



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 07:54 AM UTC

PDB ID : 8YX4 / pdb_00008yx4
Title : Crystal Structure of SARS CoV-2 Papain-like Protease PLpro-C111S in Complex with GZNL-P31
Authors : Lu, Y.; Shang, J.
Deposited on : 2024-04-02
Resolution : 2.28 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

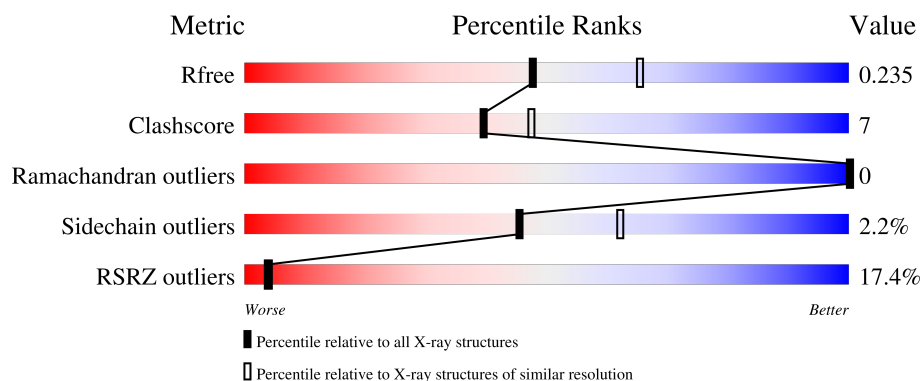
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.28 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	9078 (2.30-2.26)
Clashscore	190562	9802 (2.30-2.26)
Ramachandran outliers	187476	9690 (2.30-2.26)
Sidechain outliers	187428	9691 (2.30-2.26)
RSRZ outliers	180081	9085 (2.30-2.26)

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	316	17% 86% 12%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	ZN	A	404	-	-	-	X

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 4894 atoms, of which 2258 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.

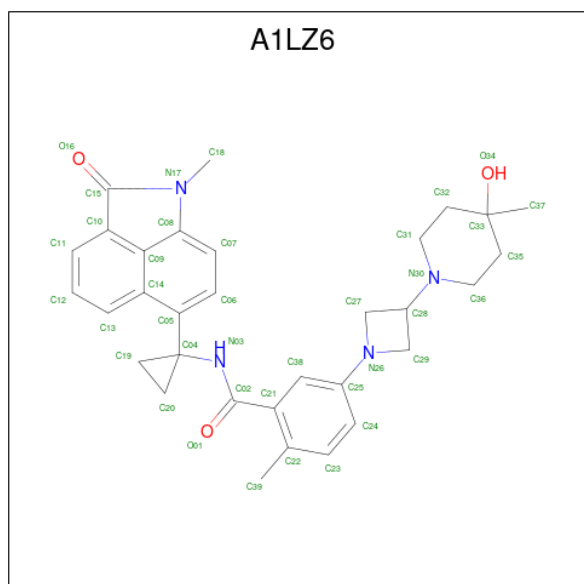
- Molecule 1 is a protein called Papain-like protease nsp3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	311	Total	C	H	N	O	S	0	0	0
			4711	1570	2250	405	472	14			

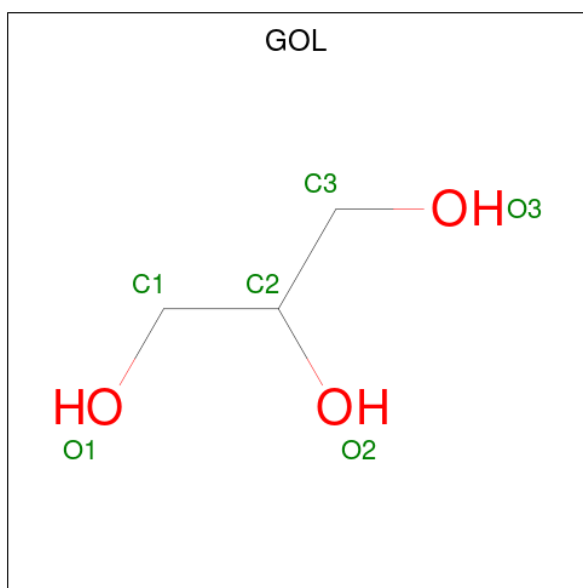
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP P0DTD1
A	111	SER	CYS	engineered mutation	UNP P0DTD1

- Molecule 2 is 2-methyl- {N}-[1-(1-methyl-2-oxidanylidene-benzo[cd]indol-6-yl)cyclopropyl]-5-[3-(4-methyl-4-oxidanyl-piperidin-1-yl)azetidin-1-yl]benzamide (CCD ID: A1LZ6) (formula: C₃₂H₃₆N₄O₃) (labeled as "Ligand of Interest" by depositor).



- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			14	3	8	3		

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	3	Total	Zn	0	0
			3	3		

- Molecule 5 is CADMIUM ION (CCD ID: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	6	Total	Cd	0	0
			6	6		

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	3	Total	Cl	0	0
			3	3		

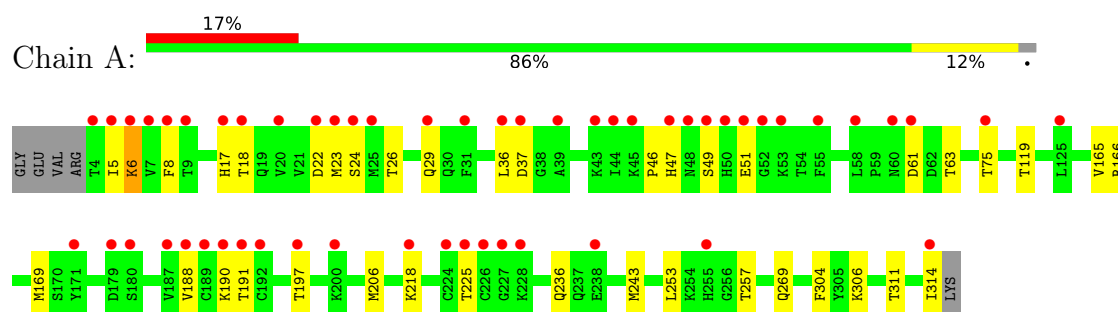
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	118	Total 118	O 118	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: Papain-like protease nsp3



4 Data and refinement statistics

Property	Value	Source
Space group	I 41 2 2	Depositor
Cell constants a, b, c, α , β , γ	112.48Å 112.48Å 219.85Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	56.24 – 2.28 56.24 – 2.28	Depositor EDS
% Data completeness (in resolution range)	99.9 (56.24-2.28) 99.9 (56.24-2.28)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.17 (at 2.27Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.194 , 0.233 0.204 , 0.235	Depositor DCC
R_{free} test set	1718 reflections (5.27%)	wwPDB-VP
Wilson B-factor (Å ²)	41.0	Xtriage
Anisotropy	0.383	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 29.1	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	0.94	EDS
Total number of atoms	4894	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.13% 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: ZN, GOL, CL, A1LZ6, CD

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	0/2520	0.77	0/3422

There are no bond length outliers.

There are no bond angle outliers.

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	2461	2250	2393	33	0
2	A	39	0	0	1	0
3	A	6	8	7	3	0
4	A	3	0	0	0	0
5	A	6	0	0	0	0
6	A	3	0	0	0	0
7	A	118	0	0	1	0
All	All	2636	2258	2400	33	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 7.

All (33) 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:5:ILE:HG21	1:A:23:MET:HE3	1.39	1.00
1:A:5:ILE:CG2	1:A:23:MET:HE3	1.97	0.94
1:A:5:ILE:HG21	1:A:23:MET:CE	2.08	0.83
1:A:5:ILE:HB	1:A:51:GLU:HG2	1.62	0.82
1:A:5:ILE:CG2	1:A:23:MET:CE	2.66	0.71
1:A:47:HIS:HD2	1:A:49:SER:H	1.39	0.69
1:A:8:PHE:CE1	1:A:18:THR:HG22	2.26	0.69
1:A:5:ILE:HD12	1:A:51:GLU:HA	1.74	0.69
1:A:47:HIS:CD2	1:A:49:SER:H	2.11	0.68
1:A:8:PHE:HE1	1:A:18:THR:HG22	1.59	0.65
1:A:253:LEU:HA	3:A:402:GOL:O1	1.98	0.63
1:A:23:MET:HG3	1:A:46:PRO:HB2	1.82	0.61
1:A:225:THR:HG22	1:A:225:THR:O	2.02	0.59
1:A:75:THR:HG22	1:A:75:THR:O	2.02	0.59
1:A:6:LYS:O	1:A:6:LYS:HG3	2.02	0.59
1:A:22:ASP:OD2	1:A:24:SER:OG	2.22	0.57
1:A:188:VAL:HG23	1:A:188:VAL:O	2.05	0.57
1:A:166:ARG:HA	1:A:243:MET:HE1	1.87	0.55
1:A:269:GLN:HA	2:A:401:A1LZ6:C22	2.40	0.51
1:A:5:ILE:HG23	1:A:23:MET:HE3	1.87	0.50
1:A:17:HIS:ND1	7:A:502:HOH:O	2.35	0.48
1:A:257:THR:OG1	3:A:402:GOL:H11	2.13	0.47
1:A:23:MET:HE2	1:A:47:HIS:C	2.39	0.47
1:A:206:MET:HE3	1:A:243:MET:SD	2.55	0.46
1:A:61:ASP:C	1:A:61:ASP:OD1	2.59	0.45
1:A:119:THR:HG21	1:A:304:PHE:CZ	2.52	0.44
1:A:165:VAL:O	1:A:169:MET:HG2	2.16	0.44
1:A:236:GLN:OE1	1:A:311:THR:OG1	2.37	0.42
1:A:218:LYS:HA	1:A:218:LYS:HD3	1.78	0.41
1:A:26:THR:HG23	1:A:29:GLN:H	1.86	0.41
1:A:36:LEU:HD23	1:A:37:ASP:N	2.36	0.41
1:A:257:THR:OG1	3:A:402:GOL:C1	2.69	0.40
1:A:190:LYS:HA	1:A:190:LYS:HE2	2.04	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	309/316 (98%)	299 (97%)	10 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	267/275 (97%)	261 (98%)	6 (2%)	45	62

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	LYS
1	A	63	THR
1	A	191	THR
1	A	197	THR
1	A	306	LYS
1	A	314	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	29	GLN
1	A	47	HIS
1	A	88	ASN
1	A	97	GLN
1	A	195	GLN
1	A	221	GLN
1	A	250	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 ⓘ

Of 14 ligands modelled in this entry, 12 are monoatomic - leaving 2 for Mogul analysis.

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	GOL	A	402	-	5,5,5	1.56	1 (20%)	5,5,5	1.71	1 (20%)
2	A1LZ6	A	401	-	42,45,45	3.21	18 (42%)	60,71,71	2.93	24 (40%)

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	GOL	A	402	-	-	3/4/4/4	-
2	A1LZ6	A	401	-	-	2/22/47/47	0/7/7/7

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	A1LZ6	C28-N30	-10.14	1.22	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	A1LZ6	C32-C33	-7.43	1.45	1.52
2	A	401	A1LZ6	C02-N03	6.32	1.46	1.34
2	A	401	A1LZ6	C06-C05	5.76	1.45	1.37
2	A	401	A1LZ6	C29-N26	4.80	1.51	1.47
2	A	401	A1LZ6	C19-C04	4.68	1.56	1.51
2	A	401	A1LZ6	C12-C13	4.35	1.45	1.36
2	A	401	A1LZ6	C37-C33	4.22	1.57	1.52
2	A	401	A1LZ6	C20-C04	3.74	1.55	1.51
2	A	401	A1LZ6	O16-C15	-3.46	1.15	1.22
2	A	401	A1LZ6	C14-C09	-3.43	1.36	1.42
2	A	401	A1LZ6	O34-C33	-3.41	1.39	1.44
2	A	401	A1LZ6	C11-C10	2.89	1.43	1.38
3	A	402	GOL	O1-C1	-2.76	1.30	1.42
2	A	401	A1LZ6	C25-N26	2.58	1.45	1.38
2	A	401	A1LZ6	C21-C02	2.51	1.55	1.50
2	A	401	A1LZ6	C07-C06	2.45	1.42	1.38
2	A	401	A1LZ6	C36-N30	-2.40	1.42	1.47
2	A	401	A1LZ6	C12-C11	2.18	1.42	1.38

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	A1LZ6	O16-C15-C10	-7.44	123.22	129.75
2	A	401	A1LZ6	C20-C04-C05	7.44	132.31	119.36
2	A	401	A1LZ6	C19-C04-N03	-6.45	106.28	115.21
2	A	401	A1LZ6	C22-C21-C02	-6.11	115.13	120.52
2	A	401	A1LZ6	C29-N26-C27	-6.05	89.54	94.52
2	A	401	A1LZ6	C37-C33-C35	-6.04	104.28	111.36
2	A	401	A1LZ6	C31-N30-C36	5.73	120.05	109.13
2	A	401	A1LZ6	C35-C36-N30	4.43	117.33	111.00
2	A	401	A1LZ6	C24-C23-C22	-4.12	115.82	121.98
2	A	401	A1LZ6	O16-C15-N17	3.94	127.10	124.74
2	A	401	A1LZ6	C20-C04-N03	-3.94	109.75	115.21
2	A	401	A1LZ6	C38-C21-C22	3.80	122.89	119.57
2	A	401	A1LZ6	C39-C22-C21	-3.80	117.19	122.81
2	A	401	A1LZ6	C23-C22-C21	3.20	121.60	117.75
2	A	401	A1LZ6	C29-N26-C25	3.18	136.18	130.52
3	A	402	GOL	C3-C2-C1	-3.07	100.55	111.80
2	A	401	A1LZ6	C36-N30-C28	-3.03	105.08	112.79
2	A	401	A1LZ6	C07-C08-N17	3.00	135.49	132.10
2	A	401	A1LZ6	C04-N03-C02	-2.69	117.33	122.78
2	A	401	A1LZ6	C35-C33-C32	2.69	113.93	109.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	A1LZ6	C06-C07-C08	-2.54	117.19	120.86
2	A	401	A1LZ6	C32-C31-N30	2.53	114.61	111.00
2	A	401	A1LZ6	C21-C38-C25	-2.48	115.66	120.07
2	A	401	A1LZ6	C18-N17-C15	2.17	126.04	123.65
2	A	401	A1LZ6	C38-C25-N26	-2.06	119.10	121.33

There are no chirality outliers.

All (5) torsion outliers are listed below:

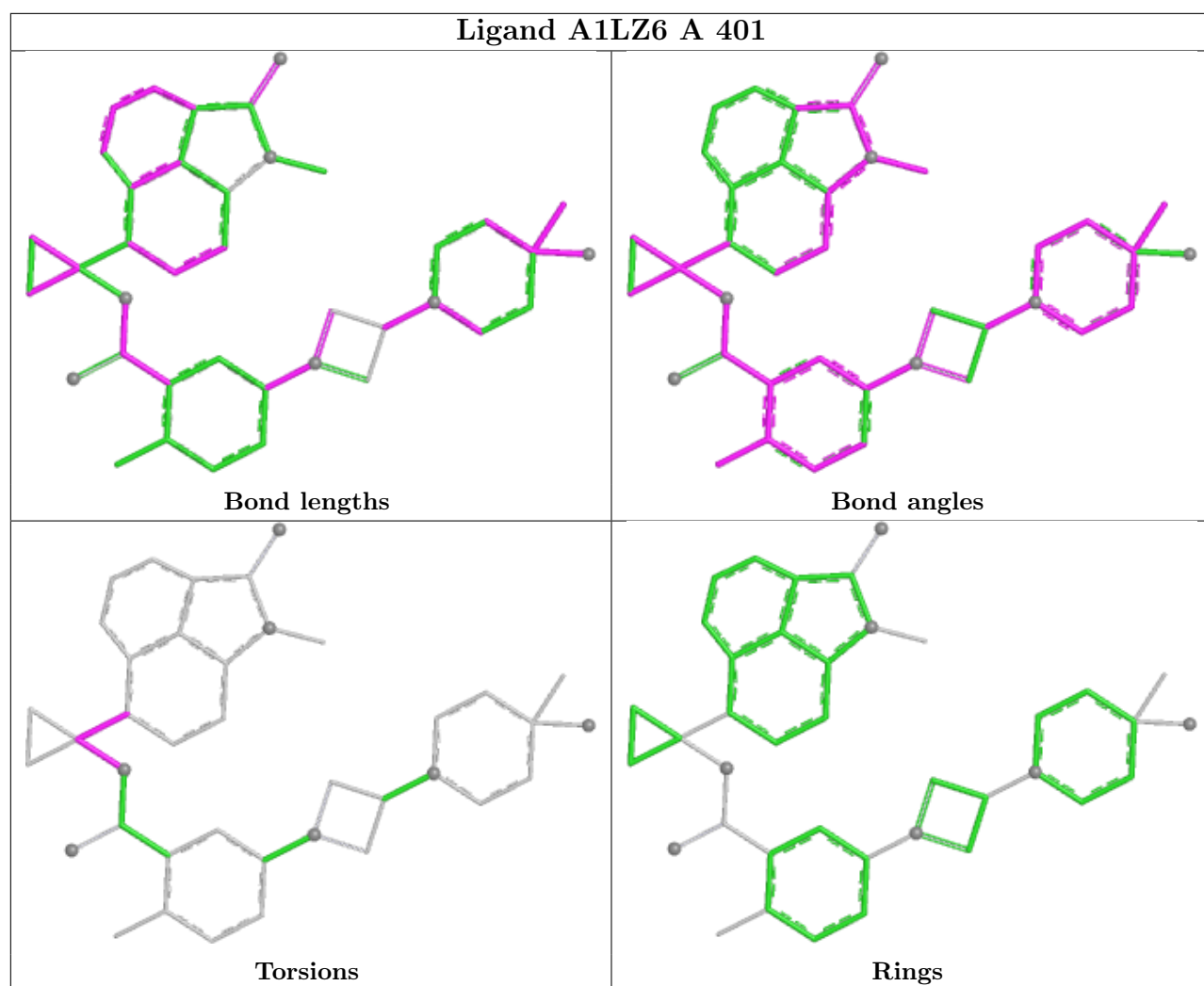
Mol	Chain	Res	Type	Atoms
3	A	402	GOL	O1-C1-C2-C3
3	A	402	GOL	O1-C1-C2-O2
3	A	402	GOL	O2-C2-C3-O3
2	A	401	A1LZ6	C20-C04-N03-C02
2	A	401	A1LZ6	C19-C04-C05-C06

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	402	GOL	3	0
2	A	401	A1LZ6	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	311/316 (98%)	0.69	54 (17%) 4 4	34, 52, 101, 128	0

All (54) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	224	CYS	8.8
1	A	226	CYS	8.5
1	A	314	ILE	7.8
1	A	225	THR	7.0
1	A	4	THR	6.6
1	A	6	LYS	5.7
1	A	20	VAL	5.5
1	A	191	THR	4.7
1	A	58	LEU	4.1
1	A	227	GLY	4.1
1	A	179	ASP	3.8
1	A	47	HIS	3.7
1	A	192	CYS	3.7
1	A	52	GLY	3.6
1	A	180	SER	3.4
1	A	37	ASP	3.4
1	A	23	MET	3.4
1	A	31	PHE	3.2
1	A	189	CYS	3.1
1	A	53	LYS	3.1
1	A	5	ILE	3.0
1	A	171	TYR	2.9
1	A	8	PHE	2.9
1	A	25	MET	2.9
1	A	125	LEU	2.9
1	A	7	VAL	2.9
1	A	18	THR	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	190	LYS	2.8
1	A	17	HIS	2.7
1	A	55	PHE	2.6
1	A	238	GLU	2.6
1	A	228	LYS	2.6
1	A	36	LEU	2.5
1	A	45	LYS	2.5
1	A	49	SER	2.5
1	A	60	ASN	2.5
1	A	200	LYS	2.4
1	A	9	THR	2.4
1	A	75	THR	2.4
1	A	48	ASN	2.4
1	A	188	VAL	2.3
1	A	197	THR	2.3
1	A	22	ASP	2.2
1	A	39	ALA	2.2
1	A	51	GLU	2.2
1	A	50	HIS	2.2
1	A	61	ASP	2.1
1	A	255	HIS	2.1
1	A	44	ILE	2.1
1	A	187	VAL	2.0
1	A	43	LYS	2.0
1	A	218	LYS	2.0
1	A	24	SER	2.0
1	A	29	GLN	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,

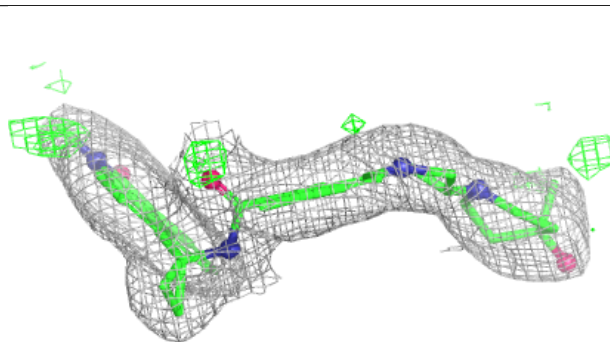
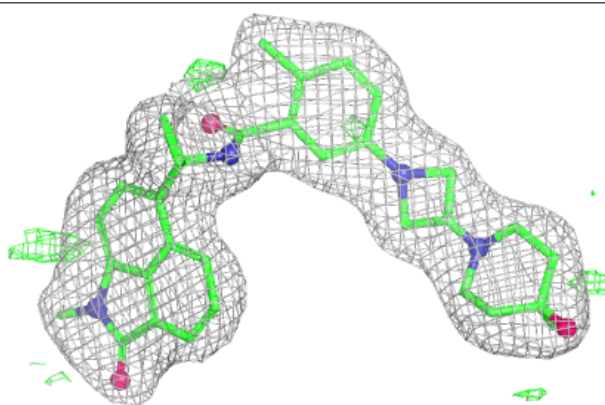
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	ZN	A	404	1/1	0.58	0.41	100,100,100,100	0
5	CD	A	409	1/1	0.88	0.17	152,152,152,152	0
3	GOL	A	402	6/6	0.94	0.12	45,57,66,78	0
4	ZN	A	405	1/1	0.95	0.07	87,87,87,87	0
5	CD	A	407	1/1	0.96	0.07	84,84,84,84	0
2	A1LZ6	A	401	39/39	0.96	0.09	25,34,43,53	0
5	CD	A	408	1/1	0.97	0.08	96,96,96,96	0
6	CL	A	414	1/1	0.97	0.10	42,42,42,42	0
4	ZN	A	403	1/1	0.98	0.04	63,63,63,63	0
6	CL	A	412	1/1	0.99	0.05	44,44,44,44	0
6	CL	A	413	1/1	0.99	0.04	37,37,37,37	0
5	CD	A	411	1/1	0.99	0.03	82,82,82,82	0
5	CD	A	406	1/1	1.00	0.02	40,40,40,40	0
5	CD	A	410	1/1	1.00	0.03	37,37,37,37	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 A1LZ6 A 401:

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.