

wwPDB X-ray Structure Validation Summary Report (i)

Sep 23, 2023 – 02:28 PM EDT

PDB ID	:	5T1S
Title	:	Irak4 kinase - compound 1 co-structure
Authors	:	Fischmann, T.O.
Deposited on		
Resolution	:	2.30 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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:

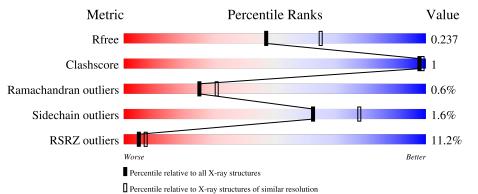
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.30 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575(2.30-2.30)
Sidechain outliers	138945	5575(2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	А	301	8%	•• 6%
1	В	301	91%	• 5%
1	С	301	93%	• 5%
1	D	301	90%	• 6%



2 Entry composition (i)

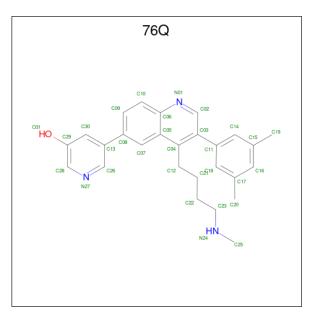
There are 3 unique types of molecules in this entry. The entry contains 9178 atoms, of which 0 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	А	283	Total	С	Ν	0	Р	\mathbf{S}	0	0	3
	Л	200	2227	1395	375	440	3	14	0	0	Э
1	В	285	Total	С	Ν	Ο	Р	\mathbf{S}	0	Ο	2
1	D	200	2233	1398	377	441	3	14	0	0	2
1	С	287	Total	С	Ν	Ο	Р	\mathbf{S}	0	0	1
1	U	201	2249	1410	376	446	3	14	0	0	T
1	Л	284	Total	С	Ν	Ο	Р	\mathbf{S}	0	0	0
		284	2236	1403	377	439	3	14	0	U	0

• Molecule 1 is a protein called Interleukin-1 receptor-associated kinase 4.

• Molecule 2 is 5-[3-(3,5-dimethylphenyl)-4-[4-(methylamino)butyl]quinolin-6-yl]pyridin-3-ol (three-letter code: 76Q) (formula: C₂₇H₂₉N₃O).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total C N O 31 27 3 1	0	0
2	В	1	Total C N O 31 27 3 1	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	С	1	Total C N O 31 27 3 1	0	0
2	D	1	Total C N O 31 27 3 1	0	0

• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	23	TotalO2323	0	0
3	В	24	Total O 24 24	0	0
3	С	31	TotalO3131	0	0
3	D	31	Total O 31 31	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: Interleukin-1 receptor-associated kinase 4











4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	144.34Å 139.30Å 88.09Å	Deperitor
a, b, c, α , β , γ	90.00° 125.05° 90.00°	Depositor
Resolution (Å)	37.20 - 2.30	Depositor
Resolution (A)	37.20 - 2.30	EDS
% Data completeness	97.7 (37.20-2.30)	Depositor
(in resolution range)	97.7 (37.20-2.30)	EDS
R _{merge}	0.07	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.33 (at 2.29 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.11.2	Depositor
D D.	0.207 , 0.223	Depositor
R, R_{free}	0.217 , 0.237	DCC
R_{free} test set	3138 reflections (5.08%)	wwPDB-VP
Wilson B-factor $(Å^2)$	45.7	Xtriage
Anisotropy	0.390	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.37, 48.3	EDS
L-test for twinning ²	$< L >=0.47, < L^2>=0.30$	Xtriage
Estimated twinning fraction	0.109 for -h-2*l,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9178	wwPDB-VP
Average B, all atoms $(Å^2)$	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 15.59% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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: TPO, SEP, $76\mathrm{Q}$

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	А	0.49	0/2229	0.62	0/3000	
1	В	0.49	0/2236	0.62	0/3010	
1	С	0.50	0/2253	0.62	0/3036	
1	D	0.50	0/2240	0.64	0/3017	
All	All	0.49	0/8958	0.62	0/12063	

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	А	2227	0	2180	2	0
1	В	2233	0	2186	4	0
1	С	2249	0	2205	2	0
1	D	2236	0	2201	4	0
2	А	31	0	0	1	0
2	В	31	0	0	0	0
2	С	31	0	0	0	0
2	D	31	0	0	3	0
3	А	23	0	0	0	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes			
3	В	24	0	0	0	0			
3	С	31	0	0	0	0			
3	D	31	0	0	0	0			
All	All	9178	0	8772	12	0			

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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 1.

The worst 5 of 12 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:192:MET:HB2	1:B:200:VAL:HG23	1.75	0.66
1:D:192:MET:HB3	2:D:9901:76Q:C14	2.40	0.52
1:D:410:ILE:HD12	1:D:410:ILE:H	1.74	0.51
1:B:192:MET:HE2	1:B:264:TYR:HE1	1.76	0.51
1:B:390:HIS:O	1:C:390:HIS:O	2.32	0.47

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	Perce	ntiles
1	А	272/301~(90%)	258~(95%)	11 (4%)	3(1%)	14	15
1	В	276/301~(92%)	262~(95%)	12 (4%)	2(1%)	22	26
1	С	279/301~(93%)	267~(96%)	12 (4%)	0	100	100
1	D	276/301~(92%)	262~(95%)	12 (4%)	2(1%)	22	26
All	All	1103/1204~(92%)	1049~(95%)	47 (4%)	7 (1%)	25	31

5 of 7 Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	D	186	SER
1	А	254	ASP
1	D	185	ILE
1	А	257	ASP
1	В	230	PHE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	А	243/259~(94%)	238~(98%)	5(2%)	53 70
1	В	243/259~(94%)	241 (99%)	2(1%)	81 91
1	С	245/259~(95%)	241~(98%)	4 (2%)	62 78
1	D	243/259~(94%)	238~(98%)	5(2%)	53 70
All	All	974/1036~(94%)	958~(98%)	16 (2%)	62 78

5 of 16 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
1	D	230	PHE
1	D	228	GLN
1	С	225	GLU
1	D	226	LEU
1	С	173	LEU

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

Mol	Chain	Res	Type
1	А	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)

12 non-standard protein/DNA/RNA residues 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	Turne	Chain	Res	Link	B	ond leng	gths	В	ond ang	les
	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
1	TPO	D	342	1	8,10,11	0.99	1 (12%)	$10,\!14,\!16$	1.32	1 (10%)
1	TPO	В	342	1	8,10,11	0.98	0	10,14,16	1.35	1 (10%)
1	TPO	В	345	1	8,10,11	1.11	0	10,14,16	1.17	1 (10%)
1	SEP	А	346	1	8,9,10	0.92	0	8,12,14	1.69	2 (25%)
1	TPO	А	342	1	8,10,11	0.96	0	10,14,16	1.36	1 (10%)
1	TPO	А	345	1	8,10,11	1.04	0	$10,\!14,\!16$	1.25	2 (20%)
1	TPO	С	342	1	8,10,11	1.04	0	10,14,16	1.36	1 (10%)
1	TPO	D	345	1	8,10,11	0.97	0	10,14,16	1.23	1 (10%)
1	SEP	D	346	1	8,9,10	1.00	0	8,12,14	1.69	2 (25%)
1	SEP	С	346	1	8,9,10	0.86	0	8,12,14	1.65	2 (25%)
1	TPO	С	345	1	8,10,11	1.24	0	10,14,16	1.10	0
1	SEP	В	346	1	8,9,10	1.03	1 (12%)	8,12,14	1.76	2 (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
1	TPO	D	342	1	-	1/9/11/13	-
1	TPO	В	342	1	-	1/9/11/13	-
1	TPO	В	345	1	-	4/9/11/13	-
1	SEP	А	346	1	-	0/5/8/10	-
1	TPO	А	342	1	-	1/9/11/13	-
1	TPO	А	345	1	-	3/9/11/13	-
1	TPO	С	342	1	-	2/9/11/13	-
1	TPO	D	345	1	-	3/9/11/13	-
1	SEP	D	346	1	-	0/5/8/10	-



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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings		
1	SEP	С	346	1	-	0/5/8/10	-		
1	TPO	С	345	1	-	4/9/11/13	-		
1	SEP	B	346	1	-	0/5/8/10	-		

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All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	В	346	SEP	P-O1P	2.22	1.57	1.50
1	D	342	TPO	P-OG1	-2.11	1.55	1.59

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	А	346	SEP	P-OG-CB	-3.63	108.29	118.30
1	В	346	SEP	P-OG-CB	-3.46	108.77	118.30
1	С	342	TPO	P-OG1-CB	-3.34	113.12	123.21
1	А	342	TPO	P-OG1-CB	-3.33	113.16	123.21
1	В	342	TPO	P-OG1-CB	-3.25	113.40	123.21

There are no chirality outliers.

5 of 19 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	А	342	TPO	O-C-CA-CB
1	А	345	TPO	N-CA-CB-OG1
1	В	342	TPO	O-C-CA-CB
1	В	345	TPO	N-CA-CB-OG1
1	В	345	TPO	CB-OG1-P-O1P

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

4 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	Bo	Bond lengths			Bond angles		
INIOI	туре	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
2	76Q	D	9901	-	33,34,34	1.66	1 (3%)	45,47,47	0.94	3 (6%)	
2	76Q	А	9901	-	33,34,34	1.40	1 (3%)	45,47,47	0.92	3 (6%)	
2	76Q	С	9901	-	33,34,34	1.36	1 (3%)	45,47,47	0.85	2 (4%)	
2	76Q	В	9901	-	33,34,34	0.97	1 (3%)	45,47,47	0.89	2(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	76Q	D	9901	-	-	4/14/14/14	0/4/4/4
2	76Q	А	9901	-	-	4/14/14/14	0/4/4/4
2	76Q	С	9901	-	-	3/14/14/14	0/4/4/4
2	76Q	В	9901	-	-	3/14/14/14	0/4/4/4

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	9901	76Q	C03-C04	8.72	1.55	1.41
2	А	9901	76Q	C03-C04	7.40	1.53	1.41
2	С	9901	76Q	C03-C04	7.04	1.53	1.41
2	В	9901	76Q	C03-C04	4.96	1.49	1.41

All (4) bond length outliers are listed below:

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	С	9901	76Q	C03-C04-C05	-3.69	116.20	119.39
2	А	9901	76Q	C03-C04-C05	-3.53	116.33	119.39
2	D	9901	76Q	C03-C04-C05	-3.22	116.60	119.39
2	В	9901	76Q	C03-C04-C05	-2.99	116.80	119.39
2	А	9901	76Q	C03-C02-N01	2.74	128.77	124.52



There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
2	А	9901	76Q	C03-C04-C12-C21
2	А	9901	76Q	C05-C04-C12-C21
2	В	9901	76Q	C05-C04-C12-C21
2	С	9901	76Q	C05-C04-C12-C21
2	D	9901	76Q	C03-C04-C12-C21

5 of 14 torsion outliers are listed below:

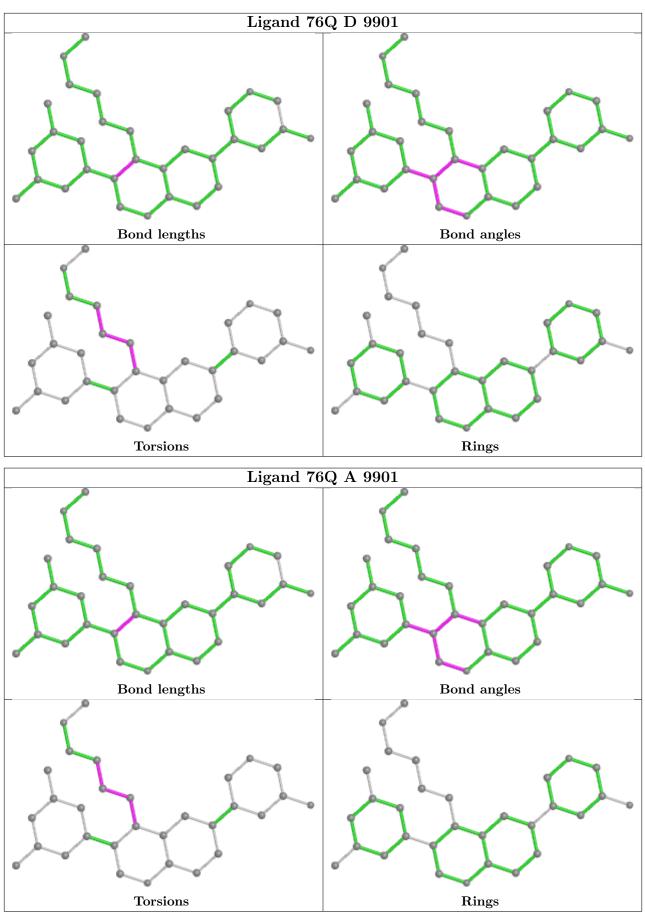
There are no ring outliers.

2 monomers are involved in 4 short contacts:

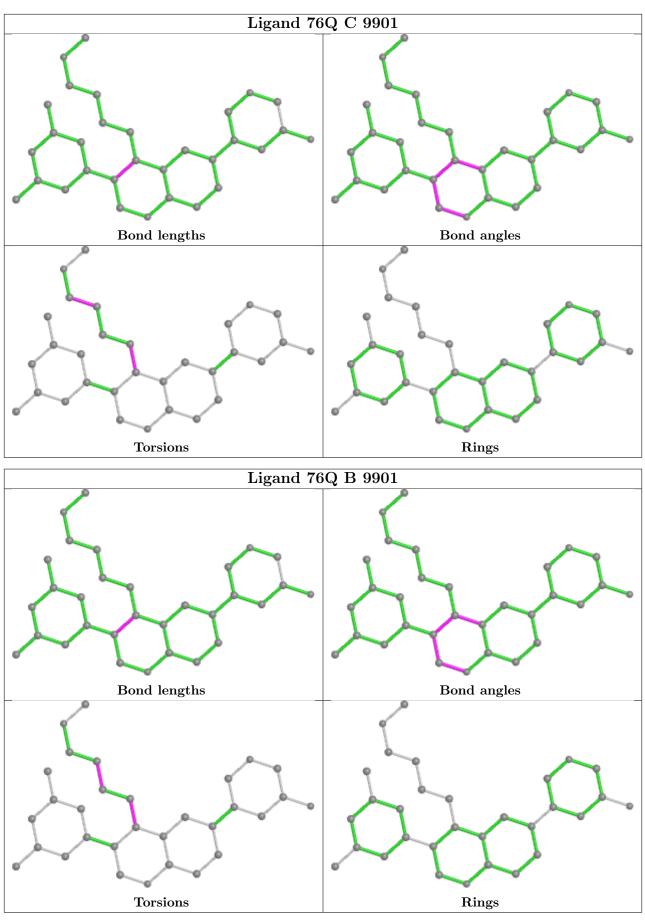
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	9901	76Q	3	0
2	А	9901	76Q	1	0

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 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	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	280/301~(93%)	0.46	23 (8%) 11 15	34, 58, 122, 149	0
1	В	282/301~(93%)	0.76	38 (13%) 3 4	34, 61, 136, 156	0
1	С	284/301~(94%)	0.68	42 (14%) 2 3	29, 58, 124, 150	0
1	D	281/301~(93%)	0.52	23 (8%) 11 15	31, 55, 114, 141	0
All	All	1127/1204~(93%)	0.61	126 (11%) 5 7	29, 58, 124, 156	0

The worst 5 of 126 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	193	GLY	13.7
1	D	197	PHE	11.0
1	С	197	PHE	10.1
1	В	187	VAL	9.3
1	D	183	ARG	7.9

6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
1	SEP	С	346	10/11	0.71	0.15	$79,\!86,\!95,\!95$	0
1	SEP	В	346	10/11	0.79	0.14	87,91,97,97	0
1	TPO	D	342	11/12	0.83	0.13	83,86,94,94	0
1	SEP	А	346	10/11	0.85	0.11	78,82,89,89	0
1	SEP	D	346	10/11	0.85	0.11	75,82,91,91	0
1	TPO	А	342	11/12	0.90	0.15	88,89,96,96	0
1	TPO	С	342	11/12	0.91	0.13	89,90,95,95	0



Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q<0.9
1	TPO	В	342	11/12	0.91	0.14	$93,\!95,\!95,\!95$	0
1	TPO	В	345	11/12	0.92	0.12	85,87,88,89	0
1	TPO	А	345	11/12	0.93	0.14	74,76,79,80	0
1	TPO	D	345	11/12	0.94	0.12	70,74,75,76	0
1	TPO	С	345	11/12	0.95	0.11	71,72,76,78	0

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6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

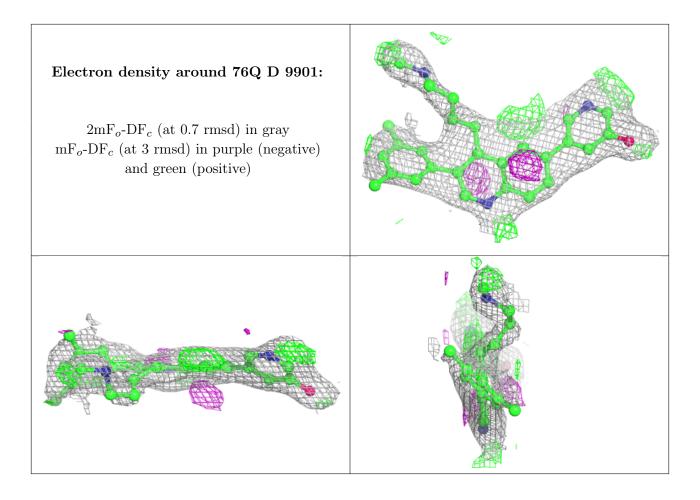
6.4 Ligands (i)

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.

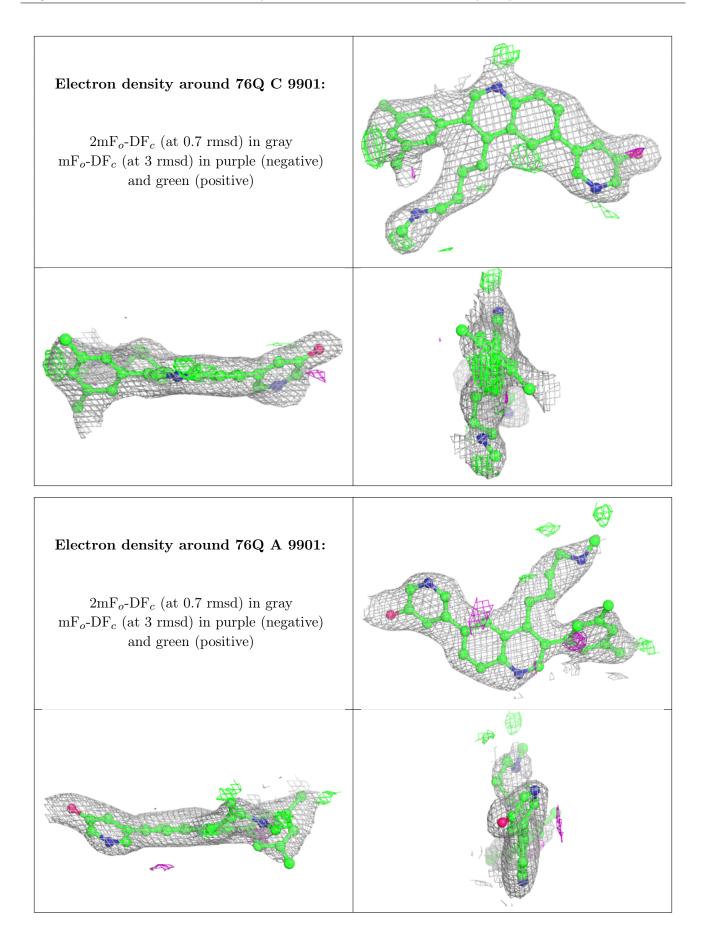
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q<0.9
2	76Q	D	9901	31/31	0.79	0.25	66,73,78,78	0
2	76Q	С	9901	31/31	0.84	0.19	$58,\!69,\!74,\!75$	0
2	76Q	А	9901	31/31	0.87	0.24	$61,\!71,\!77,\!78$	0
2	76Q	В	9901	31/31	0.91	0.23	$58,\!67,\!75,\!80$	0

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.

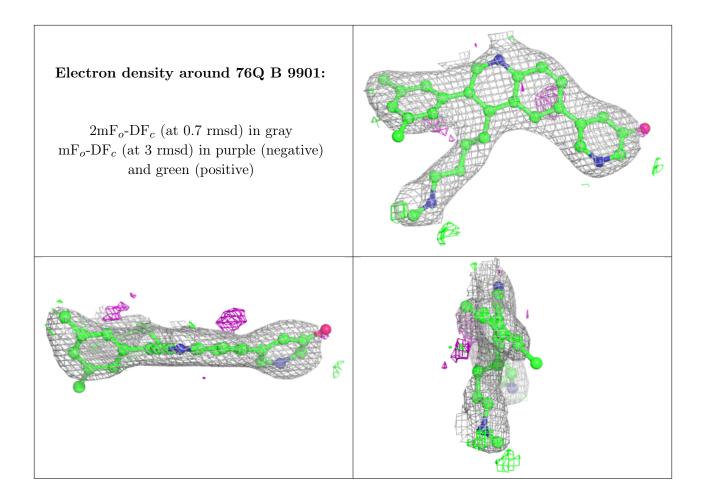












6.5 Other polymers (i)

There are no such residues in this entry.

