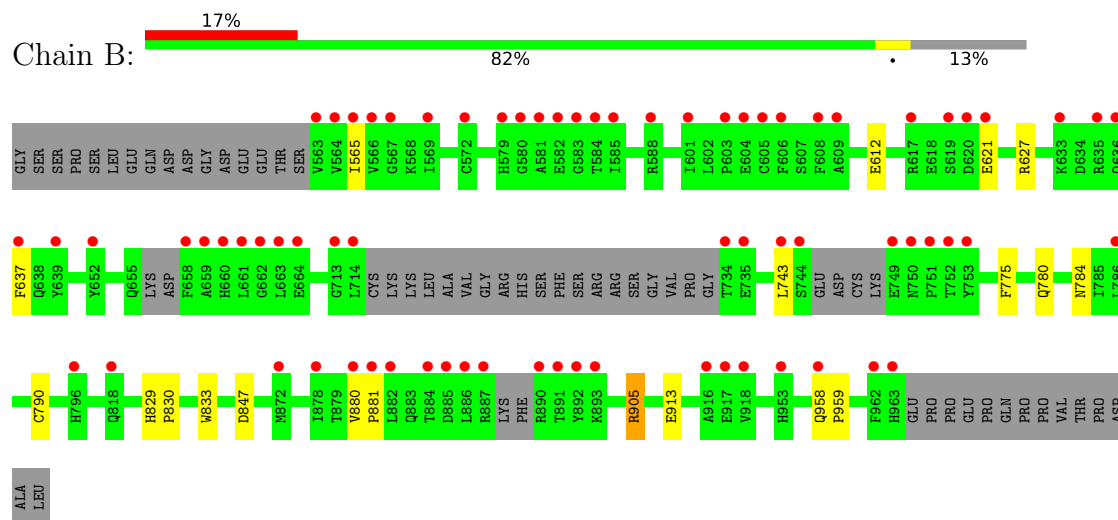
3 Residue-property plots [i](#)

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: Serine/threonine-protein kinase/endoribonuclease IRE1



- Molecule 1: Serine/threonine-protein kinase/endoribonuclease IRE1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	77.71Å 82.92Å 164.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	82.31 – 1.74 82.31 – 1.74	Depositor EDS
% Data completeness (in resolution range)	69.7 (82.31-1.74) 69.7 (82.31-1.74)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.97 (at 1.74Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.195 , 0.235 0.198 , 0.236	Depositor DCC
R_{free} test set	3928 reflections (3.56%)	wwPDB-VP
Wilson B-factor (Å ²)	29.2	Xtriage
Anisotropy	0.013	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 49.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	12165	wwPDB-VP
Average B, all atoms (Å ²)	49.0	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 36.96 % 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 4.6122e-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 [i](#)

5.1 Standard geometry [i](#)

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

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	0.55	0/3054	0.76	0/4136
1	B	0.54	0/3048	0.76	1/4127 (0.0%)
All	All	0.54	0/6102	0.76	1/8263 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	637	PHE	N-CA-C	5.38	117.15	109.14

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	2970	2884	2874	9	0
1	B	2970	2877	2869	10	0
2	A	37	1	0	1	0
2	B	37	1	0	1	0
3	A	188	0	0	2	0
3	B	200	0	0	0	0
All	All	6402	5763	5743	18	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 (18) 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:847:ASP:OD1	1:B:905:ARG:NH2	2.35	0.59
1:A:612:GLU:OE2	2:A:1001:SJG:N6	2.42	0.52
1:A:621[B]:GLU:H	1:A:621[B]:GLU:CD	2.18	0.51
1:A:621[B]:GLU:OE2	3:A:1101:HOH:O	2.20	0.50
1:B:829:HIS:CG	1:B:830:PRO:HD2	2.47	0.49
1:A:775:PHE:CE1	1:A:790:CYS:HB3	2.49	0.48
1:B:612:GLU:OE2	2:B:1001:SJG:N6	2.49	0.46
1:A:829:HIS:CG	1:A:830:PRO:HD2	2.52	0.45
1:A:656:LYS:O	1:A:657:ASP:CB	2.66	0.44
1:B:775:PHE:CE1	1:B:790:CYS:HB3	2.52	0.44
1:A:766:TYR:HA	1:A:772:SER:O	2.20	0.42
1:B:780:GLN:HG2	1:B:784:ASN:ND2	2.35	0.42
1:A:905:ARG:NH1	3:A:1121:HOH:O	2.52	0.41
1:B:830:PRO:HA	1:B:833:TRP:CD2	2.55	0.41
1:B:880:VAL:N	1:B:881:PRO:CD	2.83	0.41
1:B:621[A]:GLU:HG2	1:B:621[A]:GLU:O	2.21	0.41
1:A:621[A]:GLU:OE1	1:B:627:ARG:NH1	2.54	0.40
1:B:958:GLN:N	1:B:959:PRO:CD	2.85	0.40

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	367/431 (85%)	355 (97%)	11 (3%)	1 (0%)	36	23
1	B	367/431 (85%)	351 (96%)	16 (4%)	0	100	100
All	All	734/862 (85%)	706 (96%)	27 (4%)	1 (0%)	48	34

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	657	ASP

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	315/382 (82%)	312 (99%)	3 (1%)	68	54
1	B	313/382 (82%)	309 (99%)	4 (1%)	61	43
All	All	628/764 (82%)	621 (99%)	7 (1%)	65	50

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	655	GLN
1	A	664	GLU
1	A	905	ARG
1	B	565	ILE
1	B	743	LEU
1	B	905	ARG
1	B	913	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	593	ASN

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	SJG	B	1001	-	39,41,41	0.98	1 (2%)	51,56,56	2.48	12 (23%)
2	SJG	A	1001	-	39,41,41	0.81	1 (2%)	51,56,56	2.51	13 (25%)

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	SJG	B	1001	-	-	4/19/27/27	0/5/5/5
2	SJG	A	1001	-	-	5/19/27/27	0/5/5/5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1001	SJG	C28-N30	4.52	1.40	1.34
2	A	1001	SJG	C28-N30	3.68	1.39	1.34

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1001	SJG	C16-O17-C18	9.31	126.52	116.84
2	B	1001	SJG	C16-O17-C18	8.60	125.79	116.84
2	B	1001	SJG	C26-N27-C28	6.90	121.18	115.42
2	A	1001	SJG	C24-N29-C28	6.20	121.59	116.81
2	A	1001	SJG	C26-N27-C28	5.82	120.29	115.42
2	B	1001	SJG	O3-C4-N6	5.23	117.56	109.35
2	B	1001	SJG	C24-N29-C28	5.22	120.83	116.81
2	A	1001	SJG	O3-C4-N6	5.17	117.47	109.35
2	B	1001	SJG	N27-C28-N29	-4.85	121.73	126.42
2	A	1001	SJG	N27-C28-N29	-4.52	122.05	126.42
2	B	1001	SJG	C25-C26-N27	-4.49	118.48	123.97
2	A	1001	SJG	C25-C26-N27	-3.98	119.09	123.97
2	B	1001	SJG	O3-C4-O5	-3.57	117.41	124.26
2	A	1001	SJG	O3-C4-O5	-3.50	117.55	124.26
2	A	1001	SJG	C25-C24-N29	-3.50	117.36	121.97
2	A	1001	SJG	C33-C31-N30	-3.25	105.54	110.77
2	A	1001	SJG	C15-C16-C11	-3.06	118.77	122.44
2	B	1001	SJG	C25-C24-N29	-2.98	118.04	121.97
2	A	1001	SJG	C12-C7-N6	2.74	122.93	118.35
2	B	1001	SJG	C26-C25-C24	2.60	119.71	117.20
2	B	1001	SJG	C21-C22-N23	-2.54	119.40	123.42
2	A	1001	SJG	C26-C25-C24	2.48	119.60	117.20
2	B	1001	SJG	O17-C16-C15	2.43	123.55	118.32
2	B	1001	SJG	C15-C16-C11	-2.17	119.84	122.44
2	A	1001	SJG	C14-C15-C16	2.03	120.98	117.75

There are no chirality outliers.

All (9) torsion outliers are listed below:

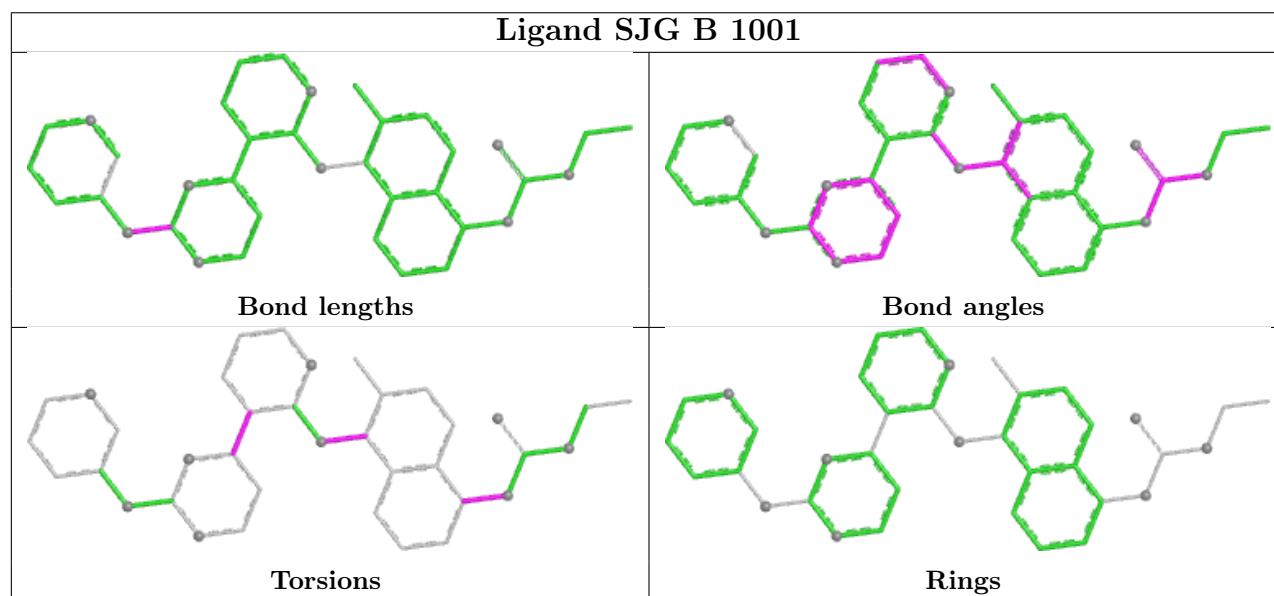
Mol	Chain	Res	Type	Atoms
2	A	1001	SJG	C15-C16-O17-C18
2	B	1001	SJG	C15-C16-O17-C18
2	A	1001	SJG	C8-C7-N6-C4
2	B	1001	SJG	C8-C7-N6-C4
2	A	1001	SJG	C20-C19-C24-C25
2	A	1001	SJG	C20-C19-C24-N29
2	B	1001	SJG	C20-C19-C24-C25
2	B	1001	SJG	C20-C19-C24-N29
2	A	1001	SJG	C12-C7-N6-C4

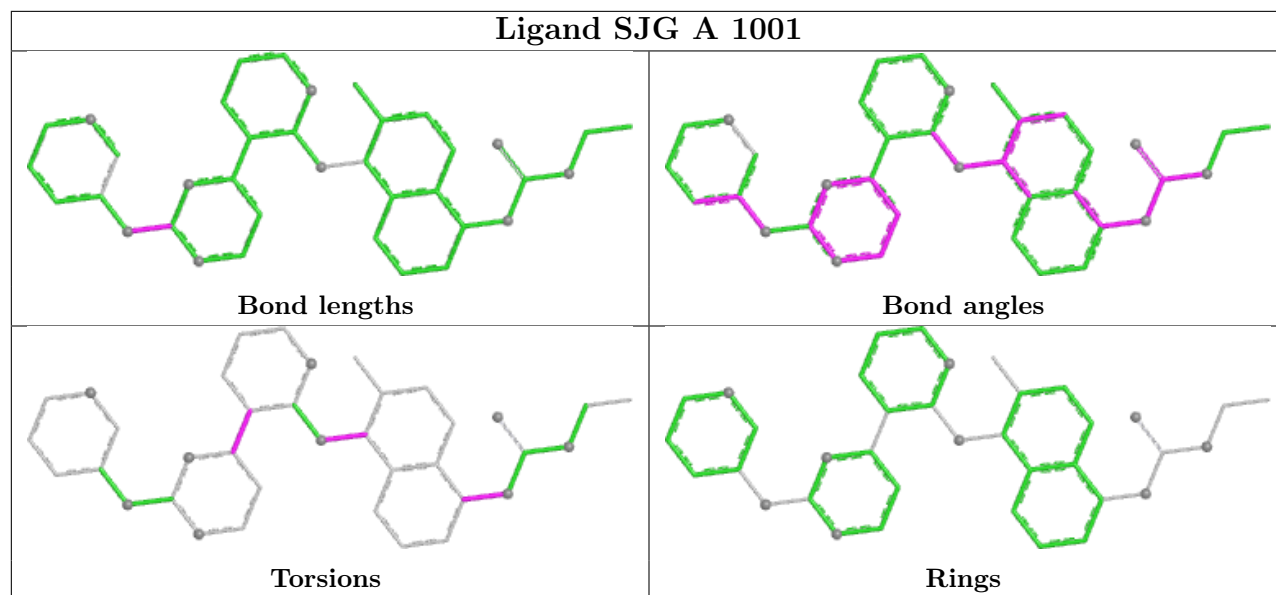
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1001	SJG	1	0
2	A	1001	SJG	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	374/431 (86%)	0.68	64 (17%) 4 5	18, 44, 89, 124	2 (0%)
1	B	374/431 (86%)	0.81	73 (19%) 3 3	18, 45, 91, 121	3 (0%)
All	All	748/862 (86%)	0.74	137 (18%) 3 4	18, 44, 91, 124	5 (0%)

All (137) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	891	THR	7.5
1	B	563	VAL	7.3
1	A	890	ARG	7.2
1	B	891	THR	7.2
1	A	657	ASP	7.1
1	B	621[A]	GLU	6.3
1	A	963	HIS	6.1
1	A	734	THR	5.9
1	B	660	HIS	5.8
1	B	887	ARG	5.4
1	B	608	PHE	5.3
1	A	581	ALA	5.2
1	A	744	SER	5.1
1	B	659	ALA	5.0
1	B	566	VAL	5.0
1	B	963	HIS	5.0
1	B	572	CYS	5.0
1	B	565	ILE	5.0
1	A	898	ARG	4.9
1	A	563	VAL	4.9
1	A	656	LYS	4.6
1	A	659	ALA	4.6
1	A	743	LEU	4.5
1	A	663	LEU	4.5

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Mol	Chain	Res	Type	RSRZ
1	B	880	VAL	4.4
1	B	581	ALA	4.3
1	B	604	GLU	4.2
1	B	714	LEU	4.2
1	A	601	ILE	4.1
1	B	744	SER	4.1
1	A	749	GLU	4.1
1	A	608	PHE	4.1
1	B	658	PHE	4.0
1	B	635	ARG	3.9
1	B	786	LEU	3.9
1	B	962	PHE	3.8
1	B	917	GLU	3.8
1	B	749	GLU	3.7
1	A	637	PHE	3.7
1	B	886	LEU	3.7
1	B	663	LEU	3.6
1	A	619	SER	3.6
1	B	636	GLN	3.6
1	A	636	GLN	3.6
1	A	621[A]	GLU	3.6
1	A	579	HIS	3.6
1	B	637	PHE	3.5
1	B	713	GLY	3.5
1	B	734	THR	3.4
1	A	604	GLU	3.4
1	A	602	LEU	3.4
1	A	958	GLN	3.4
1	B	583	GLY	3.4
1	B	601	ILE	3.3
1	A	658	PHE	3.3
1	A	584	THR	3.2
1	B	743	LEU	3.2
1	B	892	TYR	3.2
1	B	579	HIS	3.2
1	A	572	CYS	3.2
1	B	567	GLY	3.2
1	B	918	VAL	3.2
1	B	661	LEU	3.2
1	A	660	HIS	3.2
1	B	603	PRO	3.1
1	A	714	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	619	SER	3.1
1	B	953[A]	HIS	3.1
1	A	796	HIS	3.1
1	B	620	ASP	3.1
1	A	892	TYR	3.0
1	A	886	LEU	3.0
1	A	607	SER	3.0
1	B	580	GLY	3.0
1	A	962	PHE	3.0
1	B	890	ARG	2.9
1	B	753[A]	TYR	2.9
1	A	713	GLY	2.9
1	B	884	THR	2.9
1	A	753[A]	TYR	2.9
1	B	662	GLY	2.9
1	B	652	TYR	2.8
1	B	582	GLU	2.8
1	B	958	GLN	2.8
1	A	620	ASP	2.8
1	A	585	ILE	2.7
1	B	893	LYS	2.7
1	B	872	MET	2.7
1	A	583	GLY	2.6
1	A	652	TYR	2.6
1	B	796	HIS	2.6
1	B	882	LEU	2.6
1	A	566	VAL	2.6
1	B	751	PRO	2.6
1	B	617	ARG	2.6
1	A	593	ASN	2.5
1	B	584	THR	2.5
1	B	633	LYS	2.4
1	A	569	ILE	2.4
1	B	752	THR	2.4
1	B	569	ILE	2.4
1	A	786	LEU	2.3
1	B	609	ALA	2.3
1	A	850	GLU	2.3
1	B	664	GLU	2.3
1	B	588	ARG	2.3
1	A	655	GLN	2.3
1	A	639	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	885	ASP	2.3
1	A	953	HIS	2.2
1	B	818	GLN	2.2
1	A	893	LYS	2.2
1	A	864	ARG	2.2
1	A	867	ARG	2.2
1	B	916	ALA	2.2
1	B	605	CYS	2.2
1	A	582	GLU	2.2
1	B	878	ILE	2.2
1	B	639	TYR	2.2
1	A	603	PRO	2.2
1	A	662	GLY	2.1
1	A	854	LEU	2.1
1	A	793	ASP	2.1
1	A	858	ILE	2.1
1	A	609	ALA	2.1
1	A	576	VAL	2.1
1	A	605	CYS	2.1
1	B	735	GLU	2.1
1	A	635	ARG	2.1
1	A	633	LYS	2.1
1	B	606	PHE	2.1
1	A	611	ARG	2.0
1	A	573	PRO	2.0
1	B	881	PRO	2.0
1	B	750	ASN	2.0
1	B	585	ILE	2.0
1	B	564	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

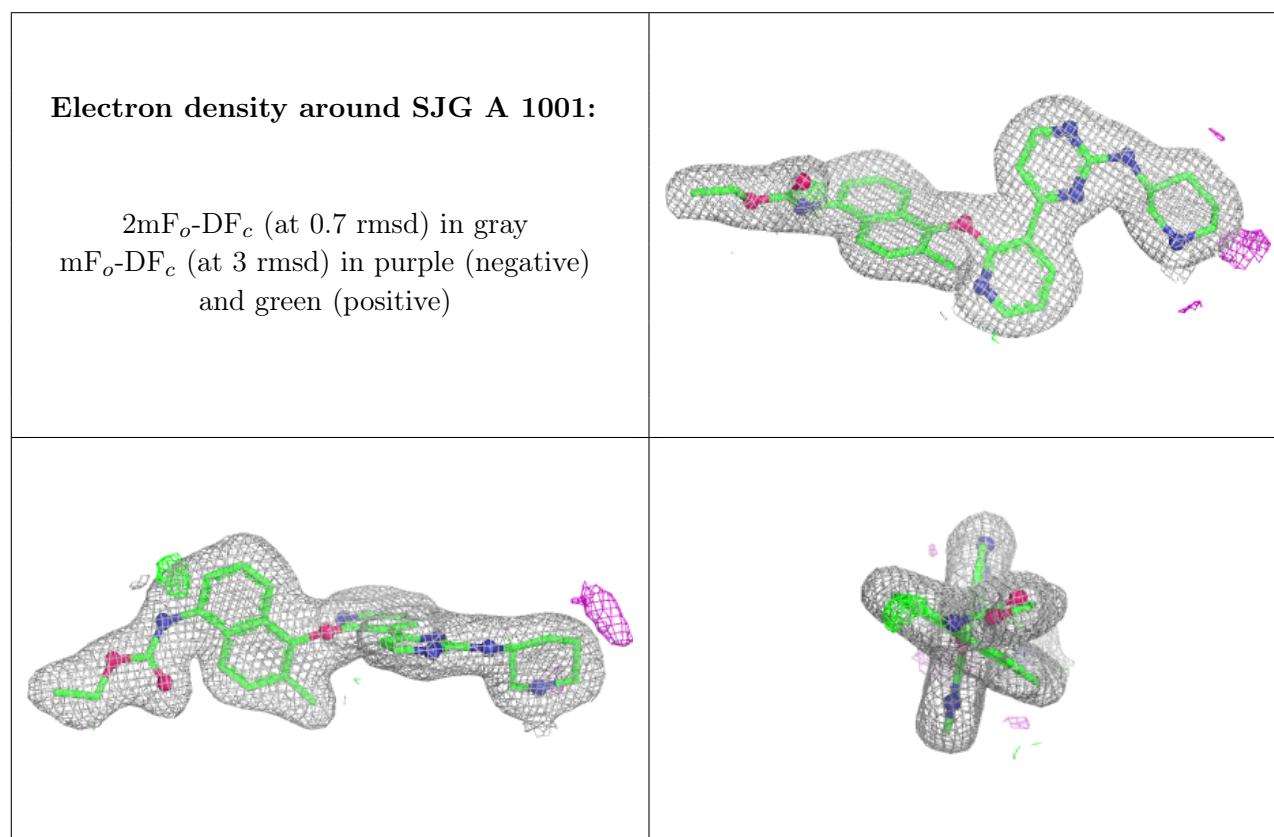
There are no oligosaccharides in this entry.

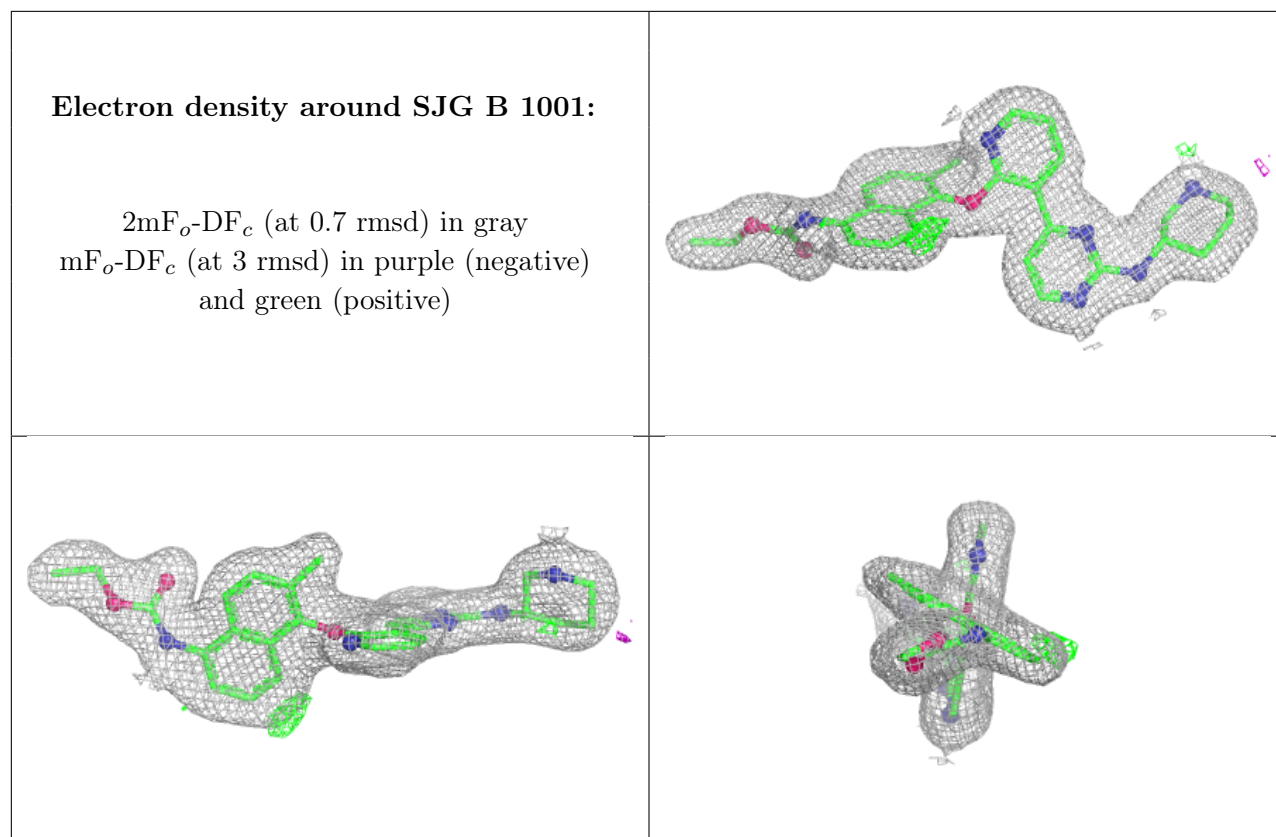
6.4 Ligands [i](#)

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	SJG	A	1001	37/37	0.96	0.07	24,31,40,42	0
2	SJG	B	1001	37/37	0.96	0.07	25,32,40,44	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.