



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 10:34 AM UTC

PDB ID : 5ICP / pdb_00005icp
Title : CDK8-CYCC IN COMPLEX WITH [(S)-2-(4-Chloro-phenyl)-pyrrolidin-1-yl]-
-(5-methyl-imidazo[5,1-b][1,3,4]thiadiazol-2-yl)-methanone
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Deposited on : 2016-02-23
Resolution : 2.18 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

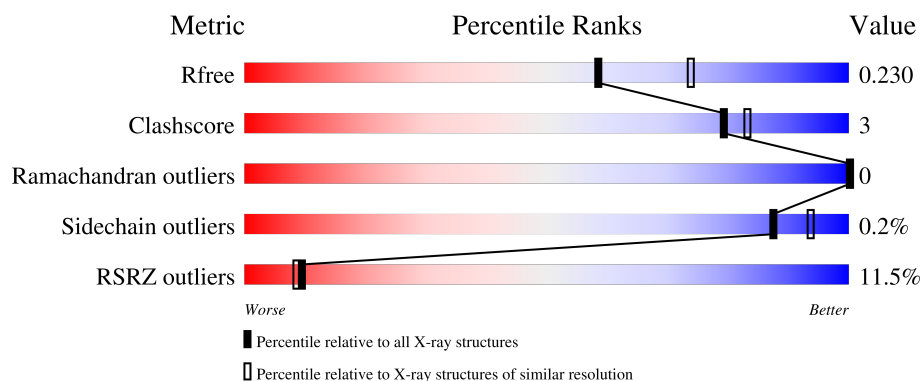
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.18 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	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

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	364	
2	B	267	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 5394 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 Cyclin-dependent kinase 8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	343	Total	C	N	O	S	78	1	0
			2840	1828	494	501	17			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	ASP	-	expression tag	UNP P49336
A	0	LYS	-	expression tag	UNP P49336

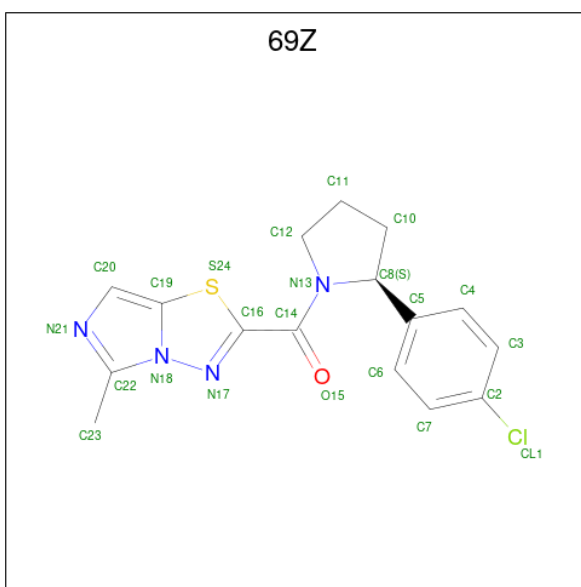
- Molecule 2 is a protein called Cyclin-C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	267	Total	C	N	O	S	70	5	0
			2267	1484	373	393	17			

There are 3 discrepancies between the modelled and reference sequences:

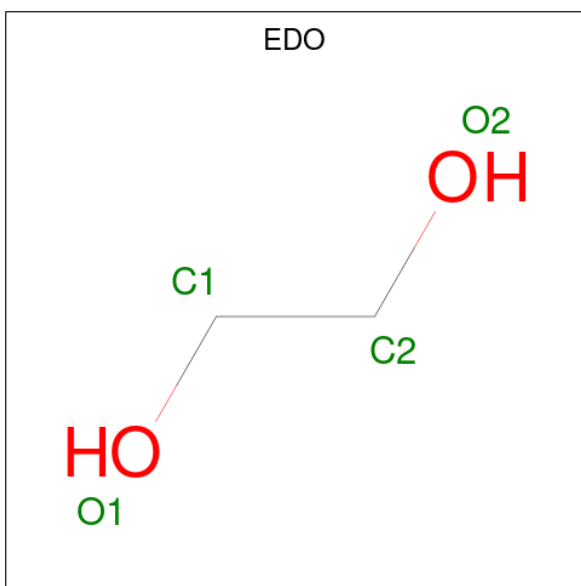
Chain	Residue	Modelled	Actual	Comment	Reference
B	-2	ASP	-	expression tag	UNP P24863
B	-1	LYS	-	expression tag	UNP P24863
B	0	ALA	-	expression tag	UNP P24863

- Molecule 3 is [(2S)-2-(4-chlorophenyl)pyrrolidin-1-yl](5-methylimidazo[5,1-b][1,3,4]thiadiazol-2-yl)methanone (CCD ID: 69Z) (formula: C₁₆H₁₅ClN₄OS).



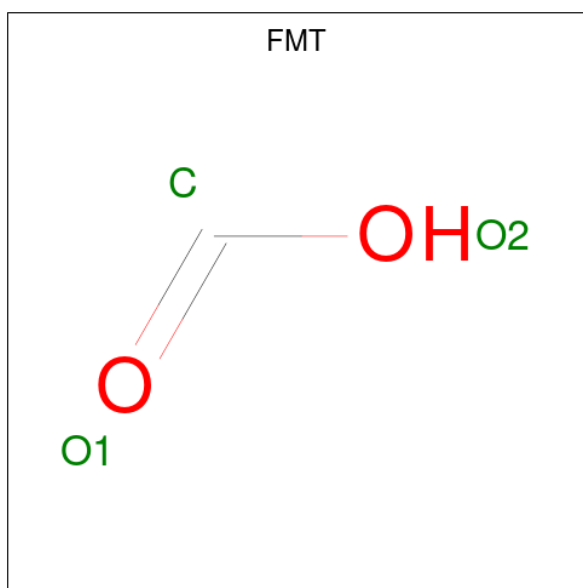
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	S	0	0
			23	16	1	4	1	1		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 5 is FORMIC ACID (CCD ID: FMT) (formula: CH_2O_2).



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

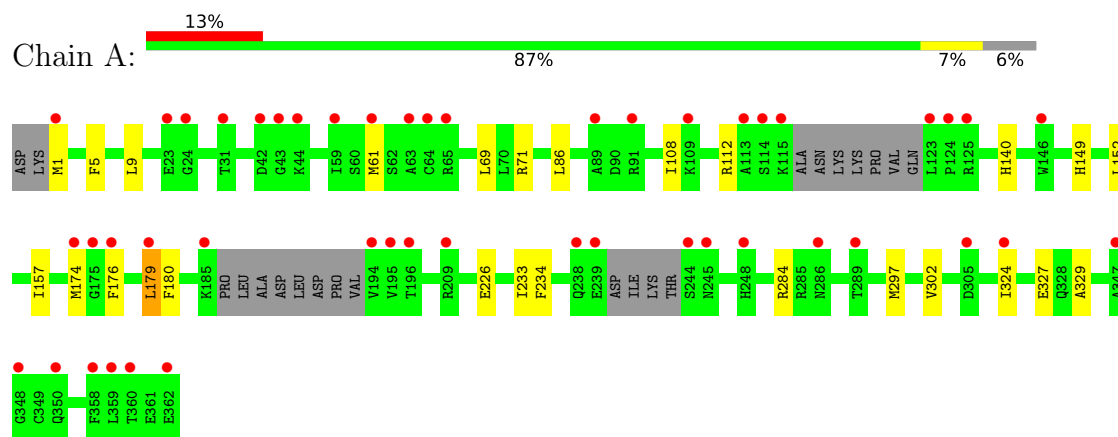
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	143	Total	O	0	2
			145	145		
6	B	79	Total	O	0	1
			80	80		

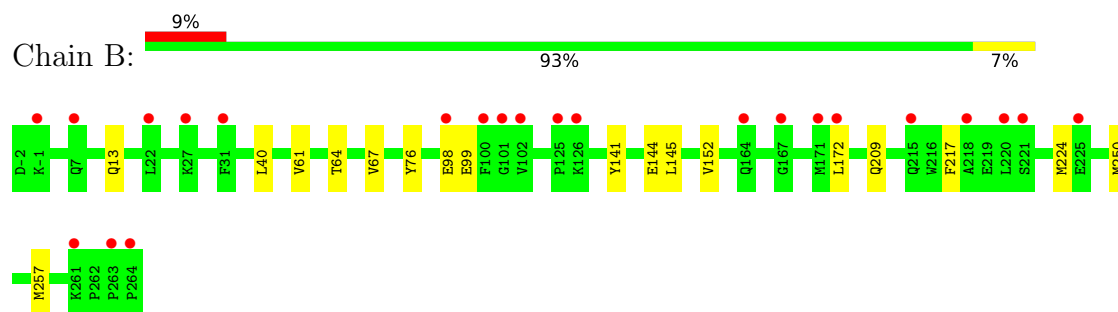
3 Residue-property plots [i](#)

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: Cyclin-dependent kinase 8



- Molecule 2: Cyclin-C



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	70.39Å 70.39Å 168.74Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	84.39 – 2.18 84.37 – 2.18	Depositor EDS
% Data completeness (in resolution range)	100.0 (84.39-2.18) 100.0 (84.37-2.18)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.15 (at 2.18Å)	Xtriage
Refinement program	REFMAC 5.6.0117, BUSTER	Depositor
R, R_{free}	0.184 , 0.216 0.196 , 0.230	Depositor DCC
R_{free} test set	1547 reflections (3.47%)	wwPDB-VP
Wilson B-factor (Å ²)	36.5	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 46.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.027 for k,h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5394	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.13% 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: FMT, EDO, 69Z

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	0.75	1/2913 (0.0%)	0.78	1/3923 (0.0%)
2	B	0.69	0/2326	0.81	0/3150
All	All	0.72	1/5239 (0.0%)	0.79	1/7073 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	112	ARG	NE-CZ	5.49	1.39	1.33

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	284	ARG	CD-NE-CZ	7.00	134.20	124.40

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	2840	0	2832	18	0
2	B	2267	0	2299	13	0
3	A	23	0	0	0	0
4	A	12	0	18	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	9	0	3	0	0
5	B	18	0	6	0	0
6	A	145	0	0	0	0
6	B	80	0	0	0	0
All	All	5394	0	5158	27	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 3.

All (27) 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)
2:B:67[A]:VAL:HG21	2:B:152:VAL:HG11	1.57	0.87
1:A:152:LEU:HD11	1:A:157:ILE:HD11	1.78	0.63
1:A:174:MET:HB2	1:A:176:PHE:CZ	2.34	0.62
2:B:61:VAL:HG22	2:B:98:GLU:HG3	1.81	0.61
1:A:71:ARG:NH2	2:B:13[B]:GLN:OE1	2.38	0.54
1:A:140:HIS:CD2	1:A:327:GLU:HG3	2.45	0.51
1:A:69:LEU:HD12	1:A:176:PHE:HD1	1.75	0.50
2:B:64:THR:O	2:B:67[A]:VAL:HG22	2.12	0.50
2:B:76:TYR:OH	2:B:145:LEU:HD22	2.13	0.48
1:A:5:PHE:CZ	1:A:9:LEU:HD11	2.49	0.47
2:B:67[A]:VAL:HG21	2:B:152:VAL:CG1	2.39	0.47
2:B:40:LEU:HD12	2:B:250:MET:HE1	1.96	0.46
1:A:297:MET:HE3	1:A:302:VAL:HG21	1.97	0.46
1:A:61:MET:HE1	2:B:99:GLU:HG3	1.96	0.46
1:A:108:ILE:HD13	1:A:226:GLU:HG2	1.98	0.45
1:A:179:LEU:HD23	1:A:180:PHE:CE2	2.51	0.45
1:A:149:HIS:O	1:A:174:MET:O	2.35	0.44
2:B:172:LEU:HD23	2:B:209[A]:GLN:NE2	2.31	0.44
1:A:233:ILE:HG23	1:A:234:PHE:CD2	2.52	0.44
2:B:40:LEU:HD21	2:B:257:MET:SD	2.57	0.44
1:A:86:LEU:HD12	2:B:144:GLU:HB2	2.00	0.44
1:A:1:MET:HE1	2:B:141:TYR:CE2	2.52	0.43
1:A:69:LEU:HD12	1:A:176:PHE:CD1	2.54	0.41
1:A:174:MET:HE2	1:A:176:PHE:HZ	1.86	0.41
2:B:217:PHE:HD1	2:B:224:MET:HE1	1.86	0.40
1:A:174:MET:HE2	1:A:176:PHE:CZ	2.57	0.40
1:A:324:ILE:HD12	1:A:329:ALA:HB2	2.03	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	336/364 (92%)	327 (97%)	9 (3%)	0	100	100
2	B	270/267 (101%)	269 (100%)	1 (0%)	0	100	100
All	All	606/631 (96%)	596 (98%)	10 (2%)	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	307/325 (94%)	306 (100%)	1 (0%)	86	92
2	B	249/244 (102%)	249 (100%)	0	100	100
All	All	556/569 (98%)	555 (100%)	1 (0%)	87	94

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	179	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	140	HIS
2	B	4	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 ⓘ

13 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	69Z	A	401	-	25,26,26	0.88	1 (4%)	31,38,38	2.65	10 (32%)
5	FMT	B	302	-	2,2,2	0.76	0	1,1,1	0.66	0
5	FMT	B	303	-	2,2,2	0.60	0	1,1,1	0.74	0
4	EDO	A	403	-	3,3,3	0.47	0	2,2,2	0.29	0
4	EDO	A	402	-	3,3,3	0.50	0	2,2,2	0.24	0
5	FMT	A	405	-	2,2,2	0.67	0	1,1,1	0.68	0
5	FMT	B	301	-	2,2,2	0.64	0	1,1,1	0.77	0
5	FMT	B	306	-	2,2,2	0.75	0	1,1,1	0.65	0
5	FMT	B	304	-	2,2,2	0.62	0	1,1,1	0.75	0
5	FMT	A	406	-	2,2,2	0.73	0	1,1,1	0.65	0
5	FMT	A	407	-	2,2,2	0.68	0	1,1,1	0.76	0
5	FMT	B	305	-	2,2,2	0.70	0	1,1,1	0.68	0
4	EDO	A	404	-	3,3,3	0.42	0	2,2,2	0.27	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
3	69Z	A	401	-	-	2/11/22/22	0/4/4/4
4	EDO	A	403	-	-	0/1/1/1	-
4	EDO	A	404	-	-	0/1/1/1	-
4	EDO	A	402	-	-	0/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	401	69Z	C19-S24	2.45	1.77	1.73

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	401	69Z	C16-N17-N18	6.91	117.42	105.01
3	A	401	69Z	C19-C20-N21	-6.65	108.69	114.31
3	A	401	69Z	S24-C16-N17	-5.86	110.76	116.76
3	A	401	69Z	C12-N13-C8	-3.86	107.53	111.88
3	A	401	69Z	C10-C8-N13	3.64	105.98	101.93
3	A	401	69Z	C22-N18-N17	3.44	140.47	135.24
3	A	401	69Z	C20-N21-C22	3.35	109.16	106.03
3	A	401	69Z	C11-C12-N13	2.21	107.04	103.24
3	A	401	69Z	C10-C8-C5	-2.13	109.44	113.69
3	A	401	69Z	C8-N13-C14	2.12	128.58	120.42

There are no chirality outliers.

All (2) torsion outliers are listed below:

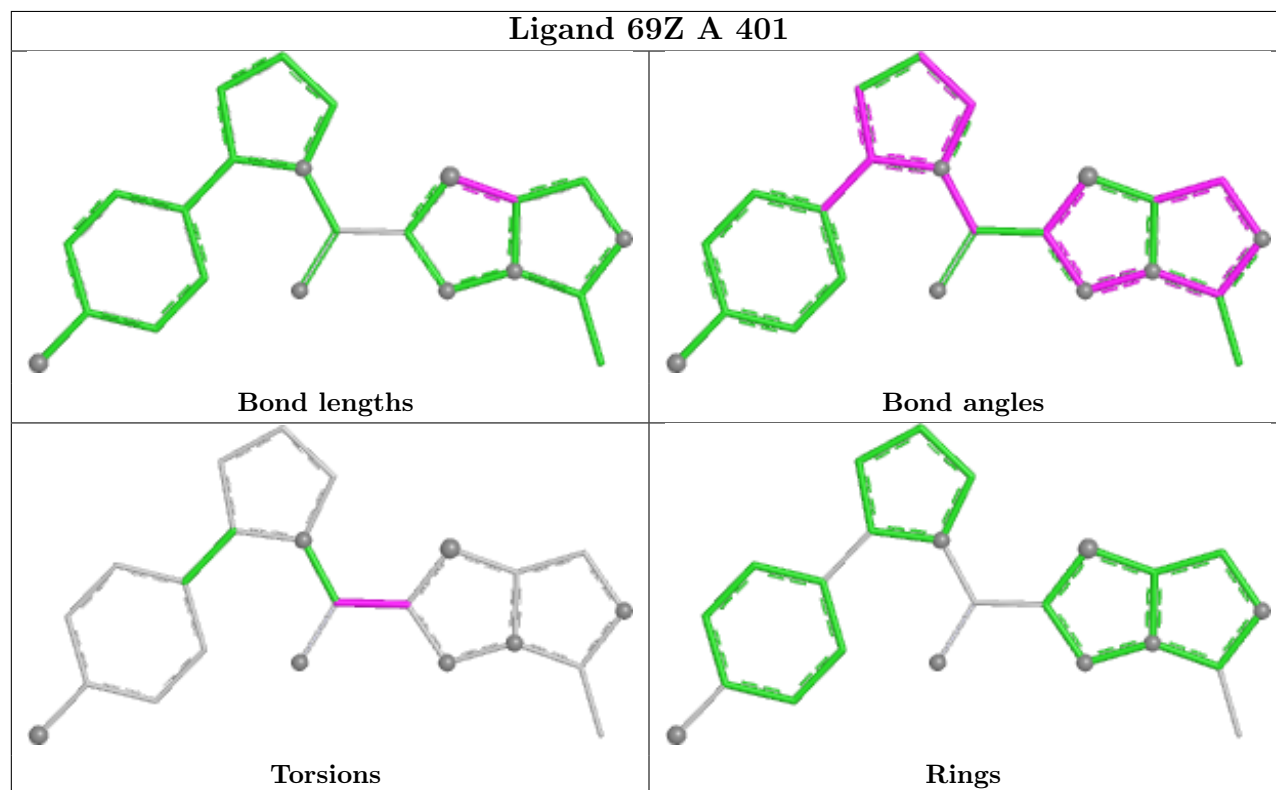
Mol	Chain	Res	Type	Atoms
3	A	401	69Z	O15-C14-C16-N17
3	A	401	69Z	O15-C14-C16-S24

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

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	343/364 (94%)	0.76	47 (13%) 6 6	20, 47, 73, 98	27 (7%)
2	B	267/267 (100%)	0.66	23 (8%) 16 15	18, 46, 75, 102	24 (8%)
All	All	610/631 (96%)	0.71	70 (11%) 9 8	18, 46, 76, 102	51 (8%)

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	176	PHE	7.8
1	A	239	GLU	5.7
1	A	175	GLY	5.4
1	A	195	VAL	5.3
1	A	123	LEU	5.2
1	A	185	LYS	5.0
2	B	102	VAL	4.6
1	A	146	TRP	4.4
2	B	100	PHE	4.3
2	B	264	PRO	4.1
1	A	59	ILE	3.7
1	A	44	LYS	3.6
1	A	43	GLY	3.5
1	A	238	GLN	3.4
1	A	124	PRO	3.4
2	B	218	ALA	3.3
1	A	174	MET	3.3
1	A	324	ILE	3.3
2	B	171	MET	3.2
1	A	360	THR	3.1
1	A	179	LEU	3.1
1	A	115	LYS	3.1
1	A	194	VAL	3.0
1	A	362	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	65	ARG	3.0
2	B	221	SER	3.0
1	A	64	CYS	2.9
1	A	125	ARG	2.8
1	A	289	THR	2.8
1	A	244	SER	2.7
1	A	348	GLY	2.7
2	B	220	LEU	2.7
1	A	350	GLN	2.6
2	B	27	LYS	2.6
1	A	91	ARG	2.6
2	B	261	LYS	2.5
1	A	196	THR	2.5
1	A	1	MET	2.5
1	A	24	GLY	2.5
2	B	31	PHE	2.5
1	A	305	ASP	2.4
1	A	114	SER	2.4
2	B	-1	LYS	2.4
1	A	359	LEU	2.4
2	B	22	LEU	2.4
1	A	286	ASN	2.4
2	B	101	GLY	2.4
1	A	245	ASN	2.3
1	A	358	PHE	2.3
1	A	42	ASP	2.3
2	B	98	GLU	2.2
2	B	164	GLN	2.2
1	A	248	HIS	2.2
1	A	209	ARG	2.2
1	A	23	GLU	2.2
1	A	109	LYS	2.2
2	B	125	PRO	2.2
2	B	263	PRO	2.2
1	A	63	ALA	2.2
1	A	89	ALA	2.2
1	A	113	ALA	2.2
2	B	167	GLY	2.1
2	B	172	LEU	2.1
2	B	126	LYS	2.1
2	B	225	GLU	2.1
1	A	31	THR	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	7	GLN	2.1
2	B	215	GLN	2.1
1	A	347	ALA	2.1
1	A	61	MET	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](#)

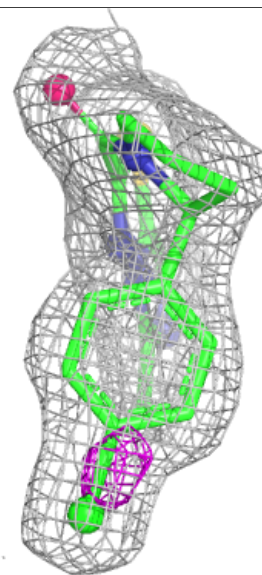
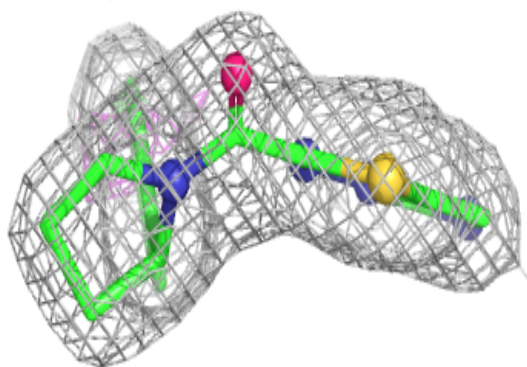
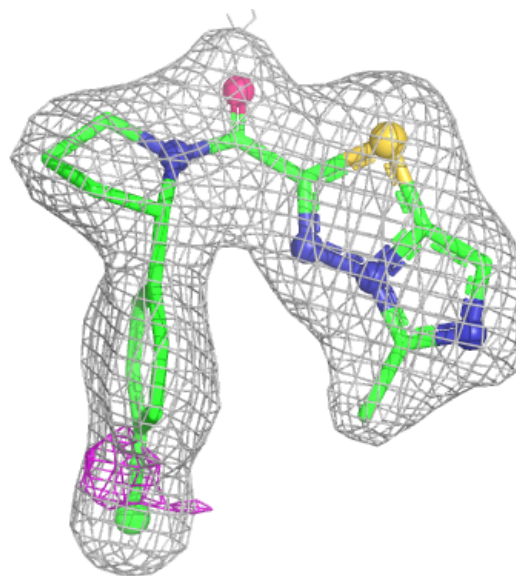
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
5	FMT	B	302	3/3	0.77	0.29	63,63,81,85	0
5	FMT	B	301	3/3	0.85	0.19	70,70,73,78	0
5	FMT	B	304	3/3	0.87	0.19	68,68,72,73	0
5	FMT	A	405	3/3	0.88	0.16	71,71,73,76	0
4	EDO	A	402	4/4	0.88	0.21	61,77,81,86	0
5	FMT	B	305	3/3	0.89	0.18	57,57,72,80	0
5	FMT	A	406	3/3	0.90	0.20	70,70,72,81	0
5	FMT	A	407	3/3	0.90	0.14	56,56,57,77	0
4	EDO	A	403	4/4	0.90	0.18	50,61,65,73	0
5	FMT	B	306	3/3	0.94	0.14	57,57,62,64	0
5	FMT	B	303	3/3	0.95	0.14	59,59,65,76	0
4	EDO	A	404	4/4	0.95	0.11	48,49,51,54	0
3	69Z	A	401	23/23	0.96	0.09	44,51,59,67	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 69Z 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.