

Full wwPDB X-ray Structure Validation Report (i)

Nov 15, 2022 – 12:58 pm GMT

PDB ID : 7QI0

Title: Crystal structure of KLK6 in complex with compound DKFZ918

Authors: Jagtap, P.K.A.; Baumann, A.; Lohbeck, J.; Isak, D.; Miller, A.; Hennig, J.

Deposited on : 2021-12-14

Resolution : 1.88 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 (i) 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 (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.31.2buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac : 5.8.0267

CCP4 : 7.1.010 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

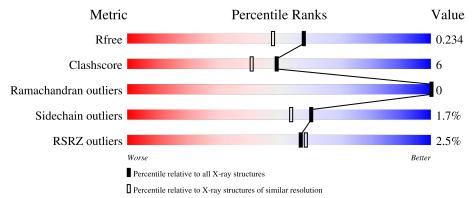
Validation Pipeline (wwPDB-VP) : 2.31.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.88 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	9470 (1.90-1.86)
Clashscore	141614	10282 (1.90-1.86)
Ramachandran outliers	138981	10152 (1.90-1.86)
Sidechain outliers	138945	10152 (1.90-1.86)
RSRZ outliers	127900	9303 (1.90-1.86)

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 <=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	223	84%	12% • •	
1	В	223	87%	12% •	



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 3503 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 Kallikrein-6.

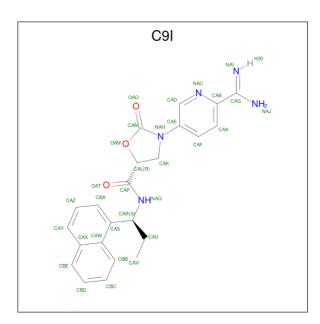
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	217	Total 1610	C 1008	N 286	O 302	S 14	0	2	0
1	В	222	Total 1673	C 1044	N 297	O 318	S 14	0	2	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	74	GLY	ARG	engineered mutation	UNP Q92876
A	76	GLN	ARG	engineered mutation	UNP Q92876
A	132	GLN	ASN	engineered mutation	UNP Q92876
В	74	GLY	ARG	engineered mutation	UNP Q92876
В	76	GLN	ARG	engineered mutation	UNP Q92876
В	132	GLN	ASN	engineered mutation	UNP Q92876

• Molecule 2 is $(5 \{R\})$ -3-(6-carbamimidoylpyridin-3-yl)- $\{N\}$ - $[(1 \{S\})$ -1-naphthalen-1-yl propyl]-2-oxidanylidene-1,3-oxazolidine-5-carboxamide (three-letter code: C9I) (formula: $C_{23}H_{23}N_5O_3$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total 31			0	0
2	В	1	Total 31		N 5	0	0

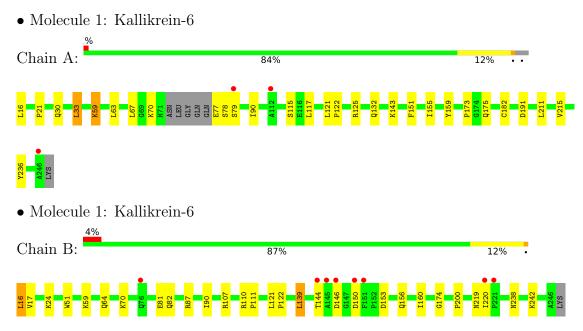
• Molecule 3 is water.

Mo	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
3		A	74	Total O 74 74	0	0
3		В	84	Total O 84 84	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.





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	62.41Å 46.86Å 68.23Å	Donositor
a, b, c, α , β , γ	90.00° 92.32° 90.00°	Depositor
Resolution (Å)	37.46 - 1.88	Depositor
Resolution (A)	68.17 - 1.88	EDS
% Data completeness	99.0 (37.46-1.88)	Depositor
(in resolution range)	99.0 (68.17-1.88)	EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.17 (at 1.88Å)	Xtriage
Refinement program	PHENIX 1.19.2-4158	Depositor
R, R_{free}	0.190 , 0.233	Depositor
it, it _{free}	0.191 , 0.234	DCC
R_{free} test set	1601 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	35.3	Xtriage
Anisotropy	0.212	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.036 for h,-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3503	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.37% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: C9I

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		nd lengths	Bond angles		
IVIOI	Chain	RMSZ $\# Z > 5$		RMSZ	# Z > 5	
1	A	0.77	3/1656 (0.2%)	0.85	4/2259 (0.2%)	
1	В	0.73	0/1721	0.87	1/2348 (0.0%)	
All	All	0.75	3/3377 (0.1%)	0.86	5/4607 (0.1%)	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a maintain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}({ ext{\AA}})$
1	A	236	TYR	CD2-CE2	5.63	1.47	1.39
1	A	59	LYS	CE-NZ	5.52	1.62	1.49
1	A	215	VAL	CB-CG2	5.04	1.63	1.52

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	В	16	LEU	CA-CB-CG	8.58	135.03	115.30
1	A	16	LEU	CA-CB-CG	7.94	133.56	115.30
1	A	33	LEU	CB-CG-CD2	-7.22	98.72	111.00
1	A	182	CYS	CA-CB-SG	-5.53	104.05	114.00
1	A	191	ASP	CB-CG-OD1	5.33	123.09	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:



Mol	Chain	Res	Type	Group
1	A	125	ARG	Sidechain

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	1610	0	1514	16	0
1	В	1673	0	1579	23	0
2	A	31	0	0	0	0
2	В	31	0	0	0	0
3	A	74	0	0	1	0
3	В	84	0	0	3	0
All	All	3503	0	3093	38	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 6.

All (38) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance } (\text{\AA}) \end{array}$	Clash overlap (Å)	
1:B:174:GLY:O	3:B:401:HOH:O	1.74	1.05	
1:B:81:GLU:OE2	3:B:402:HOH:O	1.98	0.80	
1:B:139:LEU:HD13	1:B:200:PRO:HG2	1.72	0.71	
1:B:59:LYS:HD3	1:B:90:ILE:HD11	1.72	0.70	
1:A:79:SER:HB3	1:A:117:LEU:HD13	1.72	0.70	
1:A:33:LEU:HD22	1:A:63:LEU:HD22	1.76	0.68	
1:B:24:LYS:H	1:B:24:LYS:HD2	1.62	0.65	
1:B:24:LYS:HD2	1:B:24:LYS:N	2.14	0.63	
1:B:219:ASN:O	1:B:220:ILE:HD13	1.99	0.62	
1:A:132:GLN:OE1	1:A:132:GLN:N	2.31	0.61	
1:B:64:GLN:OE1	1:B:82:GLN:NE2	2.32	0.61	
1:B:110:ARG:HG2	1:B:111:PRO:HD2	1.82	0.60	
1:A:21:PRO:HA	1:A:155:ILE:O	2.05	0.56	
1:B:110:ARG:HD2	3:B:402:HOH:O	2.04	0.56	
1:A:59:LYS:HG2	1:A:90:ILE:HD11	1.89	0.55	
1:B:24:LYS:H	1:B:24:LYS:CD	2.21	0.52	
1:B:59:LYS:HD3	1:B:90:ILE:CD1	2.40	0.52	

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A + 1	A + 2	Interatomic	Clash	
Atom-1	Atom-2	${\rm distance} \ (\mathring{\rm A})$	overlap (Å)	
1:A:173:PRO:O	1:A:175:GLN:HG3	2.12	0.49	
1:B:51:TRP:CZ2	1:B:107:ARG:HG3	2.47	0.49	
1:A:115:SER:O	1:A:117:LEU:N	2.39	0.48	
1:B:139:LEU:CD1	1:B:200:PRO:HG2	2.43	0.48	
1:A:121:LEU:HD12	1:A:122:PRO:HD2	1.95	0.48	
1:A:121:LEU:HD23	1:A:211:LEU:HB2	1.95	0.47	
1:B:150:ASP:OD2	1:B:150:ASP:N	2.37	0.46	
1:B:242:LYS:HE3	1:B:242:LYS:HA	1.97	0.46	
1:B:24:LYS:N	1:B:24:LYS:CD	2.78	0.46	
1:B:17:VAL:HG12	1:B:144:THR:C	2.37	0.46	
1:A:30:GLN:HG2	1:A:155:ILE:CD1	2.47	0.45	
1:A:159:TYR:CE2	1:B:238:ASN:HB2	2.52	0.44	
1:B:51:TRP:CE2	1:B:107:ARG:HG3	2.53	0.43	
1:B:121:LEU:HD12	1:B:122:PRO:HD2	2.01	0.43	
1:B:160:ILE:HD13	1:B:160:ILE:HG21	1.85	0.43	
1:B:16:LEU:HG	1:B:156:GLN:HB2	2.01	0.42	
1:A:70:LYS:HE2	1:A:77:GLU:OE1	2.20	0.42	
1:A:33:LEU:CD2	1:A:63:LEU:HD22	2.46	0.42	
1:A:33:LEU:HA	1:A:33:LEU:HD23	1.82	0.42	
1:A:143:LYS:HG3	1:A:151:PHE:CZ	2.56	0.41	
1:A:67:LEU:HA	3:A:407:HOH:O	2.21	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	Percenti	iles
1	A	$215/223\ (96\%)$	208 (97%)	7 (3%)	0	100 10	00
1	В	222/223 (100%)	218 (98%)	4 (2%)	0	100 10	00
All	All	437/446 (98%)	426 (98%)	11 (2%)	0	100 10	00



There are no Ramachandran outliers to report.

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	170/187 (91%)	169 (99%)	1 (1%)	86 86		
1	В	180/187 (96%)	175 (97%)	5 (3%)	43 33		
All	All	350/374 (94%)	344 (98%)	6 (2%)	60 54		

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

Mol	Chain	Res	Type
1	A	78	SER
1	В	70	LYS
1	В	87	ARG
1	В	139	LEU
1	В	146	ASP
1	В	153	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	\mathbf{Type}
1	A	238	ASN
1	В	161	HIS
1	В	241	GLN

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 monosaccharides 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).

Mal	Trme	Chain	Pag	Link	Bond lengths			Bond angles		
MIOI	Mol Type Chain I	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2	
2	C9I	A	301	-	34,34,34	1.93	8 (23%)	41,48,48	2.02	14 (34%)
2	C9I	В	301	-	34,34,34	2.01	8 (23%)	41,48,48	2.25	9 (21%)

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	C9I	A	301	-	-	6/22/34/34	0/4/4/4
2	C9I	В	301	-	-	4/22/34/34	0/4/4/4

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
2	В	301	C9I	CAB-CAG	-5.77	1.39	1.47
2	A	301	C9I	CAE-NAH	-5.08	1.32	1.43
2	В	301	C9I	CAE-NAH	-4.41	1.34	1.43
2	A	301	C9I	CAD-NAC	4.15	1.43	1.34
2	В	301	C9I	CAS-CAR	-4.15	1.45	1.52
2	A	301	C9I	CAK-NAH	3.68	1.53	1.47
2	A	301	C9I	CAS-CAR	-3.39	1.46	1.52
2	В	301	C9I	CAD-NAC	3.13	1.41	1.34
2	В	301	C9I	CAL-CAP	-3.01	1.47	1.52
2	A	301	C9I	CAB-CAG	-2.99	1.43	1.47

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
2	В	301	C9I	CBA-CAS	2.94	1.42	1.37
2	В	301	C9I	OAM-CAN	2.77	1.39	1.35
2	A	301	C9I	OAO-CAN	2.72	1.25	1.21
2	A	301	C9I	CAK-CAL	2.69	1.57	1.53
2	В	301	C9I	OAO-CAN	2.54	1.24	1.21
2	A	301	C9I	CBC-CBB	2.53	1.42	1.36

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	301	C9I	OAO-CAN-NAH	-7.01	123.35	128.91
2	В	301	C9I	CAK-NAH-CAN	-6.43	107.55	111.28
2	В	301	C9I	CAU-CAR-CAS	-5.21	106.78	112.52
2	A	301	C9I	OAO-CAN-NAH	-4.71	125.17	128.91
2	A	301	C9I	CAG-CAB-NAC	4.29	123.05	116.10
2	В	301	C9I	OAM-CAN-NAH	4.13	112.69	109.83
2	A	301	C9I	CAE-NAH-CAN	4.05	130.25	125.91
2	В	301	C9I	CAA-CAB-NAC	-3.59	117.82	122.72
2	A	301	C9I	CAA-CAB-NAC	-3.53	117.90	122.72
2	В	301	C9I	CAG-CAB-NAC	3.17	121.24	116.10
2	A	301	C9I	CBA-CAS-CAW	-3.17	114.93	118.72
2	A	301	C9I	CAZ-CAY-CAX	-2.87	115.96	120.44
2	A	301	C9I	CBE-CAX-CAY	-2.85	116.52	123.19
2	A	301	C9I	CAR-CAS-CAW	2.84	124.90	121.25
2	A	301	C9I	CAD-NAC-CAB	2.65	121.48	117.36
2	A	301	C9I	CBB-CAW-CAS	-2.58	120.40	123.40
2	A	301	C9I	OAM-CAN-NAH	2.56	111.60	109.83
2	В	301	C9I	CAD-NAC-CAB	2.55	121.33	117.36
2	A	301	C9I	CAY-CAX-CAW	2.37	122.25	119.12
2	В	301	C9I	CAF-CAA-CAB	2.30	122.22	118.88
2	A	301	C9I	CAF-CAA-CAB	2.15	122.01	118.88
2	В	301	C9I	CBB-CAW-CAS	-2.11	120.95	123.40
2	A	301	C9I	CAV-CAU-CAR	-2.05	111.42	113.70

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	C9I	CAA-CAB-CAG-NAI
2	В	301	C9I	CAA-CAB-CAG-NAI
2	В	301	C9I	CAU-CAR-NAQ-CAP
2	A	301	C9I	OAM-CAL-CAP-NAQ

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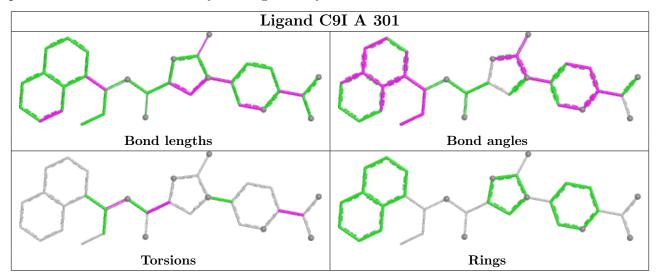
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Mol	Chain	Res	Type	Atoms
2	В	301	C9I	OAM-CAL-CAP-NAQ
2	A	301	C9I	CAU-CAR-NAQ-CAP
2	A	301	C9I	NAC-CAB-CAG-NAI
2	В	301	C9I	NAC-CAB-CAG-NAI
2	A	301	C9I	OAM-CAL-CAP-OAT
2	A	301	C9I	CAS-CAR-NAQ-CAP

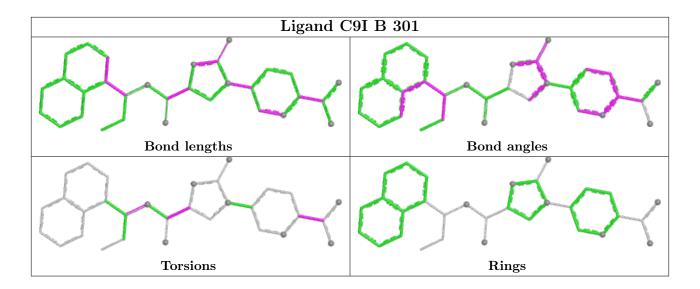
There are no ring outliers.

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 then 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, 95^{th} 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		$OWAB(A^2)$	Q<0.9
1	A	217/223 (97%)	0.14	3 (1%) 75 77	26, 50, 76, 90	0
1	В	$222/223 \ (99\%)$	0.16	8 (3%) 42 44	27, 50, 77, 102	0
All	All	439/446 (98%)	0.15	11 (2%) 57 59	26, 50, 77, 102	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	145	ALA	3.7
1	В	146	ASP	3.5
1	A	79	SER	3.3
1	В	144	THR	2.5
1	A	246	ALA	2.5
1	В	151	PHE	2.4
1	В	221	PRO	2.4
1	В	150	ASP	2.3
1	В	76	GLN	2.2
1	В	220	ILE	2.1
1	A	112	ALA	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 monosaccharides in this entry.

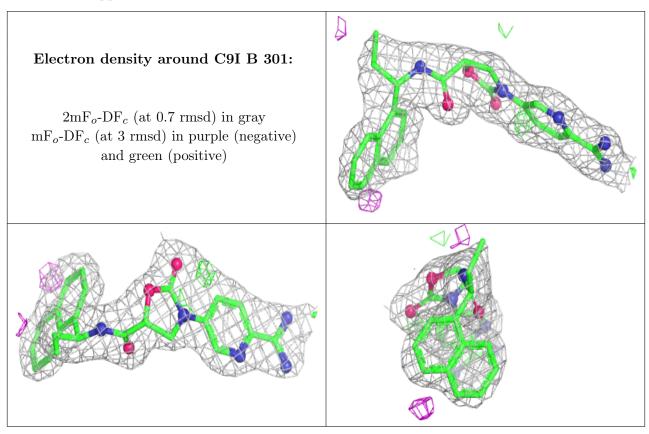


6.4 Ligands (i)

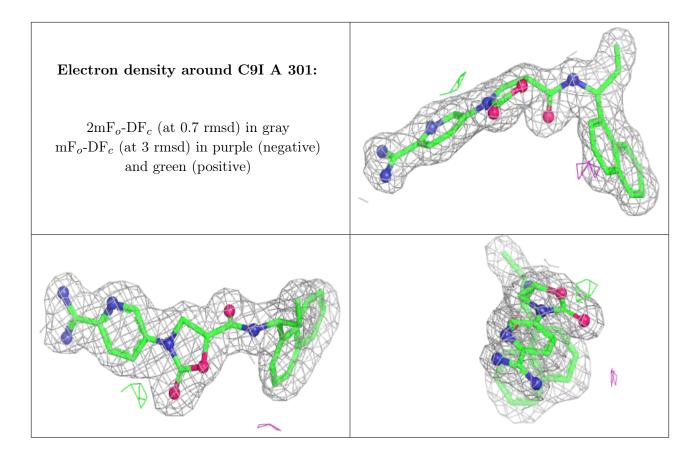
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	C9I	В	301	31/31	0.91	0.14	36,46,51,52	0
2	C9I	A	301	31/31	0.93	0.11	30,39,45,48	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.

